

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: P1067916

Luminaire Tested: **NAV-SA6D-722-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067916
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6D-722-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 6xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23196.8 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 320.4
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

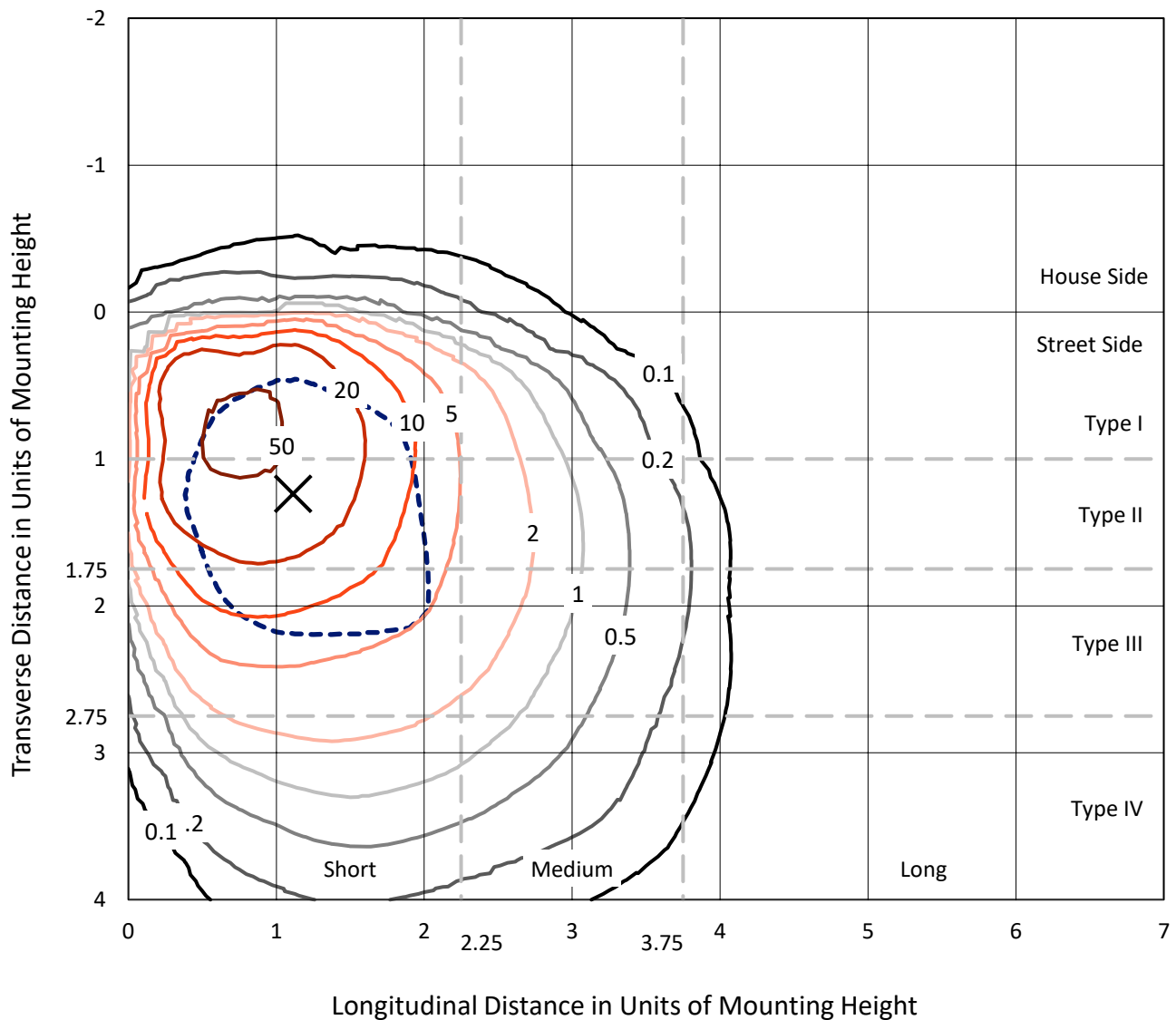


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

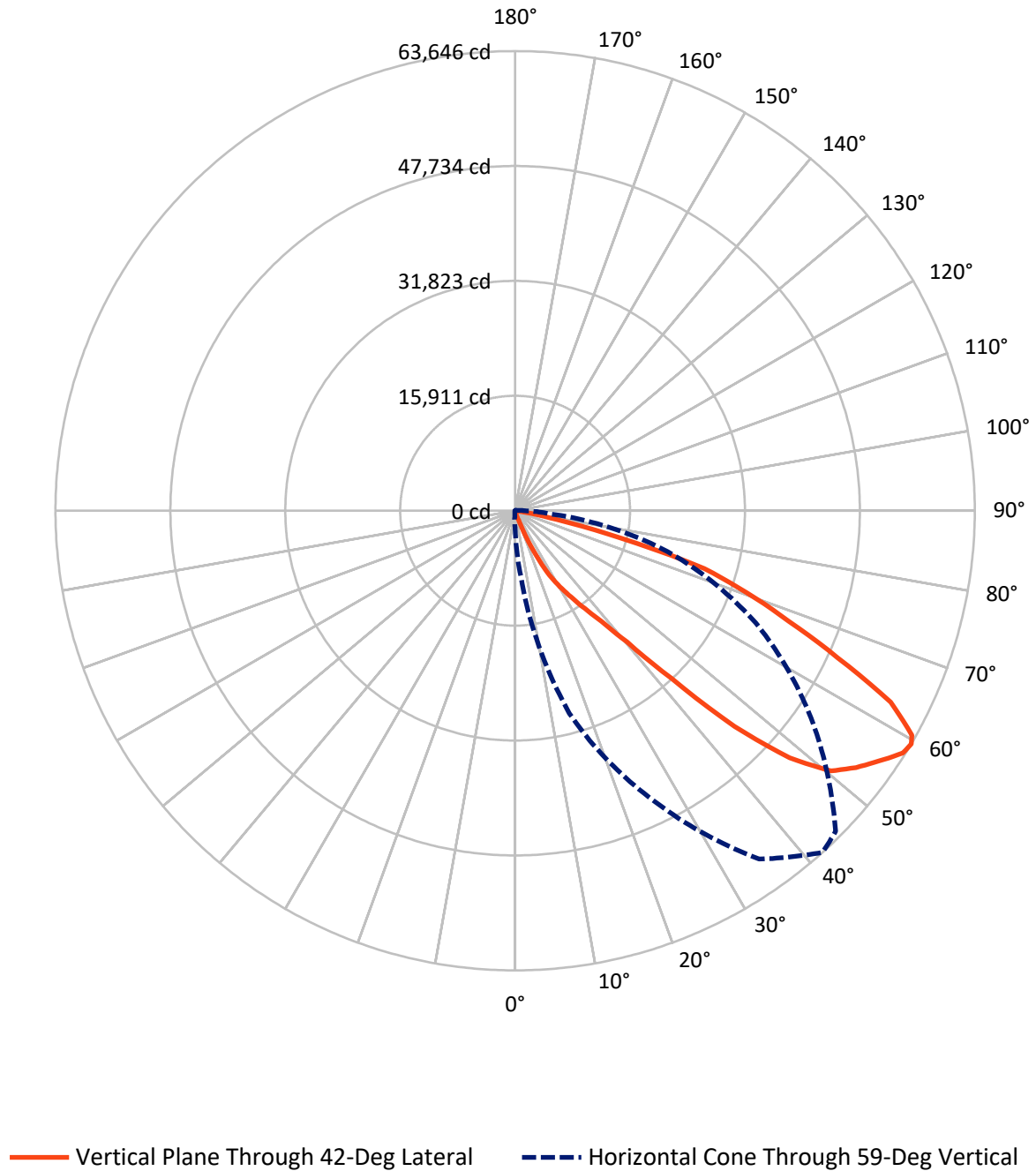


Based on 15 foot mounting height. Maximum calculated value = 68.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	111.8	0.0	111.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	23085.1	0.0	23085.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	23196.8	0.0	23196.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.0
10°-20°	33.8	0.1
20°-30°	432.7	1.9
30°-40°	1458.8	6.3
40°-50°	4406.2	19.0
50°-60°	7777.9	33.5
60°-70°	6848.6	29.5
70°-80°	2179.9	9.4
80°-90°	52.2	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°	23196.8	100.0
0°-180°	23196.8	100.0



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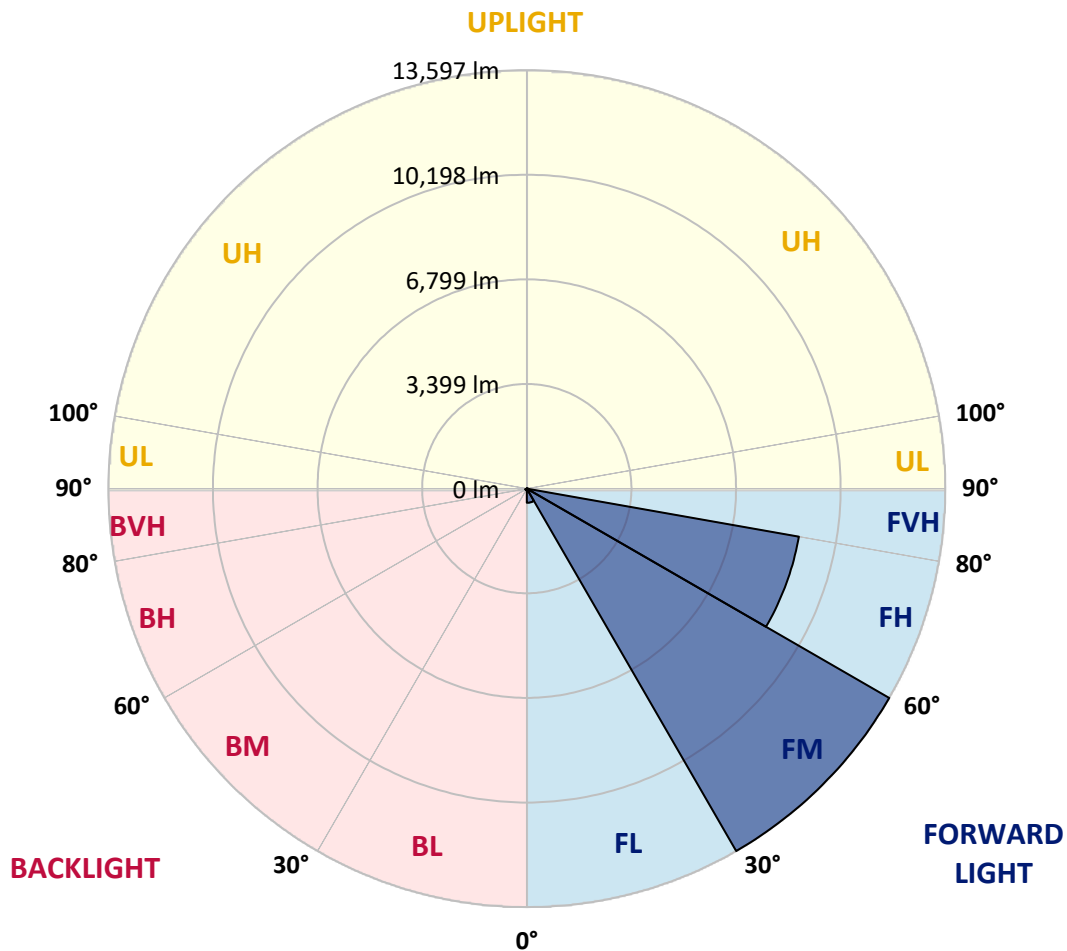
CATALOG NUMBER: NAV-SA6D-722-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.8	2.0			
FM	(30°-60°)	13597.2	58.6			
FH	(60°-80°)	8977.4	38.7			G4/12000
FVH	(80°-90°)	49.6	0.2			G1/100
BL	(0°-30°)	12.5	0.1	B0/110		
BM	(30°-60°)	45.7	0.2	B0/220		
BH	(60°-80°)	51.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.5	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
2.5°	101.8	101.8	94.5	87.3	80.0	72.7	72.7	72.7	65.5	65.5	58.2
5°	116.4	116.4	109.1	101.8	101.8	94.5	94.5	87.3	80.0	80.0	72.7
