

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: STREETWORKS

Report Number: P1065161

Luminaire Tested: **GLAN-SA8A-722-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065161
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19068.9 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (A_{in}): 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

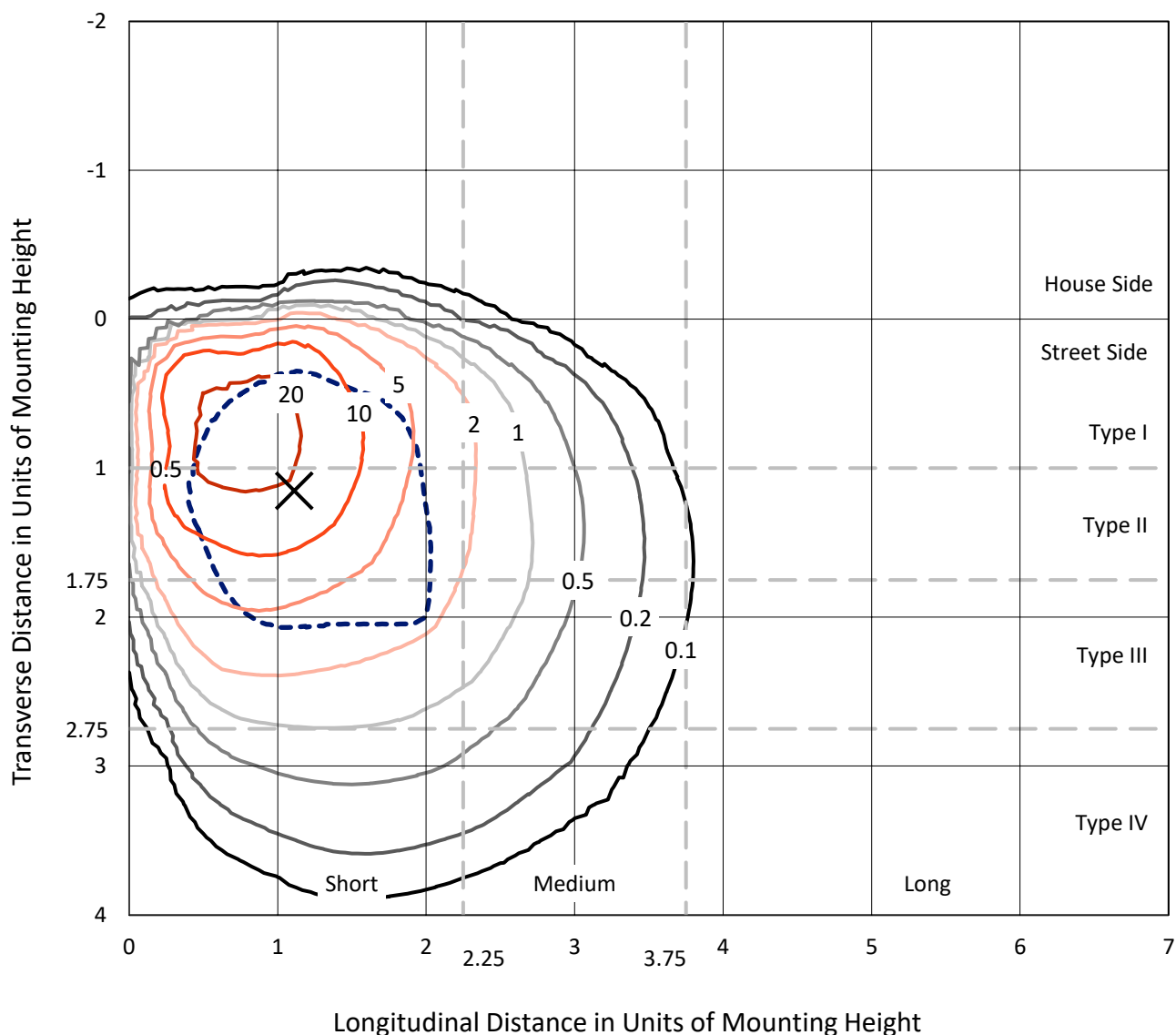
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

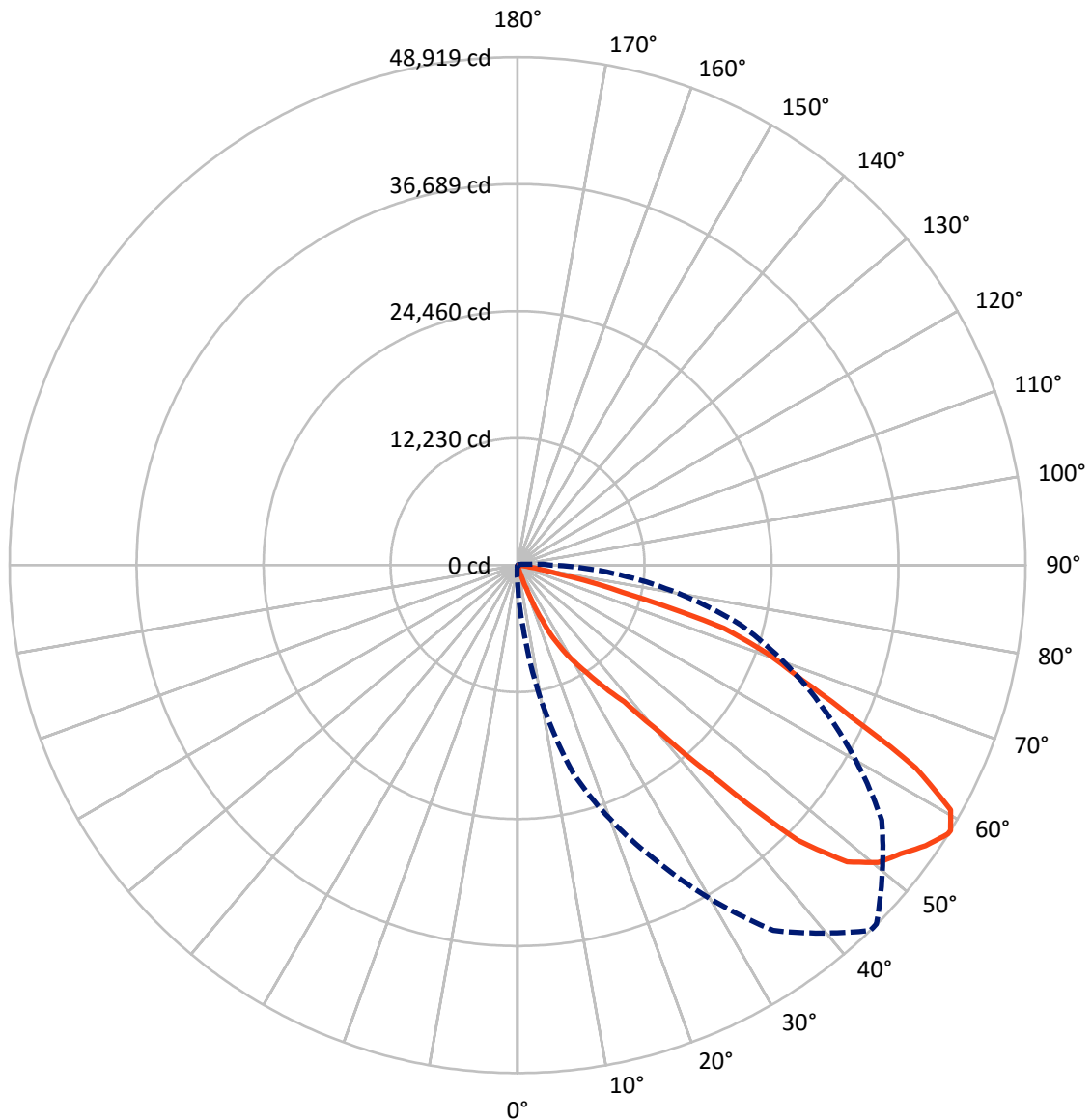


Based on 20 foot mounting height. Maximum calculated value = 33.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	130.2	0.0	130.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18938.7	0.0	18938.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	19068.9	0.0	19068.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.0
10°-20°	41.8	0.2
20°-30°	451.7	2.4
30°-40°	1336.0	7.0
40°-50°	3981.9	20.9
50°-60°	6318.3	33.1
60°-70°	5270.2	27.6
70°-80°	1625.4	8.5
80°-90°	36.1	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°	19068.9	100.0
0°-180°	19068.9	100.0



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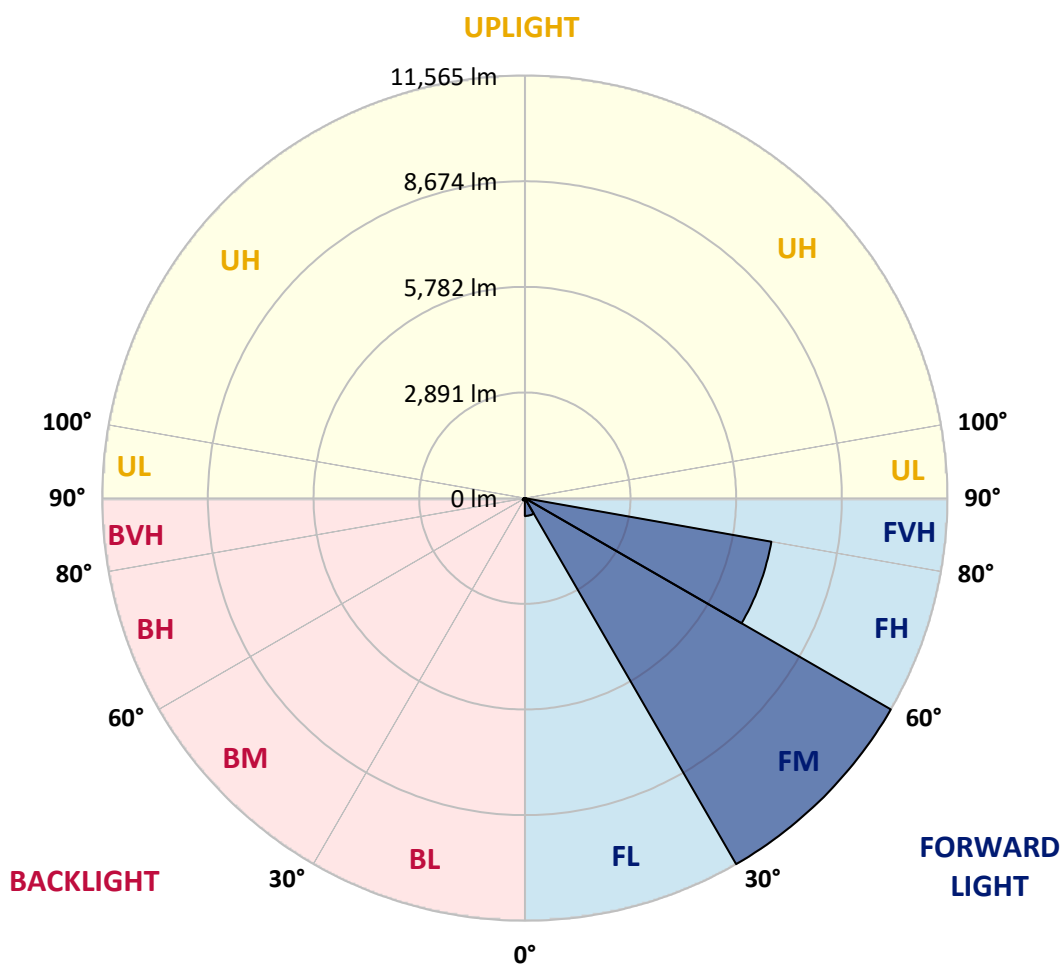
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	488.3	2.6			
FM	(30°-60°)	11564.9	60.6			
FH	(60°-80°)	6851.2	35.9			G3/7500
FVH	(80°-90°)	34.4	0.2			G1/100
BL	(0°-30°)	12.7	0.1	B0/110		
BM	(30°-60°)	71.3	0.4	B0/220		
BH	(60°-80°)	44.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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°	44°	45°	55°	65°	75°	85°
0°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
2.5°	108.0	108.0	103.7	98.0	92.2	86.4	85.0	82.1	80.7	79.2	77.8
5°	112.4	112.4	110.9	106.6	100.8	96.5	96.5	92.2	89.3	86.4	83.5
