

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632543

Luminaire Tested: GWS-SA2C-830-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-830-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3922.4 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

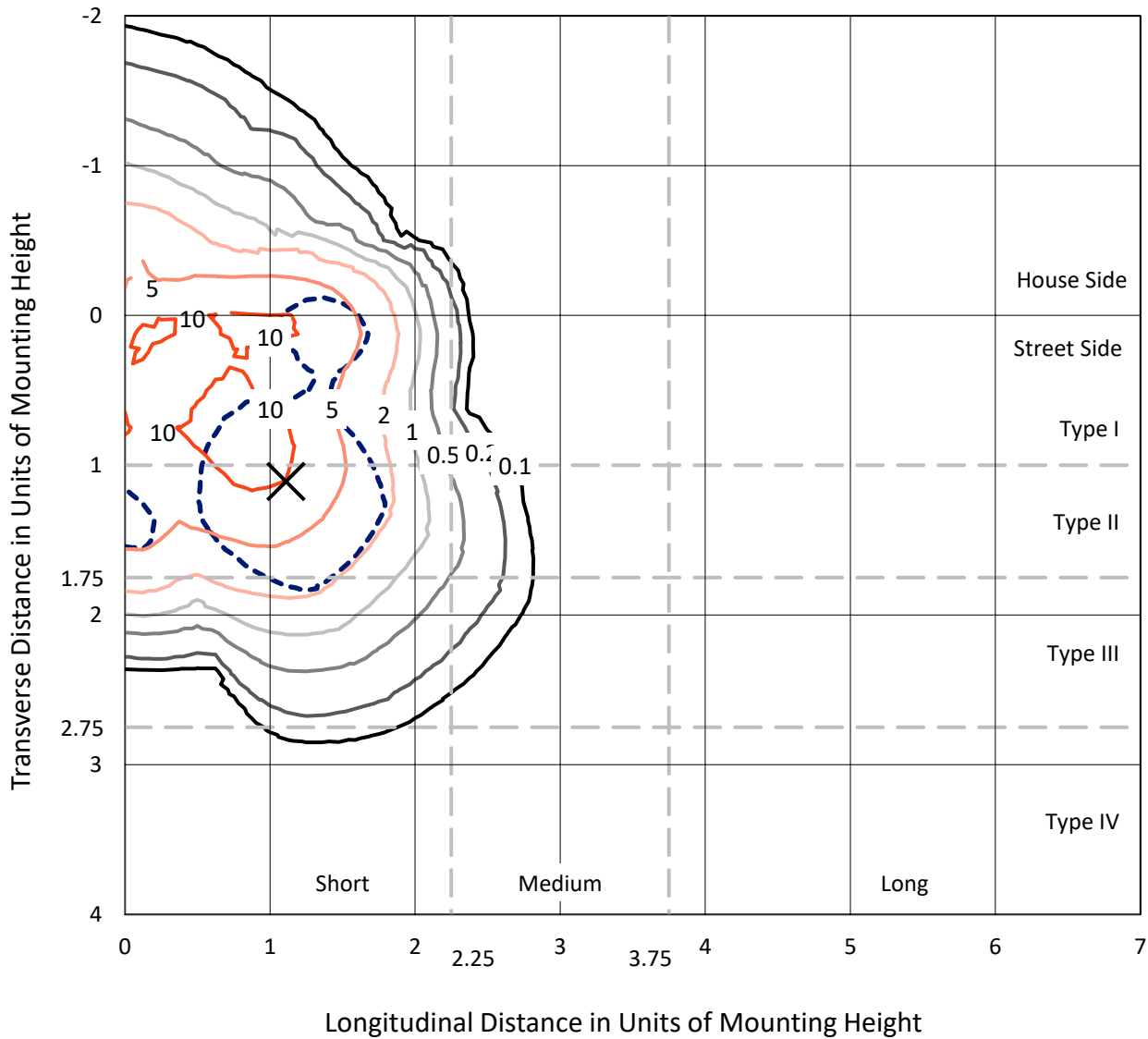
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

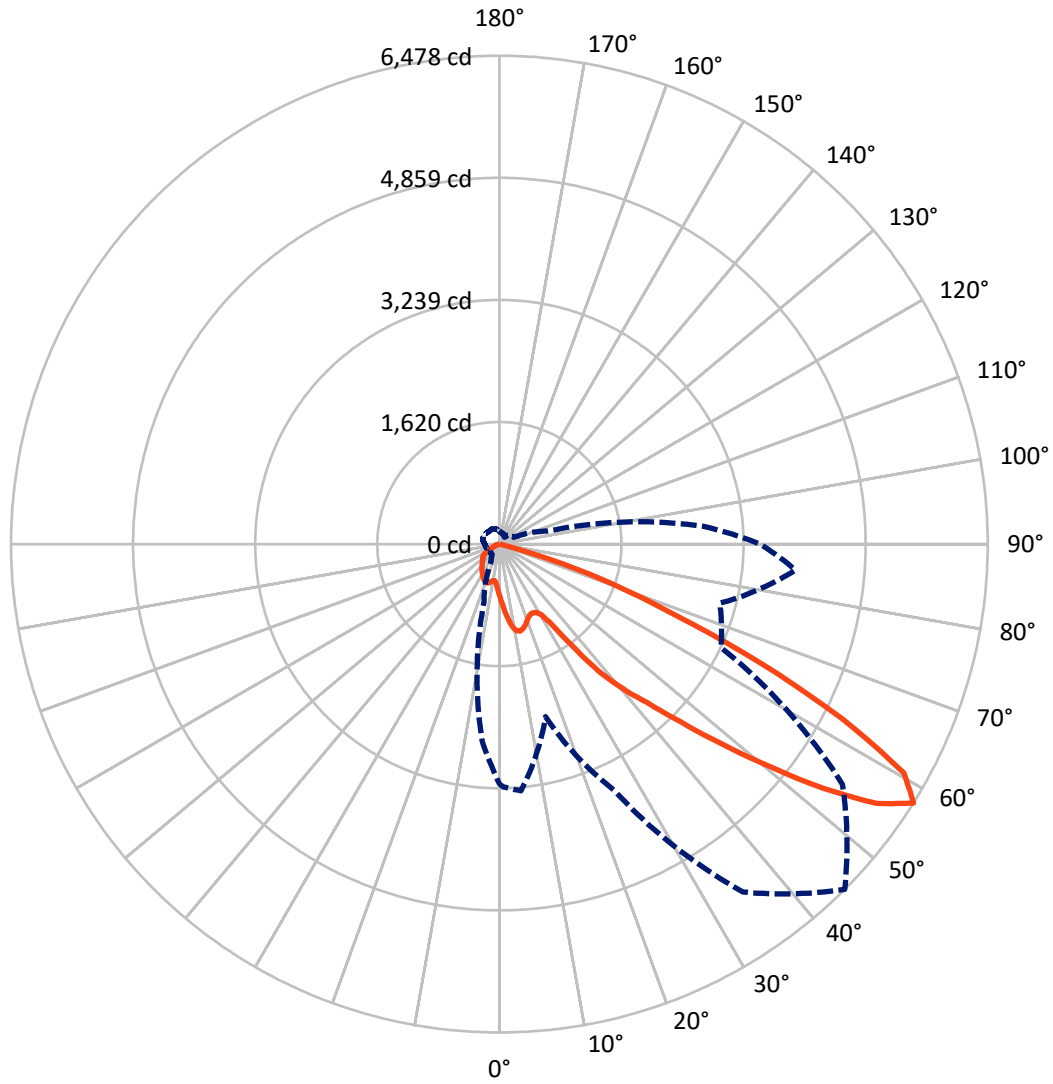
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	878.3	0.0	878.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	3044.1	0.0	3044.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	3922.4	0.0	3922.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.7
10°-20°	219.4	5.6
20°-30°	356.4	9.1
30°-40°	550.7	14.0
40°-50°	883.0	22.5
50°-60°	1206.9	30.8
60°-70°	584.5	14.9
70°-80°	53.5	1.4
80°-90°	0.2	0.0
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°	3922.4	100.0
0°-180°	3922.4	100.0

Coefficient of Utilization



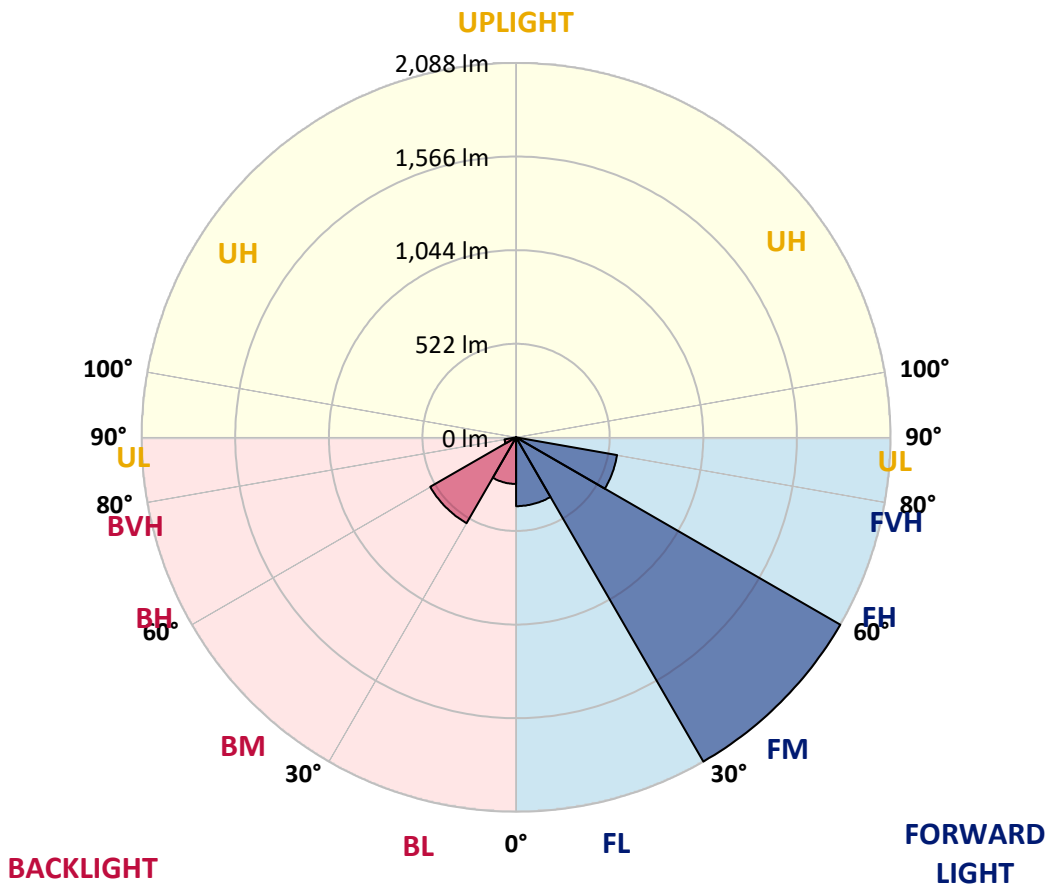
REPORT NUMBER: P632543

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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°)	383.7	9.8			
FM (30°-60°)	2088.0	53.2			
FH (60°-80°)	572.2	14.6			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	259.9	6.6	B1/500		
BM (30°-60°)	552.6	14.1	B1/1000		
BH (60°-80°)	65.8	1.7	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4
2.5°	746.9	751.6	759.5	776.4	790.6	800.1	804.3	803.3	797.5	793.2	784.8
5°	827.0	827.0	842.3	880.7	910.2	928.7	938.2	932.4	920.8	902.3	873.9
7.5°	897.1	899.7	925.5	980.3	1025.1	1051.5	1066.8	1063.6	1043.1	1007.8	950.8
