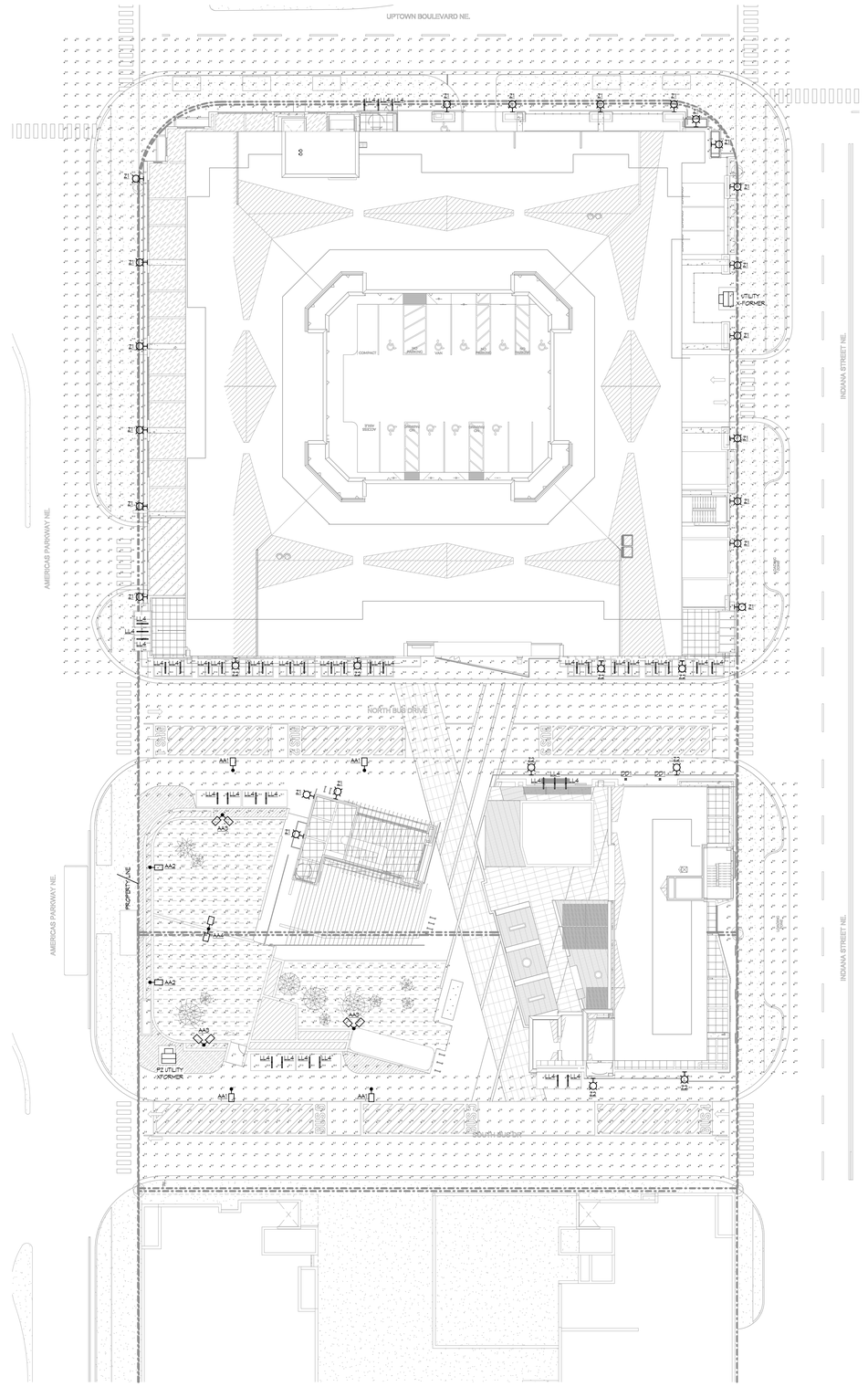
LIGHT FIXTURE SCHEDULE

GENERAL NOTES:
A. SEE SPEC SECTION 26 0000 AND 26 5100 FOR ADDITIONAL REQUIREMENTS AS REQUIRED.
B. EQUAL TO AND OR EQUAL: WHERE MATERIALS ARE SPECIFICALLY IDENTIFIED WITH EQUAL TO / OR EQUAL, SUBSTITUTE MANUFACTURERS COMPLYING WITH THE REQUIREMENTS OF THESE SPECIFICATIONS BUT NOT LISTED MAY BE INCORPORATED IN THE WORK. SUCH MATERIAL EQUAL TO OR SUPERIOR, IN ENGINEER'S OPINION, TO THAT SPECIFIED IN CONSTRUCTION, EFFICIENCY, APPEARANCE, AND UTILITY.
C. ALL DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
D. RATED LIFE OF LED LUMINARES SHALL BE 50,000 HOURS UNLESS OTHERWISE NOTED.
E. EMERGENCY LUMINARES SHALL BE EQUIPPED WITH SELF-DIAGNOSTIC BATTERIES UNLESS OTHERWISE NOTED.
F. COLOR TEMPERATURE OF LED LUMINARES IS NOMINAL UNLESS OTHERWISE NOTED.
G. SYSTEM WATTAGE SCHEDULED IS NOMINAL UNLESS NOTED OTHERWISE.
H. 0-10V LED DRIVERS TO BE FURNISHED WITH ISOLATED GROUNDS. COMMON WIRE SHALL BE ISOLATED FROM THE POWER SYSTEM GROUND WIRE OF THE POWER SUPPLY.
J. DIMMING COMPONENTS SHALL BE COMPATIBLE WITH SPECIFIED LIGHTING CONTROL SYSTEMS.
K. LINEAR LUMINAIRE LENGTHS GREATER THAN 5'-0": LENS & REFLECTOR SHALL BE CONTINUOUS FROM END TO END (WITHOUT VISIBLE JOINTS) FOR THE TOTAL RUN LENGTH.
L. REFER TO ARCHITECTURAL, LANDSCAPING, AND CIVIL PLANS FOR COORDINATION AND ADDITIONAL INFORMATION, DETAILS, MOUNTING, AND LOCATION OF EQUIPMENT.
M. FOR SITE POLE LIGHTING, PROVIDE ROUND, TAPERED, STEEL POLE WITH HANDHOLE, ANCHOR BOLTS, BOLT TEMPLATE, VIBRATION DAMPER, AND BASE COVER. SHALL BE FACTORY FINISHED TO MATCH LUMINAIRE. REFER TO POLE BASE DETAILS FOR ADDITIONAL INFORMATION.
N. PROVIDE T-GRID MOUNTING HARDWARE WHERE REQUIRED. REFER TO ARCHITECTURAL RCP PLANS FOR MORE INFORMATION.

NOTES:
1. PROVIDE FIXTURE MOUNTED BI-LEVEL MOTION SENSOR. POWER SUPPLY TO BE 0-10V DIMMING TO DIM WATTAGE DOWN IN 1% INCREMENTS TO REDUCE LIGHT LEVEL WHEN AREA IS UNOCCUPIED.
2. PROVIDE 9 WATT A19 (E26) SCREW-IN BASE LED REPLACEMENT LAMP EQUAL TO CONTECH LIGHTING (MEGAMAN) LG4509D (360 DEGREE DISTRIBUTION): 120V, 80CRI, (2700K,3000K,3500K,4000K) 800 LUMENS, 25,000 HOURS, DIMMABLE (REFER TO GENERAL DIMMING NOTE).

TYPE	MANUFACTURER	SERIES	VOLT	LIGHT SOURCE			POWER SUPPLY/DIMMING		DIMENSIONS	MOUNTING	FINISH	DESCRIPTION
				CCT	CRI	LUMENS	SYSTEM WATTAGE	DIMMING				
DD1	EQUAL TO: KIRLIN	LATITUDES	MVOLT	3000	80	1,000	0 W	1% 0-10V DIM	5-1/2" H 4-3/8" W	RECESSED	DARK BRONZE	LENSED 4" ROUND DOWNLIGHT, ALUMINUM HEAT SINK.
LL4	EQUAL TO: PRUDENTIAL	WET BIONGPROS	MVOLT	3000K	80	700 LM/FT	22.4 W	1% 0-10V DIM	4-3/8" H 3-1/2" W 4'-0" L	SURFACE	WHITE	SURFACE MOUNT LINEAR FIXTURE, EXTRUDED ALUMINUM HOUSING WITH SEAMLESS LENS. MEDIUM OUTPUT WITH BATWING DISTRIBUTION.
Z1	EQUAL TO: CONTECH LIGHTING	CYL6	MVOLT	3000K	80	1,605 UP/ 1,605 DN	25 W	30% 0-10V DIM	16-1/4"H 6-1/4"W 4-1/4"L	EXTERIOR WALL	DARK BRONZE	WALL MOUNTED CYLINDRICAL UP/DOWN LIGHT. ALUMINUM HOUSING, WET LOCATION LISTED. SILICONE SEALED CLEAR GLASS LENS. 54 DEGREE MEDIUM CLEAR ALZAK REFLECTOR BEAM.
Z2	EQUAL TO: LITHONIA	WDGE4	MVOLT	3000K	80	15,029	108 W	30% 0-10V DIM	9" H 25" W 10" D	EXTERIOR WALL	DARK BRONZE	WALL MOUNTED TRAPEZOIDAL FIXTURE. WET LOCATION LISTED. IP2 PACKAGE WITH TYPE IV DISTRIBUTION. MOTION SENSOR FOR DIMMING OPERATION & PHOTOCELL.
AA1	EQUAL TO: LSI	GSR-FLED	MVOLT	3000K	80	10,270	74 W	10% 0-10V DIM	HEAD PER MANUFACTURER 1" ARM	30'-0" POLE	DARK BRONZE	POLE MOUNTED SITE FIXTURE. LOW-PROFILE DESIGN HEAD W/ CURVED TOP. EXTRUDED ALUMINUM DRIVER & DIE CAST ALUMINUM ENCLOSED HOUSING. 1" ARM. WET LOCATION LISTED. SINGLE HEAD WITH TYPE IV DISTRIBUTION. INTEGRAL MOTION SENSOR FOR DIMMING OPERATION & PHOTOCELL.
AA2	EQUAL TO: LITHONIA	RAD1	MVOLT	3000K	80	7,000	54 W	10% 0-10V DIM	HEAD PER MANUFACTURER 6" ARM	18'-0" ROUND POLE	DARK BRONZE	LED ARM MOUNT LUMINAIRE, DIE-CAST ALUMINUM HOUSING. IP3 PERFORMANCE PACKAGE, ASYMMETRIC TYPE IV DISTRIBUTION, BUTTON PHOTOCELL. SINGLE LED FIXTURE MOUNTED AT 45 DEGREES.
AA3	EQUAL TO: LITHONIA	RAD1	MVOLT	3000K	80	14,000	108 W	10% 0-10V DIM	HEAD PER MANUFACTURER 6" ARM	18'-0" ROUND POLE	DARK BRONZE	LED ARM MOUNT LUMINAIRE, DIE-CAST ALUMINUM HOUSING. IP3 PERFORMANCE PACKAGE, ASYMMETRIC TYPE IV DISTRIBUTION, BUTTON PHOTOCELL. DOUBLE LED FIXTURE MOUNTED AT 90 DEGREES.
AA4	EQUAL TO: LITHONIA	RAD1	MVOLT	3000K	80	14,000	108 W	10% 0-10V DIM	HEAD PER MANUFACTURER 6" ARM	18'-0" ROUND POLE	DARK BRONZE	LED ARM MOUNT LUMINAIRE, DIE-CAST ALUMINUM HOUSING. IP3 PERFORMANCE PACKAGE, ASYMMETRIC TYPE IV DISTRIBUTION, BUTTON PHOTOCELL. DOUBLE LED FIXTURE MOUNTED AT 180 DEGREES



1 SITE PLAN - ELECTRICAL
SCALE: 1" = 20'-0"
NORTH

DEKKER PERICH SABATINI
Architecture in Progress
MAGNUM ELECTRIC
POWER HOUSE
CIVITA A Kimley-Horn Company
SEAL
NOT FOR CONSTRUCTION
PROJECT

UPTOWN CONNECT
6501 INDIAN SCHOOL NE
ALBUQUERQUE NM 87110

DFT SITE DEVELOPMENT PLAN

REVISIONS

DRAWN BY	BS
REVIEWED BY	DP
DATE	11/10/2025
PROJECT NO	20-0010

DRAWING NAME
ELECTRICAL SITE PLAN

SHEET NO
E100

11/10/2025 2:32:52 PM

EXPEDITED AVAILABILITY

QSR-PLED

SPECIFICATIONS

PROJECT NAME: AA1

PROJECT TYPE:

OPTICAL HOUSING
Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance <± .003") to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ELECTRICAL HOUSING w/ INTEGRATED ARM
Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

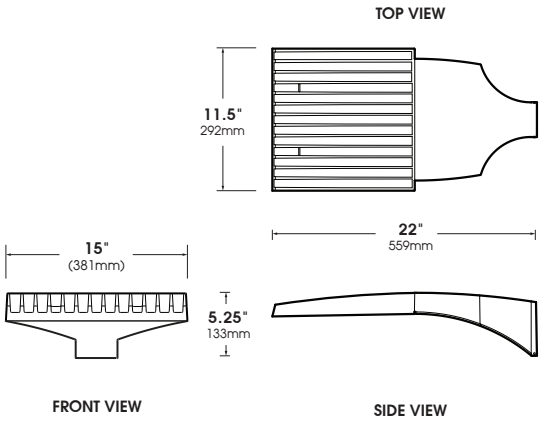
PLED™ OPTICS
Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments. LED's are 3000K or 4000K CCT.

LED DRIVER(S)
Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

FINISH
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

QSR-LED

PATENT PENDING



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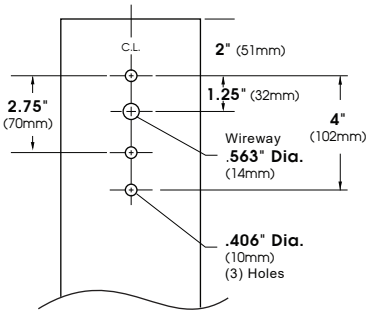
U.S. ARCHITECTURAL LIGHTING

QSR - PLED

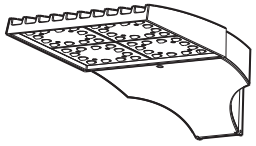
PROMOTION

SPECIFICATIONS

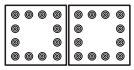
POLE DRILLING TEMPLATE



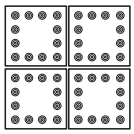
PLED™ MODULES



QSR-LED
E.P.A.= 0.45
Available in:
48 & 24LED Module



24 LED Array



48 LED Array

SPEC / ORDERING INFORMATION

CATALOG #	LED COUNT	VOLTAGE	WATTS	LUMENS	REPLACES HID	OPTIONS
		* = Specify Voltage				
☐ QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	24	☐ 120	68	7548	150W	☐ HOUSE SIDE SHIELD . . . .**HS-PLED**
☐ QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	24	☐ 208	68	7480	150W	
		☐ 240				
☐ QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ	48	☐ 277	79	10349	250W	SURGE PROTECTOR. . . . **SP**
☐ QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ	48		79	10270	250W	(Now included with luminaire for field installation)
☐ QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ	48		160	18240	400W	
☐ QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ	48		160	18040	400W	
		* = Specify Voltage				
☐ QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	24	☐ 347	68	7548	150W	
☐ QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	24	☐ 480	68	7480	150W	
☐ QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ	48		79	10349	250W	
☐ QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ	48		79	10270	250W	
☐ QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ	48		160	18240	400W	
☐ QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ	48		160	18040	400W	

NOTE:
(X) = indicate voltage **(CX)** = **WW (3000K)** or **NW (4000K)**

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U.S. ARCHITECTURAL LIGHTING

EXPEDITED AVAILABILITY

Q S R - P L E D

w/ POLE RATED* FOR 100MPH (*AASHTO 2000)

PROJECT NAME:

FIXTURE TYPE:

S P E C I F I C A T I O N S

FIXTURE

HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance <± .003") to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ARM MOUNTING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. A micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce Type III and Type IV site/area distributions. Panels are field replaceable and field rotatable in 90° increments. LED's are 3000K or 4000K CCT.

LED DRIVERS

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

POLE

SHAFT

4" square, fabricated from high grade structural steel tube. Shaft conforms to ASTM-A-501 - 68 specifications. Meets or exceeds minimum yield strength of 46,000 p.s.i. Wall thickness 11 Ga. (.120 wall). Reinforced hand hole is furnished with cover, shaft is furnished with ground lug located inside pole on wall opposite hand hole.

BASE PLATE

Fabricated from structural quality hot rolled steel. Meets or exceeds minimum yield strength of 36,000 p.s.i. base telescopes and is circumferentially welded to pole shaft. Slotted bolt holes provide 1 " flexibility on either side of bolt circle centerline.

ANCHORAGE

(4) anchor bolts fabricated from hot rolled steel bar, minimum yield strength of 50,000 p.s.i. bolts have "L" bend on one end and are threaded on the other end. Bolts are fully galvanized and are furnished with two nuts and two washers.

