

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: P632054

Luminaire Tested: GWS-SA2B-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4570.7 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

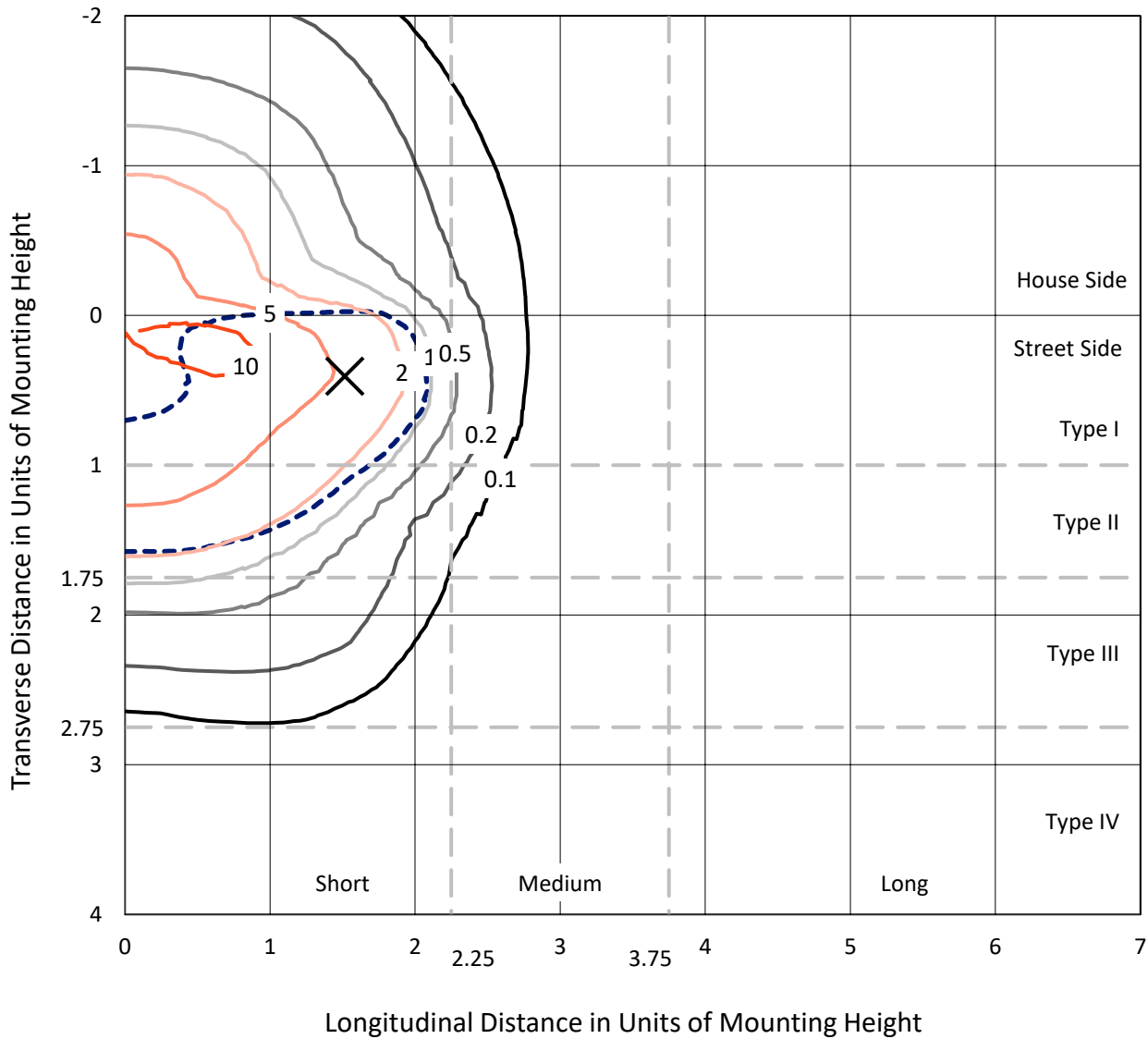
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

