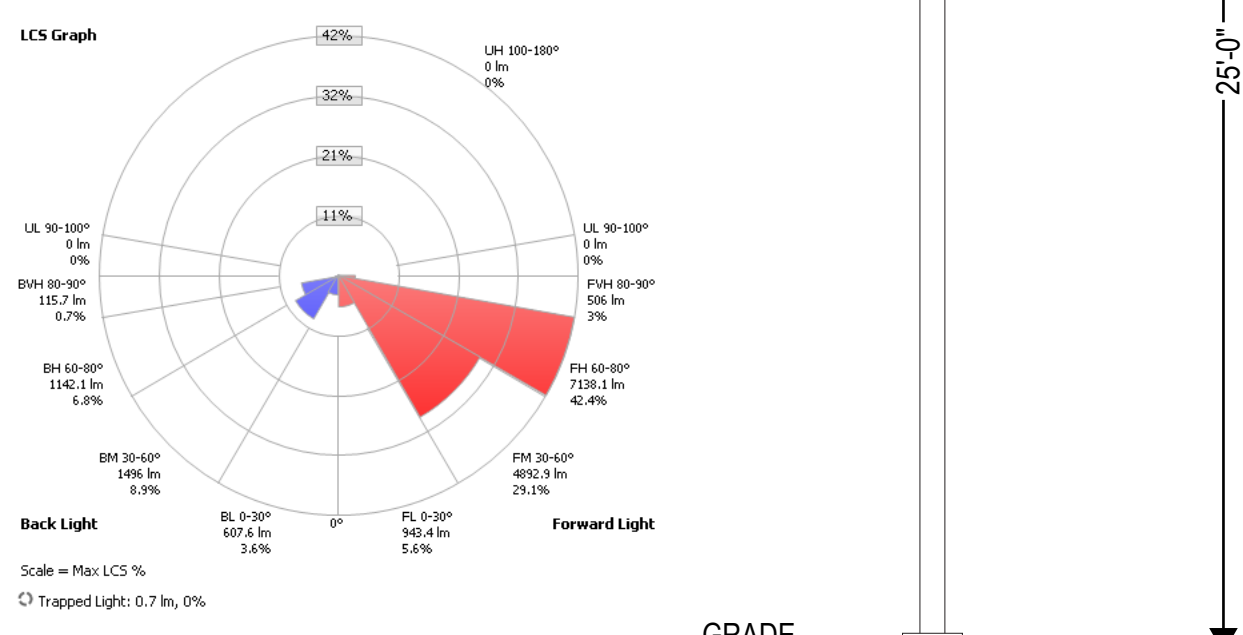


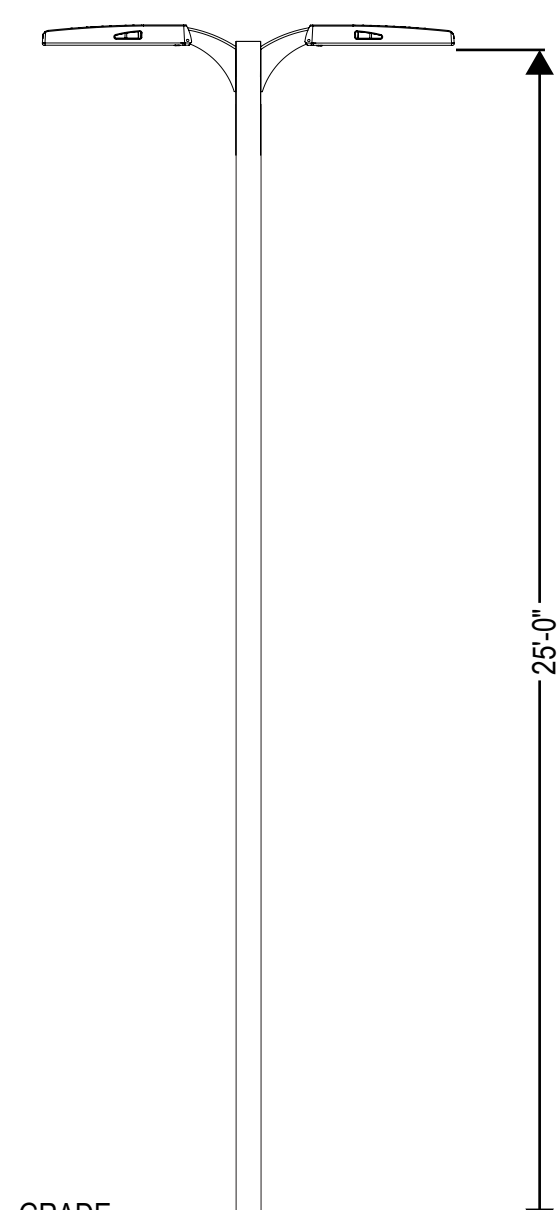
Manufacturer: NLS LIGHTING
Test #: 8022939-111
Test Lab: CSA GROUP
Catalog: NV-174FTW-4BL-1-40K7
Description: OUTDOOR AREA LIGHT
Lamp Output: Total Luminaire Lumens: 16942.6, absolute photometry *
Ballast / Driver: X1180C125V2008SF2
Input Voltage: 156
Luminous Opening: Rectangle (L: 9.48", W: 11.84")
Max Cd: 11,413.0 at Horizontal: 39°, Vertical: 72.5°
Roadway Class: SHORT, TYPE IV

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	943.4	5.6%
Medium(30-60)	4,802.9	29.1%
High(60-90)	7,138.1	42.4%
Very High(90-90)	506.0	3%
Low(0-30)	607.6	3.6%
Medium(30-60)	1,496.0	8.9%
High(60-90)	1,142.1	6.8%
Very High(90-90)	115.7	0.7%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.7	0%