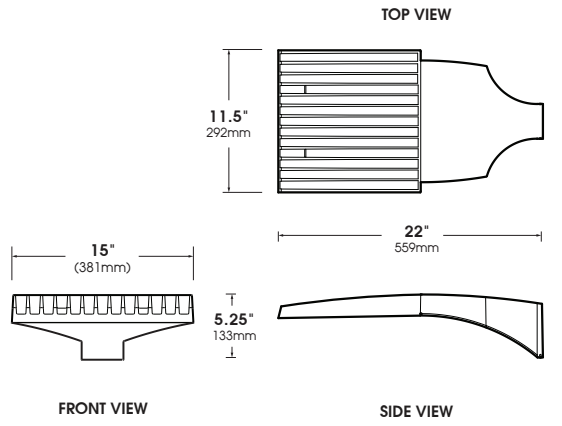
BASE COVER

Fabricated from heavy gauge quality carbon steel. Two piece cover conceals base.

FINISH (Applies to Luminaire and Pole)

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Smooth finish is standard.

PATENT PENDING



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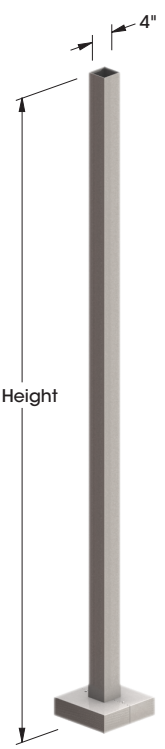
U.S. ARCHITECTURAL LIGHTING

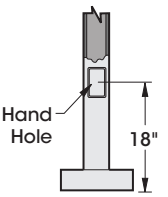
QSR - PLED

100 MPH PROMOTION

SPECIFICATIONS

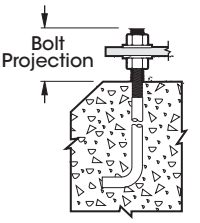
POLE



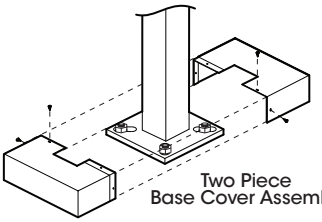


Bolt Circle

8" - 11" Dia.

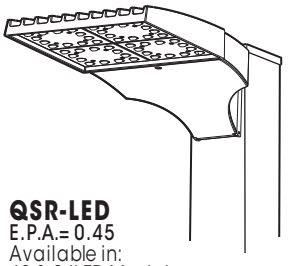


Bolt Projection Above Grade:
Minimum 3¼"
Maximum 3¾"

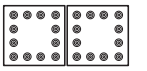


Two Piece
Base Cover Assembly

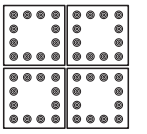
PLED™ MODULES



QSR-LED
E.P.A.= 0.45
Available in:
48 & 24LED Module



24 LED Array



48 LED Array

SPEC / ORDERING INFORMATION

POLE	CATALOG #	VOLTAGE	WATTS	LUMENS	REPLACES HID	LED COUNT	OPTIONS
		* = Specify Voltage					
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 120	68	7548	150W	24	☐ HOUSE SIDE SHIELD . . . . . **HS-PLED**
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	☐ 208	68	7480	150W	24	
		☐ 240					SURGE PROTECTOR . . . . . **SP** (Now included with luminaire for field installation)
20'0"- 4" Sq - 11Ga	☐ SNTS-204-11/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 277	79	10349	250W	48	
20'0"- 4" Sq - 11Ga	☐ SNTS-204-11/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 11Ga	☐ SNTS-254-11/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 11Ga	☐ SNTS-254-11/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	
		* = Specify Voltage					
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 347	68	7548	150W	24	
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	☐ 480	68	7480	150W	24	
20'0"- 4" Sq - 11Ga	☐ SNTS-204-11/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ		79	10349	250W	48	
20'0"- 4" Sq - 11Ga	☐ SNTS-204-11/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 11Ga	☐ SNTS-254-11/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 11Ga	☐ SNTS-254-11/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	

NOTE:
(X) = indicate voltage **(CX)** = **WW** (3000K) or **NW** (4000K)

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U.S. ARCHITECTURAL LIGHTING

EXPEDITED AVAILABILITY

QSR-PLED TWIN ASSEMBLY

w/ POLE RATED* FOR 100MPH (*AASHTO 2000)

SPECIFICATIONS

PROJECT NAME:

FIXTURE TYPE:

FIXTURE

HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance <± .003") to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ARM MOUNTING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. A micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce Type III and Type IV site/area distributions. Panels are field replaceable and field rotatable in 90° increments. LED's are 3000K or 4000K CCT.

LED DRIVERS

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

POLE

SHAFT

4" square, fabricated from high grade structural steel tube. Shaft conforms to ASTM-A-501 - 68 specifications. Meets or exceeds minimum yield strength of 46,000 p.s.i. Wall thickness 11 Ga. (.120 wall). Reinforced hand hole is furnished with cover, shaft is furnished with ground lug located inside pole on wall opposite hand hole.

BASE PLATE

Fabricated from structural quality hot rolled steel. Meets or exceeds minimum yield strength of 36,000 p.s.i. base telescopes and is circumferentially welded to pole shaft. Slotted bolt holes provide 1 " flexibility on either side of bolt circle centerline.

ANCHORAGE

(4) anchor bolts fabricated from hot rolled steel bar, minimum yield strength of 50,000 p.s.i. bolts have "L" bend on one end and are threaded on the other end. Bolts are fully galvanized and are furnished with two nuts and two washers.

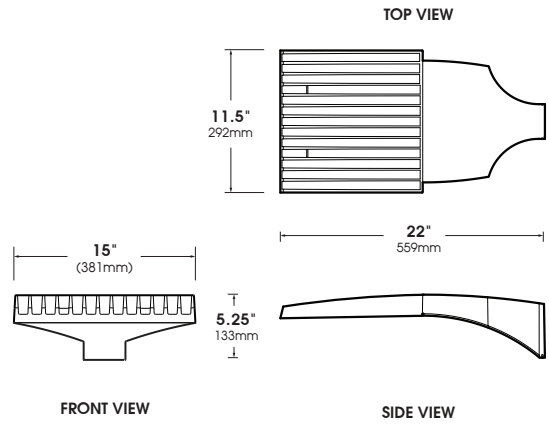
BASE COVER

Fabricated from heavy gauge quality carbon steel. Two piece cover conceals base.

FINISH (Applies to Luminaire and Pole)

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Smooth finish is standard.

PATENT PENDING



c UL us LISTED

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MADE IN THE USA

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U.S. Architectural Lighting

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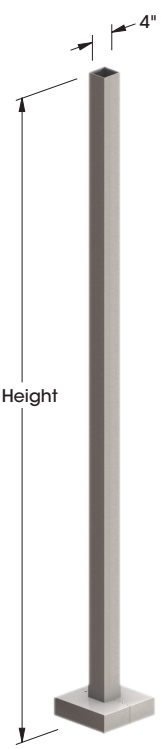
U.S. ARCHITECTURAL LIGHTING

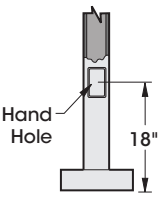
QSR - PLED TWIN ASSEMBLY

100 MPH PROMOTION

SPECIFICATIONS

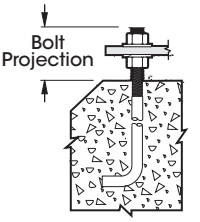
POLE



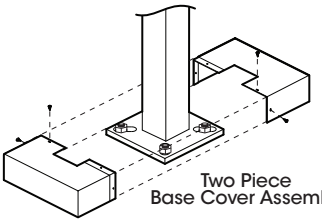


Bolt Circle

8" - 11" Dia.

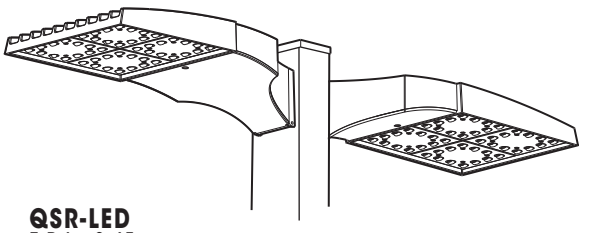


Bolt Projection Above Grade:
Minimum 3¼"
Maximum 3¾"

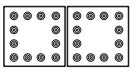


Two Piece
Base Cover Assembly

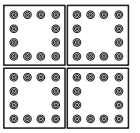
PLED™ MODULES



QSR-LED
E.P.A.= 0.45
Available in:
48 & 24LED Module



24 LED Array



48 LED Array

SPEC / ORDERING INFORMATION

POLE	CATALOG #	VOLTAGE	WATTS	LUMENS	REPLACES HID	LED COUNT	OPTIONS
		* = Specify Voltage		Lumens Per Fixture			
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11-2180/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 120	68	7548	150W	24	☐ HOUSE SIDE SHIELD . . . . . **HS-PLED**
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11-2180/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	☐ 208	68	7480	150W	24	
		☐ 240					SURGE PROTECTOR . . . . . **SP** (Now included with luminaire for field installation)
20'0"- 4" Sq - 11Ga	☐ SNTS-204-11-2180/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 277	79	10349	250W	48	
20'0"- 4" Sq - 11Ga	☐ SNTS-204-11-2180/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 11Ga	☐ SNTS-254-11-2180/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 11Ga	☐ SNTS-254-11-2180/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	
		* = Specify Voltage					
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11-2180/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 347	68	7548	150W	24	
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11-2180/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	☐ 480	68	7480	150W	24	
20'0"- 4" Sq - 11Ga	☐ SNTS-204-11-2180/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ		79	10349	250W	48	
20'0"- 4" Sq - 11Ga	☐ SNTS-204-11-2180/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 11Ga	☐ SNTS-254-11-2180/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 11Ga	☐ SNTS-254-11-2180/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	

NOTE:
(X) = indicate voltage **(CX)** = **WW** (3000K) or **NW** (4000K)

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U.S. ARCHITECTURAL LIGHTING

EXPEDITED AVAILABILITY

Q S R - P L E D

w/ POLE RATED* FOR 140MPH (*AASHTO 2000)

S P E C I F I C A T I O N S

PROJECT NAME:

FIXTURE TYPE:

PATENT PENDING

FIXTURE

HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance <± .003") to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ARM MOUNTING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. A micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce Type III and Type IV site/area distributions. Panels are field replaceable and field rotatable in 90° increments. LED's are 3000K or 4000K CCT.

LED DRIVERS

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

POLE

SHAFT

4" square, fabricated from high grade structural steel tube. Shaft conforms to ASTM-A-501 - 68 specifications. Meets or exceeds minimum yield strength of 46,000 p.s.i. Wall thickness for 15'0" is 11Ga. (.120"). Wall thickness for 20'0" and 25'0" is 7Ga. (.180"). Reinforced hand hole is furnished with cover, shaft is furnished with ground lug located inside pole on wall opposite hand hole.

BASE PLATE

Fabricated from structural quality hot rolled steel. Meets or exceeds minimum yield strength of 36,000 p.s.i. base telescopes and is circumferentially welded to pole shaft. Slotted bolt holes provide 1 " flexibility on either side of bolt circle centerline.

ANCHORAGE

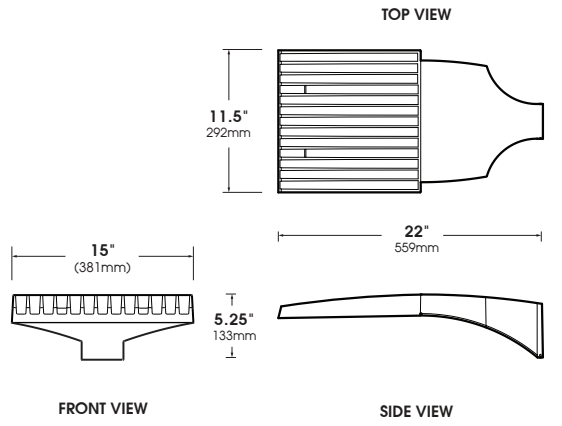
(4) anchor bolts fabricated from hot rolled steel bar, minimum yield strength of 50,000 p.s.i. bolts have "L" bend on one end and are threaded on the other end. Bolts are fully galvanized and are furnished with two nuts and two washers.

BASE COVER

Fabricated from heavy gauge quality carbon steel. Two piece cover conceals base.

FINISH (Applies to Luminaire and Pole)

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Smooth finish is standard.



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MADE IN THE USA

2020174

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www.usaltg.com

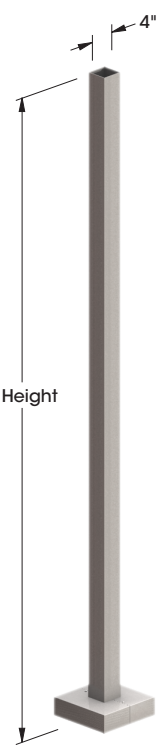
U.S. ARCHITECTURAL LIGHTING

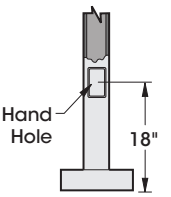
QSR - PLED

140 MPH PROMOTION

SPECIFICATIONS

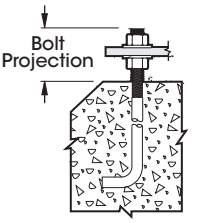
POLE



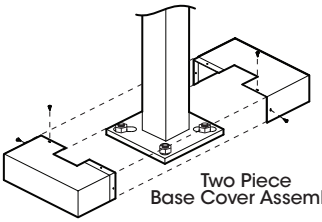


Bolt Circle

8" - 11" Dia.

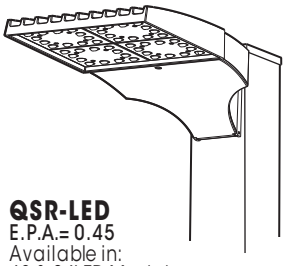


Bolt Projection Above Grade:
Minimum 3¼"
Maximum 3¾"

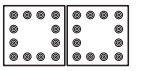


Two Piece
Base Cover Assembly

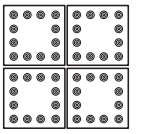
PLED™ MODULES



QSR-LED
E.P.A.= 0.45
Available in:
48 & 24LED Module



24 LED Array



48 LED Array

SPEC / ORDERING INFORMATION

POLE	CATALOG #	VOLTAGE	WATTS	LUMENS	REPLACES HID	LED COUNT	OPTIONS
		* = Specify Voltage					
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 120	68	7548	150W	24	☐ HOUSE SIDE SHIELD . . . . . **HS-PLED**
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	☐ 208	68	7480	150W	24	
		☐ 240					SURGE PROTECTOR . . . . . **SP** (Now included with luminaire for field installation)
20'0"- 4" Sq - 7Ga	☐ SNTS-204-7/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 277	79	10349	250W	48	
20'0"- 4" Sq - 7Ga	☐ SNTS-204-7/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 7Ga	☐ SNTS-254-7/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 7Ga	☐ SNTS-254-7/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	
		* = Specify Voltage					
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 347	68	7548	150W	24	
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	☐ 480	68	7480	150W	24	
20'0"- 4" Sq - 7Ga	☐ SNTS-204-7/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ		79	10349	250W	48	
20'0"- 4" Sq - 7Ga	☐ SNTS-204-7/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 7Ga	☐ SNTS-254-7/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 7Ga	☐ SNTS-254-7/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	

NOTE:
(X) = indicate voltage **(CX)** = **WW** (3000K) or **NW** (4000K)

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EXPEDITED AVAILABILITY

QSR-PLED TWIN ASSEMBLY

w/ POLE RATED* FOR 140MPH (*AASHTO 2000)

PROJECT NAME:

FIXTURE TYPE:

SPECIFICATIONS

FIXTURE

HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance <± .003") to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ARM MOUNTING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™ OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. A micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce Type III and Type IV site/area distributions. Panels are field replaceable and field rotatable in 90° increments. LED's are 3000K or 4000K CCT.

LED DRIVERS

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F. Driver(s) is/are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

POLE

SHAFT

4" square, fabricated from high grade structural steel tube. Shaft conforms to ASTM-A-501 - 68 specifications. Meets or exceeds minimum yield strength of 46,000 p.s.i. Wall thickness for 15'0" is 11Ga. (.120"). Wall thickness for 20'0" and 25'0" is 7Ga. (.180"). Reinforced hand hole is furnished with cover, shaft is furnished with ground lug located inside pole on wall opposite hand hole.

BASE PLATE

Fabricated from structural quality hot rolled steel. Meets or exceeds minimum yield strength of 36,000 p.s.i. base telescopes and is circumferentially welded to pole shaft. Slotted bolt holes provide 1 " flexibility on either side of bolt circle centerline.

ANCHORAGE

(4) anchor bolts fabricated from hot rolled steel bar, minimum yield strength of 50,000 p.s.i. bolts have "L" bend on one end and are threaded on the other end. Bolts are fully galvanized and are furnished with two nuts and two washers.

