

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: P1067910

Luminaire Tested: **NAV-SA5B-722-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067910
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5B-722-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14096.1 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 178.8
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

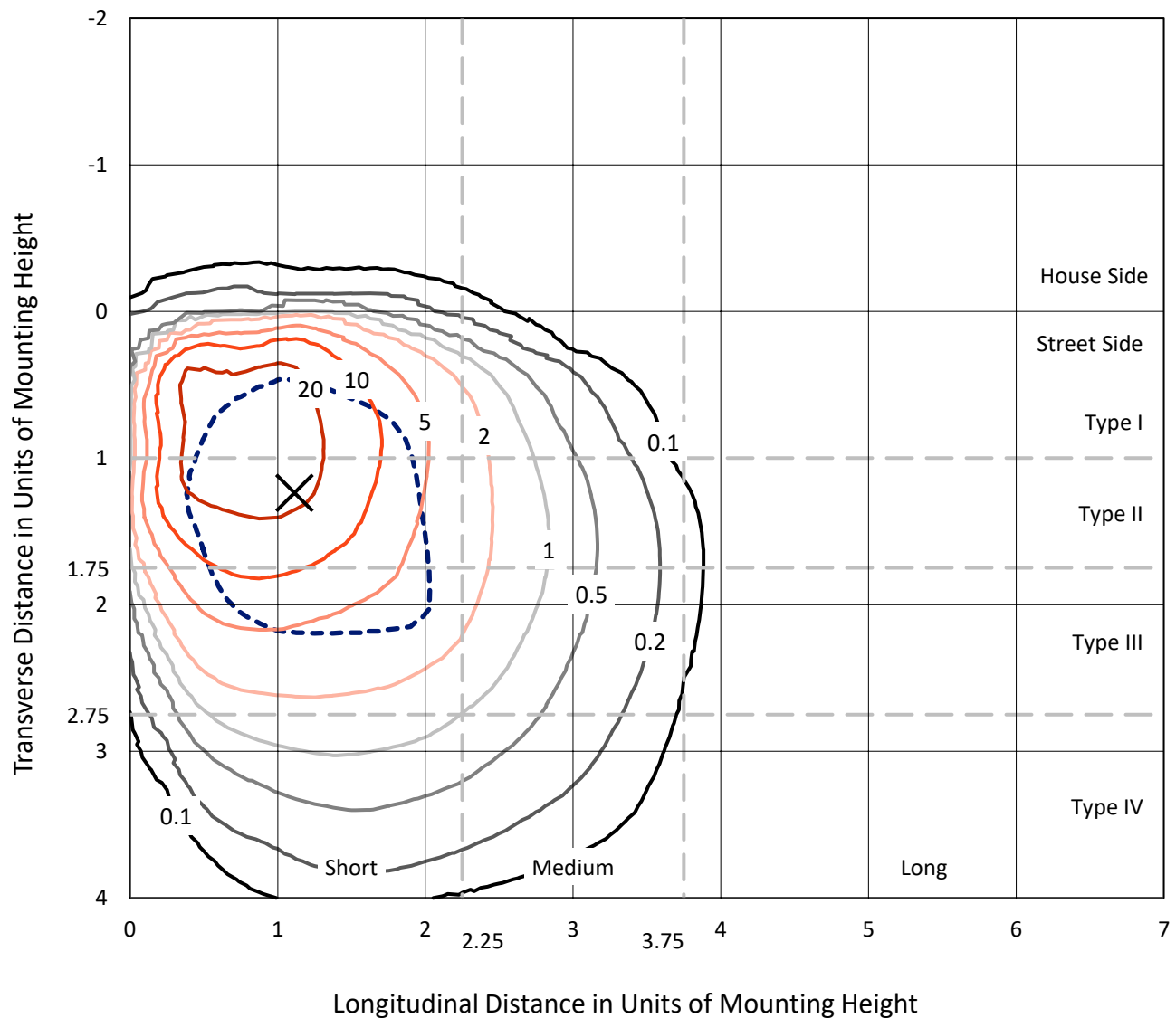


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

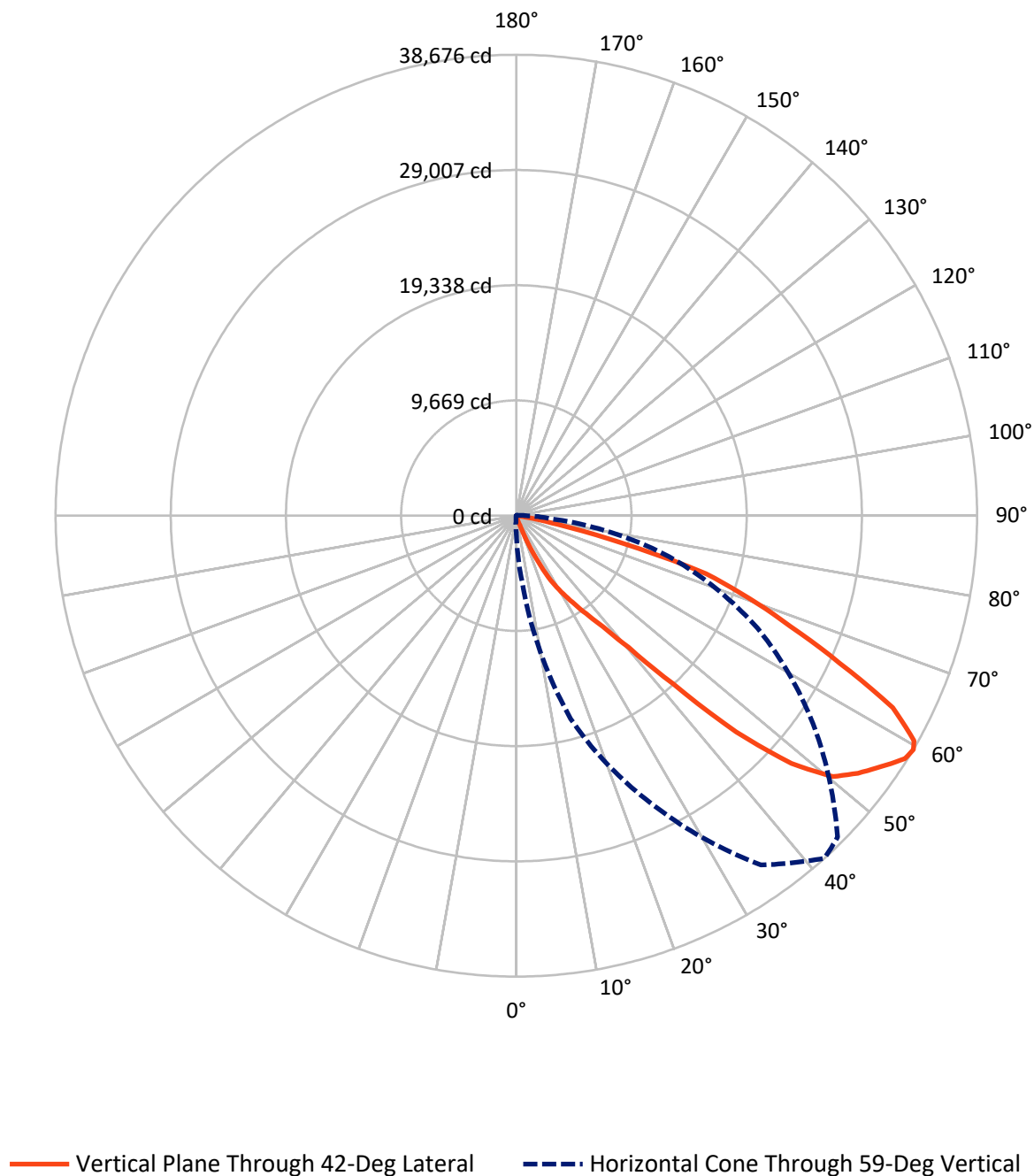


Based on 15 foot mounting height. Maximum calculated value = 41.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	67.9	0.0	67.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	14028.2	0.0	14028.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	14096.1	0.0	14096.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.0
10°-20°	20.6	0.1
20°-30°	262.9	1.9
30°-40°	886.5	6.3
40°-50°	2677.5	19.0
50°-60°	4726.4	33.5
60°-70°	4161.7	29.5
70°-80°	1324.7	9.4
80°-90°	31.7	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°	14096.1	100.0
0°-180°	14096.1	100.0