7.5°	123.6	123.6	123.6	123.6	116.4	116.4	116.4	109.1	101.8	94.5	87.3
10°	130.9	138.2	145.5	145.5	145.5	145.5	145.5	138.2	123.6	116.4	101.8
12.5°	145.5	152.7	167.3	181.8	181.8	189.1	181.8	174.6	160.0	138.2	116.4
15°	160.0	174.6	196.4	225.5	254.6	261.8	261.8	240.0	210.9	167.3	138.2
17.5°	181.8	203.6	261.8	356.4	458.2	538.2	538.2	480.0	334.6	218.2	160.0
20°	196.4	240.0	421.8	858.2	1309.1	1643.7	1578.2	1396.4	749.1	341.8	174.6
22.5°	218.2	305.5	894.6	2254.6	3491.0	4102.0	3956.5	3003.7	1680.1	610.9	210.9
25°	247.3	443.7	1774.6	4225.6	6487.5	7149.3	7054.8	5607.5	3061.9	1025.5	269.1
27.5°	305.5	654.6	2843.7	6407.5	9571.2	10138.5	10102.2	8211.2	4894.7	1651.0	349.1
30°	385.5	952.8	4218.3	8705.8	11615.0	12189.5	12007.7	10116.7	6603.9	2523.7	450.9
32.5°	480.0	1331.0	5462.0	10400.4	13498.7	14255.0	14036.9	11775.0	7978.5	3265.6	669.1
35°	625.5	1701.9	6691.1	11898.6	15673.3	16633.3	16269.7	13484.1	9164.0	4102.0	807.3
37.5°	698.2	1920.1	7818.5	13527.7	18117.0	19426.1	19149.8	15644.2	10371.3	5171.1	989.1
40°	705.5	2181.9	8989.4	15651.5	21571.7	23906.3	23411.7	19353.4	12618.6	6545.7	1272.8
42.5°	727.3	2574.6	10509.5	19273.4	28357.4	31710.2	31150.2	26175.5	17717.0	9302.1	1803.7
45°	829.1	3316.5	13607.8	26044.6	37674.1	42590.6	41943.3	35681.3	24837.2	14487.8	3076.5
47.5°	1185.5	4989.3	19040.7	33353.9	47201.7	51121.8	50961.8	43172.4	31288.4	19804.3	5214.7
50°	1905.5	7658.5	25222.7	39499.6	53267.3	56634.7	56234.7	46299.8	34968.5	23433.6	6683.9
52.5°	2545.5	10211.3	29106.5	41761.5	55078.3	59093.0	58605.7	47441.7	35935.8	24502.7	7091.2
55°	2705.5	11134.9	30262.9	42459.7	56278.3	61173.1	60467.6	48205.3	36059.4	23739.0	6414.8
57.5°	2625.5	10262.2	29513.8	43143.3	57951.1	63311.3	62373.1	49696.3	36474.0	22444.4	5338.4
59°	2487.4	9185.8	29048.3	43688.8	58874.8	63645.9	62765.8	50023.6	36750.4	21855.3	4683.8
