

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: P633533

Luminaire Tested: GWS-SA2E-830-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633533
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-SA2E-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: 6183.7 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

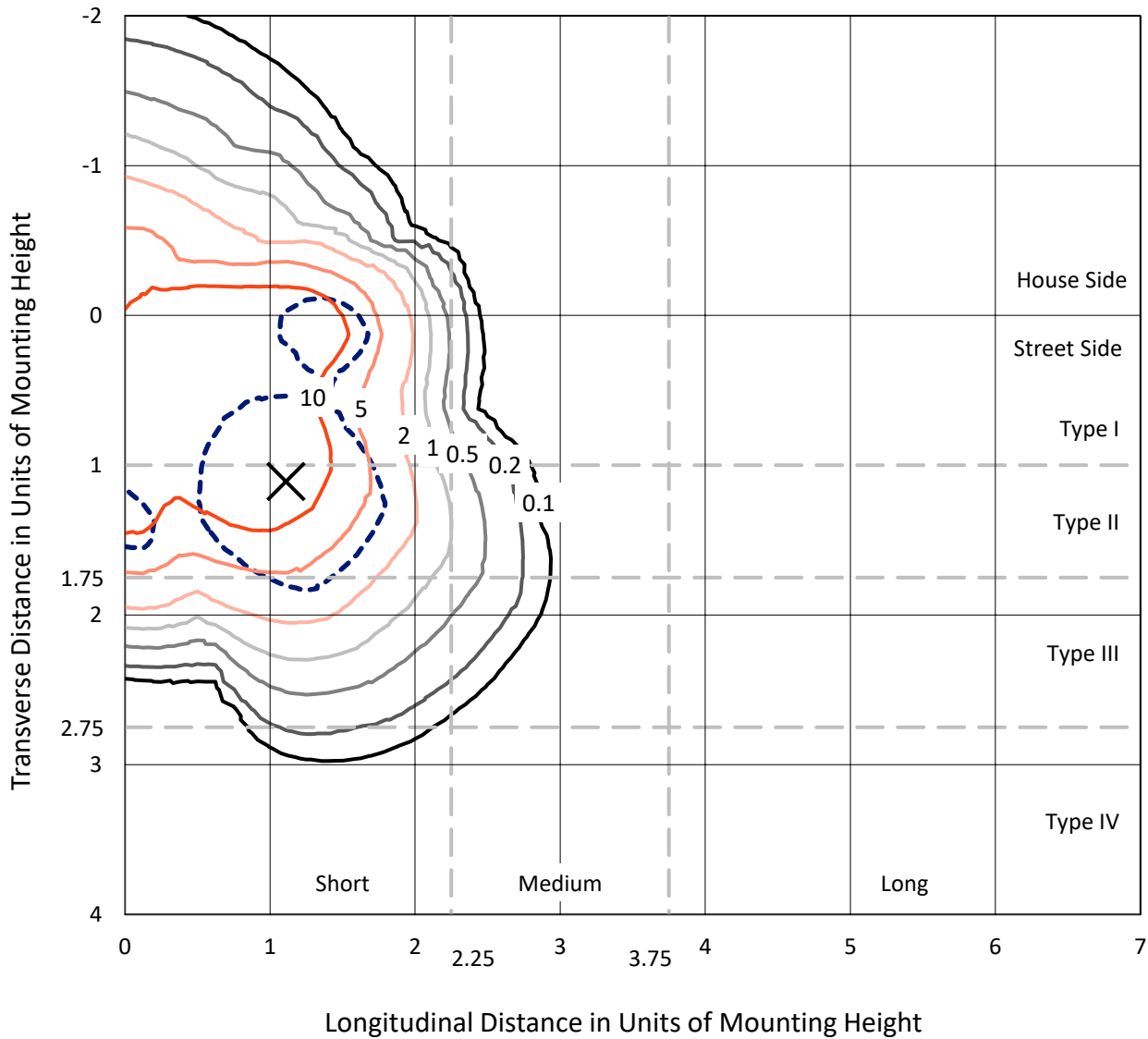
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

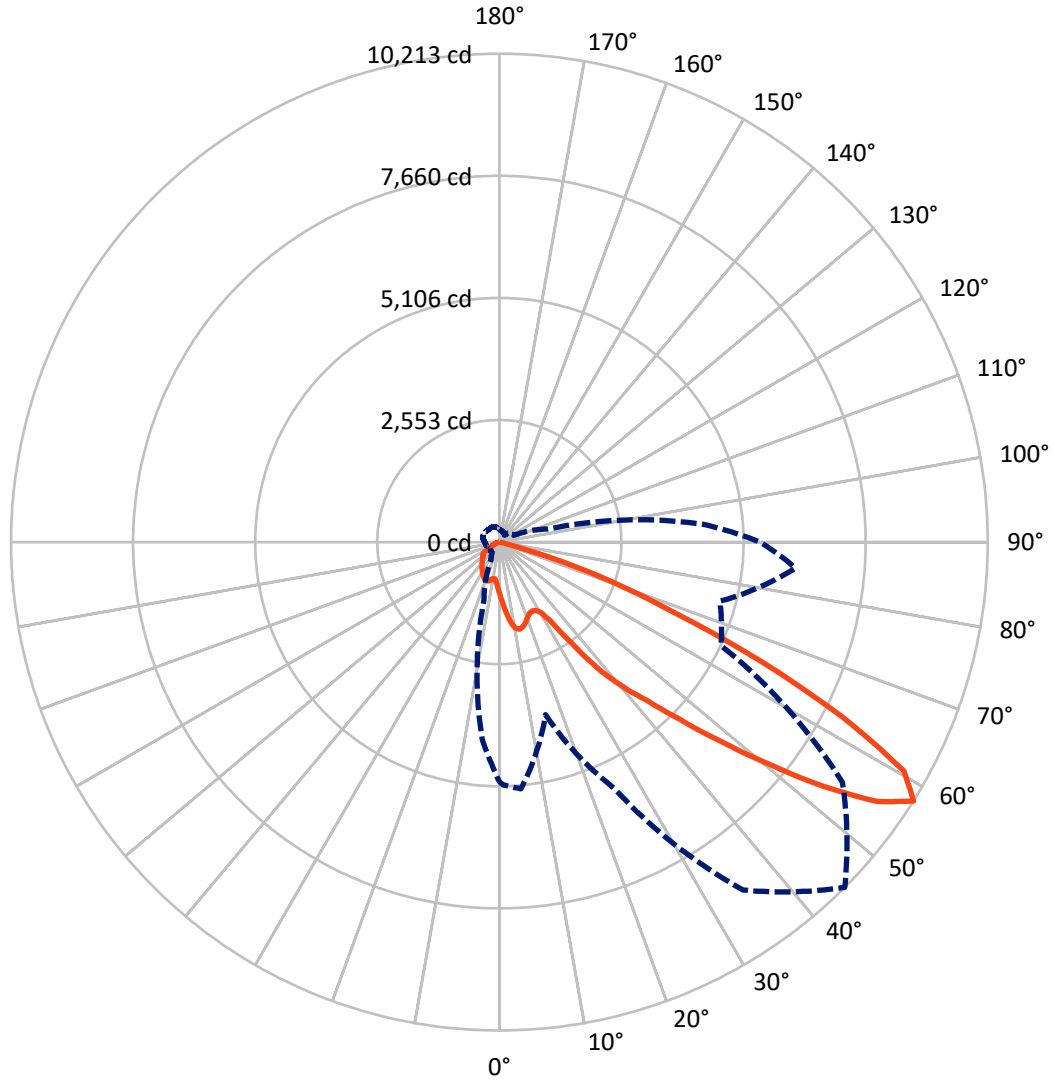
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 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	1384.7	0.0	1384.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	4799.0	0.0	4799.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	6183.7	0.0	6183.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	1.7
10°-20°	345.9	5.6
20°-30°	561.9	9.1
30°-40°	868.2	14.0
40°-50°	1392.1	22.5
50°-60°	1902.6	30.8
60°-70°	921.5	14.9
70°-80°	84.4	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°	6183.7	100.0
0°-180°	6183.7	100.0

Coefficient of Utilization



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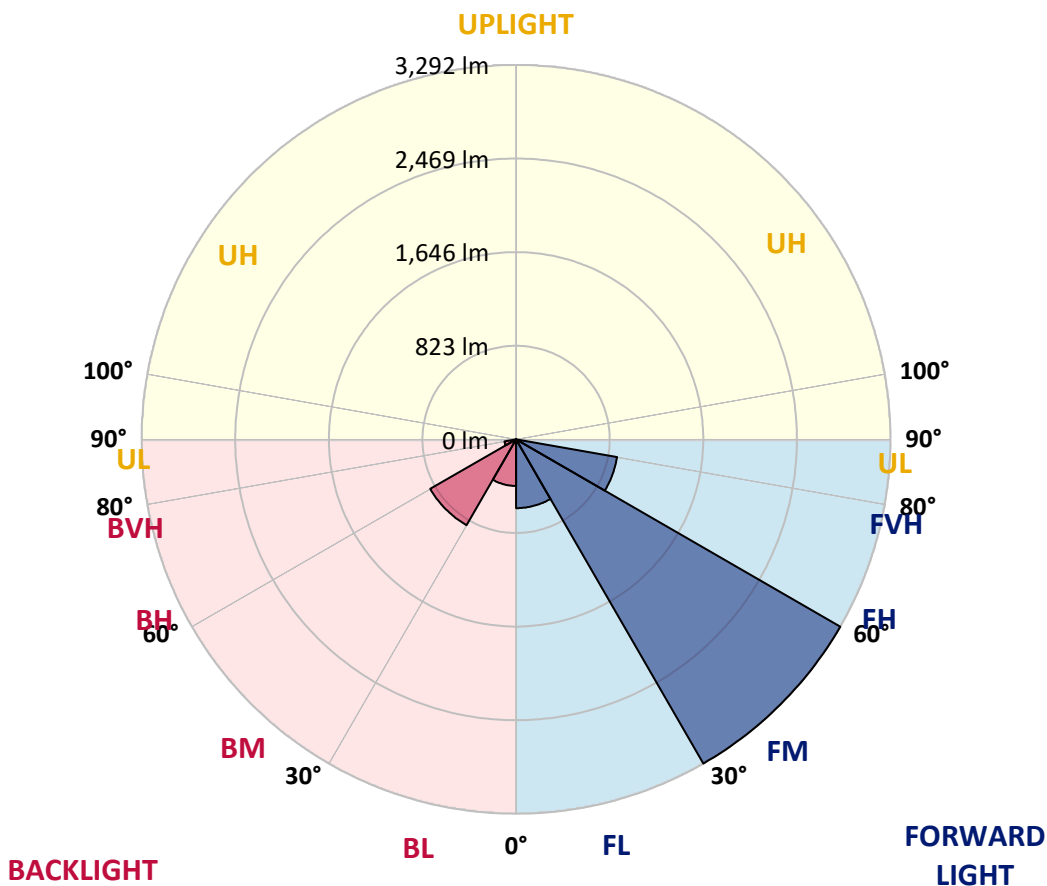
CATALOG NUMBER: GWS-SA2E-830-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.0	9.8			
FM (30°-60°)	3291.7	53.2			
FH (60°-80°)	902.1	14.6			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	409.7	6.6	B1/500		
BM (30°-60°)	871.2	14.1	B1/1000		
BH (60°-80°)	103.8	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9
2.5°	1177.4	1184.9	1197.4	1224.0	1246.4	1261.3	1268.0	1266.3	1257.2	1250.5	1237.2
5°	1303.7	1303.7	1327.8	1388.5	1435.0	1464.1	1479.0	1469.9	1451.6	1422.5	1377.7
