

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: P634036

Luminaire Tested: GWS-SA2F-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12785.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

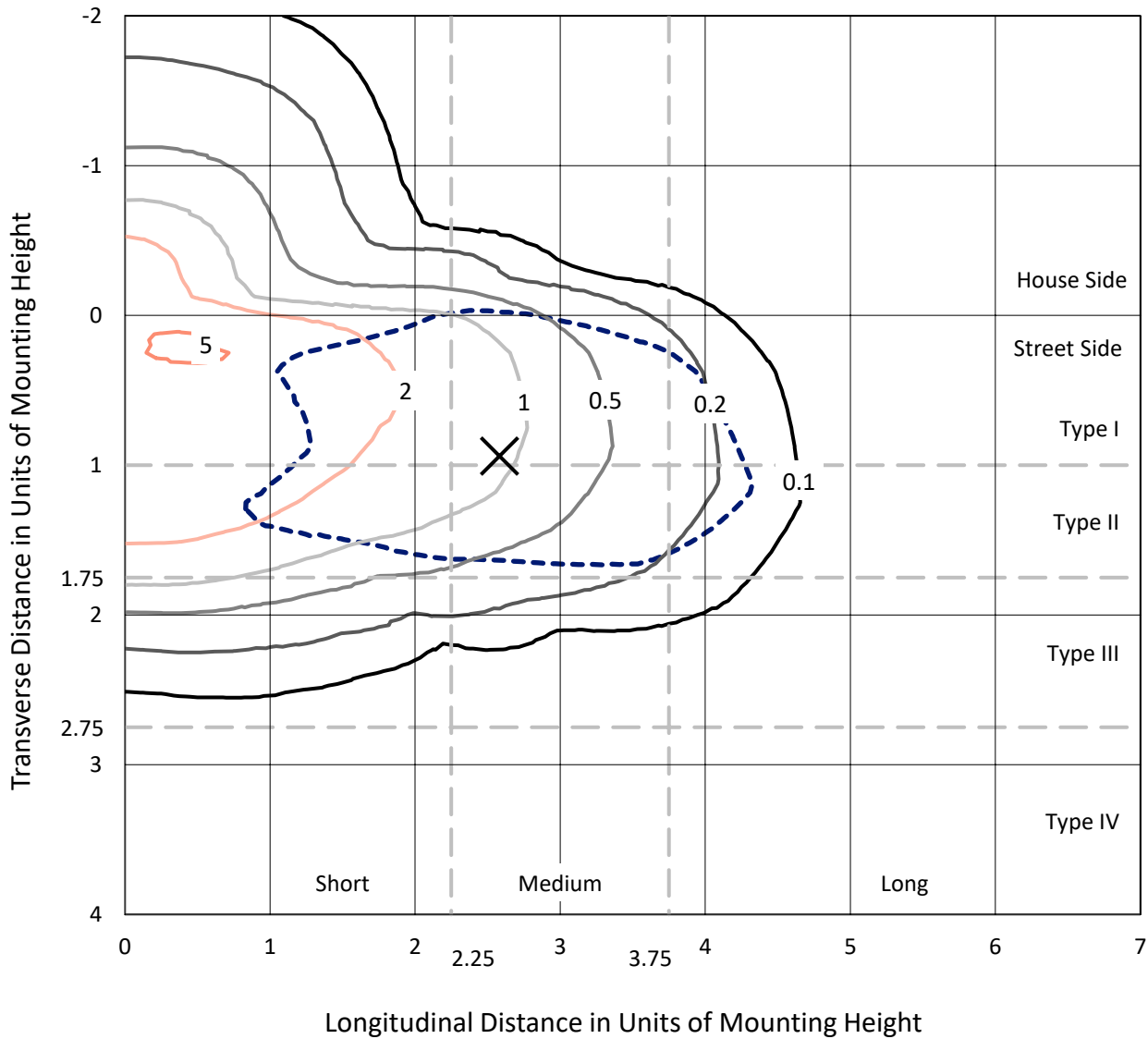
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