60°	2327.4	8458.5	28684.6	44045.2	58816.6	63122.2	62213.1	49870.8	36859.5	21346.2	4371.1
62.5°	1796.4	6749.3	28161.0	43790.6	55143.8	58343.9	57827.5	46132.5	35259.4	19717.1	3447.4
65°	1396.4	5163.8	26240.9	39055.9	46925.3	49078.1	48918.1	39063.2	29673.8	16997.0	2487.4
67.5°	1105.5	3767.4	22189.9	31630.2	37754.1	40816.0	40699.6	31710.2	22524.4	12989.5	1789.2
70°	901.8	2683.7	15215.1	23848.1	30197.4	34052.1	33884.8	25520.9	16691.5	8240.3	1301.9
72.5°	763.7	1716.4	9229.4	17978.8	25200.9	27404.6	26917.3	20589.8	12138.6	4487.4	1032.8
75°	647.3	1054.6	4574.7	11207.7	15011.4	14996.9	14509.6	10902.2	6516.6	2196.4	821.8
77.5°	523.7	741.8	1796.4	3076.5	4734.7	5862.0	5767.5	3862.0	1949.2	640.0	509.1
80°	341.8	349.1	480.0	843.7	1301.9	1440.1	1636.4	1178.2	567.3	305.5	210.9
82.5°	152.7	167.3	218.2	276.4	276.4	254.6	225.5	167.3	123.6	101.8	50.9
85°	36.4	50.9	36.4	43.6	36.4	29.1	29.1	14.5	0.0	0.0	0.0
87.5°	7.3	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°	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
2.5°	58.2	58.2	58.2	50.9	50.9	50.9	43.6	43.6	43.6	36.4	36.4
5°	72.7	65.5	58.2	58.2	50.9	50.9	43.6	36.4	36.4	36.4	29.1
7.5°	80.0	72.7	65.5	58.2	50.9	43.6	43.6	36.4	29.1	29.1	29.1
10°	94.5	87.3	72.7	58.2	50.9	43.6	36.4	36.4	29.1	21.8	21.8
12.5°	109.1	94.5	80.0	65.5	50.9	43.6	36.4	36.4	29.1	21.8	14.5
15°	123.6	109.1	87.3	65.5	50.9	43.6	36.4	36.4	21.8	14.5	7.3
17.5°	138.2	116.4	87.3	72.7	50.9	43.6	36.4	29.1	14.5	7.3	0.0
20°	145.5	123.6	94.5	72.7	50.9	43.6	36.4	21.8	7.3	0.0	0.0
22.5°	160.0	138.2	101.8	72.7	50.9	36.4	21.8	7.3	0.0	0.0	0.0
25°	189.1	145.5	101.8	72.7	50.9	36.4	14.5	0.0	0.0	0.0	0.0
27.5°	210.9	160.0	101.8	72.7	50.9	29.1	7.3	0.0	0.0	0.0	0.0
30°	247.3	174.6	109.1	72.7	50.9	21.8	7.3	0.0	0.0	0.0	0.0