7.5°	1414.2	1418.4	1459.1	1545.5	1616.2	1657.7	1681.8	1676.8	1644.4	1588.7	1499.0
10°	1500.7	1505.6	1559.6	1665.2	1748.3	1790.6	1826.4	1829.7	1794.0	1720.0	1617.0
12.5°	1584.6	1589.6	1646.1	1747.4	1820.6	1838.0	1869.6	1882.0	1872.9	1820.6	1713.4
15°	1675.1	1686.8	1735.0	1810.6	1841.3	1820.6	1841.3	1863.8	1894.5	1889.5	1793.1
17.5°	1764.1	1772.4	1821.4	1848.0	1813.9	1759.9	1769.9	1796.5	1866.3	1934.4	1872.1
20°	1846.3	1858.0	1898.7	1863.8	1760.7	1676.8	1677.6	1712.5	1818.9	1961.8	1952.7
22.5°	1932.7	1950.2	1979.3	1881.2	1711.7	1611.2	1615.3	1646.9	1781.5	1987.6	2044.1
25°	2045.7	2062.4	2081.5	1924.4	1695.9	1578.8	1594.5	1623.6	1781.5	2031.6	2157.1
27.5°	2198.6	2210.3	2211.1	2005.0	1723.3	1583.7	1617.0	1650.2	1834.7	2119.7	2308.3
30°	2390.6	2408.9	2384.8	2130.5	1808.9	1650.2	1699.2	1740.8	1949.4	2268.4	2531.0
32.5°	2624.1	2649.8	2617.4	2316.6	1987.6	1879.6	1968.5	1992.6	2132.2	2483.6	2783.6
35°	2898.3	2919.9	2885.0	2574.2	2404.7	2424.6	2585.8	2555.1	2499.4	2748.7	3078.6
37.5°	3199.1	3219.0	3151.7	2964.7	3021.2	3107.7	3365.3	3259.7	3080.2	3090.2	3398.5
40°	3474.9	3496.5	3391.0	3389.3	3505.7	3663.6	3974.3	3828.9	3584.6	3537.3	3698.5
42.5°	3760.8	3775.7	3680.2	3615.4	3879.6	4204.5	4533.5	4337.4	3918.6	3867.1	4074.0
45°	4168.8	4200.3	4030.0	3726.7	4216.1	4826.9	5285.5	4902.5	4146.3	4104.8	4649.0
47.5°	4768.7	4792.0	4444.6	3796.5	4529.4	5602.1	6225.3	5635.3	4346.6	4251.9	5435.1
50°	5264.7	5280.5	4826.0	3872.9	4862.6	6438.0	7296.4	6504.5	4571.8	4495.3	6168.8
52.5°	5630.4	5690.2	5327.1	4030.0	5300.5	7421.0	8482.1	7534.0	4923.2	4965.6	6777.0