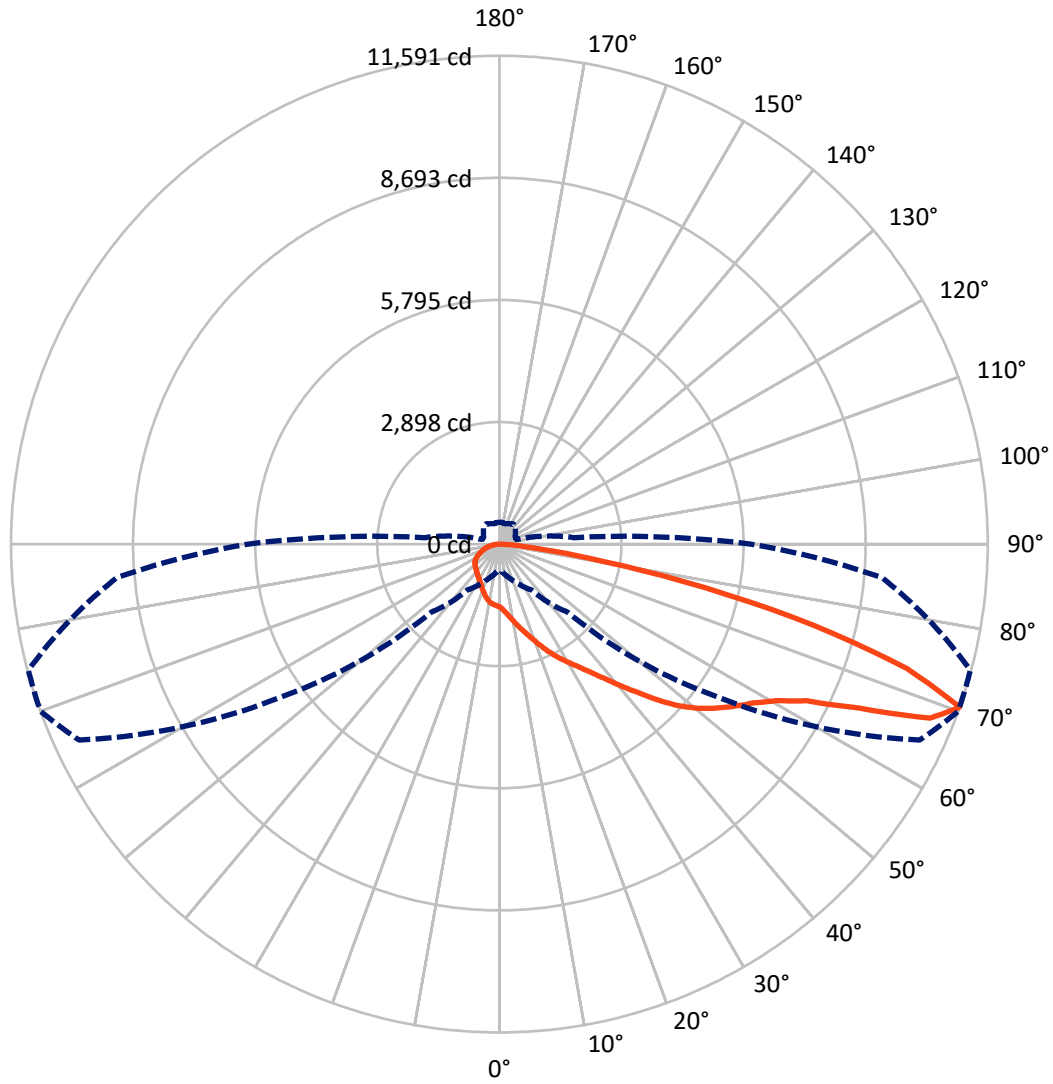
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2291.3	0.0	2291.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	10494.6	0.0	10494.6
	% Fixture	82.1	0.0	82.1
Total	Lumens	12785.9	0.0	12785.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	1.2
10°-20°	493.0	3.9
20°-30°	873.4	6.8
30°-40°	1314.4	10.3
40°-50°	1988.6	15.6
50°-60°	2848.8	22.3
60°-70°	3149.0	24.6
70°-80°	1777.1	13.9
80°-90°	190.1	1.5
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°	12785.9	100.0
0°-180°	12785.9	100.0