32.5°	305.5	189.1	109.1	72.7	43.6	21.8	0.0	0.0	0.0	0.0	0.0
35°	370.9	218.2	109.1	72.7	43.6	21.8	0.0	0.0	0.0	0.0	0.0
37.5°	378.2	232.7	109.1	72.7	43.6	14.5	0.0	0.0	0.0	0.0	0.0
40°	392.7	218.2	116.4	72.7	43.6	14.5	0.0	0.0	0.0	0.0	0.0
42.5°	450.9	203.6	123.6	72.7	43.6	14.5	0.0	0.0	0.0	0.0	0.0
45°	669.1	210.9	123.6	80.0	43.6	21.8	0.0	0.0	0.0	0.0	0.0
47.5°	1163.7	218.2	116.4	80.0	43.6	21.8	0.0	0.0	0.0	0.0	0.0
50°	1491.0	254.6	116.4	87.3	50.9	14.5	0.0	0.0	0.0	0.0	0.0
52.5°	1585.5	298.2	116.4	94.5	65.5	7.3	0.0	0.0	0.0	0.0	0.0
55°	1541.9	349.1	123.6	101.8	80.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1425.5	378.2	130.9	109.1	87.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	1301.9	400.0	152.7	116.4	87.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	1200.0	421.8	160.0	123.6	87.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	967.3	450.9	174.6	145.5	72.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	843.7	472.7	181.8	160.0	65.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	770.9	487.3	196.4	167.3	58.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	712.8	480.0	210.9	160.0	50.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	647.3	458.2	254.6	145.5	43.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	581.8	414.6	276.4	130.9	29.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	421.8	349.1	254.6	116.4	14.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	181.8	189.1	181.8	87.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.4	43.6	36.4	21.8	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°	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
2.5°	36.4	36.4	36.4	36.4	43.6	43.6	58.2	72.7	87.3	94.5	94.5
5°	29.1	29.1	29.1	29.1	29.1	36.4	43.6	58.2	80.0	87.3	87.3
7.5°	21.8	21.8	21.8	21.8	21.8	21.8	36.4	50.9	72.7	80.0	87.3