55°	5706.0	5787.4	5669.4	4126.4	5686.0	8422.3	9577.3	8455.5	5273.9	5322.1	6981.4
57.5°	5014.6	5079.5	5177.5	3737.5	5676.9	8880.9	10212.9	8761.3	5114.4	4772.8	6216.2
60°	3756.6	3801.5	3979.3	2856.7	5220.7	8475.4	9717.7	8241.1	4472.0	3642.0	4736.3
62.5°	2227.7	2247.7	2472.8	1850.5	4333.3	7298.9	8059.2	7111.1	3533.9	2449.6	2900.8
65°	855.0	846.7	1018.7	913.2	3186.6	5814.0	5994.3	5421.0	2424.6	1122.6	1106.0
67.5°	132.1	126.3	170.3	270.1	2298.3	4029.2	3955.2	3907.0	1518.9	261.7	228.5
70°	29.9	29.9	36.6	79.8	1404.3	2367.3	2533.5	2415.5	972.2	55.7	29.9
72.5°	14.1	14.1	17.4	34.1	508.5	975.5	1136.7	1119.3	315.8	18.3	10.8
75°	5.0	5.8	5.8	7.5	30.7	50.7	116.3	83.1	19.9	0.0	0.0
77.5°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9
2.5°	1208.2	1202.4	1180.7	1151.7	1123.4	1098.5	1072.7	1042.0	1019.5	993.8	985.5
5°	1342.8	1306.2	1247.2	1185.7	1129.2	1081.0	1034.5	984.6	948.1	911.5	899.1
7.5°	1456.6	1402.6	1307.0	1214.8	1137.5	1069.4	1002.1	934.0	880.8	837.6	824.3
10°	1558.8	1496.5	1368.5	1254.7	1157.5	1078.5	997.1	911.5	842.6	791.0	778.6
12.5°	1646.9	1574.6	1420.9	1284.6	1165.8	1075.2	996.3	928.1	865.8	806.8	791.0
15°	1720.8	1641.1	1464.9	1304.6	1153.3	1033.7	964.7	953.9	948.9	884.1	853.4
17.5°	1793.1	1703.4	1500.7	1313.7	1118.4	960.6	910.7	959.7	1012.1	969.7	930.6
20°	1868.8	1766.5	1537.2	1315.4	1060.3	878.3	870.0	947.3	1013.7	1000.4	963.9
22.5°	1957.7	1845.5	1582.9	1314.5	987.1	808.5	840.1	923.2	977.2	976.3	947.3
25°	2086.5	1945.2	1644.4	1319.5	907.4	754.5	806.8	882.4	926.5	924.8	900.7
27.5°	2224.4	2064.0	1724.2	1332.0	839.2	722.9	767.8	826.8	865.0	863.3	842.6
30°	2418.0	2201.1	1800.6	1332.8	790.2	706.3	724.6	765.3	801.8	797.7	781.9