10°	951.9	955.0	989.3	1056.2	1108.9	1135.8	1158.5	1160.6	1137.9	1091.0	1025.7
12.5°	1005.1	1008.3	1044.1	1108.4	1154.8	1165.9	1185.9	1193.8	1188.0	1154.8	1086.8
15°	1062.6	1069.9	1100.5	1148.5	1168.0	1154.8	1168.0	1182.2	1201.7	1198.6	1137.4
17.5°	1119.0	1124.2	1155.3	1172.2	1150.6	1116.3	1122.7	1139.5	1183.8	1227.0	1187.5
20°	1171.1	1178.5	1204.3	1182.2	1116.9	1063.6	1064.1	1086.3	1153.8	1244.4	1238.6
22.5°	1226.0	1237.0	1255.5	1193.3	1085.8	1022.0	1024.6	1044.6	1130.0	1260.7	1296.6
25°	1297.6	1308.2	1320.3	1220.7	1075.7	1001.4	1011.4	1029.9	1130.0	1288.7	1368.3
27.5°	1394.6	1402.0	1402.5	1271.8	1093.1	1004.6	1025.7	1046.8	1163.8	1344.5	1464.2
30°	1516.4	1528.0	1512.7	1351.4	1147.4	1046.8	1077.9	1104.2	1236.5	1438.9	1605.4
32.5°	1664.5	1680.8	1660.3	1469.5	1260.7	1192.2	1248.6	1263.9	1352.5	1575.4	1765.7
35°	1838.4	1852.1	1830.0	1632.9	1525.3	1538.0	1640.2	1620.7	1585.4	1743.5	1952.8
37.5°	2029.2	2041.9	1999.2	1880.6	1916.4	1971.2	2134.6	2067.7	1953.8	1960.2	2155.7
40°	2204.2	2217.9	2151.0	2149.9	2223.7	2323.8	2521.0	2428.7	2273.8	2243.7	2346.0
42.5°	2385.5	2395.0	2334.4	2293.3	2460.9	2667.0	2875.7	2751.3	2485.6	2453.0	2584.2
45°	2644.3	2664.3	2556.3	2363.9	2674.3	3061.7	3352.7	3109.7	2630.1	2603.7	2948.9
47.5°	3024.8	3039.6	2819.3	2408.2	2873.0	3553.5	3948.8	3574.6	2757.1	2697.0	3447.5
50°	3339.5	3349.5	3061.2	2456.7	3084.4	4083.7	4628.2	4125.9	2899.9	2851.4	3912.9
52.5°	3571.4	3609.4	3379.0	2556.3	3362.2	4707.2	5380.3	4778.9	3122.9	3149.8	4298.8
55°	3619.4	3671.0	3596.2	2617.4	3606.7	5342.4	6075.0	5363.4	3345.3	3375.9	4428.4