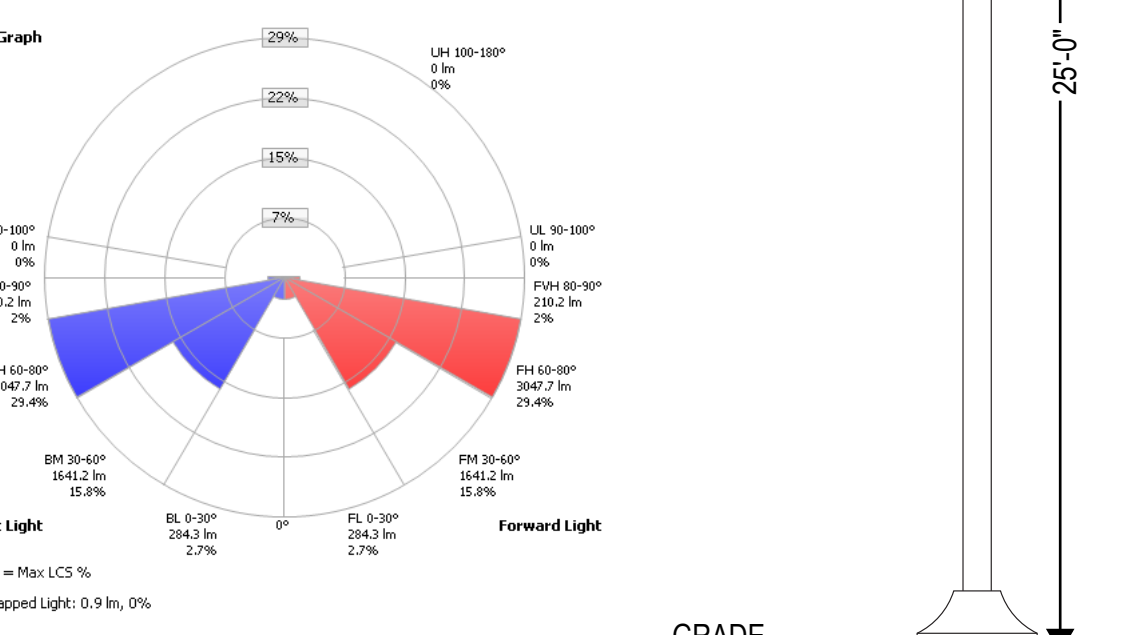
2 N2B LIGHT FIXTURE DETAILS
SCALE: NTS



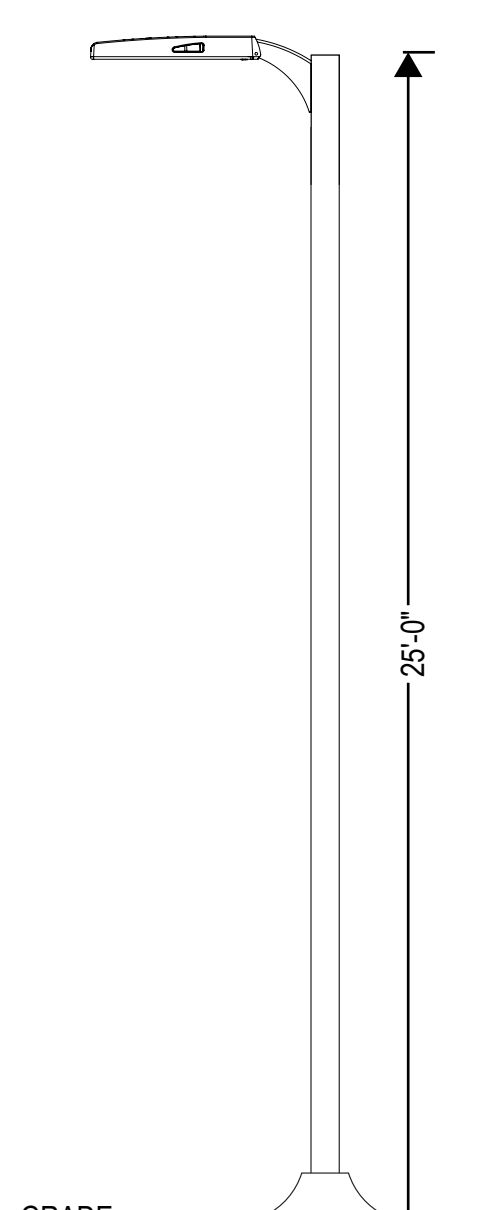
Manufacturer: NLS LIGHTING
Test #: 8022939-26
Test Lab: CSA GROUP
Catalog: NV-175W-32L-7-40K7
Description: OUTDOOR AREA LIGHT
Lamp Output: Total Luminaire Lumens: 10367.7, absolute photometry *
Ballast / Driver: X1150C105V140CF1
Input Voltage: 72
Luminous Opening: Rectangle (L: 8.52", W: 9.96")
Max Cd: 5,216.7 at Horizontal: 50°, Vertical: 72.5°
Roadway Class: Type VS

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	284.3	2.7%
Medium(30-60)	1,641.2	15.8%
High(60-90)	3,047.7	29.4%
Very High(90-90)	210.2	2%
Low(0-30)	284.3	2.7%
Medium(30-60)	1,641.2	15.8%
High(60-90)	3,047.7	29.4%
Very High(90-90)	210.2	2%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.9	0%