32.5°	2653.1	2355.7	1864.6	1285.4	759.5	690.5	679.7	700.5	728.7	722.9	718.8
35°	2937.3	2539.3	1919.4	1181.6	712.1	658.9	629.8	634.0	653.9	657.3	655.6
37.5°	3261.4	2757.8	1987.6	1044.5	648.1	613.2	574.2	570.8	582.5	593.3	601.6
40°	3581.3	3003.8	2079.8	905.7	590.0	555.1	517.7	509.4	514.3	533.5	550.9
42.5°	3941.1	3288.8	2179.5	786.9	550.1	491.1	455.3	439.6	453.7	484.4	505.2
45°	4459.6	3688.5	2276.7	692.2	533.5	434.6	386.4	384.7	400.5	440.4	463.7
47.5°	5187.5	4205.3	2340.7	618.2	532.6	390.5	333.2	343.2	361.5	400.5	427.1
50°	5897.1	4852.6	2270.1	561.7	515.2	361.5	293.3	313.3	331.5	365.6	393.0
52.5°	6325.0	5200.8	1995.1	508.5	461.2	348.2	254.3	289.2	292.5	323.2	352.3
55°	6280.1	4975.6	1528.1	426.3	381.4	329.0	213.5	260.9	262.6	285.8	310.8
57.5°	5450.9	4271.8	1049.5	345.7	286.7	271.7	176.2	220.2	236.0	250.1	268.4
60°	4062.4	3116.8	467.8	280.9	182.0	183.6	150.4	166.2	190.3	206.9	222.7
62.5°	2393.9	1793.1	190.3	168.7	100.5	115.5	121.3	121.3	136.3	148.7	158.7
65°	904.9	627.3	77.3	84.8	52.3	54.0	71.5	88.1	99.7	110.5	123.8
67.5°	158.7	109.7	39.9	31.6	30.7	27.4	36.6	57.3	64.0	72.3	78.1
70°	26.6	22.4	16.6	15.8	14.1	15.0	24.1	40.7	44.9	47.4	49.9
72.5°	7.5	6.6	5.0	4.2	3.3	4.2	15.0	31.6	33.2	34.9	37.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	22.4	24.1	24.9	27.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	6.6	8.3	6.6
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°	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9
2.5°	980.5	963.9	954.7	949.7	949.7	943.1	935.6	933.1	943.9	943.9	962.2
5°	883.3	870.0	855.0	845.9	831.8	834.3	825.9	825.1	835.9	840.9	860.0
