

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P1067926

Luminaire Tested: **NAV-SA3B-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067926
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3B-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9680.6 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 106.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



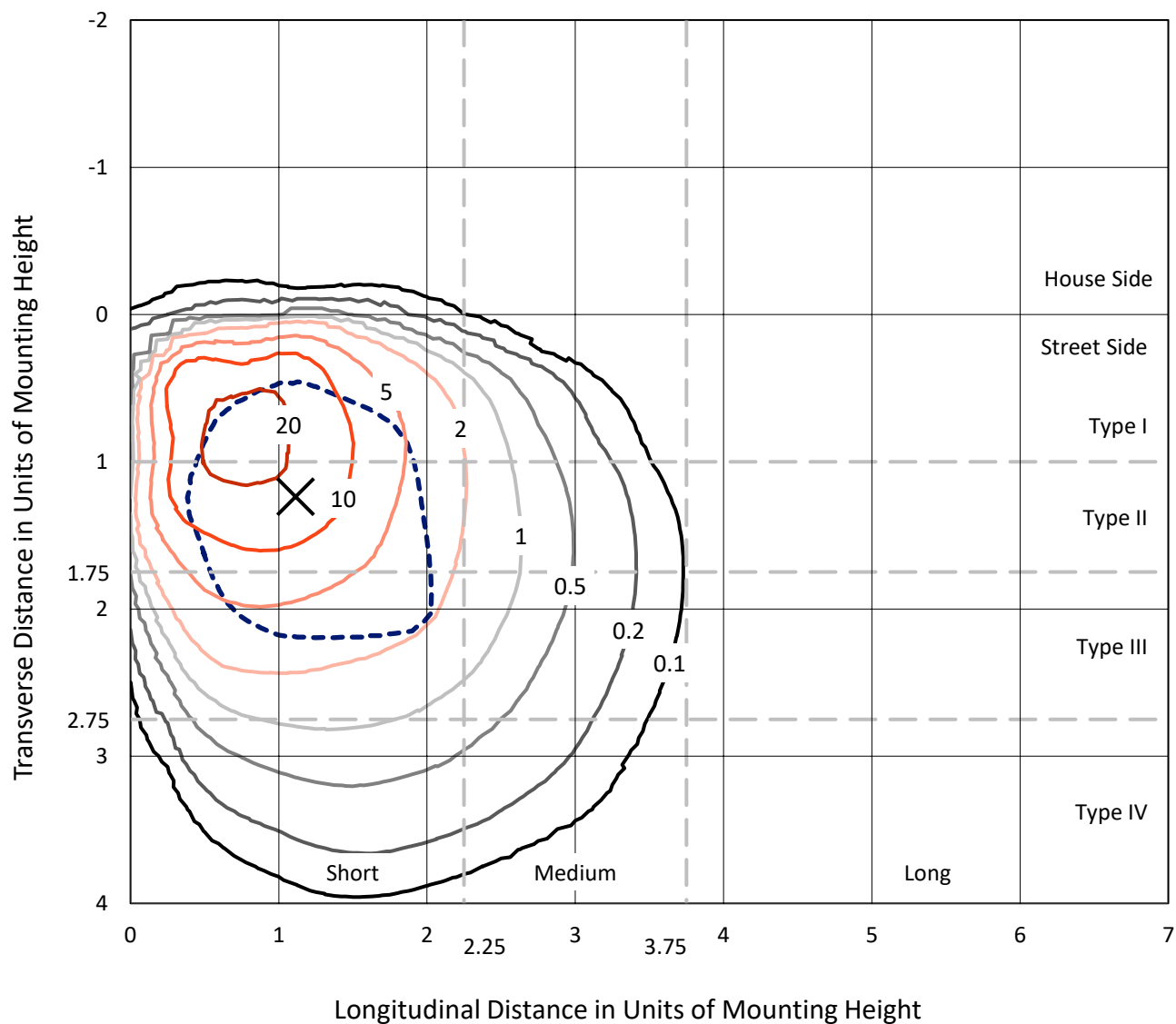
REPORT NUMBER: P1067926

CATALOG NUMBER: NAV-SA3B-727-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