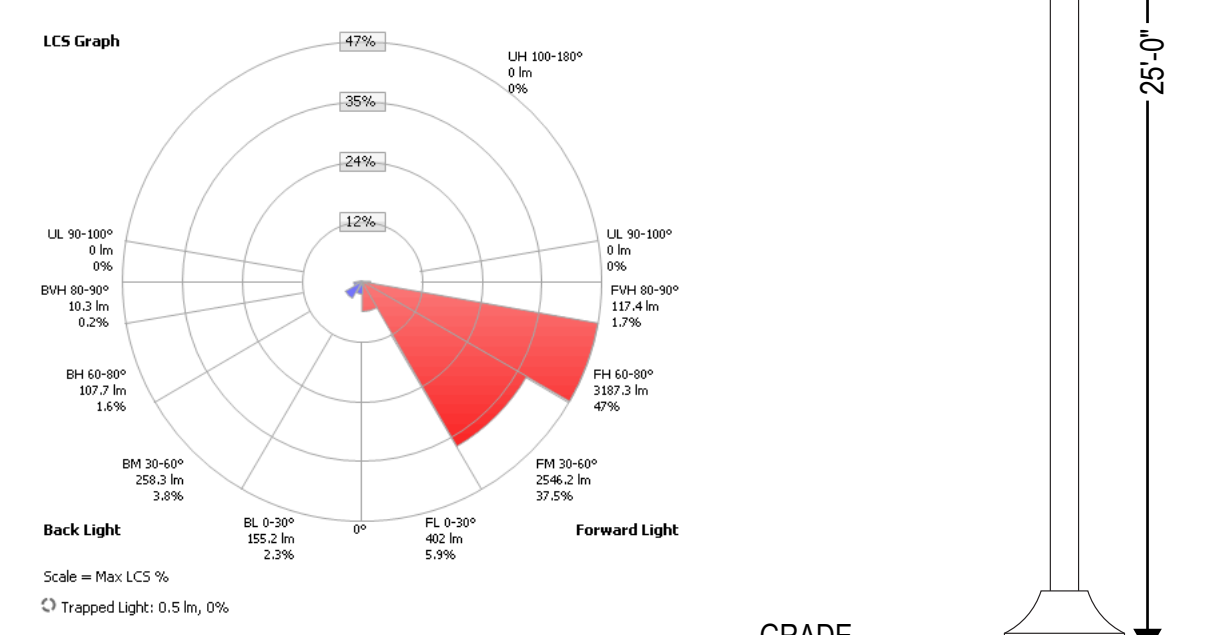
6 N1F LIGHT FIXTURE DETAILS
SCALE: NTS



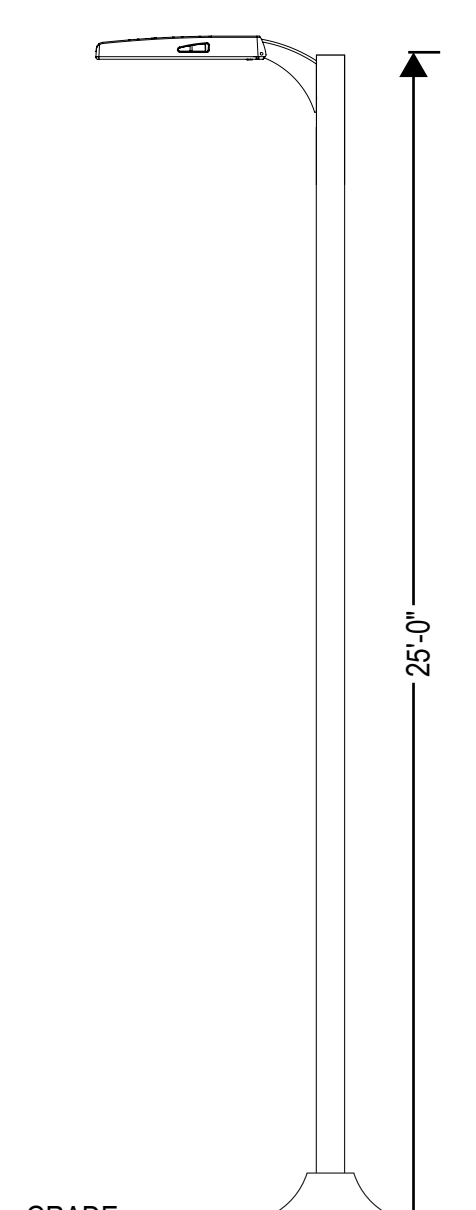
Manufacturer: NLS LIGHTING
Test #: 8022939-150
Test Lab: CSA GROUP
Catalog: NV-174FTW-32L-1-40K7-HSS
Description: OUTDOOR AREA LIGHT
Lamp Output: Total Luminaire Lumens: 6794.9, absolute photometry *
Ballast / Driver: 106
Input Voltage: 106
Luminous Opening: Rectangle (L: 9.48", W: 10.87")
Max Cd: 6,013.7 at Horizontal: 40°, Vertical: 70°
Roadway Class: SHORT, TYPE IV

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	462.0	5.9%
Medium(30-60)	2,566.2	37.5%
High(60-90)	3,187.3	47%
Very High(90-90)	117.4	1.7%
Low(0-30)	155.2	2.3%
Medium(30-60)	258.3	3.8%
High(60-90)	187.7	1.6%
Very High(90-90)	10.3	0.2%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.5	0%



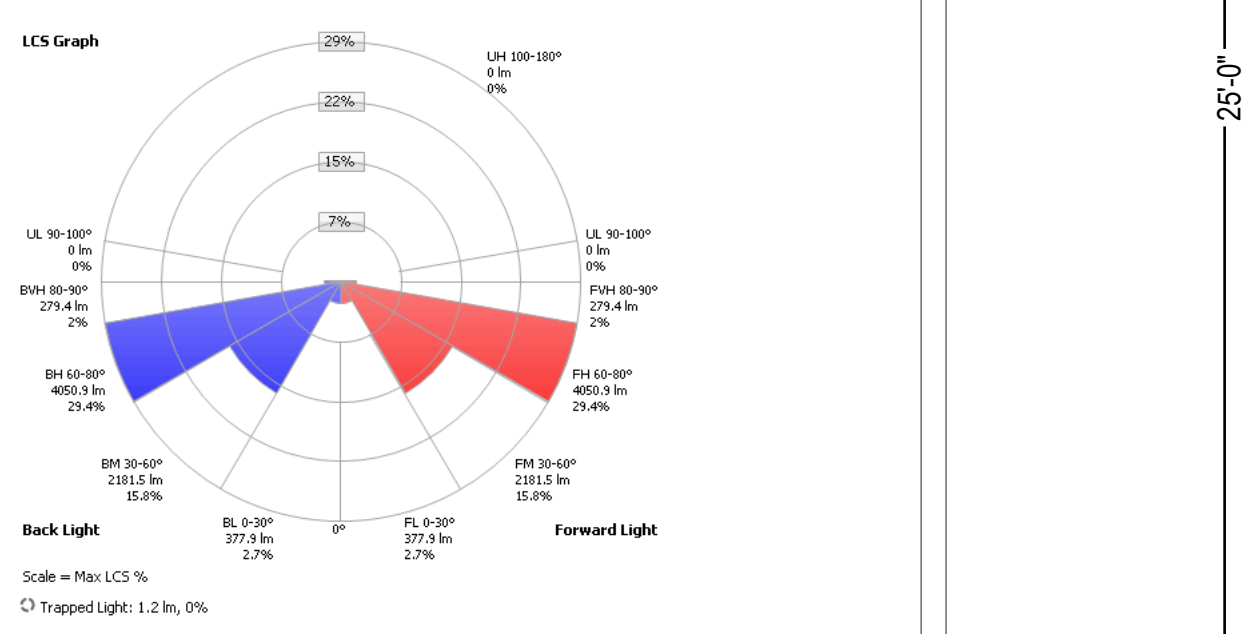
3 N1C LIGHT FIXTURE DETAILS
SCALE: NTS



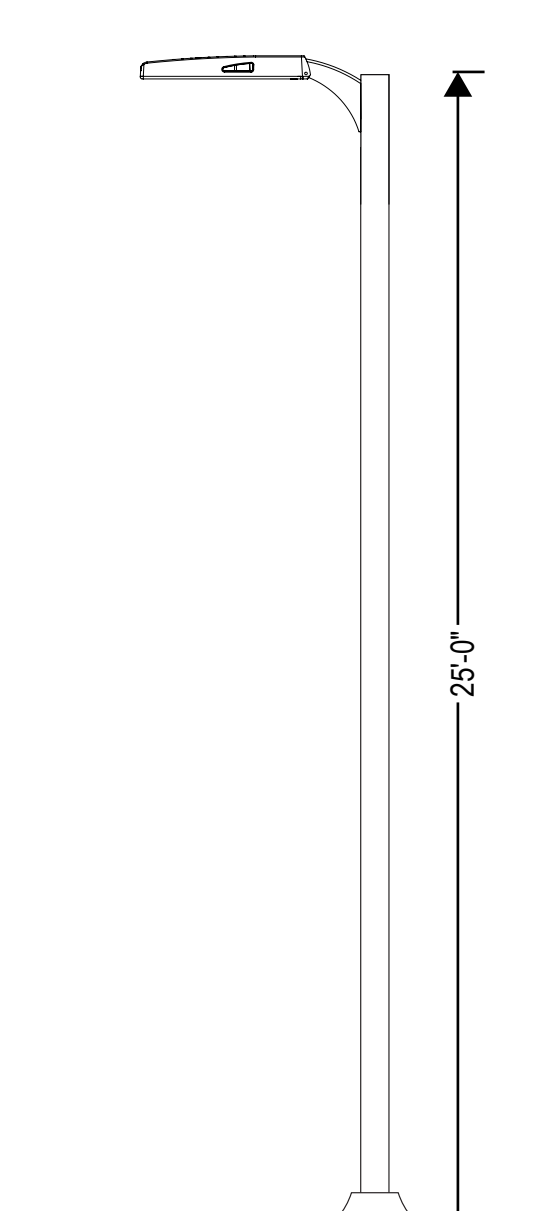
Manufacturer: NLS LIGHTING
Test #: 8022939-36
Test Lab: CSA GROUP
Catalog: NV-175W-32L-150-40K7
Description: OUTDOOR AREA LIGHT
Lamp Output: Total Luminaire Lumens: 13780.6, absolute photometry *
Ballast / Driver: 106
Input Voltage: 106
Luminous Opening: Rectangle (L: 8.52", W: 9.96")
Max Cd: 6,576.0 at Horizontal: 50°, Vertical: 72.5°
Roadway Class: Type VS