7.5°	115.2	116.7	119.6	118.1	115.2	110.9	110.9	108.0	103.7	96.5	92.2
10°	119.6	123.9	129.6	132.5	134.0	134.0	132.5	131.1	123.9	113.8	102.3
12.5°	123.9	132.5	146.9	161.3	170.0	181.5	180.1	177.2	158.5	136.8	116.7
15°	132.5	145.5	175.7	217.5	282.3	322.7	338.5	324.1	262.2	184.4	135.4
17.5°	142.6	164.2	255.0	455.2	746.2	884.5	968.0	900.3	596.4	350.0	170.0
20°	152.7	200.2	473.9	1179.8	1936.0	2388.3	2513.7	2317.8	1488.0	667.0	252.1
22.5°	170.0	280.9	960.8	2438.8	4171.7	4850.2	4978.4	4351.7	2810.4	1316.6	378.9
25°	206.0	407.7	1656.6	3974.3	6225.8	7371.0	7317.7	6496.6	4559.2	2103.1	576.2
27.5°	257.8	593.5	2505.0	5646.7	8193.5	9203.3	9324.3	8308.8	6077.5	3092.7	818.2
30°	332.8	822.5	3415.4	6986.4	9770.9	10862.8	10883.0	9832.8	7435.8	3961.4	1114.9
32.5°	404.8	1038.6	4212.0	8281.4	11325.2	12522.2	12611.6	11319.4	8450.0	4866.0	1372.8
35°	459.5	1179.8	5018.7	9419.4	12892.4	14541.8	14536.1	13001.9	9651.3	5674.1	1730.0
37.5°	463.8	1320.9	5749.0	10583.3	14877.5	16724.2	16907.1	15216.0	11103.4	6673.8	2167.9
40°	453.8	1479.4	6673.8	12398.4	18454.2	21287.7	21449.0	19317.1	14016.0	8385.1	2852.2
42.5°	465.3	1754.5	8174.8	15750.4	24393.4	28462.8	28773.9	26532.5	19370.4	11876.9	4072.3
45°	525.8	2271.7	11319.4	21358.3	32859.2	37820.3	37716.5	34488.4	25600.5	17192.3	6486.6
47.5°	726.0	3537.9	15980.9	26816.3	38269.7	42687.7	42777.0	38831.5	29236.3	21279.0	9737.8
50°	1116.4	5413.4	19897.6	29701.6	40596.1	45028.5	44944.9	40385.8	30617.8	23291.4	11730.0
52.5°	1452.0	6770.3	21862.4	30714.3	40894.3	46185.2	46179.5	40794.9	30832.4	23464.3	11979.2
55°	1535.6	6872.6	21878.3	30769.0	41562.7	47699.2	47889.3	41801.8	31110.4	22709.4	11041.4