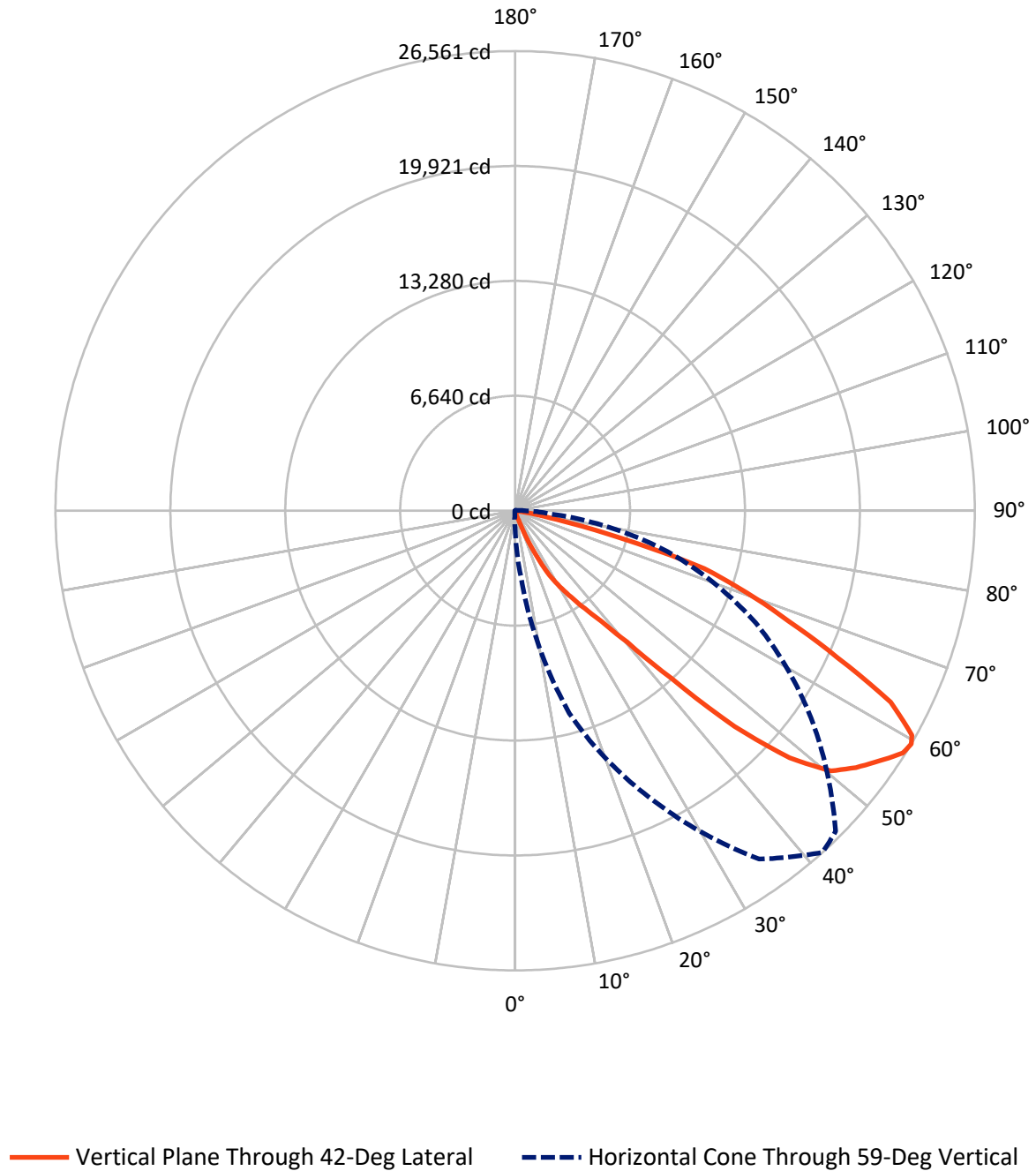


Based on 15 foot mounting height. Maximum calculated value = 28.8 fc
 Type III - Short - N/A

REPORT NUMBER: P1067926

CATALOG NUMBER: NAV-SA3B-727-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067926

CATALOG NUMBER: NAV-SA3B-727-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46.6	0.0	46.6
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	9633.9	0.0	9633.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	9680.6	0.0	9680.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.0
10°-20°	14.1	0.1
20°-30°	180.6	1.9
30°-40°	608.8	6.3
40°-50°	1838.8	19.0
50°-60°	3245.9	33.5
60°-70°	2858.1	29.5
70°-80°	909.7	9.4
80°-90°	21.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9680.6	100.0
0°-180°	9680.6	100.0