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	377.9	2.7%
Medium(30-60)	2,181.5	15.8%
High(60-90)	4,050.9	29.4%
Very High(90-90)	279.4	2%
Low(0-30)	377.9	2.7%
Medium(30-60)	2,181.5	15.8%
High(60-90)	4,050.9	29.4%
Very High(90-90)	279.4	2%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	1.2	0%



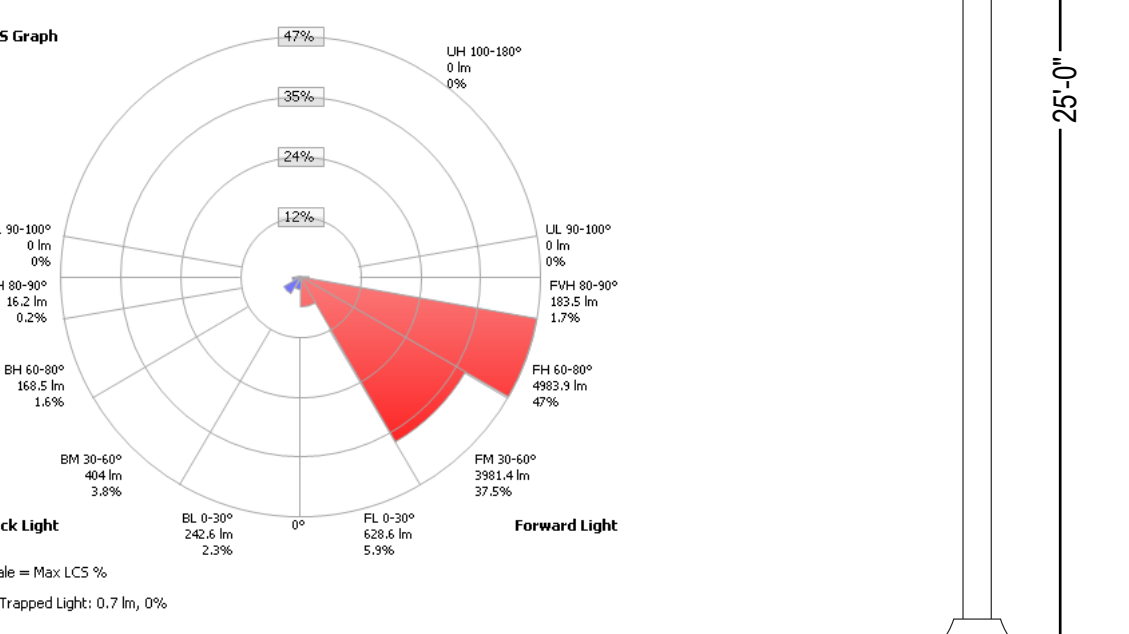
8 N2A LIGHT FIXTURE DETAILS
SCALE: NTS



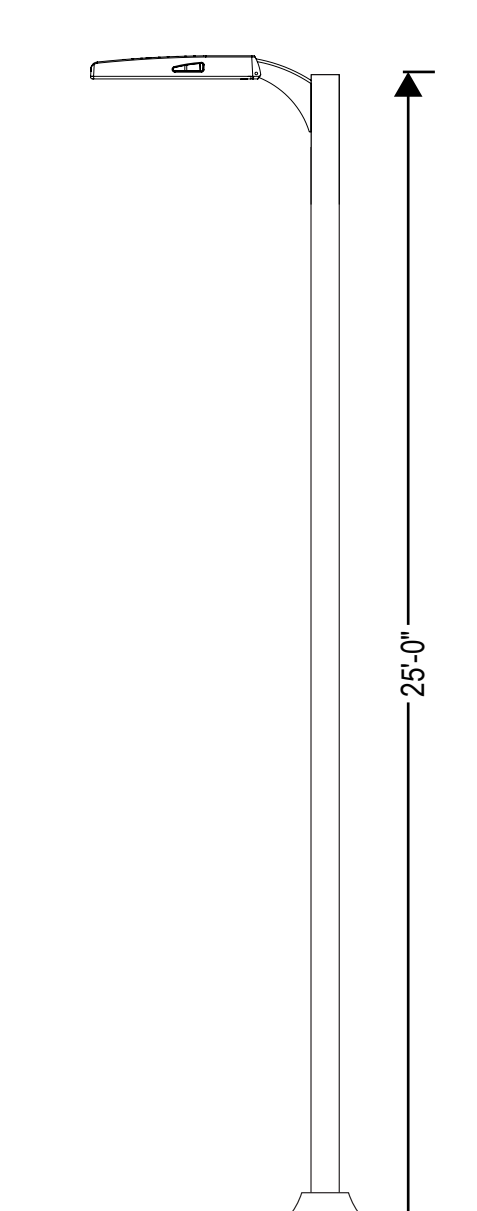
Manufacturer: NLS LIGHTING
Test #: 8022939-150
Test Lab: CSA GROUP
Catalog: NV-174FTW-4BL-1-40K7-HSS
Description: OUTDOOR AREA LIGHT
Lamp Output: Total Luminaire Lumens: 10669.4, absolute photometry *
Ballast / Driver: 156
Input Voltage: 156
Luminous Opening: Rectangle (L: 9.48", W: 10.87")
Max Cd: 6,403.6 at Horizontal: 40°, Vertical: 70°
Roadway Class: SHORT, TYPE IV

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	628.6	5.9%
Medium(30-60)	3,981.4	37.5%
High(60-90)	4,983.9	47%
Very High(90-90)	183.5	1.7%
Low(0-30)	242.6	2.3%
Medium(30-60)	404.0	3.8%
High(60-90)	168.5	1.6%
Very High(90-90)	16.2	0.2%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.7	0%