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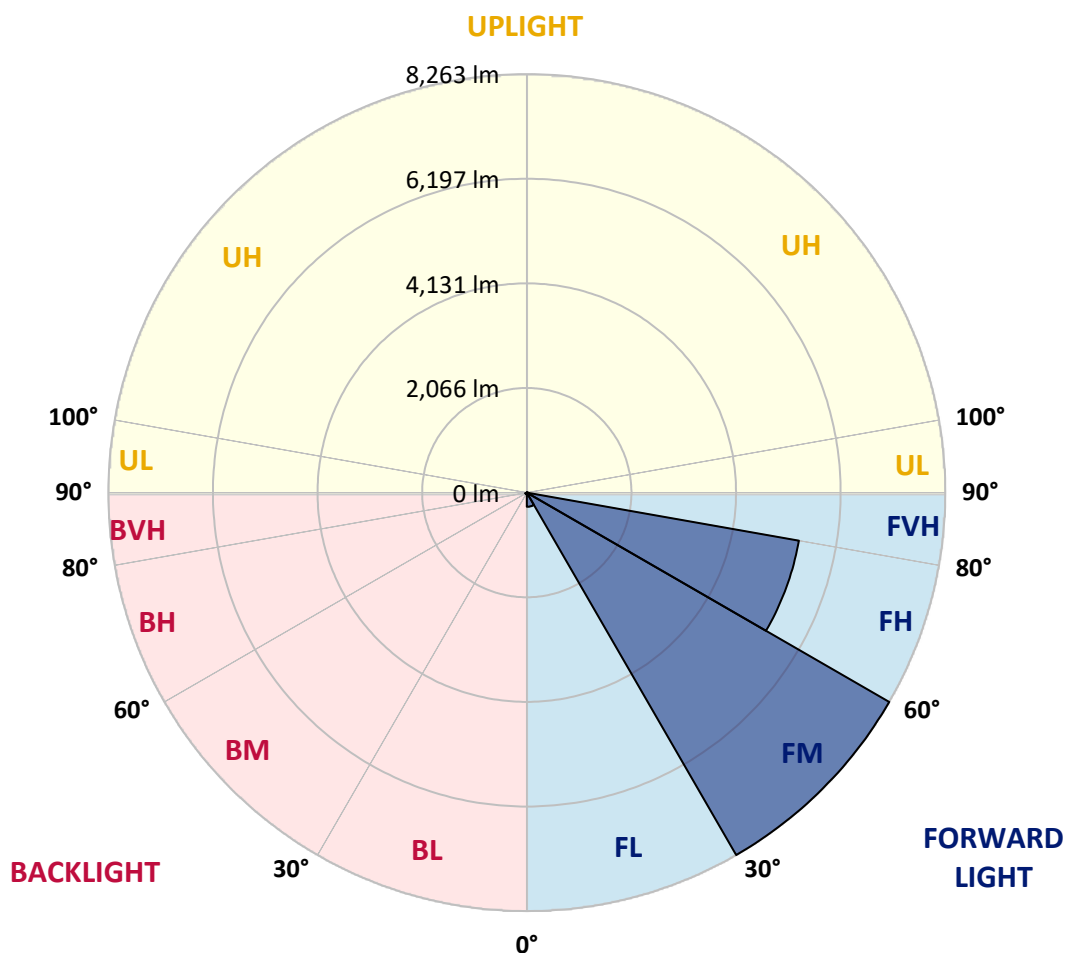
CATALOG NUMBER: NAV-SA5B-722-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	280.0	2.0			
FM	(30°-60°)	8262.7	58.6			
FH	(60°-80°)	5455.3	38.7			G3/7500
FVH	(80°-90°)	30.2	0.2			G1/100
BL	(0°-30°)	7.6	0.1	B0/110		
BM	(30°-60°)	27.7	0.2	B0/220		
BH	(60°-80°)	31.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
2.5°	61.9	61.9	57.5	53.0	48.6	44.2	44.2	44.2	39.8	39.8	35.4
5°	70.7	70.7	66.3	61.9	61.9	57.5	57.5	53.0	48.6	48.6	44.2
7.5°	75.1	75.1	75.1	75.1	70.7	70.7	70.7	66.3	61.9	57.5	53.0
10°	79.6	84.0	88.4	88.4	88.4	88.4	88.4	84.0	75.1	70.7	61.9
12.5°	88.4	92.8	101.7	110.5	110.5	114.9	110.5	106.1	97.2	84.0	70.7
15°	97.2	106.1	119.3	137.0	154.7	159.1	159.1	145.8	128.2	101.7	84.0
17.5°	110.5	123.7	159.1	216.6	278.4	327.1	327.1	291.7	203.3	132.6	97.2
20°	119.3	145.8	256.3	521.5	795.5	998.8	959.1	848.6	455.2	207.7	106.1
22.5°	132.6	185.6	543.6	1370.1	2121.4	2492.7	2404.3	1825.3	1020.9	371.2	128.2
25°	150.3	269.6	1078.4	2567.8	3942.3	4344.5	4287.0	3407.5	1860.7	623.2	163.5
27.5°	185.6	397.8	1728.1	3893.7	5816.2	6160.9	6138.8	4989.7	2974.4	1003.2	212.1
30°	234.2	579.0	2563.4	5290.3	7058.1	7407.2	7296.8	6147.7	4013.0	1533.6	274.0
32.5°	291.7	808.8	3319.1	6320.0	8202.8	8662.4	8529.8	7155.3	4848.3	1984.4	406.6
35°	380.1	1034.2	4066.0	7230.5	9524.2	10107.6	9886.6	8193.9	5568.7	2492.7	490.6
37.5°	424.3	1166.8	4751.1	8220.5	11009.2	11804.7	11636.8	9506.6	6302.3	3142.3	601.1
40°	428.7	1325.9	5462.6	9511.0	13108.5	14527.2	14226.7	11760.6	7668.0	3977.6	773.4
42.5°	442.0	1564.5	6386.3	11711.9	17232.0	19269.5	18929.1	15906.1	10766.1	5652.7	1096.1
45°	503.8	2015.3	8269.1	15826.6	22893.5	25881.2	25487.8	21682.6	15092.9	8803.8	1869.5
47.5°	720.4	3031.8	11570.5	20268.3	28683.2	31065.4	30968.1	26234.7	19013.1	12034.6	3168.9
50°	1157.9	4653.8	15327.2	24002.8	32369.1	34415.4	34172.3	28135.2	21249.4	14239.9	4061.6
52.5°	1546.9	6205.1	17687.2	25377.3	33469.6	35909.2	35613.1	28829.0	21837.2	14889.6	4309.1
55°	1644.1	6766.4	18390.0	25801.6	34198.9	37173.2	36744.5	29293.1	21912.4	14425.6	3898.1
57.5°	1595.5	6236.1	17934.7	26217.1	35215.4	38472.6	37902.5	30199.1	22164.3	13638.9	3244.0
59°	1511.5	5582.0	17651.9	26548.5	35776.7	38675.9	38141.1	30398.0	22332.2	13280.9	2846.2