7.5°	816.0	799.4	790.2	784.4	776.9	773.6	766.1	763.6	769.4	777.7	796.0
10°	771.1	768.6	767.8	771.9	771.9	767.8	761.1	757.0	758.6	774.4	795.2
12.5°	782.7	787.7	789.4	796.0	799.4	796.0	791.0	792.7	803.5	832.6	863.3
15°	833.4	829.3	827.6	830.9	833.4	830.1	828.4	840.9	878.3	919.8	954.7
17.5°	887.4	860.8	849.2	849.2	850.9	849.2	850.9	875.0	935.6	977.2	1002.9
20°	914.8	865.8	847.5	843.4	846.7	847.5	853.4	880.8	947.3	976.3	982.2
22.5°	906.5	845.1	824.3	821.0	824.3	827.6	833.4	856.7	919.0	934.0	931.5
25°	865.0	804.3	787.7	787.7	795.2	794.4	796.9	813.5	865.0	874.1	870.0
27.5°	812.6	755.3	741.2	749.5	756.1	754.5	755.3	769.4	807.7	810.2	806.0
30°	759.5	709.6	696.3	706.3	715.4	713.8	714.6	728.7	752.8	750.3	744.5
32.5°	705.5	668.9	658.9	664.7	678.9	677.2	680.5	695.5	704.6	693.8	687.2
35°	655.6	636.5	629.0	632.3	643.1	645.6	651.4	661.4	661.4	648.1	636.5
37.5°	609.1	606.6	601.6	597.4	607.4	614.9	623.2	634.8	618.2	599.1	588.3
40°	565.9	576.7	570.0	559.2	565.0	575.8	592.5	601.6	581.6	562.5	544.3
42.5°	526.0	544.3	541.8	528.5	533.5	543.4	562.5	570.0	546.7	525.1	507.7
45°	487.8	513.5	515.2	498.6	503.5	513.5	535.9	538.4	508.5	485.3	472.8
47.5°	454.5	482.8	483.6	471.1	472.8	486.9	507.7	508.5	474.5	452.9	437.1
50°	422.9	455.3	457.8	447.0	448.7	465.3	482.8	479.4	442.9	420.4	406.3
52.5°	384.7	428.8	434.6	429.6	436.2	449.5	460.3	448.7	406.3	383.9	371.4
55°	343.2	400.5	413.0	409.6	417.1	427.9	430.4	422.9	369.8	347.3	335.7
57.5°	295.0	329.9	351.5	344.8	350.7	361.5	368.9	363.1	323.2	305.8	295.8
60°	244.3	267.6	272.5	261.7	256.8	275.9	293.3	285.8	251.8	241.0	229.3
62.5°	178.6	205.2	208.6	194.4	188.6	209.4	224.4	216.9	179.5	167.8	158.7