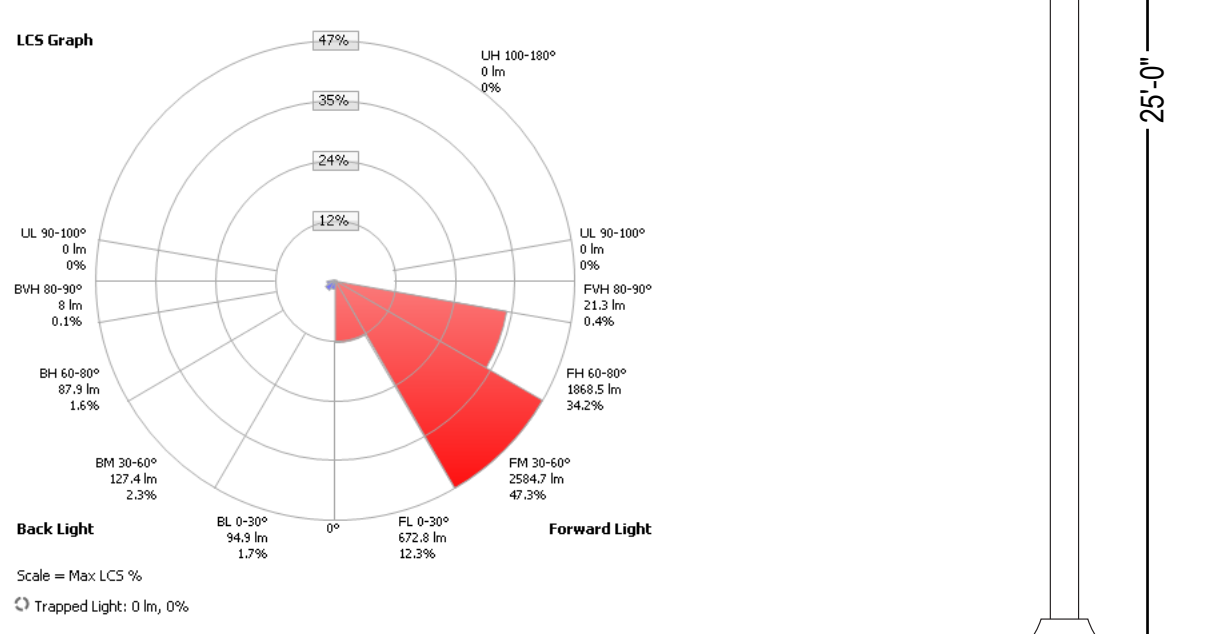
5 N1E LIGHT FIXTURE DETAILS
SCALE: NTS



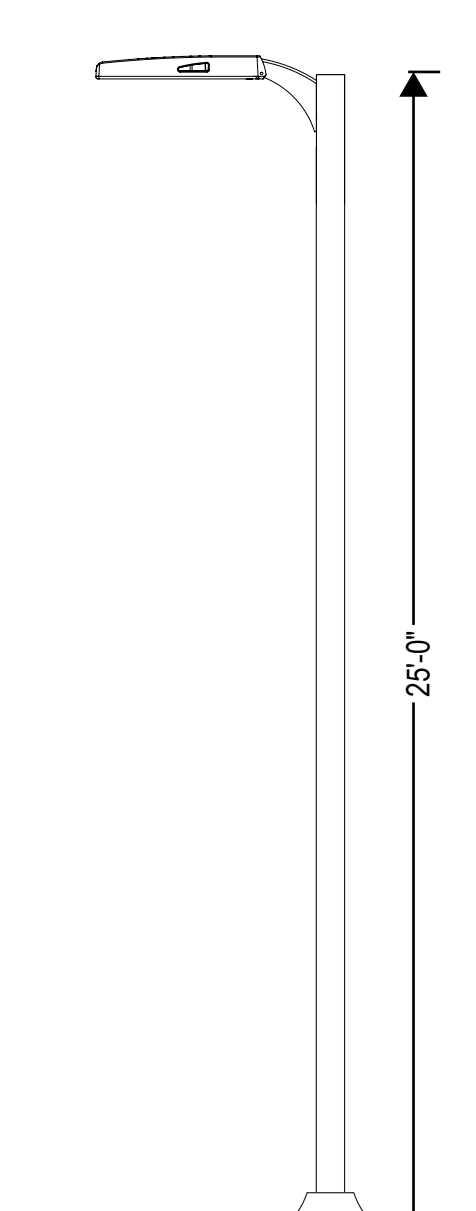
Manufacturer: NLS LIGHTING
Test #: L12221061
Test Lab: LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Catalog: NV-113-32L-7-40K7-HSS
Description: NV-113 site fixture with version 1 backs shields
Lamp Output: Total Luminaire Lumens: 5664.8, absolute photometry *
Ballast / Driver: Advance Xtreme X220C100V200A1
Input Voltage: 72
Luminous Opening: Rectangle (L: 14.04", W: 14.04")
Max Cd: 8,077.5 at Horizontal: 65°, Vertical: 70°
Roadway Class: MEDIUM, TYPE III

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	672.8	12.3%
Medium(30-60)	2,584.7	47.3%
High(60-90)	1,988.5	34.2%
Very High(90-90)	21.3	0.4%
Low(0-30)	94.9	1.7%
Medium(30-60)	127.4	2.3%
High(60-90)	87.5	1.6%
Very High(90-90)	8.0	0.1%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.000	0%