REPORT NUMBER: P1067926

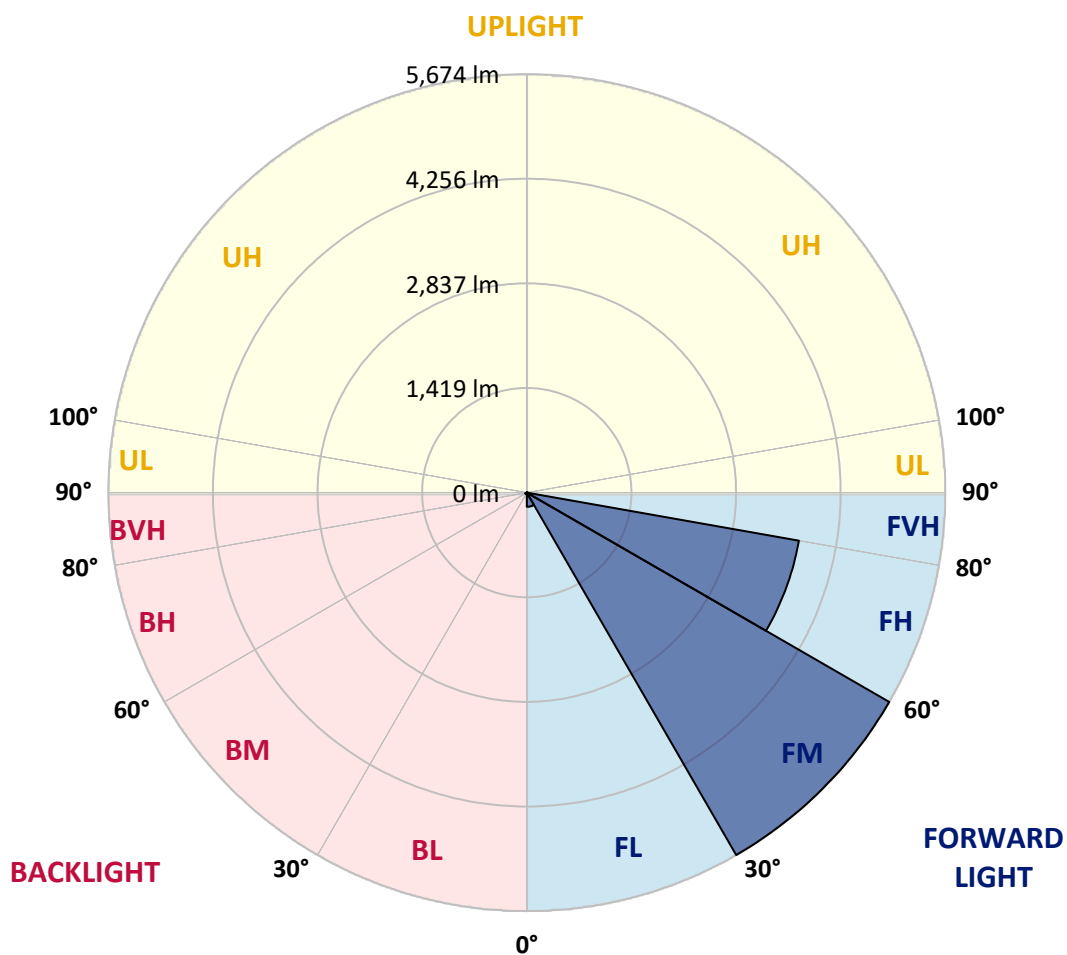
CATALOG NUMBER: NAV-SA3B-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	192.3	2.0			
FM	(30°-60°)	5674.4	58.6			
FH	(60°-80°)	3746.5	38.7			G2/5000
FVH	(80°-90°)	20.7	0.2			G1/100
BL	(0°-30°)	5.2	0.1	B0/110		
BM	(30°-60°)	19.1	0.2	B0/220		
BH	(60°-80°)	21.3	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