57.5°	3180.9	3222.0	3284.2	2370.7	3600.9	5633.3	6478.2	5557.4	3244.1	3027.5	3943.0
60°	2382.9	2411.3	2524.1	1812.1	3311.6	5376.1	6164.1	5227.5	2836.7	2310.1	3004.3
62.5°	1413.1	1425.7	1568.6	1173.8	2748.7	4629.8	5112.0	4510.6	2241.6	1553.8	1840.0
65°	542.4	537.1	646.2	579.2	2021.3	3687.9	3802.3	3438.6	1538.0	712.1	701.5
67.5°	83.8	80.1	108.0	171.3	1457.9	2555.7	2508.8	2478.3	963.5	166.0	144.9
70°	19.0	19.0	23.2	50.6	890.7	1501.6	1607.0	1532.2	616.7	35.3	19.0
72.5°	9.0	9.0	11.1	21.6	322.6	618.8	721.0	710.0	200.3	11.6	6.9
75°	3.2	3.7	3.7	4.7	19.5	32.2	73.8	52.7	12.6	0.0	0.0
77.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	0.0	0.0	0.0	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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CATALOG NUMBER: GWS-SA2C-830-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4
2.5°	766.4	762.7	749.0	730.5	712.6	696.8	680.4	660.9	646.7	630.4	625.1
5°	851.7	828.5	791.1	752.1	716.3	685.7	656.2	624.6	601.4	578.2	570.3
7.5°	923.9	889.7	829.1	770.6	721.6	678.3	635.6	592.4	558.7	531.3	522.9
10°	988.8	949.2	868.1	795.9	734.2	684.1	632.5	578.2	534.4	501.8	493.9
12.5°	1044.6	998.8	901.3	814.8	739.5	682.0	632.0	588.7	549.2	511.8	501.8
15°	1091.6	1041.0	929.2	827.5	731.6	655.7	611.9	605.1	601.9	560.8	541.3
17.5°	1137.4	1080.5	951.9	833.3	709.4	609.3	577.7	608.8	642.0	615.1	590.3
20°	1185.4	1120.5	975.1	834.3	672.5	557.1	551.8	600.9	643.0	634.6	611.4
22.5°	1241.8	1170.6	1004.1	833.8	626.2	512.8	532.9	585.6	619.8	619.3	600.9
25°	1323.5	1233.9	1043.1	837.0	575.6	478.6	511.8	559.7	587.7	586.6	571.3
27.5°	1411.0	1309.2	1093.7	844.9	532.3	458.5	487.0	524.4	548.7	547.6	534.4