60°	1414.3	5140.0	17430.9	26765.1	35741.3	38357.7	37805.3	30305.2	22398.5	12971.5	2656.2
62.5°	1091.6	4101.4	17112.7	26610.4	33509.4	35454.0	35140.2	28033.5	21426.2	11981.5	2094.9
65°	848.6	3137.9	15945.9	23733.2	28515.3	29823.5	29726.2	23737.7	18032.0	10328.6	1511.5
67.5°	671.8	2289.4	13484.2	19220.8	22942.1	24802.8	24732.1	19269.5	13687.5	7893.4	1087.2
70°	548.0	1630.8	9245.8	14491.9	18350.2	20692.6	20590.9	15508.4	10143.0	5007.4	791.1
72.5°	464.1	1043.0	5608.5	10925.2	15313.9	16653.0	16356.9	12511.9	7376.3	2726.9	627.6
75°	393.3	640.8	2779.9	6810.6	9122.1	9113.2	8817.1	6625.0	3960.0	1334.7	499.4
77.5°	318.2	450.8	1091.6	1869.5	2877.2	3562.2	3504.7	2346.8	1184.5	388.9	309.4
80°	207.7	212.1	291.7	512.7	791.1	875.1	994.4	716.0	344.7	185.6	128.2
82.5°	92.8	101.7	132.6	167.9	167.9	154.7	137.0	101.7	75.1	61.9	30.9
85°	22.1	30.9	22.1	26.5	22.1	17.7	17.7	8.8	0.0	0.0	0.0
87.5°	4.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
2.5°	35.4	35.4	35.4	30.9	30.9	30.9	26.5	26.5	26.5	22.1	22.1
5°	44.2	39.8	35.4	35.4	30.9	30.9	26.5	22.1	22.1	22.1	17.7
7.5°	48.6	44.2	39.8	35.4	30.9	26.5	26.5	22.1	17.7	17.7	17.7
10°	57.5	53.0	44.2	35.4	30.9	26.5	22.1	22.1	17.7	13.3	13.3
12.5°	66.3	57.5	48.6	39.8	30.9	26.5	22.1	22.1	17.7	13.3	8.8
15°	75.1	66.3	53.0	39.8	30.9	26.5	22.1	22.1	13.3	8.8	4.4
17.5°	84.0	70.7	53.0	44.2	30.9	26.5	22.1	17.7	8.8	4.4	0.0
20°	88.4	75.1	57.5	44.2	30.9	26.5	22.1	13.3	4.4	0.0	0.0
22.5°	97.2	84.0	61.9	44.2	30.9	22.1	13.3	4.4	0.0	0.0	0.0
25°	114.9	88.4	61.9	44.2	30.9	22.1	8.8	0.0	0.0	0.0	0.0
27.5°	128.2	97.2	61.9	44.2	30.9	17.7	4.4	0.0	0.0	0.0	0.0
30°	150.3	106.1	66.3	44.2	30.9	13.3	4.4	0.0	0.0	0.0	0.0
32.5°	185.6	114.9	66.3	44.2	26.5	13.3	0.0	0.0	0.0	0.0	0.0
35°	225.4	132.6	66.3	44.2	26.5	13.3	0.0	0.0	0.0	0.0	0.0
37.5°	229.8	141.4	66.3	44.2	26.5	8.8	0.0	0.0	0.0	0.0	0.0
40°	238.7	132.6	70.7	44.2	26.5	8.8	0.0	0.0	0.0	0.0	0.0
42.5°	274.0	123.7	75.1	44.2	26.5	8.8	0.0	0.0	0.0	0.0	0.0
45°	406.6	128.2	75.1	48.6	26.5	13.3	0.0	0.0	0.0	0.0	0.0
47.5°	707.1	132.6	70.7	48.6	26.5	13.3	0.0	0.0	0.0	0.0	0.0
50°	906.0	154.7	70.7	53.0	30.9	8.8	0.0	0.0	0.0	0.0	0.0
52.5°	963.5	181.2	70.7	57.5	39.8	4.4	0.0	0.0	0.0	0.0	0.0