57.5°	1502.4	6084.7	20965.0	31085.9	42752.5	48870.3	48880.4	42777.0	31816.3	22247.0	9488.6
58°	1473.6	5960.8	20780.6	31266.0	42957.1	48919.3	48894.8	42821.7	32391.0	22229.8	9245.1
60°	1312.3	5175.7	20061.8	31725.5	42653.1	47913.8	47684.8	41846.4	32306.0	22052.6	8019.2
62.5°	1031.4	4037.7	19354.5	31194.0	39394.7	43046.4	43141.4	37048.1	29451.0	21019.7	6574.4
65°	821.1	3009.2	17879.4	27362.2	32440.0	35349.8	35704.2	30126.6	24582.1	17798.8	4847.3
67.5°	654.0	2175.2	14998.5	21784.6	25669.7	29502.8	29760.7	25293.7	19044.8	13637.2	3444.2
70°	531.5	1470.7	10352.9	15931.9	21172.4	25482.4	25498.2	21012.5	14214.8	8935.4	2160.7
72.5°	471.0	1018.4	6009.8	11619.0	17167.8	20764.8	20345.6	17051.2	10924.7	5292.4	1287.8
75°	407.7	675.6	2947.3	7103.1	10409.0	10479.6	10639.5	7909.8	5460.9	2516.5	772.1
77.5°	335.6	479.7	1161.0	1940.3	3121.6	3995.9	4144.3	3140.3	1816.5	619.4	412.0
80°	230.5	227.6	312.6	594.9	893.1	1119.3	1044.4	808.1	475.4	237.7	146.9
82.5°	99.4	108.0	141.2	170.0	138.3	134.0	128.2	82.1	63.4	49.0	30.3
85°	31.7	28.8	30.3	30.3	24.5	18.7	18.7	8.6	0.0	0.0	0.0
87.5°	15.8	13.0	13.0	11.5	7.2	2.9	1.4	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°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
2.5°	76.3	76.3	73.5	70.6	69.1	66.3	64.8	63.4	61.9	60.5	59.1
5°	80.7	79.2	74.9	70.6	66.3	61.9	59.1	56.2	53.3	51.9	50.4
7.5°	87.9	85.0	76.3	69.1	63.4	57.6	54.7	50.4	47.5	43.2	41.8
10°	96.5	90.8	79.2	70.6	61.9	54.7	50.4	46.1	41.8	36.0	34.6
12.5°	108.0	98.0	83.5	69.1	59.1	50.4	46.1	40.3	36.0	31.7	28.8
15°	118.1	105.2	85.0	69.1	56.2	46.1	40.3	34.6	30.3	24.5	21.6
17.5°	132.5	110.9	83.5	64.8	51.9	40.3	34.6	30.3	23.0	14.4	11.5
20°	157.0	115.2	80.7	60.5	44.7	33.1	25.9	20.2	10.1	2.9	0.0
22.5°	195.9	126.8	77.8	54.7	38.9	25.9	17.3	7.2	0.0	0.0	0.0
