

NLOS

SURF LED Regressed Edge-Lit Surface Mount

Source: 11W to 14W LED

Up to 1150lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

SURF LED Surface Mount luminaires are only $\frac{1}{16}$ " thick surface with DC driver mounted on the back. Luminaires resemble appearance of a recessed downlight. The specially designed regressed light guide with embedded honeycomb lens produces even illumination while reducing glare. Series is available in square and round in 4", 6" or 7". SURF mounts easily over a standard or fire rated junction boxes.

FEATURES

- Over 80% energy savings when compared to incandescent
- No housing needed, surface mounted over junction box
- Square and round sizes
- Edge-lit LEDs for uniform clean appearance
- 2700K, 3000K, 3500K, 4000K or 5000K
- 5-year limited warranty

SPECIFICATION

Construction: Surface mounted LED edge-lit downlight adopts compact slim and elegant design. The special diffuser can increase central candela intensity by more than 30%, provide soft and comfortable light. $\frac{1}{16}$ " deep polycarbonate regressed baffle trim.

Lens: Nora specified and designed edge-lit regressed light guide with embedded honeycomb lens greatly reduces aperture brightness while evenly distributing light.

Installation: Aluminum backplate attaches to junction box bracket (included) for seamless flush appearance.

Note: Make sure 4" octagonal junction box has minimum 1- $\frac{1}{2}$ " height

ELECTRICAL	NLOS-R42L	NLOS-S42L	NLOS-R72L	NLOS-S62L
Input Voltage	120VAC			
Input Power	11W		14W	
Color Temperature	2700K, 3000K, 3500K, 4000K, 5000K			
Color Rendering Index	90+ CRI			
Dimming	Triac / ELV			
Operating Temperature	0° to 45°C			

LABELS AND LISTINGS

- cULus Listed for Wet Location
- [5-Year Limited Warranty](#)
- FCC compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- Suitable for use in closets when installed in accordance to NEC Section 410.16 (A)(1) and 410.16 (C)(1).



SURF LED Regressed Edge-Lit Surface Mount

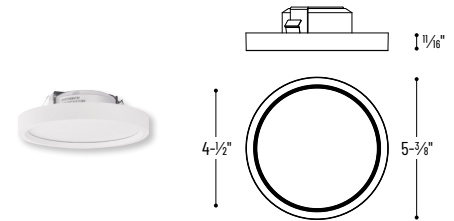
Luminaire Size / Shape	Color Temperature	Finish
NLOS-R42L = 4" Round	27 = 2700K	WW = White
NLOS-S42L = 4" Square	30 = 3000K	
NLOS-S62L = 6" Square	35 = 3500K	
NLOS-R72L = 7" Round	40 = 4000K	
	50 = 5000K	

Performance Data

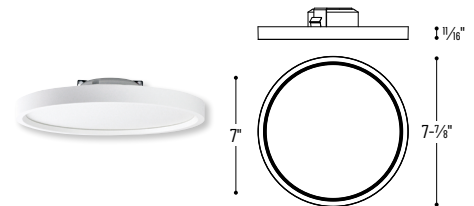
Part Number	Lumens	CCT
NLOS-R42L40WW	854lm	5000K
NLOS-S42L40WW	781lm	5000K
NLOS-R72L40WW	1120lm	5000K
NLOS-S62L40WW	1150lm	5000K