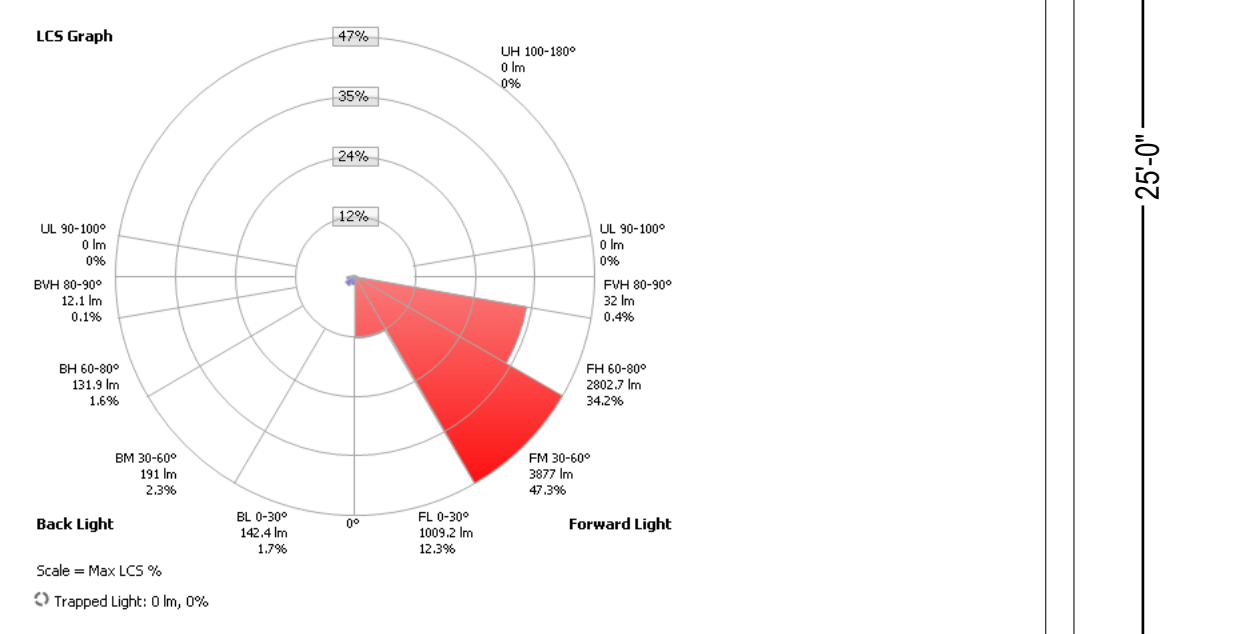
2 N1B LIGHT FIXTURE DETAILS
SCALE: NTS



Manufacturer: NLS LIGHTING
Test #: L12221061
Test Lab: LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Catalog: NV-173-32L-1-40K7-HSS
Description: NV-173 site fixture with version 1 backs shields
Lamp Output: Total Luminaire Lumens: 8197.1, absolute photometry *
Ballast / Driver: Advance Xtreme X220C100V200A1
Input Voltage: 106
Luminous Opening: Rectangle (L: 14.04", W: 14.04")
Max Cd: 12,116.0 at Horizontal: 65°, Vertical: 70°
Roadway Class: MEDIUM, TYPE III

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	1,059.2	12.3%
Medium(30-60)	3,877.8	37.5%
High(60-90)	2,802.7	34.2%
Very High(90-90)	32.0	0.4%
Low(0-30)	142.4	1.7%
Medium(30-60)	191.8	2.3%
High(60-90)	131.9	1.6%
Very High(90-90)	12.1	0.1%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.000	0%

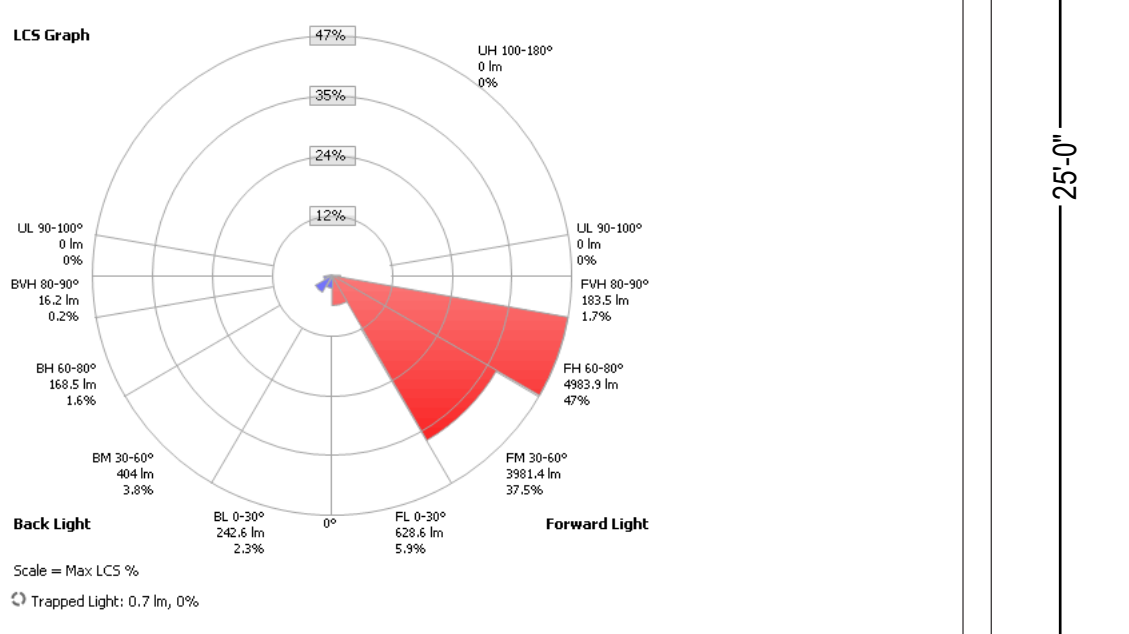


7 N1G LIGHT FIXTURE DETAILS
SCALE: NTS

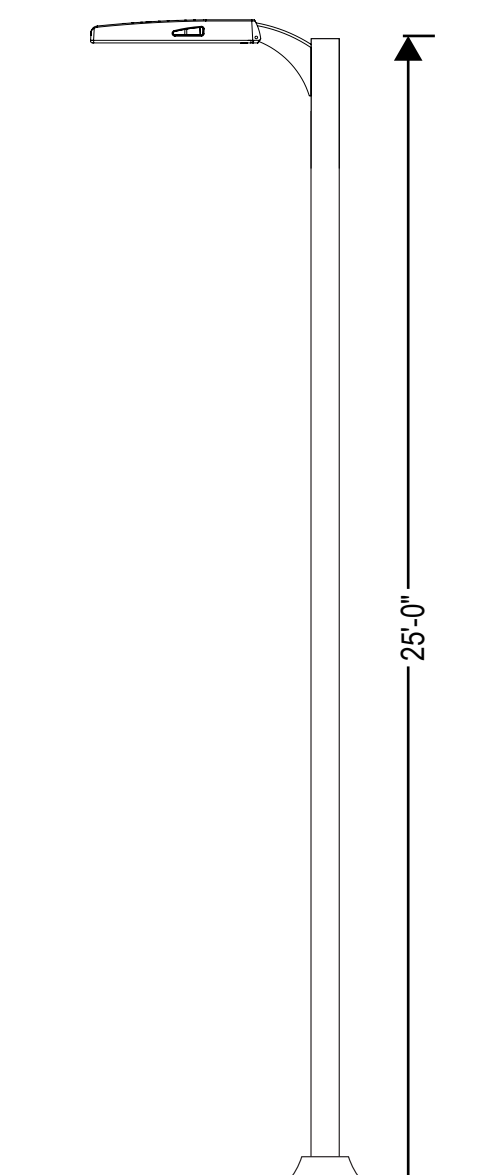
Manufacturer: NLS LIGHTING
Test #: 8022939-150
Test Lab: CSA GROUP
Catalog: NV-174FTW-4BL-1-40K7-HSS
Description: OUTDOOR AREA LIGHT
Lamp Output: Total Luminaire Lumens: 10669.4, absolute photometry *
Ballast / Driver: 156
Input Voltage: 156
Luminous Opening: Rectangle (L: 9.48", W: 10.87")
Max Cd: 6,403.6 at Horizontal: 40°, Vertical: 70°
Roadway Class: SHORT, TYPE IV