Coefficient of Utilization



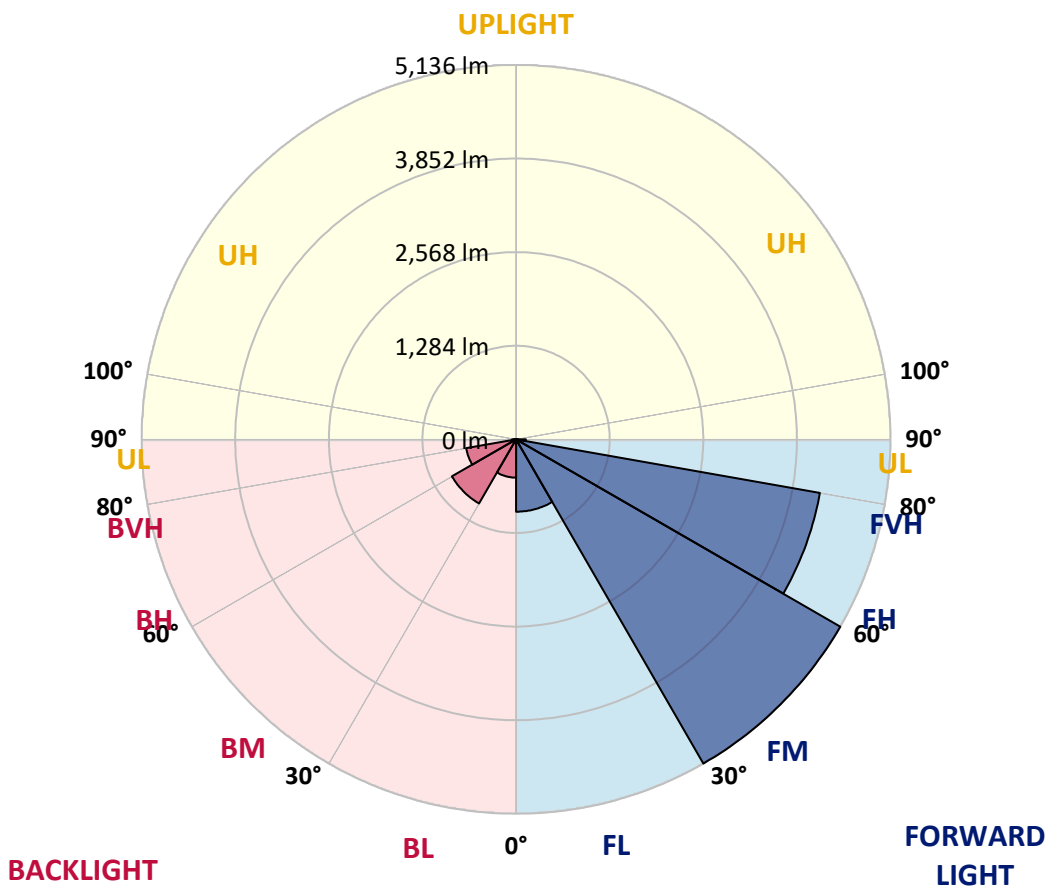
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.6	7.8			
FM (30°-60°)	5136.1	40.2			
FH (60°-80°)	4231.6	33.1			G2/5000
FVH (80°-90°)	134.4	1.1			G2/225
BL (0°-30°)	525.4	4.1	B2/1000		
BM (30°-60°)	1015.7	7.9	B2/2500		
BH (60°-80°)	694.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	55.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