Delivered lumens will vary depending on color temperature

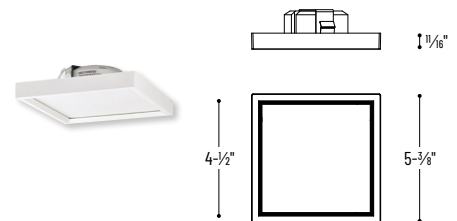
PRODUCT IMAGES AND DIMENSIONS



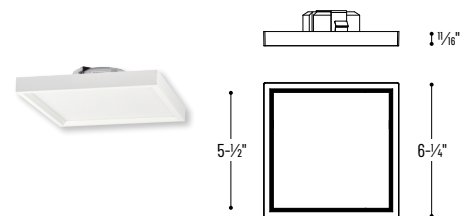
NLOS-R42L
4" Round SURF



NLOS-R72L
7" Round SURF



NLOS-S42L
4" Square SURF



NLOS-S62L
6" Square SURF

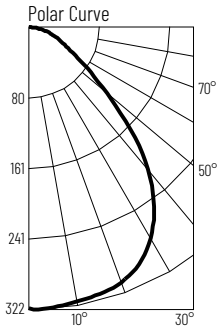
Example: NLOS-R42L27WW = 4" Round SURF LED Regressed Edge-Lit Surface Mount, 2700K, White finish

PHOTOMETRICS

4" Round SURF LED Regressed Edge-Lit Surface Mount

Type
Project
Catalog No.
Notes

Test Information
Test Number: NTR11284R1
Part Number: NLOS-R42L27WW
Beam Spread: 85° Wide Flood
Lumens: 609lm
Wattage: 10.7W
Efficacy: 57lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	20.1fc	7'-4"
6'	8.9fc	10'-11"
8'	5fc	14'-7"
10'	3.2fc	18'-2"
12'	2.2fc	21'-11"

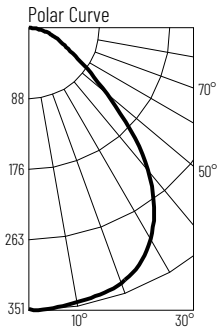
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	200	32.8
0-40	321	52.6
0-60	536	87.9
0-90	609	100
90-180	0	0
0-180	609	100

Candela Table

Vertical Angles	Candela
0	322
5	318
15	303
25	271
35	215
45	139

Test Information
Test Number: NTR11254R1
Part Number: NLOS-R42L30WW
Beam Spread: 89° Wide Flood
Lumens: 730lm
Wattage: 10.42W
Efficacy: 70lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 1.24
Spacing Criteria (90°-270°): 1.24



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	22fc	7'-11"
6'	9.8fc	11'-10"
8'	5.5fc	15'-8"
10'	3.5fc	19'-8"
12'	2.4fc	23'-7"

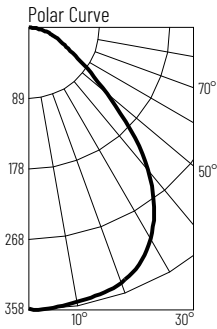
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	227	31
0-40	373	51.1
0-60	638	87.4
0-90	730	100
90-180	0	0
0-180	730	100

Candela Table

Vertical Angles	Candela
0	351
5	349
15	339
25	317
35	263
45	171

Test Information
Test Number: NTR11258R1
Part Number: NLOS-R42L35WW
Beam Spread: 90° Wide Flood
Lumens: 766lm
Wattage: 10.38W
Efficacy: 74lpw
CCT / CRI: 3500K / 90 CRI
Spacing Criteria (0°-180°): 1.28
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	22.3fc	8'-1"
6'	9.9fc	12'-1"
8'	5.6fc	16'-1"
10'	3.6fc	20'-1"
12'	2.5fc	24'-2"

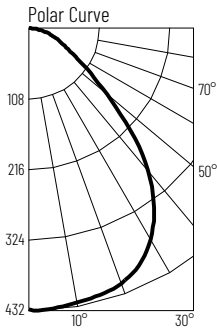
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	284	37.1
0-40	456	59.5
0-60	678	88.6
0-90	766	100
90-180	0	0
0-180	766	100

Candela Table

Vertical Angles	Candela
0	358
5	355
15	349
25	332
35	279
45	181

Test Information
Test Number: NTR112587
Part Number: NLOS-R42L40WW
Beam Spread: 84° Wide Flood
Lumens: 812lm
Wattage: 10.5W
Efficacy: 77lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.14
Spacing Criteria (90°-270°): 1.14