30°	1533.8	1396.2	1142.2	845.4	501.2	448.0	459.6	485.4	508.6	506.0	496.0
32.5°	1682.9	1494.2	1182.7	815.4	481.7	438.0	431.1	444.3	462.2	458.5	455.9
35°	1863.2	1610.7	1217.5	749.5	451.7	418.0	399.5	402.2	414.8	416.9	415.9
37.5°	2068.7	1749.3	1260.7	662.5	411.1	389.0	364.2	362.1	369.5	376.3	381.6
40°	2271.7	1905.3	1319.2	574.5	374.2	352.1	328.4	323.1	326.3	338.4	349.4
42.5°	2499.9	2086.1	1382.5	499.1	348.9	311.5	288.8	278.8	287.8	307.3	320.5
45°	2828.8	2339.7	1444.2	439.0	338.4	275.7	245.1	244.0	254.0	279.3	294.1
47.5°	3290.5	2667.5	1484.7	392.1	337.9	247.7	211.4	217.7	229.3	254.0	270.9
50°	3740.6	3078.1	1439.9	356.3	326.8	229.3	186.1	198.7	210.3	231.9	249.3
52.5°	4012.0	3298.9	1265.5	322.6	292.5	220.8	161.3	183.4	185.5	205.0	223.5
55°	3983.6	3156.1	969.3	270.4	241.9	208.7	135.5	165.5	166.6	181.3	197.1
57.5°	3457.6	2709.7	665.7	219.3	181.8	172.4	111.7	139.7	149.7	158.6	170.2
60°	2576.8	1977.0	296.7	178.1	115.4	116.5	95.4	105.4	120.7	131.2	141.3
62.5°	1518.5	1137.4	120.7	107.0	63.8	73.3	77.0	77.0	86.4	94.3	100.7
65°	574.0	397.9	49.0	53.8	33.2	34.3	45.3	55.9	63.2	70.1	78.5
67.5°	100.7	69.6	25.3	20.0	19.5	17.4	23.2	36.4	40.6	45.9	49.5
70°	16.9	14.2	10.5	10.0	9.0	9.5	15.3	25.8	28.5	30.0	31.6
72.5°	4.7	4.2	3.2	2.6	2.1	2.6	9.5	20.0	21.1	22.1	23.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	3.7	14.2	15.3	15.8	17.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.2	5.3	4.2
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	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°	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4