25°	270.8	146.9	77.8	51.9	34.6	18.7	5.8	0.0	0.0	0.0	0.0
27.5°	360.1	174.3	77.8	44.7	27.4	10.1	0.0	0.0	0.0	0.0	0.0
30°	450.9	204.6	77.8	38.9	21.6	1.4	0.0	0.0	0.0	0.0	0.0
32.5°	537.3	230.5	79.2	33.1	14.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	625.2	234.8	77.8	28.8	8.6	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	737.5	226.2	73.5	25.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	907.5	230.5	69.1	24.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1221.5	249.2	63.4	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2111.8	334.2	57.6	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3493.2	600.7	56.2	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4458.3	756.3	59.1	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4451.1	842.7	61.9	28.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0
55°	3957.0	858.5	66.3	31.7	18.7	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3307.4	783.6	76.3	38.9	34.6	0.0	0.0	0.0	0.0	0.0	0.0
58°	3192.1	749.1	79.2	40.3	37.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	2615.9	610.8	100.8	50.4	50.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1806.4	533.0	115.2	64.8	51.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	1277.7	481.1	125.3	69.1	41.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	955.0	443.7	138.3	70.6	21.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	731.8	416.3	170.0	74.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	596.4	384.6	206.0	77.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	494.1	347.2	198.8	85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	328.4	269.4	181.5	85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	115.2	106.6	141.2	74.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.3	14.4	20.2	25.9	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°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