REPORT NUMBER: P634036

CATALOG NUMBER: GWS-SA2F-830-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1
2.5°	1651.9	1649.1	1650.9	1649.1	1638.9	1614.0	1593.6	1567.8	1550.2	1540.1	1516.0
5°	1845.9	1843.1	1836.6	1827.4	1808.9	1774.7	1723.9	1667.6	1633.4	1607.5	1556.7
7.5°	1985.4	1985.4	1984.4	1973.4	1960.4	1924.4	1864.3	1790.4	1740.5	1696.2	1613.0
10°	2056.5	2061.1	2067.6	2083.3	2080.5	2061.1	2004.8	1925.3	1862.5	1810.8	1687.0
12.5°	2095.3	2098.1	2109.2	2141.5	2174.8	2179.4	2146.1	2063.0	1994.6	1925.3	1769.2
15°	2145.2	2146.1	2160.9	2199.7	2248.7	2297.6	2289.3	2206.2	2136.0	2059.3	1860.6
17.5°	2184.0	2190.5	2217.3	2262.5	2323.5	2390.9	2431.6	2379.8	2293.0	2205.2	1960.4
20°	2197.8	2202.5	2237.6	2306.9	2390.0	2485.2	2575.7	2561.8	2474.1	2370.6	2073.1
22.5°	2247.7	2247.7	2273.6	2331.8	2429.7	2568.3	2715.2	2751.2	2673.6	2552.6	2194.2
25°	2357.7	2354.0	2366.0	2390.0	2463.9	2634.8	2852.9	2961.0	2874.1	2738.3	2315.2
27.5°	2508.3	2506.4	2505.5	2509.2	2534.1	2693.0	2969.3	3156.8	3070.0	2916.6	2423.3
30°	2671.8	2666.2	2678.3	2667.2	2661.6	2762.3	3068.1	3332.3	3264.9	3093.1	2512.9
32.5°	2894.4	2884.3	2881.5	2845.5	2823.3	2870.4	3147.6	3531.9	3478.3	3283.4	2613.6
35°	3188.2	3179.0	3131.9	3074.6	3009.0	3031.2	3246.4	3726.8	3730.5	3521.7	2745.7
37.5°	3484.8	3486.6	3449.7	3314.8	3247.3	3234.4	3397.0	3964.3	4043.7	3806.3	2916.6
40°	3731.4	3742.5	3742.5	3600.3	3499.6	3487.5	3608.6	4246.0	4404.0	4155.5	3132.8
42.5°	3919.0	3929.2	3961.5	3858.9	3752.7	3794.3	3865.4	4528.7	4812.4	4586.9	3406.3
45°	4125.0	4133.3	4150.9	4091.8	4029.9	4140.7	4156.4	4866.9	5279.8	5071.0	3724.1
47.5°	4398.5	4391.1	4392.9	4349.5	4301.5	4480.7	4477.0	5151.4	5731.6	5601.3	4068.7
50°	4738.4	4752.3	4739.4	4653.5	4597.1	4760.6	4781.9	5466.4	6128.8	6126.1	4416.0
52.5°	5065.5	5071.0	5139.4	5143.1	5027.6	4993.4	5048.9	5784.3	6464.2	6606.5	4749.5
55°	5082.1	5103.4	5308.5	5456.3	5642.9	5368.5	5318.6	6087.3	6788.5	7076.7	5096.0
57.5°	4728.3	4762.5	5110.8	5429.5	5948.7	6012.4	5780.6	6479.0	7112.8	7539.6	5496.9
60°	3972.6	4043.7	4516.7	5004.5	5811.0	6475.3	6725.7	7011.1	7538.7	8012.6	5983.8
62.5°	2536.9	2564.6	3227.9	4044.6	5191.1	6430.0	7754.8	7948.8	8187.2	8628.8	6734.0
65°	1270.3	1359.0	1747.9	2414.0	3743.5	5666.0	8275.0	9666.3	9374.3	9683.8	7949.8
67.5°	862.0	890.6	1087.4	1450.5	2195.1	4014.1	7952.5	11113.0	11027.1	11077.9	9245.9
70°	635.6	654.1	809.3	1027.3	1327.6	2279.1	6331.2	11004.0	11590.7	11572.2	9110.1
72.5°	463.8	473.0	590.3	784.4	983.9	1178.8	3866.3	8889.3	10118.1	10651.1	7967.3
75°	337.2	348.3	410.2	586.6	765.0	735.4	1908.7	6420.8	7716.0	8741.5	6491.0
77.5°	251.3	265.1	293.8	367.7	535.8	526.6	825.0	4169.4	4990.7	5709.4	3943.0
80°	181.1	183.8	200.5	235.6	340.0	308.6	392.6	2173.8	2492.6	2730.9	1545.6
82.5°	109.9	112.7	134.0	145.0	210.6	194.0	204.2	704.0	1008.8	1070.7	577.4
85°	32.3	34.2	61.0	66.5	87.8	83.1	82.2	286.4	341.8	437.0	227.3
87.5°	0.0	0.0	0.0	0.0	0.9	5.5	10.2	50.8	76.7	106.2	55.4