2.5°	621.9	611.4	605.6	602.4	602.4	598.2	593.5	591.9	598.7	598.7	610.3
5°	560.3	551.8	542.4	536.6	527.6	529.2	523.9	523.4	530.2	533.4	545.5
7.5°	517.6	507.0	501.2	497.6	492.8	490.7	486.0	484.4	488.1	493.3	504.9
10°	489.1	487.5	487.0	489.6	489.6	487.0	482.8	480.2	481.2	491.2	504.4
12.5°	496.5	499.7	500.7	504.9	507.0	504.9	501.8	502.8	509.7	528.1	547.6
15°	528.6	526.0	525.0	527.1	528.6	526.5	525.5	533.4	557.1	583.5	605.6
17.5°	562.9	546.0	538.7	538.7	539.7	538.7	539.7	555.0	593.5	619.8	636.2
20°	580.3	549.2	537.6	535.0	537.1	537.6	541.3	558.7	600.9	619.3	623.0
22.5°	575.0	536.0	522.9	520.7	522.9	525.0	528.6	543.4	582.9	592.4	590.8
25°	548.7	510.2	499.7	499.7	504.4	503.9	505.5	516.0	548.7	554.5	551.8
27.5°	515.5	479.1	470.1	475.4	479.6	478.6	479.1	488.1	512.3	513.9	511.3
30°	481.7	450.1	441.7	448.0	453.8	452.8	453.3	462.2	477.5	475.9	472.3
32.5°	447.5	424.3	418.0	421.7	430.6	429.6	431.7	441.2	447.0	440.1	435.9
35°	415.9	403.7	399.0	401.1	408.0	409.5	413.2	419.5	419.5	411.1	403.7
37.5°	386.3	384.8	381.6	379.0	385.3	390.0	395.3	402.7	392.1	380.0	373.2
40°	358.9	365.8	361.6	354.7	358.4	365.3	375.8	381.6	368.9	356.8	345.2
42.5°	333.6	345.2	343.6	335.2	338.4	344.7	356.8	361.6	346.8	333.1	322.0
45°	309.4	325.7	326.8	316.2	319.4	325.7	340.0	341.5	322.6	307.8	299.9
47.5°	288.3	306.2	306.8	298.8	299.9	308.9	322.0	322.6	301.0	287.3	277.2
50°	268.3	288.8	290.4	283.6	284.6	295.2	306.2	304.1	280.9	266.7	257.7
52.5°	244.0	272.0	275.7	272.5	276.7	285.1	292.0	284.6	257.7	243.5	235.6
55°	217.7	254.0	262.0	259.8	264.6	271.4	273.0	268.3	234.5	220.3	212.9