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	27fc	7'-2"
6'	12fc	10'-10"
8'	6.8fc	14'-5"
10'	4.3fc	18'
12'	3fc	21'-7"

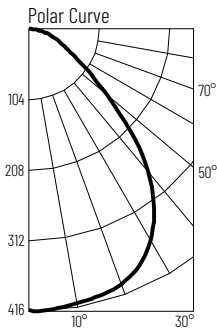
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	268	33
0-40	429	52.9
0-60	713	87.8
0-90	812	100
90-180	0	0
0-180	812	100

Candela Table

Vertical Angles	Candela
0	432
5	427
15	406
25	361
35	284
45	182

Test Information
Test Number: NTR11288R1
Part Number: NLOS-R42L50WW
Beam Spread: 89° Wide Flood
Lumens: 854lm
Wattage: 10.4W
Efficacy: 82lpw
CCT / CRI: 5000K / 90 CRI
Spacing Criteria (0°-180°): 1.24
Spacing Criteria (90°-270°): 1.22



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	26fc	7'-10"
6'	11.6fc	11'-8"
8'	6.5fc	15'-7"
10'	4.2fc	19'-6"
12'	2.9fc	23'-5"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	267	31.3
0-40	439	51.4
0-60	750	87.8
0-90	854	100
90-180	0	0
0-180	854	100

Candela Table

Vertical Angles	Candela
0	416
5	413
15	400
25	372
35	308
45	200

PHOTOMETRICS

4" Square SURF LED Regressed Edge-Lit Surface Mount

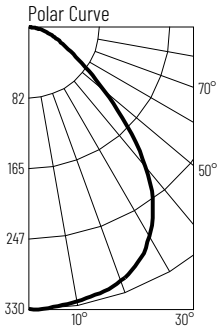
Type

Project

Catalog No.

Notes

Test Information
Test Number: NTR1810R1
Part Number: NLOS-S42L27WW
Beam Spread: 84° Wide Flood
Lumens: 616lm
Wattage: 10.34W
Efficacy: 60lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.14

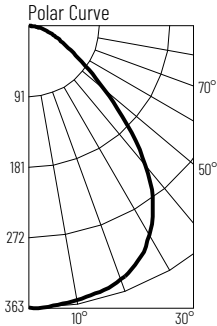


Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	20.6fc	7'-2"
6'	9.2fc	10'-11"
8'	5.2fc	14'-6"
10'	3.3fc	18'-1"
12'	2.3fc	21'-8"

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	204	33.2
0-40	327	53.1
0-60	544	88.3
0-90	616	100
90-180	0	0
0-180	616	100

Candela Table	
Vertical Angles	Candela
0	330
5	326
15	309
25	276
35	219
45	141

Test Information
Test Number: NTR1811R1
Part Number: NLOS-S42L30WW
Beam Spread: 85° Wide Flood
Lumens: 702lm
Wattage: 10.5W
Efficacy: 67lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16

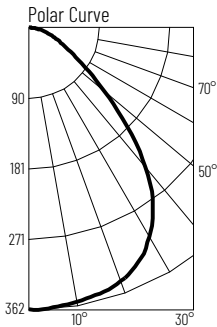


Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	22.7fc	7'-5"
6'	10.1fc	11'-1"
8'	5.7fc	14'-8"
10'	3.6c	18'-5"
12'	2.5fc	22'-1"

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	228	32.5
0-40	366	52.2
0-60	616	87.8
0-90	702	100
90-180	0	0
0-180	702	100

Candela Table	
Vertical Angles	Candela
0	363
5	360
15	346
25	310
35	245
45	160

Test Information
Test Number: NTR1812R1
Part Number: NLOS-S42L35WW
Beam Spread: 85° Wide Flood
Lumens: 695lm
Wattage: 10.2W
Efficacy: 68lpw
CCT / CRI: 3500K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16