BASE COVER

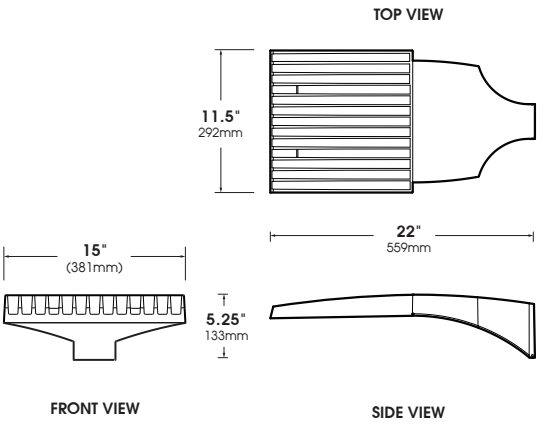
Fabricated from heavy gauge quality carbon steel. Two piece cover conceals base.

FINISH (Applies to Luminaire and Pole)

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step sand blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Smooth finish is standard.

QSR-LED

PATENT PENDING



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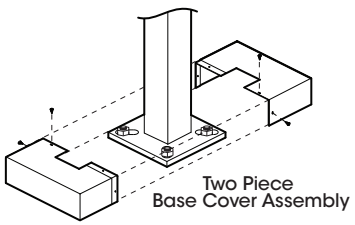
U.S. ARCHITECTURAL LIGHTING

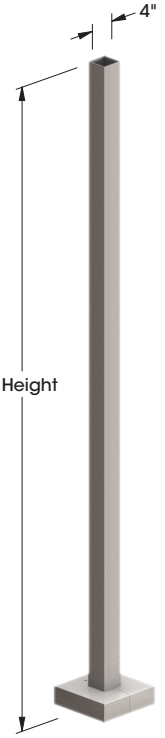
QSR - PLED TWIN ASSEMBLY

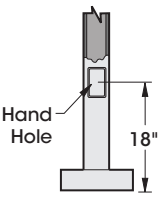
140 MPH PROMOTION

SPECIFICATIONS

POLE

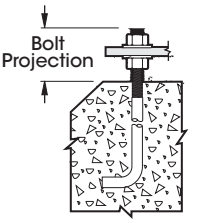






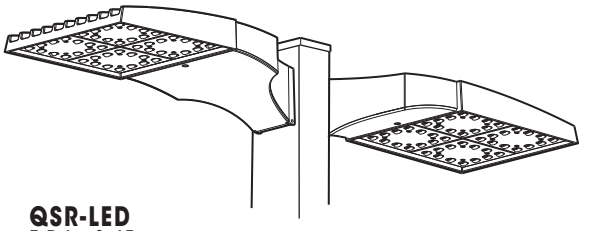
Bolt Circle

8" - 11" Dia.

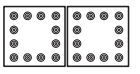


Bolt Projection
Above Grade:
Minimum 3¼"
Maximum 3¾"

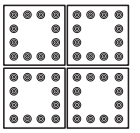
PLED™ MODULES



QSR-LED
E.P.A.= 0.45
Available in:
48 & 24LED Module



24 LED Array



48 LED Array

SPEC / ORDERING INFORMATION

POLE	CATALOG #	VOLTAGE	WATTS	LUMENS	REPLACES HID	LED COUNT	OPTIONS
		* = Specify Voltage		Lumens Per Fixture			
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11-2180/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 120	68	7548	150W	24	☐ HOUSE SIDE SHIELD . . . . . **HS-PLED**
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11-2180/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	☐ 208	68	7480	150W	24	
20'0"- 4" Sq - 7Ga	☐ SNTS-204-7-2180/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 240 ☐ 277	79	10349	250W	48	SURGE PROTECTOR . . . . . **SP** (Now included with luminaire for field installation)
20'0"- 4" Sq - 7Ga	☐ SNTS-204-7-2180/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 7Ga	☐ SNTS-254-7-2180/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 7Ga	☐ SNTS-254-7-2180/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	
		* = Specify Voltage					
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11-2180/QSR/2480/PLED-III/(X)/(CX)/RAL-8019/DBZ	☐ 347	68	7548	150W	24	
15'0"- 4" Sq - 11Ga	☐ SNTS-154-11-2180/QSR/2480/PLED-IV/(X)/(CX)/RAL-8019/DBZ	☐ 480	68	7480	150W	24	
20'0"- 4" Sq - 7Ga	☐ SNTS-204-7-2180/QSR/4850/PLED-III/(X)/(CX)/RAL-8019/DBZ		79	10349	250W	48	
20'0"- 4" Sq - 7Ga	☐ SNTS-204-7-2180/QSR/4850/PLED-IV/(X)/(CX)/RAL-8019/DBZ		79	10270	250W	48	
25'0"- 4" Sq - 7Ga	☐ SNTS-254-7-2180/QSR/4810/PLED-III/(X)/(CX)/RAL-8019/DBZ		160	18240	400W	48	
25'0"- 4" Sq - 7Ga	☐ SNTS-254-7-2180/QSR/4810/PLED-IV/(X)/(CX)/RAL-8019/DBZ		160	18040	400W	48	

660 West Avenue O, Palmdale, CA 93551
Phone (661) 233-2000 Fax (661) 233-2001
www.usaltg.com

U.S. ARCHITECTURAL LIGHTING

Wet BionicPro3 | Linear

LL4

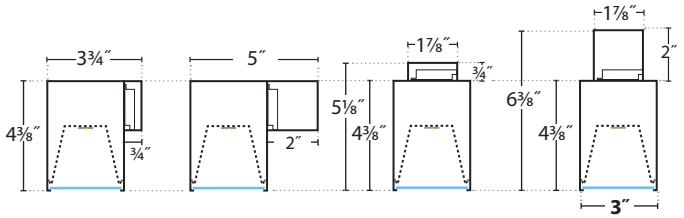
PRUDENTIAL LTG.

PRULITE.COM 213.746.0360

SEAMLESS

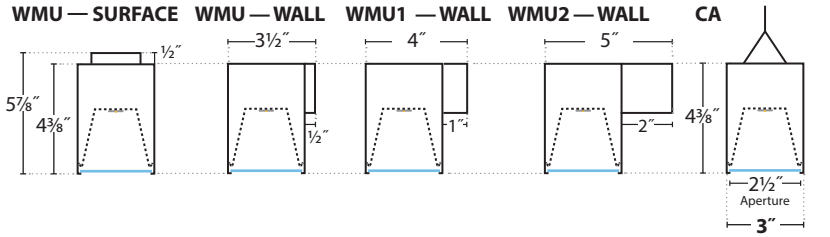
CHANNELS:

WMC — WALL | WMC2 — WALL | WMC — SURFACE | WMC2 — SURFACE



BRACKETS:

WMU — SURFACE | WMU — WALL | WMU1 — WALL | WMU2 — WALL | CA



BionicPro delivers again. You're welcome!

Continuous lines of clean, seamless light with an IP65 & 66 wet listed rating. No door frames or broken lines of light. Gasketed lens for fully protected fixture (not just LED array). Indoor aesthetics taken outdoors for a consistent look.

Batwing, Wall Wash, Graze, Room Fill Distributions with just a lens change. Wash walkways with light from the perimeter, wash or graze a building facade, with seamless lines of light.

Lumen output may vary +/– 5%

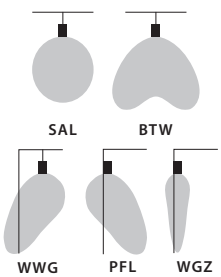
Light Loss Factor (LLF) for CCTs other than 3500K:
4000K +2%, 3000K -5%, 2700K -20% 90 CRI -15%
(3K, 3500K, 4K & 5K)

LUMEN CHART:

		LO	MO	SO	HO
SAL	Lm/Ft	475	700	975	1225
BTW	Lm/Ft	475	700	975	1225
WWG	Lm/Ft	475	700	975	1225
PFL	Lm/Ft	475	700	975	1225
WGZ	Lm/Ft	475	700	975	1225
	W	3.8	5.6	7.8	10.5

SMART SPECS

IK08 IMPACT PROTECTION | IP65 DUST +WATER PROOF (ROWS) | IP66 DUST +WATER PROOF (INDIVIDUALS) | BABAA BUILD AMERICA BUY AMERICA ACT | Declare. | 5 YEAR LED WARRANTY | Made in the USA

SERIES	LENS POS.	LED COLOR	OUT-PUT	LENGTH	FINISH COLOR	DISTRI-BUTION	CIRCU-ITING	VOLT-AGE	MOUNTING	CEILING TYPE	DRIVERS & CONTROLS	OPTIONS
WETBPRO3-LIN	FLSH						SC					
BionicPro 3″ Linear • **IP66** Wet Listed for Individual fixtures • **IP65** Wet Listed for Rows	FLSH Flush Lens	LED27 2700K (90CRI) LED3 3000K LED35 3500K LED4 4000K LED3-90 3000K (90CRI) LED35-90 3500K (90CRI) LED4-90 4000K (90CRI) LED5-90 5000K (90CRI) **PRUHUES:** BLU3S Static BLU3D* Dynamic BLU35S BLU35D* BLU4S BLU4D* * Dynamic BIOS, SkyBlue spike can be dimmed, CCT warms slightly TU TuHue 2700-6500K Tunable White TU2 TuHue 2200-5000K Tunable White AMB AmberHue Warm Dim 2200K-5000K CHR ChromaHue RGBW (DMX at HO only)	LO Low MO Medium SO Standard HO High PROG Programmable Light Output (Specify desired lm/ft or w/ft)	2′ 3′ 4′ 5′ 6′ 7′ 8′ R___ (Row Length, 1′ increments) SRL Symmetric Row Length **NOTE:** Individual fixtures are NOT intended for row mounting • **IP66** Wet Listed for Individual fixtures • **IP65** Wet Listed for Rows	WetTMW Wet Textured White Semi-gloss WetYBB Wet Black Semi-gloss WetYPE Wet Pewter Matte WetYBR Wet Bronze Semi-gloss	SAL Satin Lens BTW Batwing PFL Perimeter Room Fill WWG Focal Glow Wall Wash WGZ Wide Wall Graze 	SC Single Circuit	UNV (120-277) 347 (Emergency battery requires remote driver box)	**SPECIFY CEILING TYPE IN NEXT COLUMN ➡)** CA96″ Aircraft Cable (NOT for outside installs where wind can swing fixtures) RSC Rigid Stem Center SSC Swivel Stem Center (~30° of rotation) **(SPECIFY MOUNTING LOCATION IN NEXT COLUMN ➡)** WMC (Channel) .75″Tall Continuous Channel WMC2 (Channel) 2″Tall Continuous Channel WMU (Bracket) .5″Tall Bracket WMU1 (Bracket) 1″Tall Bracket WMU2 (Bracket) 2″Tall Bracket	**CEILING TYPE:** X3 Hard Ceiling **MOUNTING LOCATION:** WALL (For Wall or Mullion Mount) SUR Ceiling	ND Non-Dimming DM01 0-10v, 1% Dimming (Standard) LDE1 Hi-lume 1% EcoSystem LED (Soft fade on, fade-to-black dimming) ECO 1% 0-10v, EldoLED (Logarithmic dimming std) ECDA 1% DALI, EldoLED (Logarithmic dimming std) nLight-Air Acuity nLight Drivers nLight-Wired Acuity nLight Drivers SOLO 0.1% 0-10v, EldoLED (Dim-to-dark, Logarithmic dimming std) SODA 0.1% DALI, EldoLED (Dim-to-dark, Logarithmic dimming std) STEP Signify Advance Step Dimming 2WIRE ELV/Forward/Reverse Phase Driver **PRUHUES:** E10V 2 Channel Color Control EDALI 2 Channel Color Control EDMX ChromaHue or Static White	EMC Emergency Circuiting EF Power End Feed (NA: CA Aircraft Cable) COS Custom On-Center Spacing for Wall/Surface Brackets (See pages 7+8)

Wet BionicPro3 | Linear

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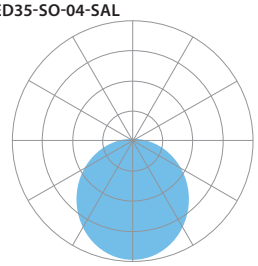
FLSH:

SATIN LENS

STANDARD OUTPUT:
WETBIOPRO3-LIN-FLSH-LED35-SO-04-SAL

3859 Delivered Lumens
32 Watts
122 lm/w
3500 CCT



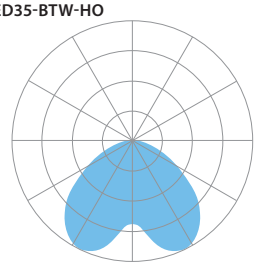
Zonal Lumen Summary:
0-90 = 100%

Vertical Angle	0°	25°	45°	65°	90°
0°	1619	1619	1619	1619	1619
5°	1614	1607	1600	1607	1610
15°	1538	1523	1502	1495	1493
25°	1393	1367	1326	1302	1294
35°	1192	1160	1103	1070	1059
45°	960	922	869	838	827
55°	715	685	644	618	609
65°	478	445	420	402	397
75°	247	224	212	205	203
85°	53	50	51	49	48
90°	0	0	0	0	0

BATWING

HIGH OUTPUT:
WETBIOPRO3-LIN-FLSH-LED35-BTW-HO

4931 Delivered Lumens
42 Watts
117 lm/w
3500 CCT



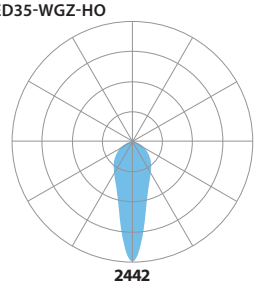
Zonal Lumen Summary:
0-90 = 100%

Vertical Angle	0°	22.5°	45°	67.5°	90°
0°	1327	1327	1327	1327	1327
5°	1323	1332	1360	1377	1399
15°	1212	1320	1535	1690	1759
25°	1030	1264	1651	1847	1894
35°	837	1152	1605	1767	1781
45°	674	982	1417	1500	1459
55°	536	771	729	673	615
65°	391	536	420	402	397
75°	222	293	368	330	298
85°	60	79	83	77	58
90°	0	0	0	0	0

WIDE WALL GRAZE

HIGH OUTPUT:
WETBIOPRO3-LIN-FLSH-LED35-WGZ-HO

4983 Delivered Lumens
42 Watts
119 lm/w
3500 CCT



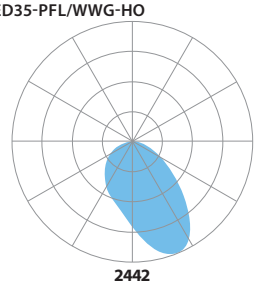
Zonal Lumen Summary:
0-90 = 100%

Vertical Angle	0°	25°	45°	65°	90°
0°	1907	1907	1907	1907	1907
5°	2107	2099	2035	1962	1811
15°	2429	2385	2221	1998	1723
25°	2442	2408	2254	1915	1553
35°	1192	1160	1103	1070	1059
45°	1339	1409	1595	1381	1051
55°	832	887	1082	989	767
65°	479	506	639	609	495
75°	221	233	297	297	257
85°	38	40	61	49	51
90°	0	0	0	0	0

ROOM FILL / FOCAL GLOW WALL WASH

HIGH OUTPUT:
WETBIOPRO3-LIN-FLSH-LED35-PFL/WWG-HO

4983 Delivered Lumens
42 Watts
119 lm/w
3500 CCT



Zonal Lumen Summary:
0-90 = 100%

Vertical Angle	0°	25°	45°	65°	90°
0°	1907	1907	1907	1907	1907
5°	2107	2099	2035	1962	1811
15°	2429	2385	2221	1998	1723
25°	2442	2408	2254	1915	1553
35°	1192	1160	1103	1070	1059
45°	1339	1409	1595	1381	1051
55°	832	887	1082	989	767
65°	479	506	639	609	495
75°	221	233	297	297	257
85°	38	40	61	49	51
90°	0	0	0	0	0

LUMEN MAINTENANCE

L70 — 200,000+ Hours
L90 — 100,000+ Hours
(LO, MO & SO)
L90 — 60,000+ Hours (HO)

LED SYSTEM LED modules and drivers are field replaceable.

PROG (OPTIONAL) Programmable light output. Specify desired lumens or watts per linear foot.

LABELS CSA and ETL wet labeled (downlight only), IP65 for continuous rows, IP66 for individual fixtures (up to 8´), and I.B.E.W. manufactured. Impact rating of IK08.

ELECTRICAL Must specify LED dimming controls. LED fixtures have constant current driver(s) with less than 20% THD when loaded to a minimum of 60%. Drivers sink a maximum of 6mA per driver. DM01 LED drivers are 0-10V dimmable and are compatible with most 0-10V wall slide dimmers and direct 0-10V analog signal dimmers. Max driver size 1.65˝ w x 1.25˝ h.

CONSTRUCTION

Housing — Extruded aluminum housing and side wall >25% PC recycled, 100% recyclable.

Lens — Seamless lens up to 200´. Consult factory for longer lengths. Polymer, 100% recyclable.

Weight — 3.5 lbs/ft

MOUNTING Surface standoff mounted to walls or ceilings (downlight only) via channel or mullion, suspended by cable.

WARRANTY Single-source, 5 year limited warranty covers standard components and construction.