65°	142.9	167.8	174.5	161.2	157.9	173.7	182.8	164.5	137.9	125.5	115.5
67.5°	93.9	113.8	131.3	130.5	123.8	128.8	122.1	107.2	88.1	81.4	74.8
70°	58.2	69.8	80.6	84.8	83.9	82.3	73.1	62.3	56.5	54.0	50.7
72.5°	44.9	56.5	64.8	67.3	68.1	65.6	58.2	48.2	42.4	39.1	36.6
75°	33.2	42.4	49.0	52.3	54.0	52.3	44.9	38.2	32.4	29.9	27.4
77.5°	11.6	14.1	17.4	19.1	18.3	17.4	15.8	15.8	12.5	11.6	10.0
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	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9	1086.9
2.5°	983.0	997.9	1025.4	1050.3	1076.9	1104.3	1134.2	1165.0	1179.1	1177.4
5°	889.1	921.5	966.4	1015.4	1070.2	1129.2	1194.9	1262.2	1291.3	1303.7
7.5°	830.1	875.8	934.8	997.1	1069.4	1153.3	1252.2	1357.7	1400.1	1414.2
10°	837.6	890.8	939.8	1000.4	1077.7	1186.6	1309.5	1435.0	1484.9	1500.7
12.5°	898.2	909.9	923.2	973.0	1070.2	1211.5	1361.9	1511.5	1568.8	1584.6
15°	953.1	899.1	874.1	919.8	1043.6	1228.9	1415.1	1593.7	1656.9	1675.1
17.5°	955.6	874.1	818.5	854.2	1000.4	1236.4	1467.4	1677.6	1746.6	1764.1
20°	924.8	846.7	775.3	776.1	941.4	1234.8	1510.6	1753.3	1830.5	1846.3
22.5°	880.0	814.3	740.4	714.6	878.3	1231.4	1558.0	1833.9	1917.8	1932.7
25°	830.1	772.8	707.1	668.1	815.1	1234.8	1624.5	1939.4	2031.6	2045.7
27.5°	776.1	727.1	681.4	649.8	762.0	1247.2	1704.2	2074.0	2183.7	2198.6
30°	719.6	683.0	664.7	645.6	728.7	1250.5	1790.6	2231.0	2369.8	2390.6
32.5°	663.9	644.0	644.8	648.1	697.1	1227.3	1869.6	2405.5	2590.8	2624.1
35°	612.4	606.6	623.2	639.8	651.4	1167.5	1938.6	2611.6	2864.2	2898.3
37.5°	568.4	573.3	594.1	610.7	601.6	1082.7	2030.0	2869.2	3170.0	3199.1