2.5°	59.1	59.1	57.6	59.1	59.1	61.9	69.1	79.2	90.8	95.1	99.4
5°	49.0	47.5	46.1	46.1	46.1	50.4	56.2	67.7	80.7	86.4	89.3
7.5°	40.3	38.9	37.5	36.0	36.0	38.9	46.1	59.1	72.0	77.8	82.1
10°	33.1	30.3	28.8	27.4	27.4	30.3	37.5	50.4	64.8	70.6	76.3
12.5°	27.4	23.0	20.2	18.7	17.3	21.6	28.8	40.3	56.2	63.4	69.1
15°	18.7	14.4	10.1	8.6	7.2	11.5	18.7	31.7	47.5	56.2	61.9
17.5°	10.1	4.3	1.4	0.0	0.0	2.9	8.6	23.0	38.9	46.1	53.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	28.8	36.0	43.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	17.3	24.5	31.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	13.0	18.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	8.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.5	15.8
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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CATALOG NUMBER: GLAN-SA8A-722-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
2.5°	102.3	100.8	98.0	95.1	95.1	95.1	99.4	103.7	108.0	108.0
5°	95.1	95.1	93.6	90.8	90.8	92.2	98.0	105.2	110.9	112.4
7.5°	87.9	90.8	87.9	86.4	87.9	89.3	95.1	103.7	112.4	115.2
10°	83.5	85.0	85.0	83.5	83.5	86.4	92.2	103.7	115.2	119.6
12.5°	77.8	80.7	79.2	79.2	79.2	82.1	89.3	102.3	118.1	123.9
15°	72.0	76.3	76.3	74.9	74.9	76.3	86.4	100.8	122.4	132.5
17.5°	66.3	70.6	72.0	69.1	69.1	72.0	82.1	100.8	125.3	142.6
20°	54.7	61.9	66.3	61.9	61.9	64.8	74.9	95.1	126.8	152.7
22.5°	43.2	50.4	56.2	54.7	54.7	56.2	69.1	90.8	128.2	170.0
25°	31.7	38.9	43.2	46.1	46.1	50.4	63.4	87.9	134.0	206.0