FINISH COLORS

WetTMW – White (Semi Gloss)
WetYBB – Black (Semi Gloss)
WetYPE – Pewter (Matte)
WetYBR – Bronze (Semi Gloss)

For paint chip samples, please email: **info@prulite.com**

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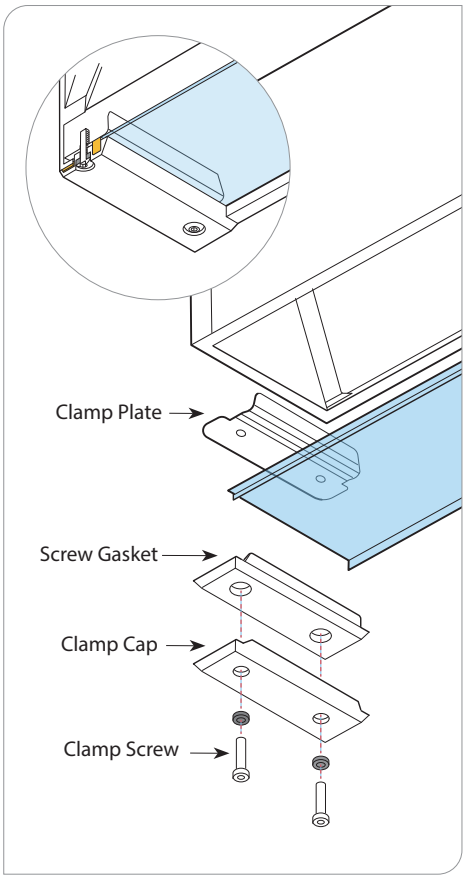
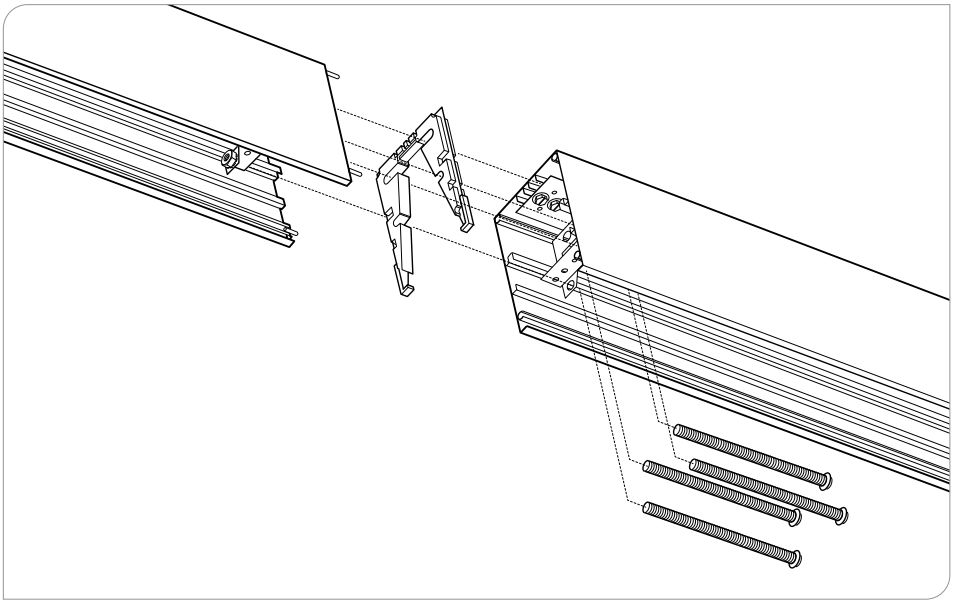
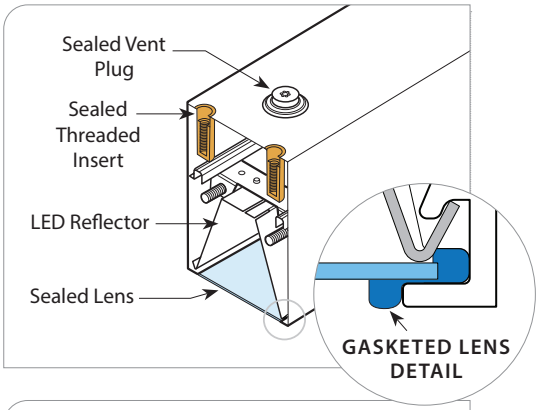
RUGGED DURABILITY

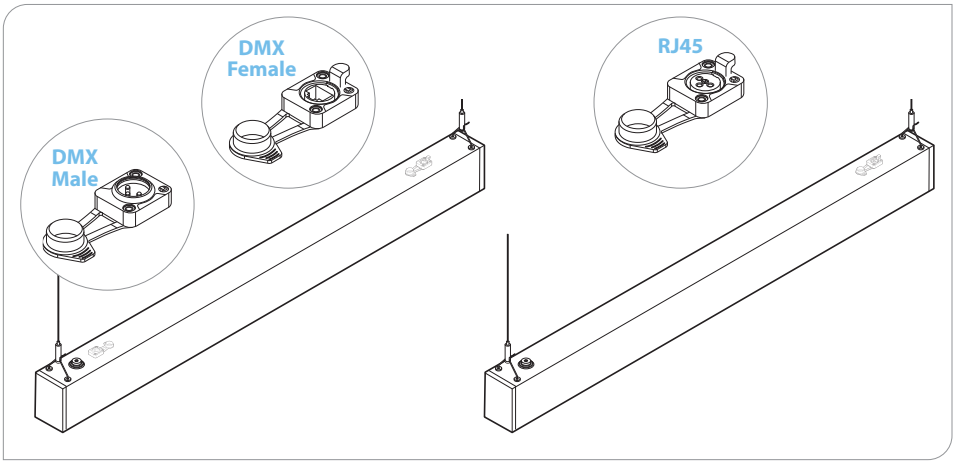


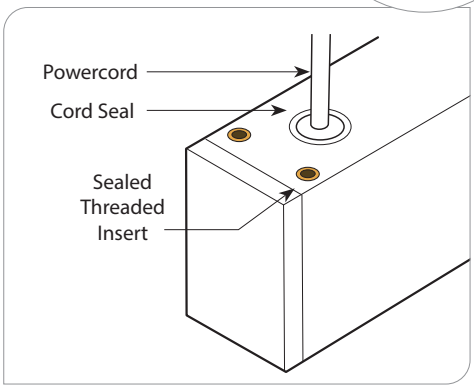
ADJOINING DETAIL





DMX / CAT5 CONNECTORS





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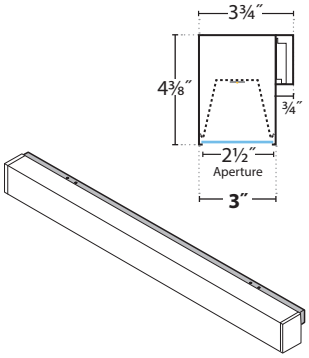
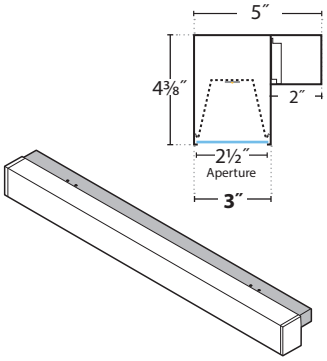
Why Channels?

Channels provide maximum flexibility in mounting points on the ceiling/wall (drilled in the field into structure).
2 mounting points per channel required, all channels are the length of the fixture. .75″ Channel accommodates Wet SOOW cord (8 foot, 6 conductor cord), 2″ Channel accommodates liquitite Flex with sealed connectors (6′ long 6′ conductor cord).

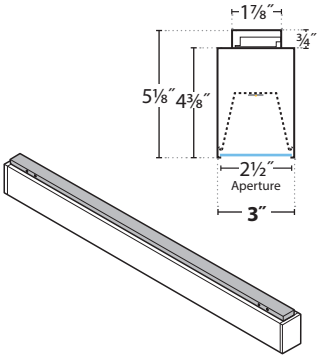
WMC — WALL



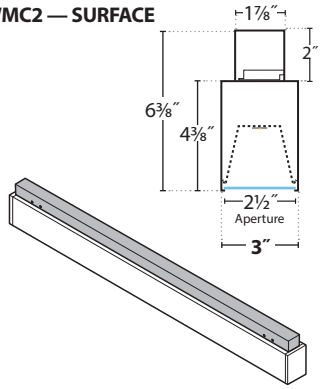
WMC2 — WALL



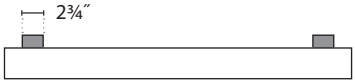
WMC — SURFACE



WMC2 — SURFACE



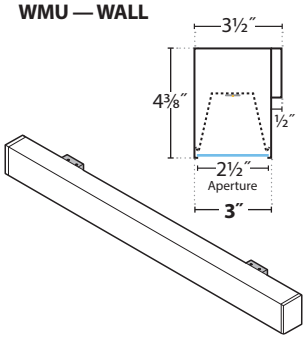
Why Brackets?



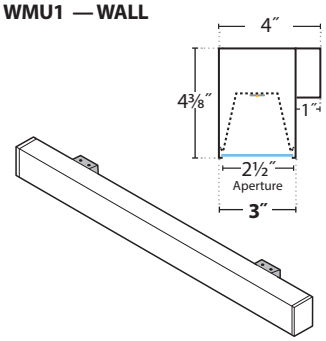
Clean look. Two options.

1. Installed at our standard dimensions (see page 8).
2. COS (Custom on-center spacing) —
   Provide dimensions and our factory will install bracket cleats at provided dimensions.

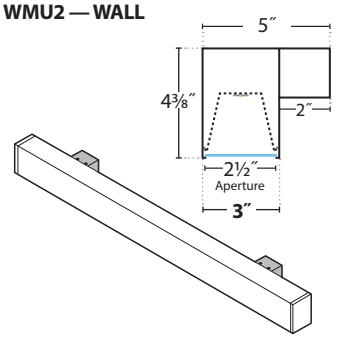
WMU — WALL



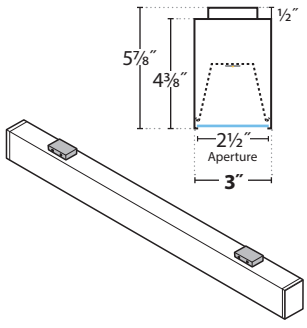
WMU1 — WALL



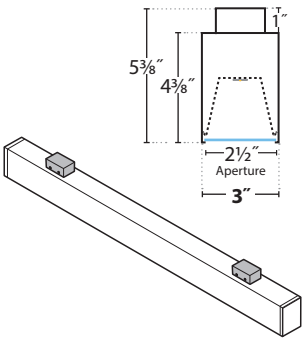
WMU2 — WALL



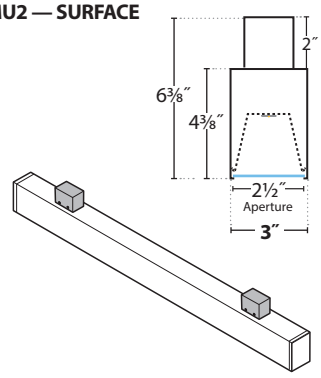
WMU — SURFACE



WMU1 — SURFACE

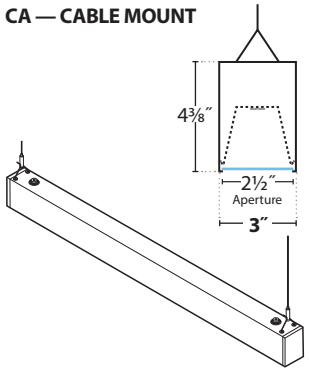


WMU2 — SURFACE



See page 9 for mounting dimensions.

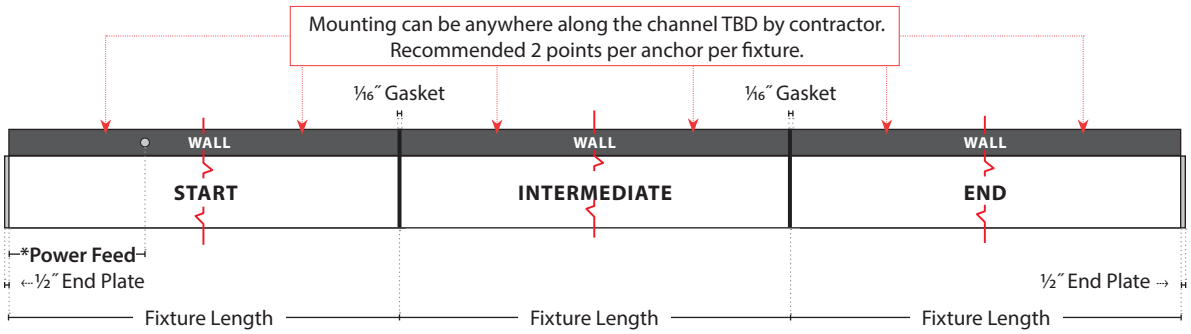
CA — CABLE MOUNT



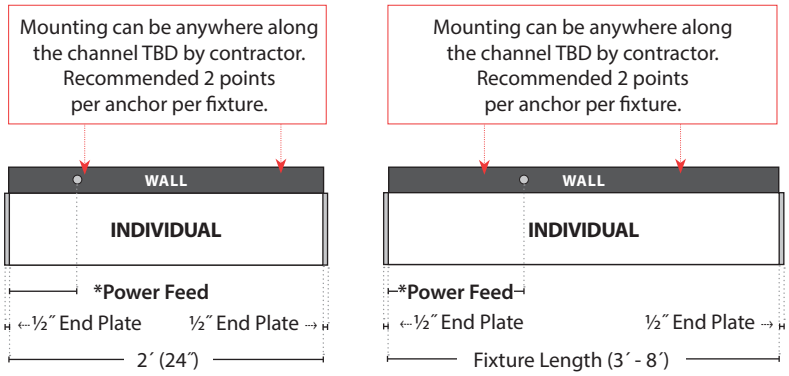
WMC/WMC2 (CHANNELS): WALL — MOUNTING

NOTE: 2′ ROW FIXTURES NOT AVAILABLE

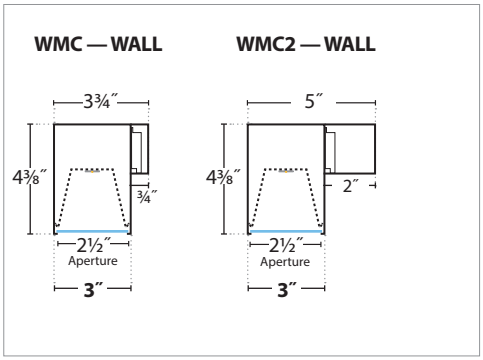
POWER FEED



INDIVIDUAL (2′):



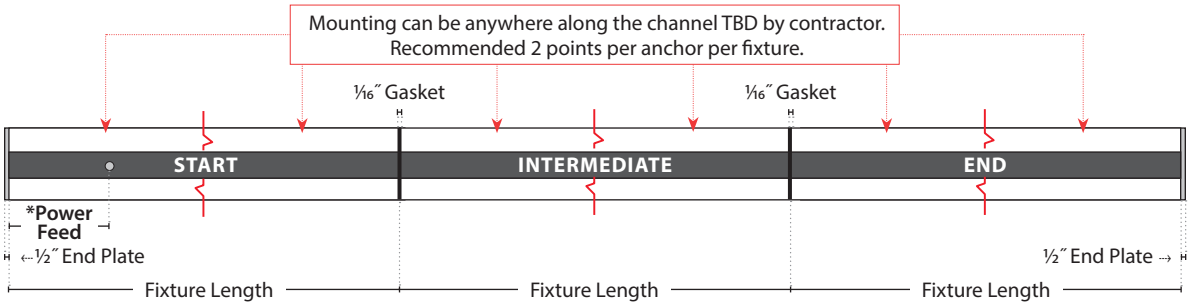
	FIXTURE LENGTHS	
	*Power Feed	All
2′	4″	24″
3′	10″	36″
4′	10″	48″
5′	10″	60″
6′	36″	72″
7′	42″	84″
8′	48″	96″



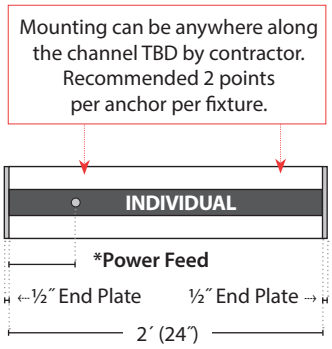
WMC/WMC2 (CHANNELS): SURFACE — MOUNTING

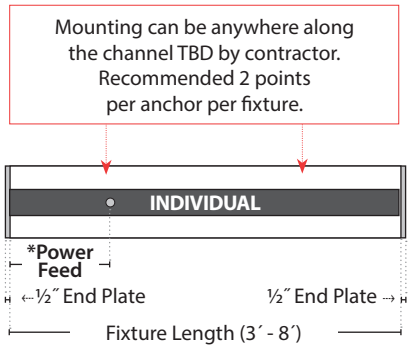
NOTE: 2′ ROW FIXTURES NOT AVAILABLE

POWER FEED



INDIVIDUAL (2′):