55°	937.0	212.1	75.1	61.9	48.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	866.2	229.8	79.6	66.3	53.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	791.1	243.1	92.8	70.7	53.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	729.2	256.3	97.2	75.1	53.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	587.8	274.0	106.1	88.4	44.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	512.7	287.3	110.5	97.2	39.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	468.5	296.1	119.3	101.7	35.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	433.1	291.7	128.2	97.2	30.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	393.3	278.4	154.7	88.4	26.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	353.6	251.9	167.9	79.6	17.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	256.3	212.1	154.7	70.7	8.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	110.5	114.9	110.5	53.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.1	26.5	22.1	13.3	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
2.5°	22.1	22.1	22.1	22.1	26.5	26.5	35.4	44.2	53.0	57.5	57.5
5°	17.7	17.7	17.7	17.7	17.7	22.1	26.5	35.4	48.6	53.0	53.0
7.5°	13.3	13.3	13.3	13.3	13.3	13.3	22.1	30.9	44.2	48.6	53.0
10°	13.3	8.8	8.8	4.4	4.4	8.8	13.3	26.5	39.8	44.2	48.6
12.5°	8.8	4.4	4.4	0.0	0.0	4.4	8.8	22.1	35.4	39.8	44.2
15°	4.4	0.0	0.0	0.0	0.0	0.0	4.4	17.7	30.9	35.4	44.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	26.5	35.4	39.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	22.1	30.9	35.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	17.7	26.5	30.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	17.7	22.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	13.3	17.7
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	13.3	17.7
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8	13.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8	13.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8	8.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	8.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
2.5°	61.9	61.9	57.5	53.0	53.0	53.0	57.5	61.9	61.9	61.9
5°	57.5	57.5	53.0	53.0	53.0	53.0	57.5	66.3	70.7	70.7
7.5°	57.5	57.5	53.0	53.0	53.0	53.0	57.5	66.3	70.7	75.1
10°	53.0	53.0	53.0	53.0	48.6	53.0	57.5	66.3	79.6	79.6
12.5°	53.0	53.0	53.0	53.0	48.6	53.0	61.9	70.7	84.0	88.4