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	628.6	5.9%
Medium(30-60)	3,981.4	37.5%
High(60-90)	4,983.9	47%
Very High(90-90)	183.5	1.7%
Low(0-30)	242.6	2.3%
Medium(30-60)	404.0	3.8%
High(60-90)	168.5	1.6%
Very High(90-90)	16.2	0.2%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.7	0%



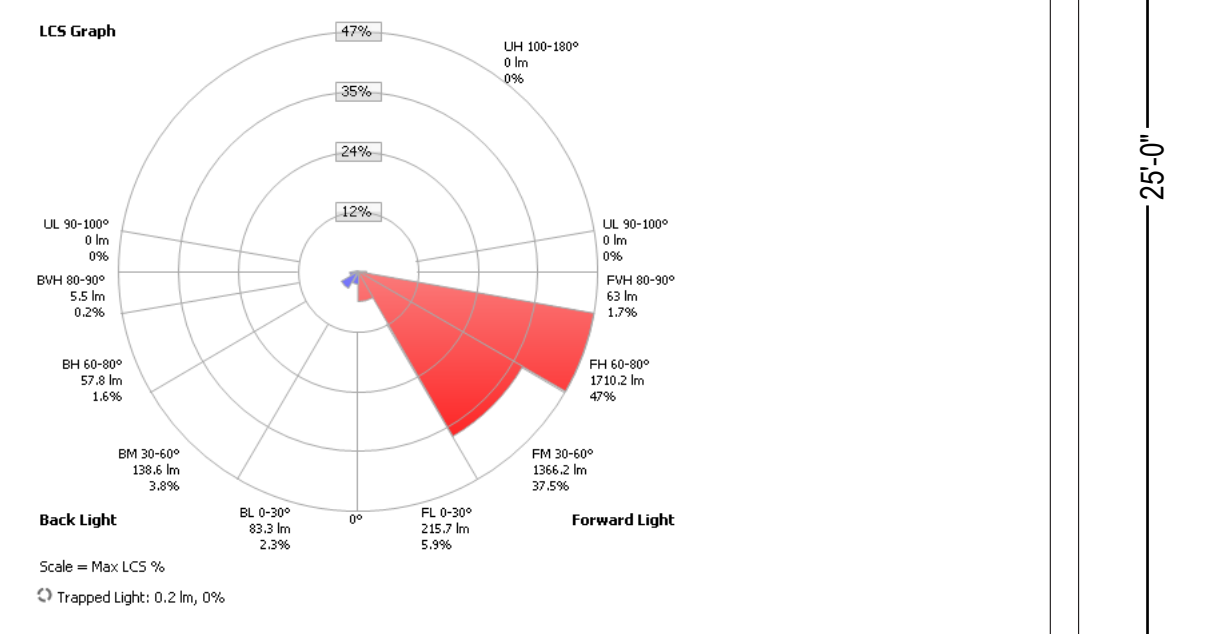
4 N1D LIGHT FIXTURE DETAILS
SCALE: NTS



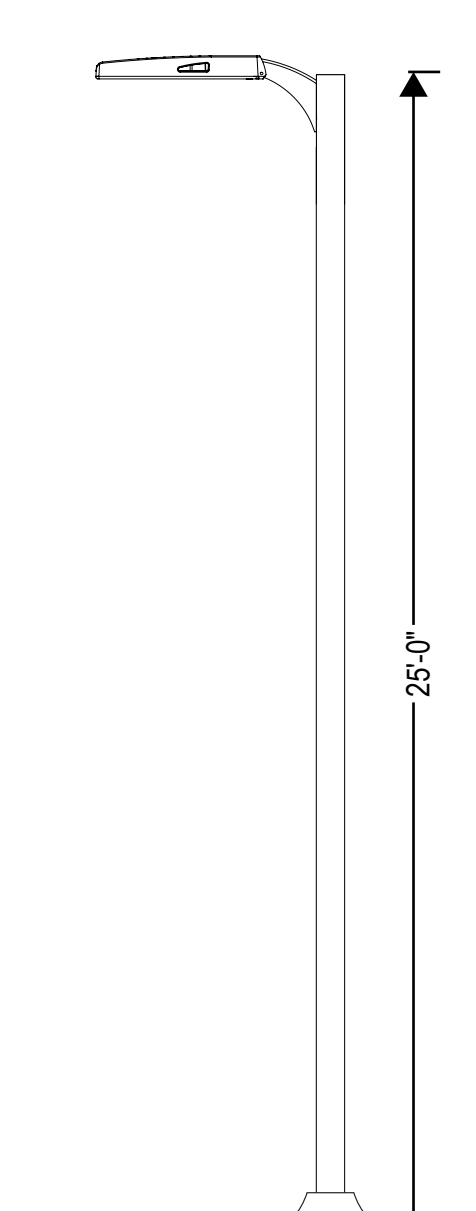
OUTDOOR PHOTOMETRIC REPORT
CATALOG: NV-174FTW-16L-1-40K7-HSS
Manufacturer: NLS LIGHTING
Test #: 8022939-150
Test Lab: CSA GROUP
Catalog: NV-174FTW-16L-1-40K7-HSS
Description: OUTDOOR AREA LIGHT
Lamp Output: Total Luminaire Lumens: 3640.5, absolute photometry *
Ballast / Driver: 56
Input Voltage: 56
Luminous Opening: Rectangle (L: 9.48", W: 10.87")
Max Cd: 3,206.7 at Horizontal: 40°, Vertical: 70°
Roadway Class: SHORT, TYPE IV

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	215.7	5.9%
Medium(30-60)	1,366.2	37.5%
High(60-90)	1,710.2	47%
Very High(90-90)	63.0	1.7%
Low(0-30)	83.3	2.3%
Medium(30-60)	138.6	3.8%
High(60-90)	57.8	1.6%
Very High(90-90)	5.5	0.2%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.2	0%