	FIXTURE LENGTHS	
	*Power Feed	All
2′	4″	24″
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4′	6″	48″
5′	6″	60″
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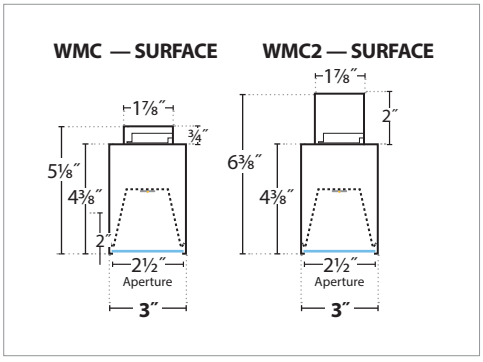
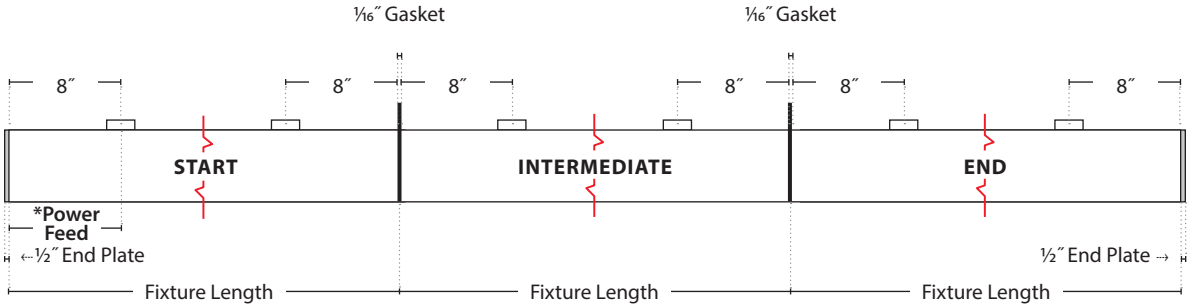
7′	42″	84″
8′	48″	96″

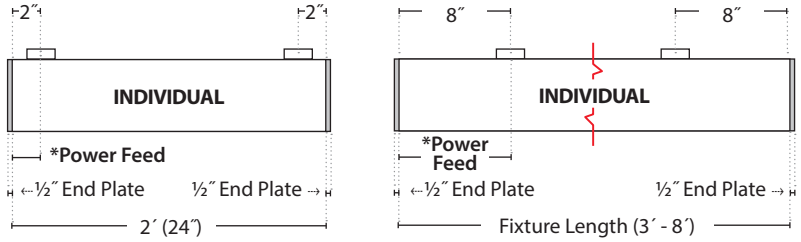


WMU/WMU1/WMU2 (BRACKETS): WALL — MOUNTING

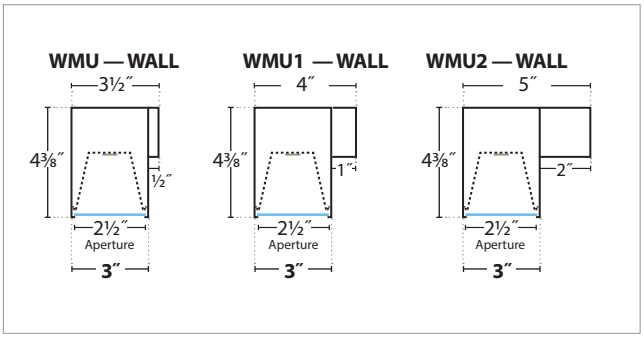
NOTE: 2′ ROW FIXTURES NOT AVAILABLE



INDIVIDUAL (2′):



	FIXTURE LENGTHS	MOUNTING LOCATIONS		
	*Power Feed	All	Start / Intermediate / End	Individual	COS (Custom On-Center Spacing)
2′	2″	24″	—	20″	Customer to provide on-center mounting dimensions, PRU will pre-drill and mount Brackets
3′	8″	36″	20″	20″	
4′	8″	48″	32″	32″	
5′	8″	60″	44″	44″	
6′	8″	72″	56″	56″	
7′	8″	84″	68″	68″	
8′	8″	96″	80″	80″	



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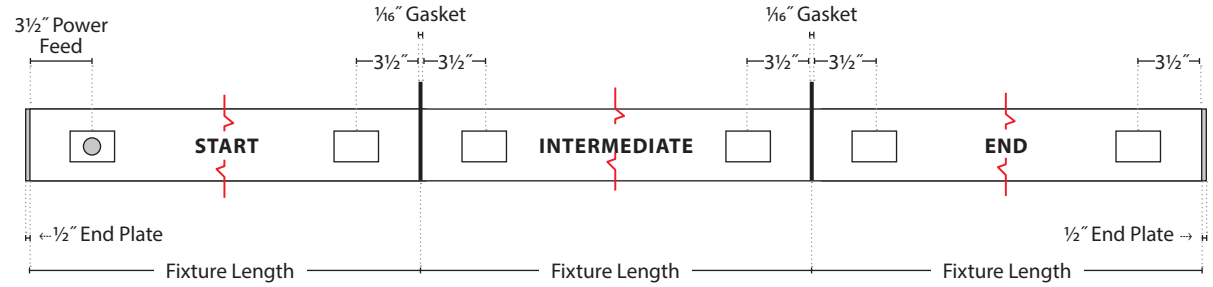
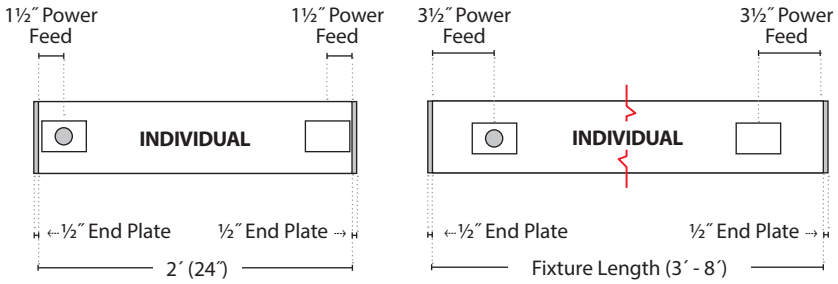
WMU/WMU1/WMU2 (BRACKETS): SURFACE — MOUNTING

NOTE: 2′ ROW FIXTURES NOT AVAILABLE

POWER FEED

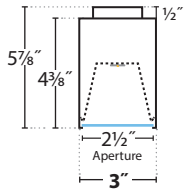


INDIVIDUAL (2′):

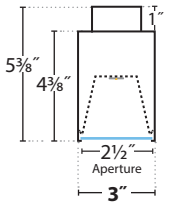


FIXTURE LENGTHS	MOUNTING LOCATIONS			
	All	Start / Intermediate / End	Individual	COS (Custom On-Center Spacing)
2′	24″	—	21″	Customer to provide on-center mounting dimensions, PRU will pre-drill and mount Brackets
3′	36″	29″	29″	
4′	48″	41″	41″	
5′	60″	53″	53″	
6′	72″	65″	65″	
7′	84″	77″	77″	
8′	96″	89″	89″	

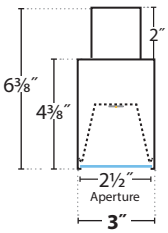
WMU — SURFACE



WMU1 — SURFACE



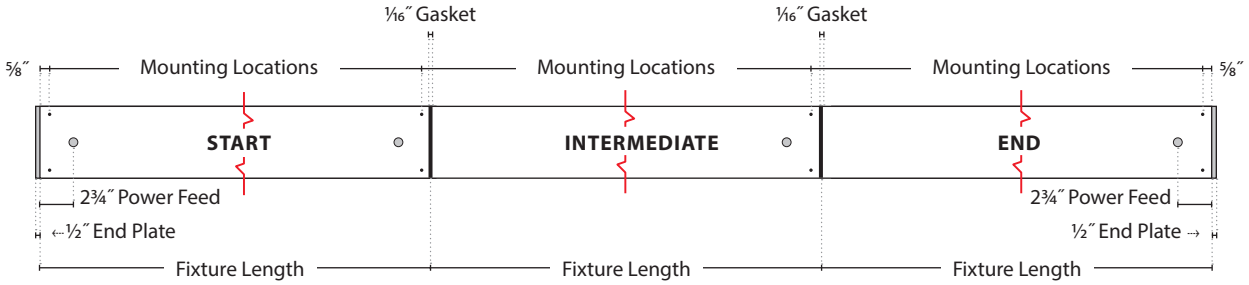
WMU2 — SURFACE



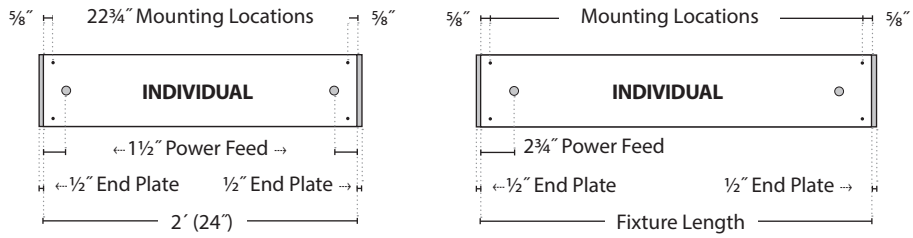
CABLE (CA) — MOUNTING

NOTE: 2′ ROW FIXTURES NOT AVAILABLE

POWER FEED

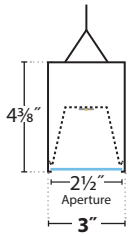


INDIVIDUAL (2′)



	FIXTURE LENGTHS	MOUNTING LOCATIONS		
	All	Start	Intermediate / End	Individual
2′	24″	—	—	22¾″
3′	36″	34¾″	36 1/16″	34¾″
4′	48″	46¾″	48 1/16″	46¾″
5′	60″	58¾″	60 1/16″	58¾″
6′	72″	70¾″	72 1/16″	70¾″
7′	84″	82¾″	84 1/16″	82¾″
8′	96″	94¾″	96 1/16″	94¾″

CA — CABLE MOUNT



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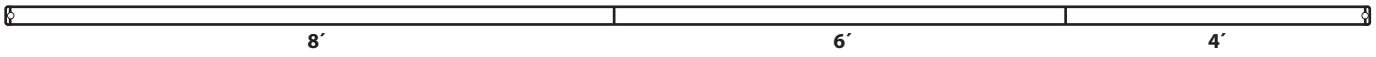
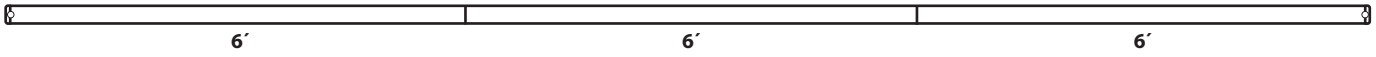
ROW BUILDER

18´ STANDARD ROW LENGTH:



18´ SYMMETRIC ROW LENGTH (SRL):



STANDARD

ROW LENGTH		
9´	5+4	5FT STR + 4FT END
10´	6+4	6FT STR + 4FT END
11´	7+4	7FT STR + 4FT END
12´	8+4	8FT STR + 4FT END
13´	8+5	8FT STR + 5FT END
14´	8+6	8FT STR + 6FT END
15´	8+7	8FT STR + 7FT END
16´	8+8	8FT STR + 8FT END
17´	8+5+4	8FT STR + 5FT INT + 4FT END
18´	8+6+4	8FT STR + 6FT INT + 4FT END
19´	8+7+4	8FT STR + 7FT INT + 4FT END
20´	8+8+4	8FT STR + 8FT INT + 4FT END
21´	8+8+5	8FT STR + 8FT INT + 5FT END
22´	8+8+6	8FT STR + 8FT INT + 6FT END
23´	8+8+7	8FT STR + 8FT INT + 7FT END
24´	8+8+8	8FT STR + 8FT INT + 8FT END
25´	8+8+5+4	8FT STR + 8FT INT + 5FT INT + 4FT END
26´	8+8+6+4	8FT STR + 8FT INT + 6FT INT + 4FT END
27´	8+8+7+4	8FT STR + 8FT INT + 7FT INT + 4FT END
28´	8+8+8+4	8FT STR + (2) 8FT INT + 4FT END
29´	8+8+8+5	8FT STR + (2) 8FT INT + 5FT END
30´	8+8+8+6	8FT STR + (2) 8FT INT + 6FT END
31´	8+8+8+7	8FT STR + (2) 8FT INT + 7FT END
32´	8+8+8+8	8FT STR + (2) 8FT INT + 8FT END
33´	8+8+8+5+4	8FT STR + (2) 8FT INT + 5FT INT + 4FT END
34´	8+8+8+6+4	8FT STR + (2) 8FT INT + 6FT INT + 4FT END
35´	8+8+8+7+4	8FT STR + (2) 8FT INT + 7FT INT + 4FT END
36´	8+8+8+8+4	8FT STR + (3) 8FT INT + 4FT END
37´	8+8+8+8+5	8FT STR + (3) 8FT INT + 5FT END
38´	8+8+8+8+6	8FT STR + (3) 8FT INT + 6FT END
39´	8+8+8+8+7	8FT STR + (3) 8FT INT + 7FT END
40´	8+8+8+8+8	8FT STR + (3) 8FT INT + 8FT END
41´	8+8+8+8+5+4	8FT STR + (3) 8FT INT + 5FT INT + 4FT END
42´	8+8+8+8+6+4	8FT STR + (3) 8FT INT + 6FT INT + 4FT END
43´	8+8+8+8+7+4	8FT STR + (3) 8FT INT + 7FT INT + 4FT END
44´	8+8+8+8+8+4	8FT STR + (4) 8FT INT + 4FT END
45´	8+8+8+8+8+5	8FT STR + (4) 8FT INT + 5FT END
46´	8+8+8+8+8+6	8FT STR + (4) 8FT INT + 6FT END
47´	8+8+8+8+8+7	8FT STR + (4) 8FT INT + 7FT END
48	8+8+8+8+8+8	8FT STR + (4) 8FT INT + 8FT END
49´	8+8+8+8+8+5+4	8FT STR + (4) 8FT INT + 5FT INT + 4FT END
50´	8+8+8+8+8+6+4	8FT STR + (4) 8FT INT + 6FT INT + 4FT END

SYMMETRICAL

ROW LENGTH		
9´	3+3+3	3FT STR + 3FT INT + 3FT END
10´	5+5	5FT STR + 5FT END
11´	4+3+4	4FT STR + 3FT INT + 4FT END
12´	6+6	6FT STR + 6FT END
13´	4+5+4	4FT STR + 5FT INT + 4FT END
14´	7+7	7FT STR + 7FT END
15´	5+5+5	5FT STR + 5FT INT + 5FT END
16´	8+8	8FT STR + 8FT END
17´	6+5+6	6FT STR + 5FT INT + 6FT END
18´	6+6+6	6FT STR + 6FT INT + 6FT END
19´	6+7+6	6FT STR + 7FT INT + 6FT END
20´	8+4+8	8FT STR + 4FT INT + 8FT END
21´	8+5+8	8FT STR + 5FT INT + 8FT END
22´	8+6+8	8FT STR + 6FT INT + 8FT END
23´	8+7+8	8FT STR + 7FT INT + 8FT END
24´	8+8+8	8FT STR + 8FT INT + 8FT END
25´	6+4+5+4+6	6FT STR + 4FT INT + 5FT INT + 4FT INT + 6FT END
26´	8+5+5+8	8FT STR + (2) 5FT INT + 8FT END
27´	6+5+5+5+6	6FT STR + (3) 5FT INT + 6FT END
28´	8+6+6+8	8FT STR + (2) 6FT INT + 8FT END
29´	8+4+5+4+8	8FT STR + 4FT INT + 5FT INT + 4FT INT + 8FT END
30´	8+7+7+8	8FT STR + (2) 7FT INT + 8FT END
31´	8+5+5+5+8	8FT STR + (3) 5FT INT + 8FT END
32´	8+8+8+8	8FT STR + (2) 8FT INT + 8FT END
33´	8+6+5+6+8	8FT STR + 6FT INT + 5FT INT + 6FT INT + 8FT END
34´	8+6+6+6+8	8FT STR + 6FT INT + 6FT INT + 6FT INT + 8FT END
35´	8+6+7+6+8	8FT STR + 6FT INT + 7FT INT + 6FT INT + 8FT END
36´	8+8+4+8+8	8FT STR + 8FT INT + 4FT INT + 8FT INT + 8FT END
37´	8+8+5+8+8	8FT STR + 8FT INT + 5FT INT + 8FT INT + 8FT END
38´	8+8+6+8+8	8FT STR + 8FT INT + 6FT INT + 8FT INT + 8FT END
39´	8+8+7+8+8	8FT STR + 8FT INT + 7FT INT + 8FT INT + 8FT END
40´	8+8+8+8+8	8FT STR + (3) 8FT INT + 8FT END
41´	8+6+4+5+4+6+8	8FT STR + 6FT INT + 4FT INT + 5FT INT + 4FT INT + 6FT INT + 8FT END
42´	8+8+5+5+8+8	8FT STR + 8FT INT + (2) 5FT INT + 8FT INT + 8FT END
43´	8+6+5+5+5+6+8	8FT STR + 6FT INT + (3) 5FT INT + 6FT INT + 8FT END
44´	8+8+6+6+8+8	8FT STR + 8FT INT + (2) 6FT INT + 8FT INT + 8FT END
45´	8+8+4+5+4+8+8	8FT STR + 8FT INT + 4FT INT + 5FT INT + 4FT INT + 8FT INT + 8FT END
46´	8+8+7+7+8+8	8FT STR + 8FT INT + (2) 7FT INT + 8FT INT + 8FT END
47´	8+8+5+5+5+8+8	8FT STR + 8FT INT + (3) 5FT INT + 8FT INT + 8FT END
48	8+8+8+8+8+8	8FT STR + (4) 8FT INT + 8FT END
49´	8+8+6+5+6+8+8	8FT STR + 8FT INT + 6FT INT + 5FT INT + 6FT INT + 8FT INT + 8FT END
50´	8+8+6+6+6+8+8	8FT STR + 8FT INT + (3) 6FT INT + 8FT INT + 8FT END

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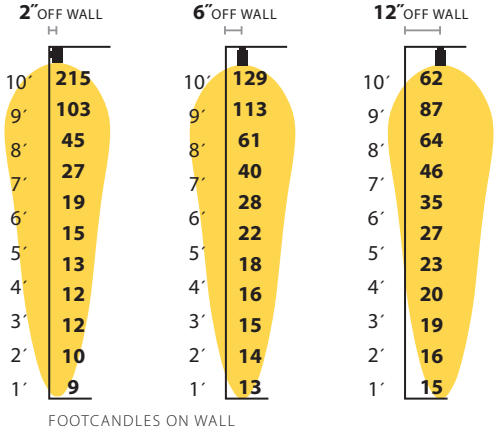
DISTRIBUTIONS

ALL FIXTURES AT SO OUTPUT, 10´ MOUNTING HEIGHT

Wide Wall Graze (WWG)

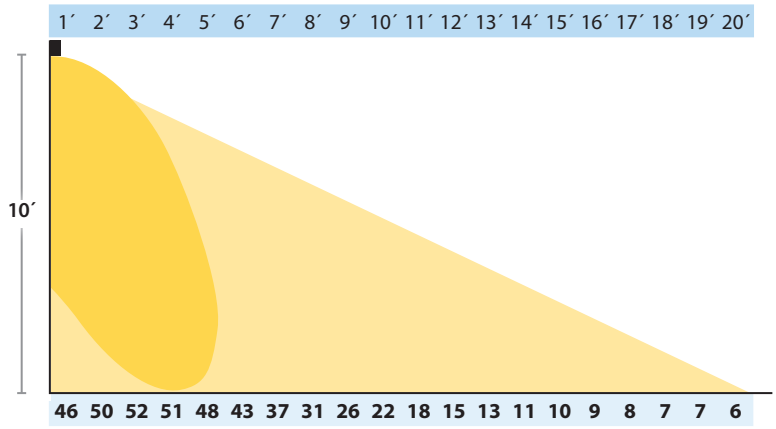
Wall grazing performance often better just off a wall.