27.5°	18.7	27.4	33.1	36.0	37.5	43.2	59.1	85.0	144.0	257.8
30°	8.6	15.8	23.0	28.8	28.8	38.9	54.7	82.1	157.0	332.8
32.5°	0.0	7.2	11.5	20.2	21.6	31.7	50.4	79.2	175.7	404.8
35°	0.0	0.0	5.8	15.8	15.8	25.9	46.1	76.3	204.6	459.5
37.5°	0.0	0.0	0.0	11.5	13.0	23.0	44.7	74.9	210.3	463.8
40°	0.0	0.0	0.0	8.6	10.1	21.6	44.7	76.3	190.1	453.8
42.5°	0.0	0.0	0.0	5.8	7.2	21.6	44.7	79.2	171.4	465.3
45°	0.0	0.0	0.0	4.3	5.8	23.0	43.2	77.8	161.3	525.8
47.5°	0.0	0.0	0.0	5.8	8.6	23.0	41.8	76.3	162.8	726.0
50°	0.0	0.0	0.0	7.2	10.1	23.0	43.2	73.5	178.6	1116.4
52.5°	0.0	0.0	0.0	5.8	8.6	25.9	47.5	72.0	194.5	1452.0
55°	0.0	0.0	0.0	1.4	4.3	33.1	51.9	72.0	219.0	1535.6
57.5°	0.0	0.0	0.0	0.0	0.0	37.5	59.1	76.3	259.3	1502.4
58°	0.0	0.0	0.0	0.0	0.0	37.5	60.5	76.3	262.2	1473.6
60°	0.0	0.0	0.0	0.0	0.0	37.5	66.3	85.0	282.3	1312.3
62.5°	0.0	0.0	0.0	0.0	0.0	31.7	79.2	106.6	293.9	1031.4
65°	0.0	0.0	0.0	0.0	0.0	25.9	93.6	116.7	302.5	821.1
67.5°	0.0	0.0	0.0	0.0	0.0	24.5	96.5	118.1	306.8	654.0
70°	0.0	0.0	0.0	0.0	0.0	25.9	95.1	126.8	321.2	531.5
72.5°	0.0	0.0	0.0	0.0	0.0	28.8	86.4	139.7	321.2	471.0
75°	0.0	0.0	0.0	0.0	0.0	30.3	80.7	157.0	292.4	407.7
77.5°	0.0	0.0	0.0	0.0	0.0	28.8	79.2	182.9	260.7	335.6
80°	2.9	4.3	4.3	2.9	2.9	24.5	77.8	185.8	221.8	230.5
82.5°	8.6	11.5	10.1	7.2	7.2	21.6	69.1	155.6	115.2	99.4
85°	15.8	18.7	18.7	15.8	15.8	20.2	43.2	56.2	38.9	31.7
87.5°	21.6	24.5	24.5	21.6	21.6	20.2	18.7	17.3	15.8	15.8
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 $\text{W}^\wedge/\text{nm}$	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

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 0.8

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			

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)