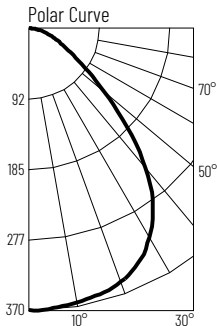


Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	22.6fc	7'-4"
6'	10.1fc	11'
8'	5.7fc	14'-8"
10'	3.6fc	18'-4"
12'	2.5fc	22'

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	227	32.7
0-40	364	52.4
0-60	610	87.7
0-90	695	100
90-180	0	0
0-180	695	100

Candela Table	
Vertical Angles	Candela
0	362
5	359
15	344
25	307
35	241
45	157

Test Information
Test Number: NTR1813R1
Part Number: NLOS-S42L40WW
Beam Spread: 90° Wide Flood
Lumens: 778lm
Wattage: 10.51W
Efficacy: 74lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26

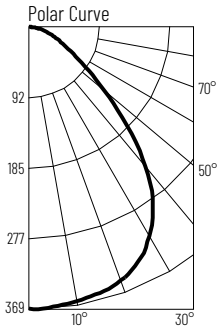


Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	23.1fc	8'
6'	10.3fc	11'-11"
8'	5.8fc	15'-11"
10'	3.7fc	19'-11"
12'	2.6fc	23'-11"

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	242	31.1
0-40	399	51.3
0-60	683	87.8
0-90	778	100
90-180	0	0
0-180	778	100

Candela Table	
Vertical Angles	Candela
0	370
5	368
15	360
25	340
35	284
45	183

Test Information
Test Number: NTR1814R1
Part Number: NLOS-S42L50WW
Beam Spread: 90° Wide Flood
Lumens: 781lm
Wattage: 10.42W
Efficacy: 75lpw
CCT / CRI: 5000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.28



Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	23.1fc	8'
6'	10.3fc	12'
8'	5.8fc	16'
10'	3.7fc	20'
12'	2.6fc	24'

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	293	37.5
0-40	425	54.5
0-60	694	88.9
0-90	781	100
90-180	0	0
0-180	781	100

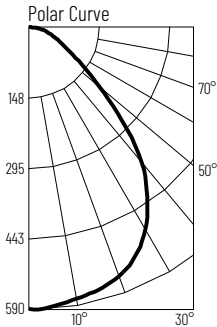
Candela Table	
Vertical Angles	Candela
0	369
5	367
15	359
25	339
35	283
45	184

PHOTOMETRICS

7" Round SURF LED Regressed Edge-Lit Surface Mount

Type
Project
Catalog No.
Notes

Test Information
Test Number: NTR1805R1
Part Number: NLOS-R72L27WW
Beam Spread: 85° Wide Flood
Lumens: 1139lm
Wattage: 14.18W
Efficacy: 80lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	36.9fc	7'-5"
6'	16.4fc	11'
8'	9.2fc	14'-8"
10'	5.9fc	18'-5"
12'	4.1fc	22'-1"

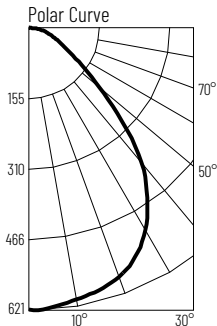
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	370	32.5
0-40	593	52.1
0-60	997	87.6
0-90	1139	100
90-180	0	0
0-180	1139	100

Candela Table

Vertical Angles	Candela
0	590
5	586
15	560
25	500
35	395
45	259

Test Information
Test Number: NTR1806R1
Part Number: NLOS-R72L30WW
Beam Spread: 85° Wide Flood
Lumens: 1183lm
Wattage: 14.5W
Efficacy: 82lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	38.8fc	7'-4"
6'	17.2fc	10'-11"
8'	9.7fc	14'-7"
10'	6.2fc	18'-2"
12'	4.3fc	21'-11"