15°	53.0	53.0	53.0	48.6	48.6	53.0	61.9	75.1	88.4	97.2
17.5°	48.6	53.0	53.0	48.6	48.6	53.0	61.9	75.1	97.2	110.5
20°	44.2	48.6	53.0	48.6	48.6	48.6	61.9	75.1	101.7	119.3
22.5°	39.8	44.2	48.6	48.6	44.2	48.6	61.9	79.6	110.5	132.6
25°	35.4	39.8	39.8	44.2	44.2	48.6	61.9	79.6	114.9	150.3
27.5°	26.5	30.9	35.4	39.8	39.8	48.6	61.9	84.0	123.7	185.6
30°	22.1	26.5	30.9	35.4	39.8	48.6	61.9	84.0	132.6	234.2
32.5°	22.1	26.5	30.9	35.4	39.8	44.2	61.9	88.4	145.8	291.7
35°	17.7	22.1	26.5	35.4	35.4	44.2	61.9	88.4	159.1	380.1
37.5°	17.7	22.1	26.5	35.4	35.4	44.2	61.9	88.4	194.5	424.3
40°	13.3	17.7	22.1	35.4	35.4	44.2	66.3	92.8	198.9	428.7
42.5°	13.3	17.7	22.1	30.9	35.4	44.2	66.3	92.8	185.6	442.0
45°	13.3	17.7	22.1	35.4	39.8	48.6	66.3	97.2	181.2	503.8
47.5°	13.3	17.7	22.1	35.4	44.2	48.6	66.3	97.2	185.6	720.4
50°	13.3	17.7	22.1	35.4	48.6	48.6	66.3	97.2	203.3	1157.9
52.5°	8.8	13.3	17.7	30.9	39.8	53.0	70.7	92.8	216.6	1546.9
55°	8.8	8.8	13.3	26.5	35.4	57.5	75.1	92.8	251.9	1644.1
57.5°	8.8	8.8	13.3	22.1	30.9	61.9	79.6	92.8	291.7	1595.5
59°	8.8	8.8	8.8	22.1	26.5	61.9	79.6	97.2	296.1	1511.5
60°	8.8	8.8	8.8	17.7	26.5	61.9	84.0	101.7	300.5	1414.3
62.5°	4.4	4.4	4.4	17.7	22.1	61.9	92.8	123.7	309.4	1091.6
65°	8.8	8.8	4.4	13.3	22.1	53.0	106.1	132.6	313.8	848.6
67.5°	8.8	8.8	8.8	17.7	22.1	53.0	110.5	137.0	313.8	671.8
70°	8.8	8.8	8.8	17.7	26.5	53.0	110.5	141.4	309.4	548.0
72.5°	8.8	8.8	8.8	17.7	26.5	48.6	101.7	145.8	296.1	464.1
75°	8.8	8.8	8.8	13.3	22.1	44.2	97.2	159.1	269.6	393.3
77.5°	8.8	8.8	8.8	8.8	17.7	35.4	88.4	176.8	238.7	318.2
80°	13.3	8.8	8.8	8.8	13.3	30.9	84.0	172.4	198.9	207.7
82.5°	13.3	8.8	8.8	4.4	8.8	22.1	66.3	132.6	101.7	92.8
85°	8.8	8.8	8.8	4.4	4.4	13.3	30.9	39.8	30.9	22.1
87.5°	8.8	8.8	8.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 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-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

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

REPORT NUMBER: SP1-2407-184-2

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

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

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	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.21

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)