57.5°	187.1	209.2	222.9	218.7	222.4	229.3	234.0	230.3	205.0	194.0	187.6
60°	155.0	169.7	172.9	166.0	162.9	175.0	186.1	181.3	159.7	152.8	145.5
62.5°	113.3	130.2	132.3	123.3	119.6	132.8	142.3	137.6	113.8	106.5	100.7
65°	90.7	106.5	110.7	102.3	100.1	110.2	116.0	104.4	87.5	79.6	73.3
67.5°	59.6	72.2	83.3	82.7	78.5	81.7	77.5	68.0	55.9	51.7	47.4
70°	36.9	44.3	51.1	53.8	53.2	52.2	46.4	39.5	35.8	34.3	32.2
72.5°	28.5	35.8	41.1	42.7	43.2	41.6	36.9	30.6	26.9	24.8	23.2
75°	21.1	26.9	31.1	33.2	34.3	33.2	28.5	24.2	20.6	19.0	17.4
77.5°	7.4	9.0	11.1	12.1	11.6	11.1	10.0	10.0	7.9	7.4	6.3
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	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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CATALOG NUMBER: GWS-SA2C-830-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4	689.4
2.5°	623.5	633.0	650.4	666.2	683.1	700.5	719.4	738.9	747.9	746.9
5°	564.0	584.5	613.0	644.1	678.9	716.3	757.9	800.6	819.1	827.0
7.5°	526.5	555.5	593.0	632.5	678.3	731.6	794.3	861.2	888.1	897.1
10°	531.3	565.0	596.1	634.6	683.6	752.7	830.7	910.2	941.9	951.9
12.5°	569.8	577.1	585.6	617.2	678.9	768.5	863.9	958.7	995.1	1005.1
15°	604.5	570.3	554.5	583.5	662.0	779.5	897.6	1010.9	1051.0	1062.6
17.5°	606.1	554.5	519.2	541.8	634.6	784.3	930.8	1064.1	1107.9	1119.0
20°	586.6	537.1	491.8	492.3	597.2	783.2	958.2	1112.1	1161.1	1171.1
22.5°	558.2	516.5	469.6	453.3	557.1	781.1	988.3	1163.2	1216.5	1226.0
25°	526.5	490.2	448.5	423.8	517.1	783.2	1030.4	1230.2	1288.7	1297.6
27.5°	492.3	461.2	432.2	412.2	483.3	791.1	1081.0	1315.6	1385.1	1394.6
30°	456.4	433.2	421.7	409.5	462.2	793.2	1135.8	1415.2	1503.2	1516.4