FOOTCANDLES ON WALL

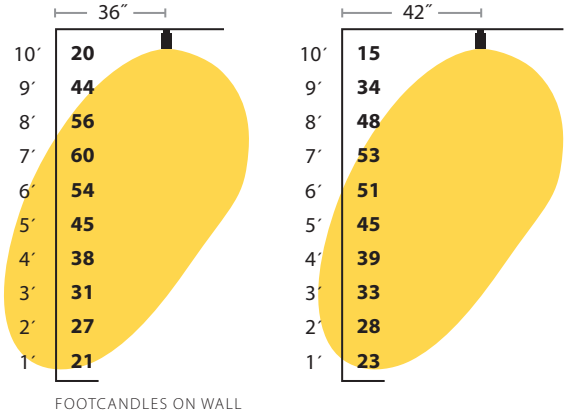
Perimeter Fill (PFL)

Wash a space in light from one side of the perimeter.



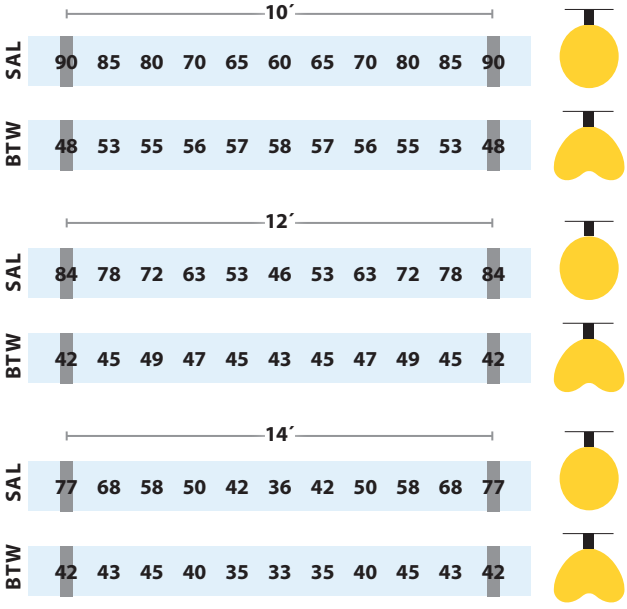
Focal Glow Wall Wash (WWG)

Pique interest by giving works of art 'pop' — more light at eye level.



FOOTCANDLES ON WALL

Satin (SAL) Vs. Batwing (BTW)



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Lumen Outputs:

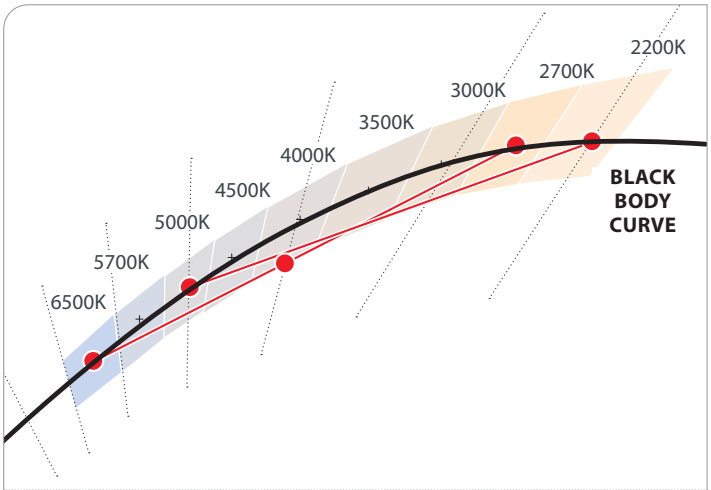
DIRECT:		BLUHUE, TUHUE, TUHUE2, AMBERHUE			
		LO	MO	SO	HO*
SAL	Lm/Ft	200	375	500	715
	W/Ft	3.8	5.6	7.8	10.5

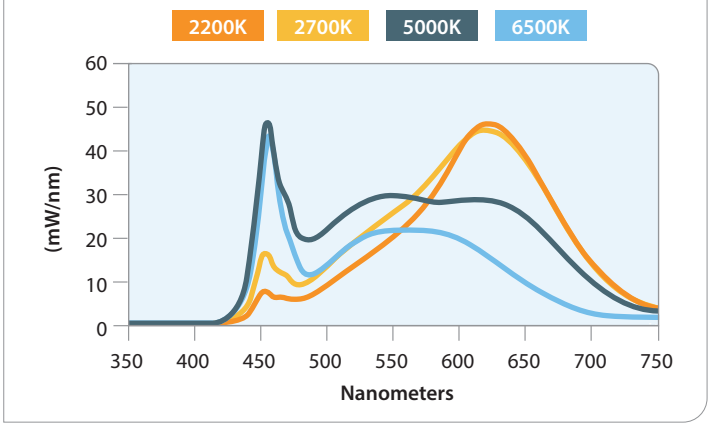
* TU2 + AMB NOT AVAILABLE HO / CHROMAHUE ONLY AVAILABLE ON HO

Tū Hue

Prudential Lighting's **TuHue** Tunable White provides warm to cool white light simulating sunlight. Controlling the light source color temperature offers differing design aesthetics with potential benefits via circadian rhythm support. Blue light for alertness while warm light conveys tranquility.

— 2700K-6500K or 2200K-5000K.
— Adjust the color temperate and brightness separately.
— Simulates warm to cool to warm transition of sunlight.



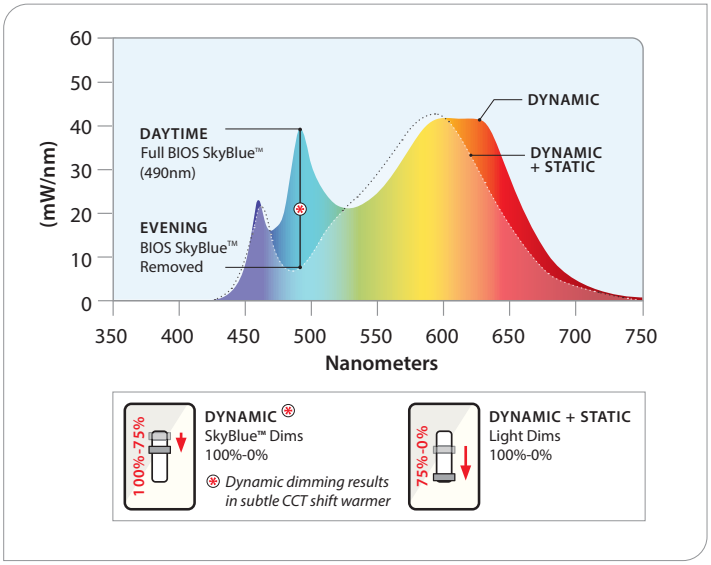


Blu Hue

bios ILLUMINATED

BluHue BIOS SkyBlue™ circadian LED lighting brings the benefits of blue skies inside. Newly discovered blue-sky receptors in our eyes drive improved daytime alertness, mood, brain function, and strengthens circadian rhythms leading to overall better health and well-being.

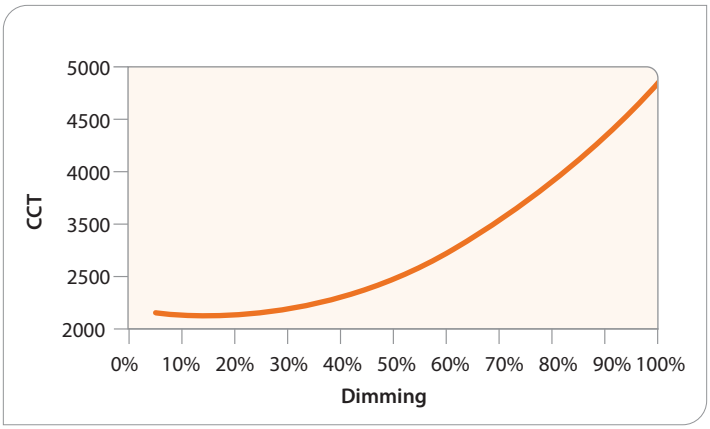
— Circadian rhythms play an integral role in physical and mental health.
— BluHue BIOS SkyBlue pinpoints peak 490nm sensitivity to provide the most benefit from an electric light source.
— At night, simply dim the lights to remove SkyBlue™ wavelengths (specify "Blu_D" to dim Cyan SkyBlue spike separately [night mode]).



Amber Hue

AmberHue is Prudential Lighting's Warm Dim offering. It transitions bright white light to warm amber light as brightness is dimmed, reflecting sunlight's transitioning from intense blue midday light to a dimmed golden hue near sunset, also reminiscent of soft glowing candlelight.

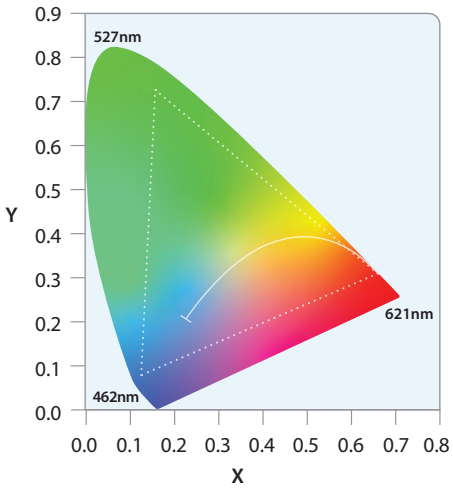
— Warm Dim 2200K-5000K.
— Color temperature warms as the luminaire is dimmed.
— Calm, relaxing mood communicated – hospitality, residential feel.

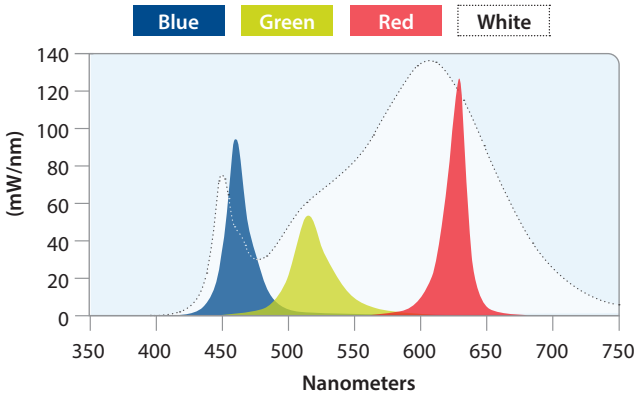


Chroma Hue

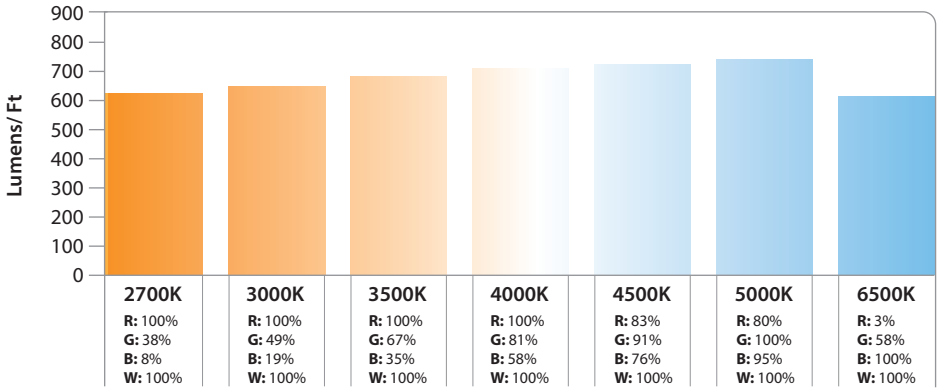
ChromaHue offers a vibrant full gamut of colors for seemingly endless architectural interior applications. Rich color-changing light offers tremendous design flexibility while white light can be achieved with the White chip, or mixing of Red, Green and Blue light. No longer just for the entertainment industry, ChromaHue can be intermixed on BionicPro luminaires for mood-creating indirect illumination combined with static white direct light.

— RGBW LED array (Red, Green, Blue, White) with full spectrum color and white light on the black body curve.
— Four-channel control, DMX drivers.
— Any color point within the triangle can be reached by setting the proper output levels for each individual red, green, blue and white channels.
— Standard DMX is one zone with one XLR drop at start, one XLR return at the end.