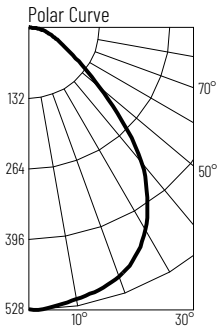
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	465	39.3
0-40	722	61
0-60	1053	89
0-90	1183	100
90-180	0	0
0-180	1183	100

Candela Table

Vertical Angles	Candela
0	621
5	617
15	592
25	526
35	416
45	269

Test Information
Test Number: NTR1807R1
Part Number: NLOS-R72L35WW
Beam Spread: 90° Wide Flood
Lumens: 1113lm
Wattage: 13.56W
Efficacy: 82lpw
CCT / CRI: 3500K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	33fc	7'-11"
6'	14.7fc	11'-11"
8'	8.3fc	15'-11"
10'	5.3fc	19'-11"
12'	3.7fc	23'-10"

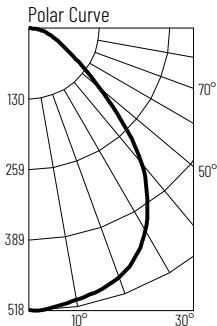
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	345	31
0-40	569	51.1
0-60	974	87.5
0-90	1113	100
90-180	0	0
0-180	1113	100

Candela Table

Vertical Angles	Candela
0	528
5	524
15	512
25	484
35	404
45	261

Test Information
Test Number: NTR1808R1
Part Number: NLOS-R72L40WW
Beam Spread: 89° Wide Flood
Lumens: 1093lm
Wattage: 13.34W
Efficacy: 82lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	32.4fc	7'-11"
6'	14.4fc	11'-11"
8'	8.1fc	15'-10"
10'	5.2fc	19'-10"
12'	3.6fc	23'-8"

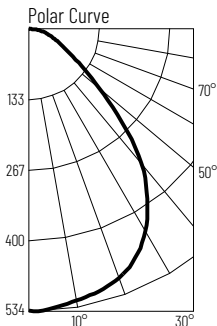
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	339	31
0-40	559	51.2
0-60	956	87.4
0-90	1093	100
90-180	0	0
0-180	1093	100

Candela Table

Vertical Angles	Candela
0	518
5	515
15	504
25	475
35	395
45	254

Test Information
Test Number: NTR1809R1
Part Number: NLOS-R72L50WW
Beam Spread: 89° Wide Flood
Lumens: 1120lm
Wattage: 13.46W
Efficacy: 83lpw
CCT / CRI: 5000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	33.4fc	7'-11"
6'	14.fc	11'-10"
8'	8.3fc	15'-8"
10'	5.3fc	19'-8"
12'	3.7fc	23'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	422	37.7
0-40	674	60.2
0-60	994	88.8
0-90	1120	100
90-180	0	0
0-180	1120	100

Candela Table

Vertical Angles	Candela
0	534
5	532
15	521
25	492
35	408
45	259

PHOTOMETRICS

6" Square SURF LED Regressed Edge-Lit Surface Mount

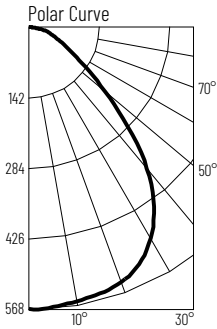
Type

Project

Catalog No.

Notes

Test Information
Test Number: NTR1815R1
Part Number: NLOS-S62L27WW
Beam Spread: 86° Wide Flood
Lumens: 1111lm
Wattage: 14.22W
Efficacy: 78lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180°): 1.18
Spacing Criteria (90°-270°): 1.18

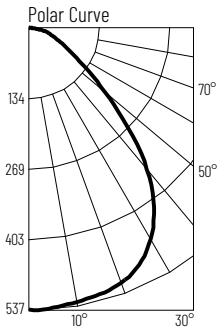


Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	35.5fc	7'-5"
6'	15.8fc	11'-1"
8'	8.9fc	14'-11"
10'	5.7fc	18'-7"
12'	4fc	22'-4"