REPORT NUMBER: P1067926

CATALOG NUMBER: NAV-SA3B-727-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	42.5	42.5	39.5	36.4	33.4	30.4	30.4	30.4	27.3	27.3	24.3
5°	48.6	48.6	45.5	42.5	42.5	39.5	39.5	36.4	33.4	33.4	30.4
7.5°	51.6	51.6	51.6	51.6	48.6	48.6	48.6	45.5	42.5	39.5	36.4
10°	54.6	57.7	60.7	60.7	60.7	60.7	60.7	57.7	51.6	48.6	42.5
12.5°	60.7	63.7	69.8	75.9	75.9	78.9	75.9	72.8	66.8	57.7	48.6
15°	66.8	72.8	82.0	94.1	106.2	109.3	109.3	100.2	88.0	69.8	57.7
17.5°	75.9	85.0	109.3	148.7	191.2	224.6	224.6	200.3	139.6	91.1	66.8
20°	82.0	100.2	176.0	358.2	546.3	686.0	658.6	582.8	312.6	142.7	72.8
22.5°	91.1	127.5	373.3	940.9	1456.9	1711.8	1651.1	1253.5	701.1	255.0	88.0
25°	103.2	185.1	740.6	1763.4	2707.4	2983.6	2944.1	2340.1	1277.8	428.0	112.3
27.5°	127.5	273.2	1186.8	2674.0	3994.3	4231.0	4215.9	3426.7	2042.7	689.0	145.7
30°	160.9	397.6	1760.4	3633.1	4847.2	5087.0	5011.1	4221.9	2755.9	1053.2	188.2
32.5°	200.3	555.4	2279.4	4340.3	5633.3	5949.0	5857.9	4914.0	3329.6	1362.8	279.2
35°	261.0	710.2	2792.4	4965.6	6540.8	6941.5	6789.7	5627.2	3824.3	1711.8	336.9
37.5°	291.4	801.3	3262.8	5645.4	7560.6	8107.0	7991.6	6528.7	4328.2	2158.0	412.8
40°	294.4	910.6	3751.5	6531.7	9002.4	9976.7	9770.3	8076.6	5266.0	2731.7	531.2
42.5°	303.5	1074.5	4385.8	8043.2	11834.2	13233.4	12999.7	10923.6	7393.7	3882.0	752.7
45°	346.0	1384.0	5678.8	10869.0	15722.3	17774.0	17503.9	14890.6	10365.2	6046.1	1283.9
47.5°	494.7	2082.1	7946.1	13919.4	19698.4	21334.3	21267.5	18016.9	13057.4	8264.8	2176.2
50°	795.2	3196.1	10526.0	16484.1	22229.7	23635.0	23468.1	19322.0	14593.2	9779.4	2789.3
52.5°	1062.3	4261.4	12146.8	17428.0	22985.5	24660.9	24457.5	19798.5	14996.9	10225.5	2959.3
55°	1129.1	4646.9	12629.4	17719.4	23486.3	25528.9	25234.5	20117.2	15048.5	9906.8	2677.0
57.5°	1095.7	4282.6	12316.8	18004.7	24184.4	26421.3	26029.8	20739.4	15221.5	9366.6	2227.8
59°	1038.0	3833.4	12122.5	18232.4	24569.8	26560.9	26193.7	20876.0	15336.8	9120.7	1954.7
60°	971.3	3529.9	11970.8	18381.1	24545.5	26342.4	25963.0	20812.3	15382.3	8908.3	1824.1
62.5°	749.7	2816.7	11752.2	18274.9	23012.8	24348.3	24132.8	19252.2	14714.6	8228.4	1438.7
65°	582.8	2155.0	10951.0	16298.9	19583.0	20481.4	20414.7	16302.0	12383.6	7093.2	1038.0
67.5°	461.3	1572.2	9260.4	13200.0	15755.7	17033.5	16984.9	13233.4	9400.0	5420.8	746.7
70°	376.4	1120.0	6349.6	9952.4	12602.1	14210.7	14140.9	10650.5	6965.8	3438.9	543.3
72.5°	318.7	716.3	3851.7	7503.0	10516.9	11436.6	11233.2	8592.6	5065.7	1872.7	431.0
75°	270.1	440.1	1909.1	4677.2	6264.6	6258.6	6055.2	4549.7	2719.5	916.6	343.0
77.5°	218.5	309.6	749.7	1283.9	1975.9	2446.4	2406.9	1611.7	813.4	267.1	212.5
80°	142.7	145.7	200.3	352.1	543.3	601.0	682.9	491.7	236.7	127.5	88.0
82.5°	63.7	69.8	91.1	115.3	115.3	106.2	94.1	69.8	51.6	42.5	21.2
85°	15.2	21.2	15.2	18.2	15.2	12.1	12.1	6.1	0.0	0.0	0.0
87.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1067926