CONSTRUCTED WHITES



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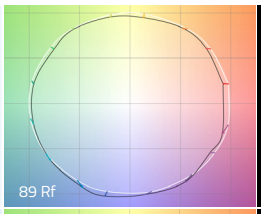
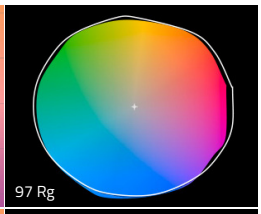
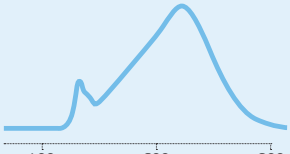
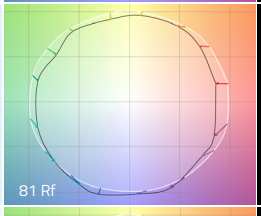
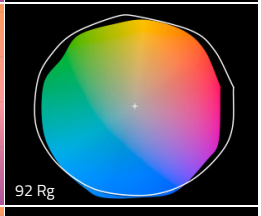
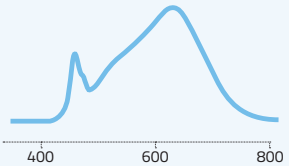
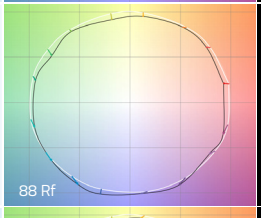
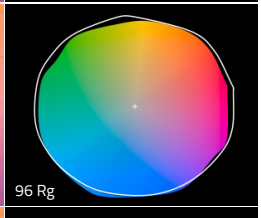
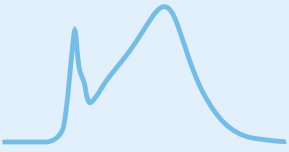
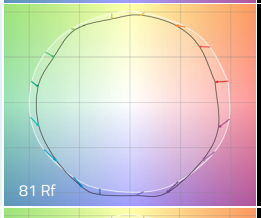
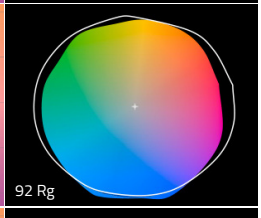
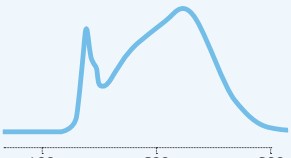
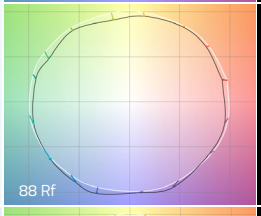
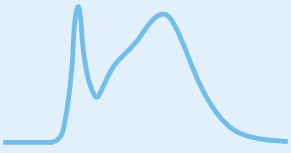
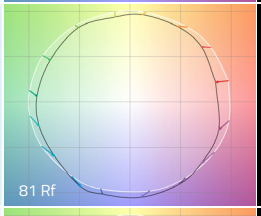
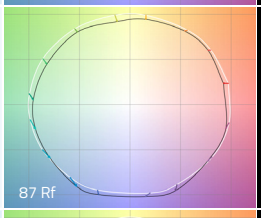
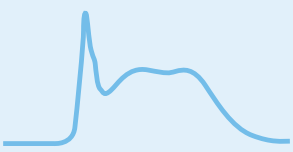
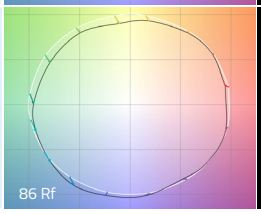
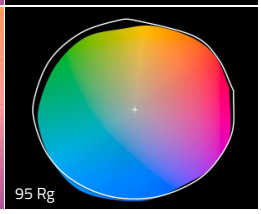
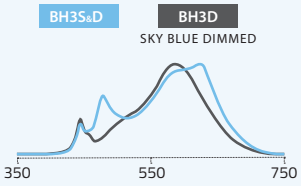
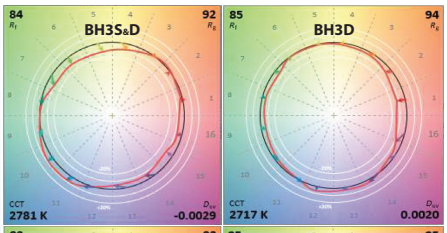
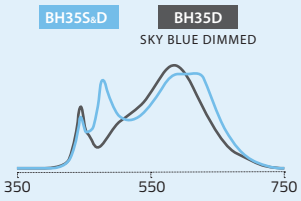
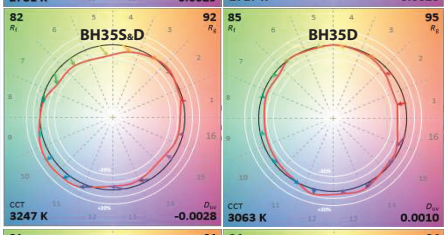
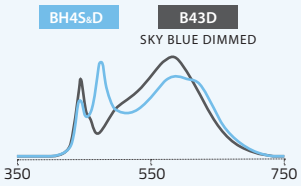
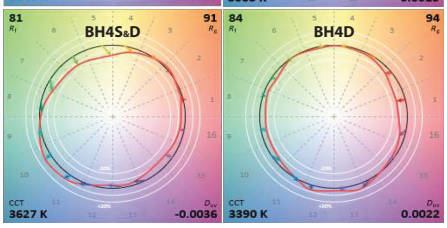
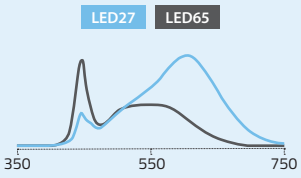
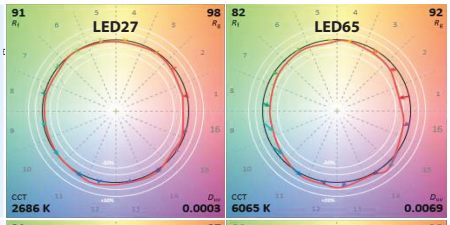
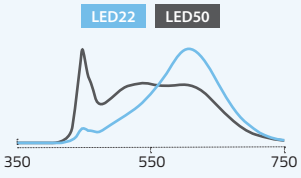
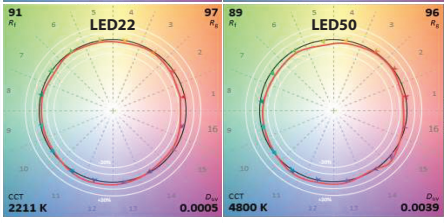
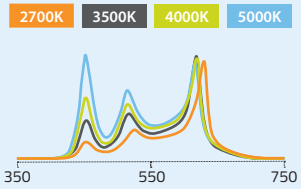
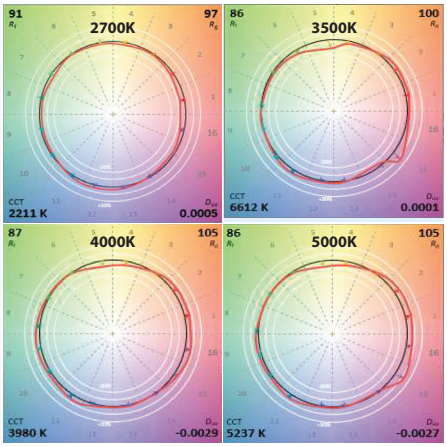
LM79 & TM30 DATA:

	MEASURED CCT	MEASURED LUMENS	CRI	R9	DuV	SPD	TM30 — COLOR VECTOR	TM30 — COLOR DISTORTION
LED27	2680	80%	93	58	0.001			
LED3	3042	95%	82	6	0.001			
LED3-90	3016	85%	93	61	0.000			
LED35	3482	100%	82	3	0.002			
LED35-90	3417	85%	93	67	0.000			
LED4	3952	102%	82	4	0.003			
LED4-90	3882	85%	92	67	0.003			
LED5-90	4889	85%	94	84	0.002			

LM79 & TM30 DATA:

		MEASURED CCT	MEASURED LUMENS	CRI	R9	LED27	SPD	TM30 — COLOR VECTOR
BH3S&D	bios 3000K	2779	2758	87	81	0.003		
BH3D SKY BLUE DIMMED		2715	2425	82	3	0.002		
BH35S&D	bios 3500K	3245	2919	85	87	0.003		
BH35D SKY BLUE DIMMED		3061	2502	83	7	0.001		
BH4&D	bios 4000K	3624	2993	85	86	0.004		
BH4D SKY BLUE DIMMED		3388	2585	83	5	0.002		
TH	LED27	2684	2456	92	57	0.0001		
	LED65	6061	3292	82	-1	0.006		
TH2	LED22	2209	2112	92	52	0.0005		
	LED50	4796	2789	93	77	0.004		
CH	2700K	2632	2469	82	50	0.003		
	3500K	3388	2585	83	5	0.002		
	4000K	3977	2682	83	29	0.003		
	5000K	5233	2823	84	21	0.003		

CATALOG #		TYPE DD1
JOB NAME	WATTAGE	VOLTAGE

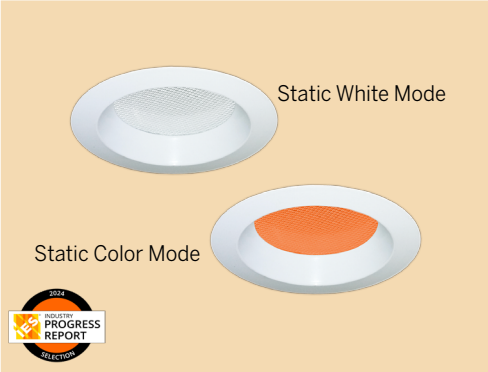
Latitudes Series

LRR-04404

Ambient+ Lensed 4" Downlight • White Flare • Two Color Switchable or Static Color LED

Six Static Colors Available • Up to 60,000 Hour Rated Life

Wet Listed • LM-79 Certified • LM-80 Qualified



Specifications

Delivered System Performance
- Nominal Lumens in static white mode, see page 3 for static color output: **Must Specify**
  Type IC
  -1000L
- Select trim: see chart
- Beam distribution: WFL
- Select static white color (CCT): see chart; 80+ CRI standard; Option -HC for 90+ (15% lumen loss)
- Select static color: see chart
- 60,000 hour rated life (L70)

Thermal Management System
- Aluminum heat sink and components for cool operation, long life, and low maintenance

LED Driver - INTERNAL
- Indoor/Outdoor: -30°C to 60°C (-22°F to 140°F)
- 0-10V CCR 1.0% dimming standard
- 120-277V / 50-60 Hz standard; load insensitive

Trim Assembly
- Seamless tapered aluminum self-flanged trim with white finish (field paintable)
- Regressed microprismatic spread lens

Acrylic Enameled Aluminum Housing
- Rustproof and corrosion resistant: exceeds 1000 hour ASTM 5% salt spray test
- Shallow depth fits restricted plenums
- Cool operation extends component life
- Modular design; visible and fully serviceable through aperture
- Built-in plaster flange

Outlet Box (Galvanized)
- UL Listed, 14GA, insulated, removable cover
- ½" and ¾" knockouts

Installation & Hardware
- Indoor/outdoor in ceilings up to 1⅛" thick or see Option -79
- Compatible with fire rated enclosures (by others)
- 27" hanger bars & adjusting brackets (2) supplied

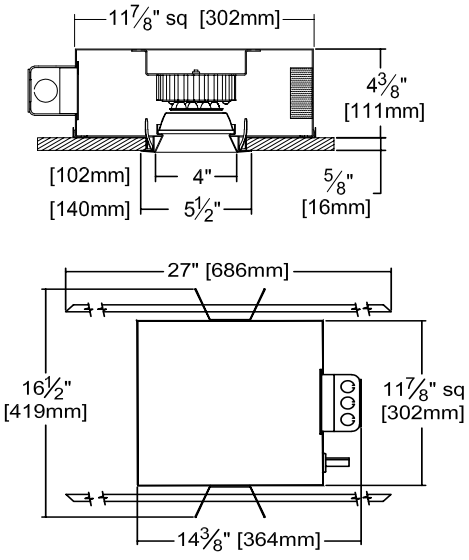
UL, C-UL (Canada)
- UL Listed: wet, damp or dry locations, covered ceilings
- Through-branch conductors (4 #12 AWG 90°C)

IEC & FCC Compliance
- Meets IEC/EN 60601-1-2 electromagnetic compatibility standard for medical electrical equipment
- FCC Part 15 certified for EMI/RFI emissions

FIVE YEAR Limited Warranty
- Complete standard fixture

Ambient+ *Two Color Switchable* | **Static Color** *6 Options* | **Made in the USA** *BABAA Compliant* | **Natatorium** *See Option -NAT* | **FCC Part 15 Certified** | **UL Listed Wet, Damp, Dry**

Dimensions



Static Color Options

OPTION	LED COLOR		TYPICAL APPLICATION
-465	Blue	(465nm)	Backstage Theater, Public Safety
-521	Green	(521nm)	Operating Rooms
-590	Yellow / Amber	(590nm)	Turtle Friendly, Sleep-Supporting Circadian
-617	Amber	(617nm)	Vivarium, Sleep-Supporting Circadian
-634	Red / Amber	(634nm)	Sleep-Supporting Circadian
-660	Red	(660nm)	Darkroom, Laboratories

Kirlin Lighting | 3401 E. Jefferson Ave., Detroit, MI 48207-4232, USA | P: 313.259.6400 | www.kirlinlighting.com

KIRLIN ARCHITECTURAL LIGHTING

Ambient+ Two Color Options and Ordering Configuration

(Example: LRR-04404-1000L-UNV-35K-590-D2-79)

Must Specify					Optional			
Model	**Lumens**	**Volts**	**White CCT**	**Static Color**	**Driver Options**	**Trim Options**	**Emergency Options**	**Other Options**
LRR-04404								
	-1000L	**-UNV** **-97†:** Other Voltage †Consult factory	**80+ CRI*** **-27K:** 2700°K **-30K:** 3000°K **-35K:** 3500°K **-41K:** 4000°K **-50K:** 5000°K ***Note:** Lumen Factor = 0.93 for -27K **90+ CRI**** **-27K-HC:** 2700°K **-30K-HC:** 3000°K **-35K-HC:** 3500°K **-41K-HC:** 4000°K **-50K-HC:** 5000°K ****Note:** Lumen Factor = 0.79 for -27K-HC; All Others = 0.85; Consult Factory	**-465:** 465nm Blue; Theater and Public Safety **-521:** 521nm Green; Operating Rooms **-590:** 590nm Yellow/Amber; Turtle-friendly **-617:** 617nm Amber; Vivarium **-634:** 634nm Red/Amber; Circadian **-660:** 660nm Red; Darkrooms, Labs	**(Blank):** 0-10V 1.0% dim; 2 outputs - Static White and Static Color **-D2:** 0-10V 0.1% dim; 2 outputs - Static White and Static Color	**(Blank):** Seamless tapered aluminum self-flanged trim with white finish; microprismatic spread lens **Trim Finishes** **-35T:** Silver enamel (complete trim) **-37T:** Dark bronze enamel (complete trim) **-38T:** Black enamel (complete trim) **-94:** Custom color; consult factory **Other Trim Features** **-13:** Clear poly lens below lens. Photometric distribution unaffected **-23:** Frosted microprismatic lens **-32:** White trim extender, specify OD **-45:** Gasket between trim & ceiling **-WA:** White acrylic lens	**(Blank):** None **-EI:** Remote emergency inverter for 100% rated lumens; Run time: 90+ minutes; N/A for options -FS, -97	**(Blank):** None **Mounting** **-79:** Extension collar for ceilings up to 2" thick **-RH:** Joist mounting hardware instead **Other Options** **-99:** Special modification; consult factory **-FS:** Fused primary; One per fixture; N/A for option -EI **-TA:** Top access for servicing from above ceiling

Static Color Options and Ordering Configuration

(Example: LRR-04404-1000L-UNV-521-35T)

Must Specify				Optional			
Model	**Lumens**	**Volts**	**Static Color**	**Driver Options**	**Trim Options**	**Emergency Options**	**Other Options**
LRR-04404							
	-1000L	**-UNV** **-97†:** Other Voltage †Consult factory	**-465:** 465nm Blue; Theater and Public Safety **-521:** 521nm Green; Operating Rooms **-590:** 590nm Yellow/Amber; Turtle-friendly **-617:** 617nm Amber; Vivarium **-634:** 634nm Red/Amber; Circadian **-660:** 660nm Red; Darkrooms, Labs	**(Blank):** 0-10V 1.0% dim **-D2:** 0-10V 0.1% dim; Static color	**(Blank):** Seamless tapered aluminum self-flanged trim with white finish; microprismatic spread lens **Trim Finishes** **-35T:** Silver enamel (complete trim) **-37T:** Dark bronze enamel (complete trim) **-38T:** Black enamel (complete trim) **-94:** Custom color; consult factory **Other Trim Features** **-13:** Clear poly lens below lens. Photometric distribution unaffected **-23:** Frosted microprismatic lens **-32:** White trim extender, specify OD **-45:** Gasket between trim & ceiling **-WA:** White acrylic lens	**(Blank):** None **-EI:** Remote emergency inverter for 100% rated lumens; Run time: 90+ minutes; N/A for options -FS, -97 **-ERH:** Remote emergency battery pack; Delivers 1000 lumens; CEC Compliant; Run time: 90+ minutes	**(Blank):** None **Mounting** **-79:** Extension collar for ceilings up to 2" thick **-RH:** Joist mounting hardware instead **Other Options** **-99:** Special modification; consult factory **-AWN:** Athena Wireless Node; Consult Factory **-FS:** Fused primary; One per fixture; N/A for option -EI **-TA:** Top access for servicing from above ceiling ***Note:** For other integrated control solutions, such as nLight, contact factory

KIRLIN ARCHITECTURAL LIGHTING

Photometry - Ambient+ Two Color Switchable - Installed Complete Fixture

LM-79 IES Certified Photometry from Independent Lab

Ambient+ Two Color

CCT-STATIC COLOR	COLOR LUMENS	COLOR LUMEN FACTOR	MAXIMUM WATTAGE†
-CCT-465	1015.7	2.31	20.6
-CCT-521	1640.1	3.73	19.8
-CCT-590	439.7	1.00	16.5
-CCT-617	804.7	1.83	17.0
-CCT-634	730.0	1.66	16.2
-CCT-660	343.0	0.78	16.3

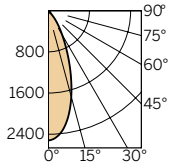
-1000L-35K-590

Cone of Light ▲

Dist.	FC	Dia.
6	62.6	3.9
8	35.2	5.2
10	22.5	6.5
12	15.7	7.8
14	11.5	9.1
16	8.8	10.4

Static White Mode

Watts: 15.3
Lumens: 1326.1
LPW: 86
Beam: ~40°
SC: 0.6
LLIA Test: LLIA002409-001



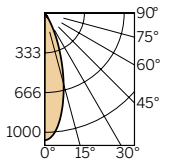
-1000L-35K-590

Cone of Light ▲

Dist.	FC	Dia.
6	29.2	3.3
8	16.4	4.4
10	10.5	5.5
12	7.3	6.6
14	5.4	7.7
16	4.1	8.8

Static Color Mode

Watts: 16.5
Lumens: 439.7
LPW: 27
Beam: ~34°
SC: 0.5
LLIA Test: LLIA002409-002



† *Maximum wattage is in static color mode. For static white wattage, please see photometry details.*
* *See notes on page 1 for additional info on Lumen Factors*

Photometry - Static Color - Installed Complete Fixture

LM-79 IES Certified Photometry from Independent Lab

Static Color

STATIC COLOR	COLOR LUMENS	COLOR LUMEN FACTOR	IES LUMEN FACTOR +	NOMINAL WATTS	LPW
-465	1109.1	2.15	2.58	22.1	50.3
-521	1702.4	3.30	3.96	22.1	77.1
-590	515.9	1.00	1.20	22.1	23.4
-617	944.0	1.83	2.20	22.1	42.8
-634	856.3	1.66	1.99	22.1	38.8
-660	402.4	0.78	0.94	22.1	18.2

+ *IES file are based on Ambient+ Static Color light output. Use this lumen factor for lighting calculations.*

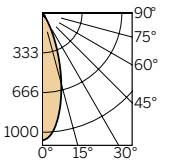
-1000L-590

Cone of Light ▲

Dist.	FC	Dia.
6	29.2	3.3
8	16.4	4.4
10	10.5	5.5
12	7.3	6.6
14	5.4	7.7
16	4.1	8.8

Static Color Only

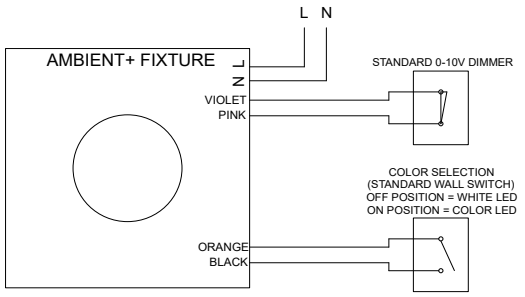
Watts: 22.1
Lumens: 515.9
LPW: 27
Beam: ~34°
SC: 0.5
LLIA Test: LLIA002409-002



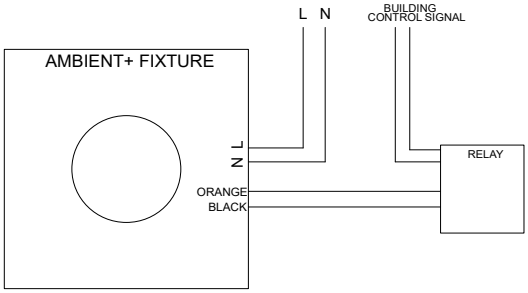
LED manufacturers maintain a tolerance of +/-7% on flux (lumens) and power (electrical) measurements.