32.5°	421.1	408.5	409.0	411.1	442.2	778.5	1185.9	1525.9	1643.4	1664.5
35°	388.4	384.8	395.3	405.8	413.2	740.5	1229.6	1656.6	1816.8	1838.4
37.5°	360.5	363.7	376.9	387.4	381.6	686.8	1287.6	1820.0	2010.8	2029.2
40°	333.6	341.5	356.8	361.6	357.4	624.0	1357.2	1977.6	2178.9	2204.2
42.5°	308.9	314.7	336.3	337.3	350.5	560.3	1424.1	2147.3	2372.3	2385.5
45°	288.8	287.8	309.9	316.8	359.5	489.6	1489.5	2373.4	2625.3	2644.3
47.5°	269.3	268.3	273.5	304.6	363.1	424.3	1554.3	2704.4	2992.2	3024.8
50°	250.9	252.5	236.1	298.8	343.1	374.2	1583.8	3010.6	3325.8	3339.5
52.5°	234.5	228.7	200.3	279.9	300.4	326.8	1500.0	3149.8	3532.4	3571.4
55°	211.4	179.2	165.0	227.2	237.2	285.1	1228.6	3069.1	3550.3	3619.4
57.5°	180.8	140.7	140.2	167.6	167.6	264.6	786.9	2622.2	3059.6	3180.9
60°	139.1	109.1	116.0	116.5	107.5	192.9	441.7	1899.6	2262.2	2382.9
62.5°	99.1	83.3	87.5	69.6	61.7	96.5	211.9	1093.7	1396.2	1413.1
65°	66.4	56.4	45.9	38.5	37.9	41.1	87.5	395.3	480.7	542.4
67.5°	43.7	34.3	24.2	24.2	27.4	27.4	33.2	65.4	91.7	83.8
70°	28.5	23.7	15.3	14.8	17.9	17.9	16.9	17.9	19.0	19.0
72.5°	21.1	17.9	9.0	7.9	10.0	10.5	9.5	9.0	9.0	9.0
75°	15.8	12.6	5.3	3.7	4.7	6.3	5.3	3.7	3.7	3.2
77.5°	6.3	4.7	2.1	1.6	2.6	3.7	3.2	1.6	1.1	1.1
80°	0.5	1.1	1.1	1.1	1.6	2.1	2.6	1.1	0.5	0.5
82.5°	0.0	0.5	0.5	0.5	1.1	1.6	2.1	1.1	0.5	0.5
85°	0.0	0.0	0.0	0.0	1.1	1.6	1.1	0.5	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.5	1.6	1.1	0.5	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics



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

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)