10°	21.8	14.5	14.5	7.3	7.3	14.5	21.8	43.6	65.5	72.7	80.0
12.5°	14.5	7.3	7.3	0.0	0.0	7.3	14.5	36.4	58.2	65.5	72.7
15°	7.3	0.0	0.0	0.0	0.0	0.0	7.3	29.1	50.9	58.2	72.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	43.6	58.2	65.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	36.4	50.9	58.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	29.1	43.6	50.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	29.1	36.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	21.8	29.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	21.8	29.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5	21.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5	21.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5	14.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	14.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3
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°	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
2.5°	101.8	101.8	94.5	87.3	87.3	87.3	94.5	101.8	101.8	101.8
5°	94.5	94.5	87.3	87.3	87.3	87.3	94.5	109.1	116.4	116.4
7.5°	94.5	94.5	87.3	87.3	87.3	87.3	94.5	109.1	116.4	123.6
10°	87.3	87.3	87.3	87.3	80.0	87.3	94.5	109.1	130.9	130.9
12.5°	87.3	87.3	87.3	87.3	80.0	87.3	101.8	116.4	138.2	145.5
15°	87.3	87.3	87.3	80.0	80.0	87.3	101.8	123.6	145.5	160.0
17.5°	80.0	87.3	87.3	80.0	80.0	87.3	101.8	123.6	160.0	181.8
20°	72.7	80.0	87.3	80.0	80.0	80.0	101.8	123.6	167.3	196.4
22.5°	65.5	72.7	80.0	80.0	72.7	80.0	101.8	130.9	181.8	218.2
25°	58.2	65.5	65.5	72.7	72.7	80.0	101.8	130.9	189.1	247.3
27.5°	43.6	50.9	58.2	65.5	65.5	80.0	101.8	138.2	203.6	305.5
30°	36.4	43.6	50.9	58.2	65.5	80.0	101.8	138.2	218.2	385.5
32.5°	36.4	43.6	50.9	58.2	65.5	72.7	101.8	145.5	240.0	480.0
35°	29.1	36.4	43.6	58.2	58.2	72.7	101.8	145.5	261.8	625.5