CATALOG NUMBER: NAV-SA3B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	24.3	24.3	24.3	21.2	21.2	21.2	18.2	18.2	18.2	15.2	15.2
5°	30.4	27.3	24.3	24.3	21.2	21.2	18.2	15.2	15.2	15.2	12.1
7.5°	33.4	30.4	27.3	24.3	21.2	18.2	18.2	15.2	12.1	12.1	12.1
10°	39.5	36.4	30.4	24.3	21.2	18.2	15.2	15.2	12.1	9.1	9.1
12.5°	45.5	39.5	33.4	27.3	21.2	18.2	15.2	15.2	12.1	9.1	6.1
15°	51.6	45.5	36.4	27.3	21.2	18.2	15.2	15.2	9.1	6.1	3.0
17.5°	57.7	48.6	36.4	30.4	21.2	18.2	15.2	12.1	6.1	3.0	0.0
20°	60.7	51.6	39.5	30.4	21.2	18.2	15.2	9.1	3.0	0.0	0.0
22.5°	66.8	57.7	42.5	30.4	21.2	15.2	9.1	3.0	0.0	0.0	0.0
25°	78.9	60.7	42.5	30.4	21.2	15.2	6.1	0.0	0.0	0.0	0.0
27.5°	88.0	66.8	42.5	30.4	21.2	12.1	3.0	0.0	0.0	0.0	0.0
30°	103.2	72.8	45.5	30.4	21.2	9.1	3.0	0.0	0.0	0.0	0.0
32.5°	127.5	78.9	45.5	30.4	18.2	9.1	0.0	0.0	0.0	0.0	0.0
35°	154.8	91.1	45.5	30.4	18.2	9.1	0.0	0.0	0.0	0.0	0.0
37.5°	157.8	97.1	45.5	30.4	18.2	6.1	0.0	0.0	0.0	0.0	0.0
40°	163.9	91.1	48.6	30.4	18.2	6.1	0.0	0.0	0.0	0.0	0.0
42.5°	188.2	85.0	51.6	30.4	18.2	6.1	0.0	0.0	0.0	0.0	0.0
45°	279.2	88.0	51.6	33.4	18.2	9.1	0.0	0.0	0.0	0.0	0.0
47.5°	485.6	91.1	48.6	33.4	18.2	9.1	0.0	0.0	0.0	0.0	0.0
50°	622.2	106.2	48.6	36.4	21.2	6.1	0.0	0.0	0.0	0.0	0.0
52.5°	661.7	124.4	48.6	39.5	27.3	3.0	0.0	0.0	0.0	0.0	0.0
55°	643.5	145.7	51.6	42.5	33.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	594.9	157.8	54.6	45.5	36.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	543.3	166.9	63.7	48.6	36.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	500.8	176.0	66.8	51.6	36.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	403.7	188.2	72.8	60.7	30.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	352.1	197.3	75.9	66.8	27.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	321.7	203.4	82.0	69.8	24.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	297.4	200.3	88.0	66.8	21.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	270.1	191.2	106.2	60.7	18.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	242.8	173.0	115.3	54.6	12.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	176.0	145.7	106.2	48.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	75.9	78.9	75.9	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.2	18.2	15.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1067926

CATALOG NUMBER: NAV-SA3B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	15.2	15.2	15.2	15.2	18.2	18.2	24.3	30.4	36.4	39.5	39.5
5°	12.1	12.1	12.1	12.1	12.1	15.2	18.2	24.3	33.4	36.4	36.4
7.5°	9.1	9.1	9.1	9.1	9.1	9.1	15.2	21.2	30.4	33.4	36.4
10°	9.1	6.1	6.1	3.0	3.0	6.1	9.1	18.2	27.3	30.4	33.4
12.5°	6.1	3.0	3.0	0.0	0.0	3.0	6.1	15.2	24.3	27.3	30.4
15°	3.0	0.0	0.0	0.0	0.0	0.0	3.0	12.1	21.2	24.3	30.4
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	18.2	24.3	27.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	15.2	21.2	24.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	12.1	18.2	21.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	12.1	15.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	9.1	12.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	9.1	12.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	9.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	9.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	6.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1067926