Ambient+ Two Color Switchable - Example Wiring Diagrams

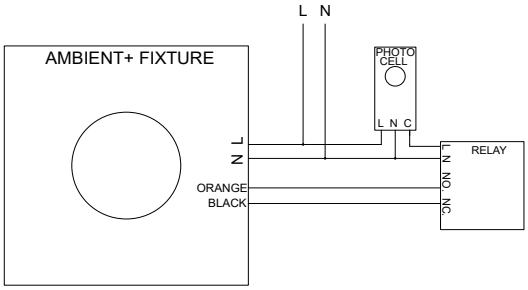
Basic Color Selection



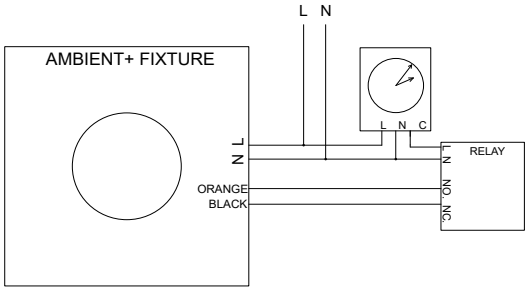
Building Control of White vs. Color



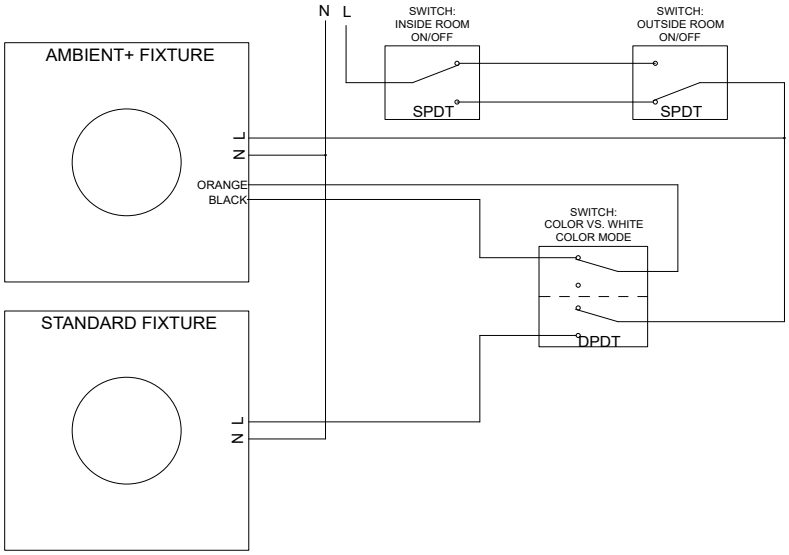
Photocell Control of White vs. Color

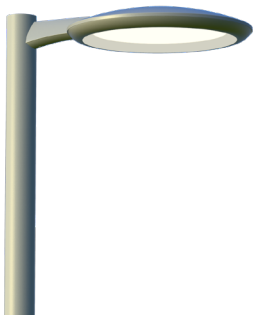


Timer Control of White vs. Color



Room Example with a Mix of Fixture Types





Radean Arm Mount
LED Area Luminaire

Catalog Number AA2, AA3, AA4

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

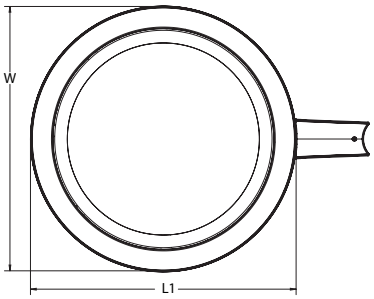
EPA: 0.75 ft² (0.05 m²)

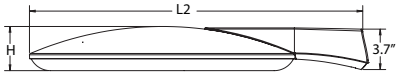
Length:
L1 24" (61cm)
L2 30" (60.96 cm)

Width: 24" (61cm)

Height: 4" (10.2cm)

Weight (max): 29lbs (13.15Kg)





Introduction

The RADEAN arm mount luminaire is the perfect choice for pedestrian applications where daytime aesthetics and visual comfort are needed. Adding architectural flair to any space, the RADEAN's low-profile shape and smooth curves blend in while adding a touch of elegance.

Perfect for campuses, parks, pedestrian malls, courtyards and pathways, the RADEAN arm mount is the Architect's choice to provide beautiful aesthetics both day and night.

14'-0" to 16'-0" pole height

Ordering Information

EXAMPLE: RAD1 LED P3 30K SYM MVOLT RPA PE DNAXD

RAD1 LED

Series	Performance package	Color temperature	Distribution	Voltage	Mounting
RAD1 LED	P1 3,000 Lumens P2 5,000 Lumens P3 7,000 Lumens P4 11,000 Lumens P5 16,000 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	SYM Symmetric type V ASY Asymmetric type IV PATH Pathway type III	MVOLT [2] 120 [2] 208 [2] 240 [2] 277 [2] 347 480	SPA Square pole mounting (includes adapter) RPA Round pole mounting WBA Wall bracket

Control options	Other options	Finish *(required)*
Shipped installed NLTAIR2 nLight AIR 2.0 enabled [3] PE Button photocell [3] FAO Field adjustable output [3] DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)	SF Single Fuse [2] DF Double Fuse [2] L90 Left rotated optics R90 Right rotated optics **Shipped separately** HS Houseside shield [5]	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Accessories

Ordered and shipped separately.

RADHS Houseside shield (shield is white)
RADFBC Full base cover for 4" RSS pole (specify finish)

For more control options, visit DTL and ROAM online.

NOTES

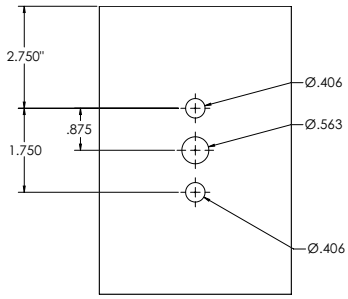
1. 2700K and 3500K may require extended lead-times.
2. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
3. NLTAIR2 not available with PE or FAO. Must link to external nLight Air network. Does not include occupancy sensor. For more information refer to rSBOR pole mount sensor.
4. DMG not available with NLTAIR2 or FAO.
5. Also available as a separate accessory; see Accessories information. Shield is field rotatable in 45° increments.

Mounting

Recommended Poles for use with RADEAN RAD1 LED Luminaires.			
Acuity Part Number	**Description**	**For luminaires:**	**Used with Mounting**
RSS 10 4B DM19RAD DDBXD	10' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 12 4B DM19RAD DDBXD	12' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 14 4B DM19RAD DDBXD	14' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 16 4B DM19RAD DDBXD	16' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 18 4B DM19RAD DDBXD	18' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 20 4B DM19RAD DDBXD	20' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
RSS 25 4B DM19RAD DDBXD	25' Round Straight Steel - Template #20 Drilling	RAD1 LED	RPA
SSS 10 4C DM19RAD DDBXD	10' Square Straight Steel -Template #20 Drilling	RAD1 LED	SPA
SSS 12 4C DM19RAD DDBXD	12' Square Straight Steel -Template #20 Drilling	RAD1 LED	SPA
SSS 14 4C DM19RAD DDBXD	14' Square Straight Steel -Template #20 Drilling	RAD1 LED	SPA
SSS 16 4C DM19RAD DDBXD	16' Square Straight Steel -Template #20 Drilling	RAD1 LED	SPA
SSS 18 4C DM19RAD DDBXD	18' Square Straight Steel -Template #20 Drilling	RAD1 LED	SPA
SSS 20 4C DM19RAD DDBXD	20' Square Straight Steel -Template #20 Drilling	RAD1 LED	SPA
SSS 25 4C DM19RAD DDBXD	25' Square Straight Steel -Template #20 Drilling	RAD1 LED	SPA

* Customer must verify pole loading per required design criteria and specified wind speed. Consult pole specification sheet for additional details.

Drilling Template #20



RAD1 has a unique drilling pattern. Specify this drilling pattern when specifying poles, per the table below.

DM19RAD	Single unit	**DM29RAD**	2 at 90° [1,2]
DM28RAD	2 at 180°	**DM39RAD**	3 at 90° *
DM49RAD	4 at 90° [1]	**DM32RAD**	3 at 120°

Example: SSA 20 4C **DM19RAD** DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.

1. *Round pole top must be 4.25" O.D. minimum.*
2. *Square pole top must be 3.125" O.D. minimum.*

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Contact factory for performance data on any configurations not shown here.

Performance Package	Input Wattage	Distribution	2700K					3000K					3500K					4000K					5000K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	25	ASY	3,103	1	0	1	122	3,207	1	0	1	126	3,285	1	0	1	129	3,362	1	0	1	132	3,362	1	0	1	132
		PATH	2,695	2	0	2	106	2,785	2	0	2	110	2,853	2	0	2	112	2,920	2	0	2	115	2,920	2	0	2	115
		SYM	3,271	2	0	1	129	3,380	2	0	1	133	3,461	2	0	1	136	3,543	2	0	1	139	3,543	2	0	1	139
P2	38	ASY	4,798	1	0	2	126	4,958	1	0	2	130	5,078	2	0	2	134	5,198	2	0	2	137	5,198	2	0	2	137
		PATH	4,167	2	0	2	110	4,306	3	0	3	113	4,410	3	0	3	116	4,514	3	0	3	119	4,514	3	0	3	119
		SYM	5,056	2	0	1	133	5,225	3	0	1	137	5,351	3	0	1	141	5,478	3	0	1	144	5,478	3	0	1	144
P3	54	ASY	6,779	2	0	2	126	7,005	2	0	2	131	7,174	2	0	2	134	7,344	2	0	2	137	7,344	2	0	2	137
		PATH	5,887	3	0	3	110	6,084	3	0	3	113	6,231	3	0	3	116	6,378	3	0	3	119	6,378	3	0	3	119
		SYM	7,144	3	0	2	133	7,382	3	0	2	138	7,561	3	0	2	141	7,739	3	0	2	144	7,739	3	0	2	144
P4	86	ASY	10,773	3	0	3	126	11,132	3	0	3	130	11,401	3	0	3	133	11,671	3	0	3	136	11,671	3	0	3	136
		PATH	9,356	3	0	3	109	9,668	3	0	3	113	9,902	3	0	3	116	10,136	3	0	3	118	10,136	3	0	3	118
		SYM	11,353	3	0	2	133	11,731	3	0	2	137	12,015	3	0	2	140	12,299	3	0	2	144	12,299	3	0	2	144
P5	122	ASY	15,001	3	0	3	123	15,501	3	0	3	127	15,876	3	0	3	130	16,251	3	0	3	133	16,251	3	0	3	133
		PATH	13,028	4	0	4	107	13,462	4	0	4	110	13,788	4	0	4	113	14,114	4	0	4	116	14,114	4	0	4	116
		SYM	15,808	4	0	3	130	16,335	4	0	3	134	16,731	4	0	3	137	17,126	4	0	3	140	17,126	4	0	3	140

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		LAT Factor
0°C	32°F	1.06
5°C	41°F	1.05
10°C	50°F	1.04
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.96

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **RAD1 LED P5** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

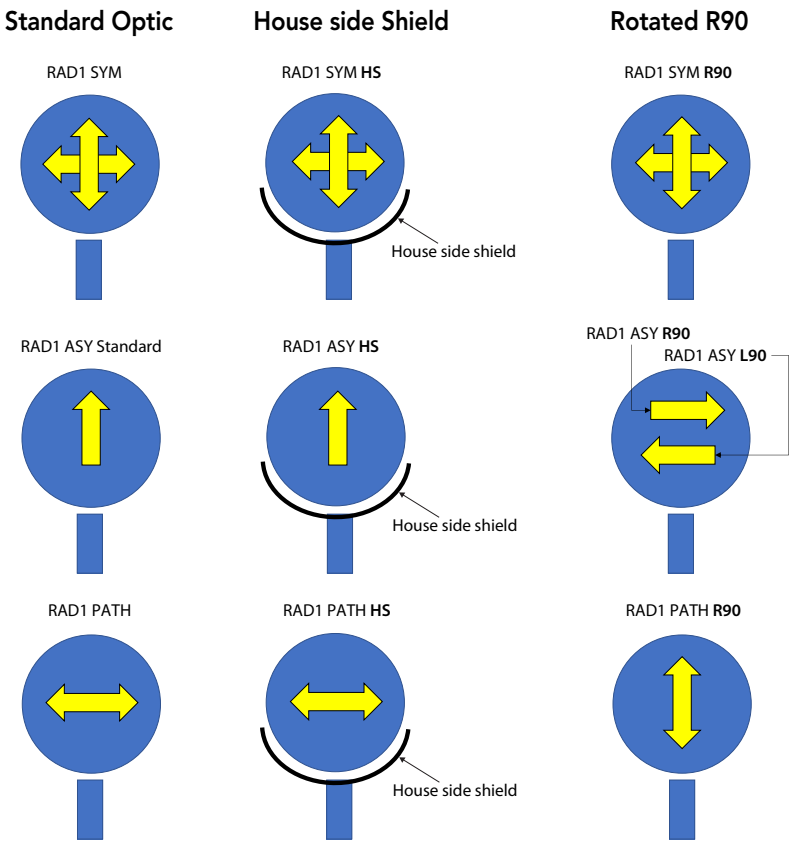
Projected LED Lumen Maintenance				
	0	25,000	50,000	100,000
P1	1.00	0.96	0.91	0.82
P2	1.00	0.96	0.91	0.82
P3	1.00	0.96	0.91	0.82
P4	1.00	0.96	0.91	0.82
P5	1.00	0.95	0.89	0.78

Electrical Load

Lumen Package	LED Drive Current	Voltage	Wattage		Current (A)					
					120	208	240	277	347	480
P1	500	42.8	21.4	Input Current	0.22	0.13	0.11	0.1	0.08	0.06
				System Watts	26	26	26	27	25	26
P2	770	43	33.1	Input Current	0.33	0.19	0.16	0.14	0.11	0.08
				System Watts	39	39	39	39	38	38
P3	1100	43.2	47.5	Input Current	0.46	0.26	0.23	0.2	0.16	0.12
				System Watts	55	54	54	54	54	54
P4	900	87.3	78.6	Input Current	0.73	0.42	0.36	0.32	0.25	0.18
				System Watts	87	86	86	86	86	86
P5	1250	88.2	110.2	Input Current	1	0.58	0.5	0.44	0.35	0.25
				System Watts	120	119	119	119	120	120

Orientation Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RAD1 LED homepage.



FEATURES & SPECIFICATIONS

INTENDED USE
Pedestrian areas such as parks, campuses, pathways, courtyards and pedestrians malls.

CONSTRUCTION
Single-piece die-cast aluminum housing with nominal wall thickness of 0.125" on a 6mm thick acrylic waveguide is fully gasketd with a single piece tubular silicone gasket.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum and white. Available in textured and non-textured finishes.

OPTICS
6MM thick acrylic waveguide with 360° flexible LED board. Available in 2700K, 3000K, 3500K, 4000K and 5000K (80CRI) CCT configurations.

ELECTRICAL
Light engine consists of 96 high-efficacy LEDs mounted to a flexible circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Fixtures ship standard with 0-10v dimming driver (order option DMG for connection to exterior controls). Class 1 electronic driver has a power factor >90%, THD <20%, with an expected life of 100,000 hours with <1% failure rate. Serviceable 10kV surge protection device meets a minimum Category C Low for operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Included luminaire and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color or less.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.