37.5°	29.1	36.4	43.6	58.2	58.2	72.7	101.8	145.5	320.0	698.2
40°	21.8	29.1	36.4	58.2	58.2	72.7	109.1	152.7	327.3	705.5
42.5°	21.8	29.1	36.4	50.9	58.2	72.7	109.1	152.7	305.5	727.3
45°	21.8	29.1	36.4	58.2	65.5	80.0	109.1	160.0	298.2	829.1
47.5°	21.8	29.1	36.4	58.2	72.7	80.0	109.1	160.0	305.5	1185.5
50°	21.8	29.1	36.4	58.2	80.0	80.0	109.1	160.0	334.6	1905.5
52.5°	14.5	21.8	29.1	50.9	65.5	87.3	116.4	152.7	356.4	2545.5
55°	14.5	14.5	21.8	43.6	58.2	94.5	123.6	152.7	414.6	2705.5
57.5°	14.5	14.5	21.8	36.4	50.9	101.8	130.9	152.7	480.0	2625.5
59°	14.5	14.5	14.5	36.4	43.6	101.8	130.9	160.0	487.3	2487.4
60°	14.5	14.5	14.5	29.1	43.6	101.8	138.2	167.3	494.6	2327.4
62.5°	7.3	7.3	7.3	29.1	36.4	101.8	152.7	203.6	509.1	1796.4
65°	14.5	14.5	7.3	21.8	36.4	87.3	174.6	218.2	516.4	1396.4
67.5°	14.5	14.5	14.5	29.1	36.4	87.3	181.8	225.5	516.4	1105.5
70°	14.5	14.5	14.5	29.1	43.6	87.3	181.8	232.7	509.1	901.8
72.5°	14.5	14.5	14.5	29.1	43.6	80.0	167.3	240.0	487.3	763.7
75°	14.5	14.5	14.5	21.8	36.4	72.7	160.0	261.8	443.7	647.3
77.5°	14.5	14.5	14.5	14.5	29.1	58.2	145.5	290.9	392.7	523.7
80°	21.8	14.5	14.5	14.5	21.8	50.9	138.2	283.6	327.3	341.8
82.5°	21.8	14.5	14.5	7.3	14.5	36.4	109.1	218.2	167.3	152.7
85°	14.5	14.5	14.5	7.3	7.3	21.8	50.9	65.5	50.9	36.4
87.5°	14.5	14.5	14.5	7.3	7.3	7.3	7.3	7.3	7.3	7.3
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

REPORT NUMBER: SP1-2407-184-2

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 ^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			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

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	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 $\text{W}^{\wedge}/\text{nm}$	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	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)