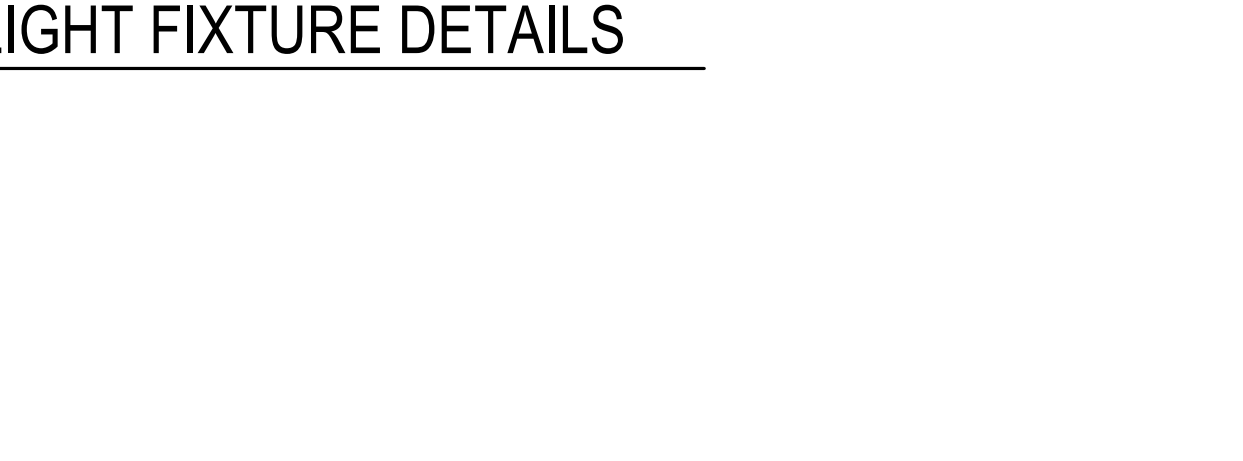
1 N1A LIGHT FIXTURE DETAILS
SCALE: NTS



Manufacturer: NLS LIGHTING
Test #: 8022939-147
Test Lab: CSA GROUP
Catalog: NV-174FTW-32L-1A-40K7
Description: OUTDOOR AREA LIGHT
Lamp Output: Total Luminaire Lumens: 6480.6, absolute photometry *
Ballast / Driver: X1100C110V438BY1
Input Voltage: 54
Luminous Opening: Rectangle (L: 3.48", W: 8.28")
Max Cd: 4,473.0 at Horizontal: 40°, Vertical: 72.5°
Roadway Class: SHORT, TYPE IV

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	360.4	5.6%
Medium(30-60)	1,966.1	30.3%
High(60-90)	2,804.9	43.3%
Very High(90-90)	122.7	1.7%
Low(0-30)	227.6	3.5%
Medium(30-60)	561.5	8.3%
High(60-90)	414.9	6.4%
Very High(90-90)	31.9	0.5%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.6	0%



7 WM-A LIGHT FIXTURE DETAILS
SCALE: NTS

Manufacturer: NLS LIGHTING
Test #: 8022939-150
Test Lab: CSA GROUP
Catalog: NV-174FTW-4BL-1-40K7-HSS
Description: OUTDOOR AREA LIGHT
Lamp Output: Total Luminaire Lumens: 10669.4, absolute photometry *
Ballast / Driver: 156
Input Voltage: 156
Luminous Opening: Rectangle (L: 9.48", W: 10.87")
Max Cd: 6,403.6 at Horizontal: 40°, Vertical: 70°
Roadway Class: SHORT, TYPE IV

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	628.6	5.9%
Medium(30-60)	3,981.4	37.5%
High(60-90)	4,983.9	47%
Very High(90-90)	183.5	1.7%
Low(0-30)	242.6	2.3%
Medium(30-60)	404.0	3.8%
High(60-90)	168.5	1.6%
Very High(90-90)	16.2	0.2%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.7	0%



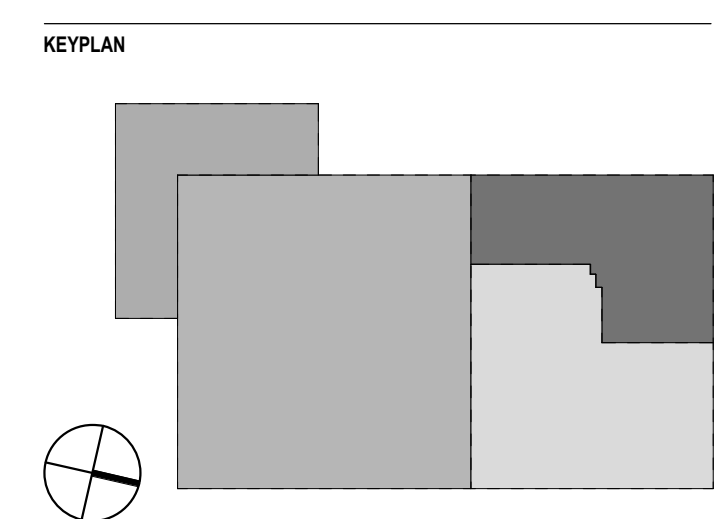
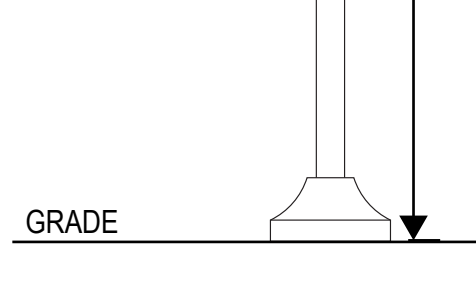
4 N1D LIGHT FIXTURE DETAILS
SCALE: NTS

Manufacturer: NLS LIGHTING
Test #: 8022939-150
Test Lab: CSA GROUP
Catalog: NV-174FTW-16L-1-40K7-HSS
Description: OUTDOOR AREA LIGHT
Lamp Output: Total Luminaire Lumens: 3640.5, absolute photometry *
Ballast / Driver: 56
Input Voltage: 56
Luminous Opening: Rectangle (L: 9.48", W: 10.87")
Max Cd: 3,206.7 at Horizontal: 40°, Vertical: 70°
Roadway Class: SHORT, TYPE IV

LCS Table
BUG Rating
Forward Light
Back Light
Uplight
Trapped Light

BUG Rating	Lumens	Lumens %
Low(0-30)	215.7	5.9%
Medium(30-60)	1,366.2	37.5%
High(60-90)	1,710.2	47%
Very High(90-90)	63.0	1.7%
Low(0-30)	83.3	2.3%
Medium(30-60)	138.6	3.8%
High(60-90)	57.8	1.6%
Very High(90-90)	5.5	0.2%
Low(90-100)	0.000	0%
High(100-180)	0.000	0%
Trapped Light	0.2	0%

1 N1A LIGHT FIXTURE DETAILS
SCALE: NTS



REVISION HISTORY

REVISION	DESCRIPTION	DATE
A	DFT SUBMISSION	13 FEB 2026

PROFESSIONAL SEALS

INTERIM REVIEW
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IT IS NOT TO BE USED FOR REGULATORY APPROVAL, BIDDING, PERMIT, OR CONSTRUCTION PURPOSES.

CLIENT

PROJECT
Project Solis
Mesa Del Sol Innovation Park II, Tract J
Albuquerque, NM 87105

PROJECT NUMBER	ABBREVIATION
25.1040.000	Sols

DRAWN BY	CHECKED BY
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