40°	526.0	538.4	562.5	570.0	563.4	983.8	2139.6	3117.6	3435.0	3474.9
42.5°	486.9	496.1	530.1	531.8	552.6	883.3	2245.2	3385.2	3740.0	3760.8
45°	455.3	453.7	488.6	499.4	566.7	771.9	2348.2	3741.7	4138.8	4168.8
47.5°	424.6	422.9	431.3	480.3	572.5	668.9	2450.4	4263.5	4717.2	4768.7
50°	395.5	398.0	372.3	471.1	540.9	590.0	2496.9	4746.3	5243.1	5264.7
52.5°	369.8	360.6	315.8	441.2	473.6	515.2	2364.8	4965.6	5568.9	5630.4
55°	333.2	282.5	260.1	358.1	373.9	449.5	1936.9	4838.5	5597.1	5706.0
57.5°	285.0	221.9	221.0	264.2	264.2	417.1	1240.6	4133.9	4823.5	5014.6
60°	219.4	172.0	182.8	183.6	169.5	304.1	696.3	2994.7	3566.3	3756.6
62.5°	156.2	131.3	137.9	109.7	97.2	152.1	334.0	1724.2	2201.1	2227.7
65°	104.7	88.9	72.3	60.7	59.8	64.8	137.9	623.2	757.8	855.0
67.5°	69.0	54.0	38.2	38.2	43.2	43.2	52.3	103.0	144.6	132.1
70°	44.9	37.4	24.1	23.3	28.3	28.3	26.6	28.3	29.9	29.9
72.5°	33.2	28.3	14.1	12.5	15.8	16.6	15.0	14.1	14.1	14.1
75°	24.9	19.9	8.3	5.8	7.5	10.0	8.3	5.8	5.8	5.0
77.5°	10.0	7.5	3.3	2.5	4.2	5.8	5.0	2.5	1.7	1.7
80°	0.8	1.7	1.7	1.7	2.5	3.3	4.2	1.7	0.8	0.8
82.5°	0.0	0.8	0.8	0.8	1.7	2.5	3.3	1.7	0.8	0.8
85°	0.0	0.0	0.0	0.0	1.7	2.5	1.7	0.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.8	2.5	1.7	0.8	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

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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			

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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

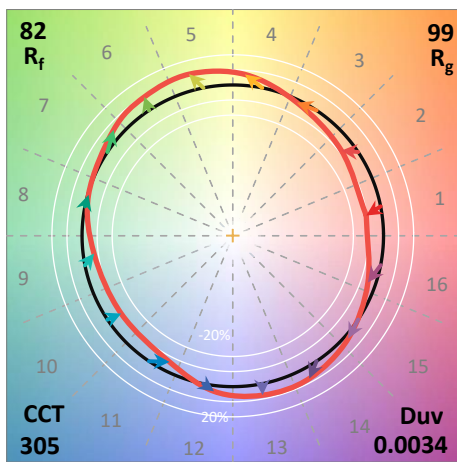
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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)