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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 CATALOG NUMBER: GWS-SA2F-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1
2.5°	1506.8	1485.6	1474.5	1455.1	1441.2	1427.4	1413.5	1400.6	1395.0	1386.7	1388.6
5°	1533.6	1500.3	1467.1	1429.2	1396.9	1370.1	1346.1	1324.8	1315.6	1307.3	1310.9
7.5°	1574.2	1524.4	1460.6	1391.3	1340.5	1303.6	1278.6	1263.8	1259.2	1252.7	1252.7
10°	1626.0	1551.2	1439.4	1340.5	1279.5	1250.0	1238.9	1238.0	1242.6	1243.5	1241.7
12.5°	1683.3	1577.0	1408.0	1280.5	1228.7	1219.5	1227.8	1243.5	1259.2	1267.5	1265.7
15°	1742.4	1593.6	1354.4	1223.2	1191.8	1203.8	1230.6	1262.0	1292.5	1308.2	1307.3
17.5°	1797.8	1597.3	1285.1	1167.8	1159.4	1189.9	1236.1	1285.1	1326.7	1348.8	1349.8
20°	1859.7	1590.9	1213.9	1117.9	1127.1	1177.0	1238.0	1297.1	1346.1	1368.2	1373.8
22.5°	1916.1	1568.7	1144.7	1070.7	1099.4	1161.3	1223.2	1278.6	1322.0	1343.3	1350.7
25°	1966.9	1526.2	1068.9	1031.0	1078.1	1139.1	1186.2	1225.0	1255.5	1268.5	1278.6
27.5°	1994.6	1462.5	1011.6	999.6	1057.8	1107.7	1133.6	1145.6	1155.7	1152.0	1159.4
30°	2000.1	1383.0	961.7	974.7	1027.3	1064.3	1069.8	1057.8	1040.3	1011.6	1018.1
32.5°	1994.6	1291.5	920.2	947.9	993.1	1015.3	1007.9	976.5	934.0	889.7	892.4
35°	1996.4	1199.2	886.0	918.3	953.4	965.4	947.0	903.5	858.3	817.6	815.8
37.5°	2016.8	1121.6	857.3	889.7	914.6	916.5	896.1	850.9	827.8	797.3	793.6
40°	2073.1	1064.3	831.5	861.0	876.7	875.8	852.7	820.4	836.1	825.9	823.2
42.5°	2165.5	1029.2	810.2	830.5	841.6	843.5	825.0	804.7	838.9	825.9	821.3
45°	2314.3	1027.3	795.4	800.1	817.6	830.5	817.6	794.5	807.4	744.6	732.6
47.5°	2490.7	1058.7	784.4	773.3	803.8	826.8	806.5	769.6	742.8	685.5	677.2
50°	2703.2	1122.5	774.2	744.6	783.4	813.0	792.7	741.9	701.2	670.7	666.1
52.5°	2955.4	1206.6	761.3	712.3	752.9	805.6	792.7	739.1	685.5	657.8	653.2
55°	3219.6	1303.6	746.5	673.5	718.8	807.4	799.1	719.7	673.5	658.7	655.0
57.5°	3547.6	1420.0	719.7	628.2	688.3	790.8	773.3	708.6	665.2	653.2	649.5
60°	3973.5	1592.7	668.9	582.0	653.2	761.3	750.2	690.1	643.0	632.8	630.1
62.5°	4647.9	1885.6	607.0	537.7	611.6	699.4	716.0	655.0	615.3	614.4	613.4
65°	5747.3	2237.6	534.0	498.0	568.2	648.5	670.7	619.0	586.6	596.8	595.9
67.5°	6517.8	2268.1	473.9	456.4	517.4	593.1	625.4	582.0	546.9	566.3	565.4
70°	5969.9	1769.2	422.2	413.0	462.9	533.1	576.5	535.8	500.7	519.2	515.5
72.5°	5035.0	1356.2	373.2	367.7	407.4	470.2	513.7	489.6	452.7	452.7	444.4
75°	4046.5	1118.8	321.5	318.7	345.5	406.5	455.5	414.8	380.6	378.8	373.2
77.5°	2320.7	733.5	269.8	267.9	276.2	340.0	353.8	345.5	319.7	307.6	303.9
80°	924.8	381.6	212.5	200.5	208.8	249.4	279.0	265.1	243.0	228.2	219.9
82.5°	358.5	191.2	149.7	131.2	143.2	180.2	202.3	197.7	182.9	149.7	140.4
85°	146.0	93.3	89.6	75.8	83.1	97.0	116.4	100.7	83.1	59.1	56.4
87.5°	38.8	34.2	33.3	20.3	15.7	4.6	0.9	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

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			

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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)