CATALOG NUMBER: NAV-SA3B-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
2.5°	42.5	42.5	39.5	36.4	36.4	36.4	39.5	42.5	42.5	42.5
5°	39.5	39.5	36.4	36.4	36.4	36.4	39.5	45.5	48.6	48.6
7.5°	39.5	39.5	36.4	36.4	36.4	36.4	39.5	45.5	48.6	51.6
10°	36.4	36.4	36.4	36.4	33.4	36.4	39.5	45.5	54.6	54.6
12.5°	36.4	36.4	36.4	36.4	33.4	36.4	42.5	48.6	57.7	60.7
15°	36.4	36.4	36.4	33.4	33.4	36.4	42.5	51.6	60.7	66.8
17.5°	33.4	36.4	36.4	33.4	33.4	36.4	42.5	51.6	66.8	75.9
20°	30.4	33.4	36.4	33.4	33.4	33.4	42.5	51.6	69.8	82.0
22.5°	27.3	30.4	33.4	33.4	30.4	33.4	42.5	54.6	75.9	91.1
25°	24.3	27.3	27.3	30.4	30.4	33.4	42.5	54.6	78.9	103.2
27.5°	18.2	21.2	24.3	27.3	27.3	33.4	42.5	57.7	85.0	127.5
30°	15.2	18.2	21.2	24.3	27.3	33.4	42.5	57.7	91.1	160.9
32.5°	15.2	18.2	21.2	24.3	27.3	30.4	42.5	60.7	100.2	200.3
35°	12.1	15.2	18.2	24.3	24.3	30.4	42.5	60.7	109.3	261.0
37.5°	12.1	15.2	18.2	24.3	24.3	30.4	42.5	60.7	133.5	291.4
40°	9.1	12.1	15.2	24.3	24.3	30.4	45.5	63.7	136.6	294.4
42.5°	9.1	12.1	15.2	21.2	24.3	30.4	45.5	63.7	127.5	303.5
45°	9.1	12.1	15.2	24.3	27.3	33.4	45.5	66.8	124.4	346.0
47.5°	9.1	12.1	15.2	24.3	30.4	33.4	45.5	66.8	127.5	494.7
50°	9.1	12.1	15.2	24.3	33.4	33.4	45.5	66.8	139.6	795.2
52.5°	6.1	9.1	12.1	21.2	27.3	36.4	48.6	63.7	148.7	1062.3
55°	6.1	6.1	9.1	18.2	24.3	39.5	51.6	63.7	173.0	1129.1
57.5°	6.1	6.1	9.1	15.2	21.2	42.5	54.6	63.7	200.3	1095.7
59°	6.1	6.1	6.1	15.2	18.2	42.5	54.6	66.8	203.4	1038.0
60°	6.1	6.1	6.1	12.1	18.2	42.5	57.7	69.8	206.4	971.3
62.5°	3.0	3.0	3.0	12.1	15.2	42.5	63.7	85.0	212.5	749.7
65°	6.1	6.1	3.0	9.1	15.2	36.4	72.8	91.1	215.5	582.8
67.5°	6.1	6.1	6.1	12.1	15.2	36.4	75.9	94.1	215.5	461.3
70°	6.1	6.1	6.1	12.1	18.2	36.4	75.9	97.1	212.5	376.4
72.5°	6.1	6.1	6.1	12.1	18.2	33.4	69.8	100.2	203.4	318.7
75°	6.1	6.1	6.1	9.1	15.2	30.4	66.8	109.3	185.1	270.1
77.5°	6.1	6.1	6.1	6.1	12.1	24.3	60.7	121.4	163.9	218.5
80°	9.1	6.1	6.1	6.1	9.1	21.2	57.7	118.4	136.6	142.7
82.5°	9.1	6.1	6.1	3.0	6.1	15.2	45.5	91.1	69.8	63.7
85°	6.1	6.1	6.1	3.0	3.0	9.1	21.2	27.3	21.2	15.2
87.5°	6.1	6.1	6.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.02

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

TM-30-18

Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE\ R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison



Color Vector Graphics



Individual Sample Fidelity Index (R_{fi})

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)