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	433	38.9
0-40	675	60.8
0-60	988	89
0-90	1111	100
90-180	0	0
0-180	1111	100

Candela Table	
Vertical Angles	Candela
0	568
5	565
15	545
25	492
35	390
45	252

Test Information
Test Number: NTR1816R1
Part Number: NLOS-S62L30WW
Beam Spread: 85° Wide Flood
Lumens: 1036lm
Wattage: 14.43W
Efficacy: 72lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 1.16
Spacing Criteria (90°-270°): 1.16

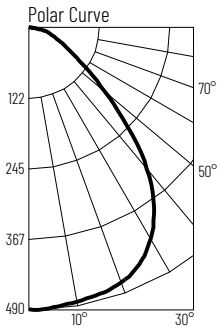


Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	33.6fc	7'-4"
6'	14.9fc	11'
8'	8.4fc	14'-8"
10'	5.4fc	18'-5"
12'	3.7fc	22'

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	403	38.9
0-40	628	60.6
0-60	921	88.8
0-90	1036	100
90-180	0	0
0-180	1036	100

Candela Table	
Vertical Angles	Candela
0	537
5	532
15	511
25	456
35	362
45	235

Test Information
Test Number: NTR1817R1
Part Number: NLOS-S62L35WW
Beam Spread: 90° Wide Flood
Lumens: 1040lm
Wattage: 13.49W
Efficacy: 77lpw
CCT / CRI: 3500K / 90 CRI
Spacing Criteria (0°-180°): 1.28
Spacing Criteria (90°-270°): 1.28

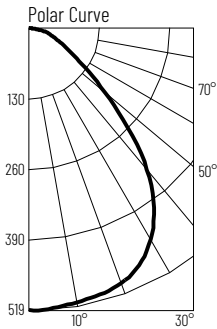


Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	30.6fc	7'-11"
6'	13.6fc	11'-11"
8'	7.7fc	15'-11"
10'	4.9fc	19'-11"
12'	3.4fc	23'-10"

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	390	37.5
0-40	626	60.2
0-60	924	88.9
0-90	1040	100
90-180	0	0
0-180	1040	100

Candela Table	
Vertical Angles	Candela
0	490
5	486
15	477
25	456
35	381
45	242

Test Information
Test Number: NTR1818R1
Part Number: NLOS-S62L40WW
Beam Spread: 89° Wide Flood
Lumens: 1088lm
Wattage: 13.8W
Efficacy: 79lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26

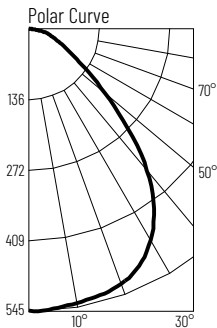


Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	32.5fc	7'-11"
6'	14.4fc	11'-10"
8'	8.1fc	15'-10"
10'	5.2fc	19'-8"
12'	3.6fc	23'-8"

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	411	37.7
0-40	656	60.3
0-60	967	88.9
0-90	1088	100
90-180	0	0
0-180	1088	100

Candela Table	
Vertical Angles	Candela
0	519
5	517
15	506
25	478
35	399
45	253

Test Information
Test Number: NTR1819R1
Part Number: NLOS-S62L50WW
Beam Spread: 90° Wide Flood
Lumens: 1150lm
Wattage: 13.65W
Efficacy: 84lpw
CCT / CRI: 5000K / 90 CRI
Spacing Criteria (0°-180°): 1.26
Spacing Criteria (90°-270°): 1.26



Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	34.1fc	7'-11"
6'	15.1fc	11'-11"
8'	8.5fc	15'-11"
10'	5.5fc	19'-10"
12'	3.8fc	23'-10"

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	433	37.6
0-40	693	60.2
0-60	1023	88.9
0-90	1150	100
90-180	0	0
0-180	1150	100

Candela Table	
Vertical Angles	Candela
0	545
5	541
15	529
25	503
35	420
45	268