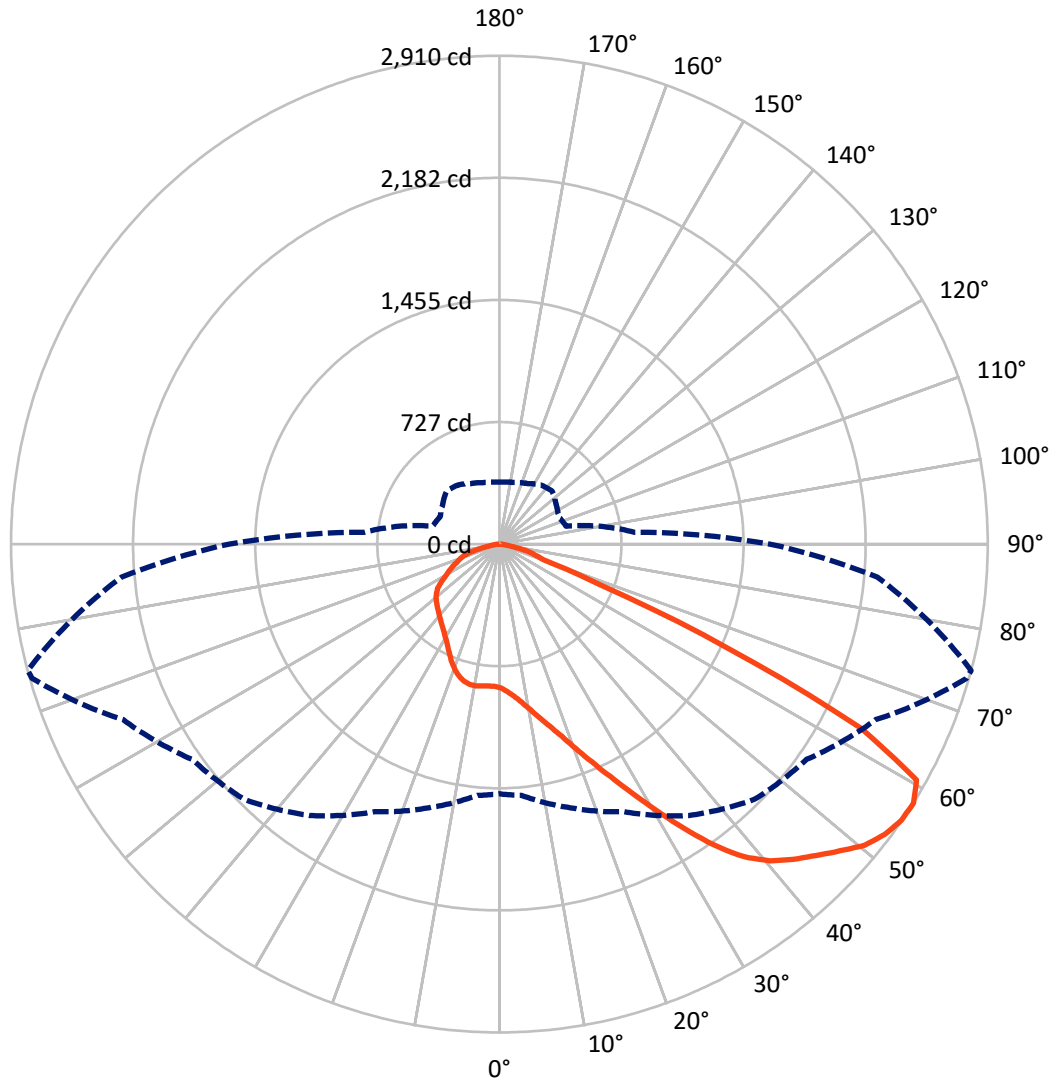
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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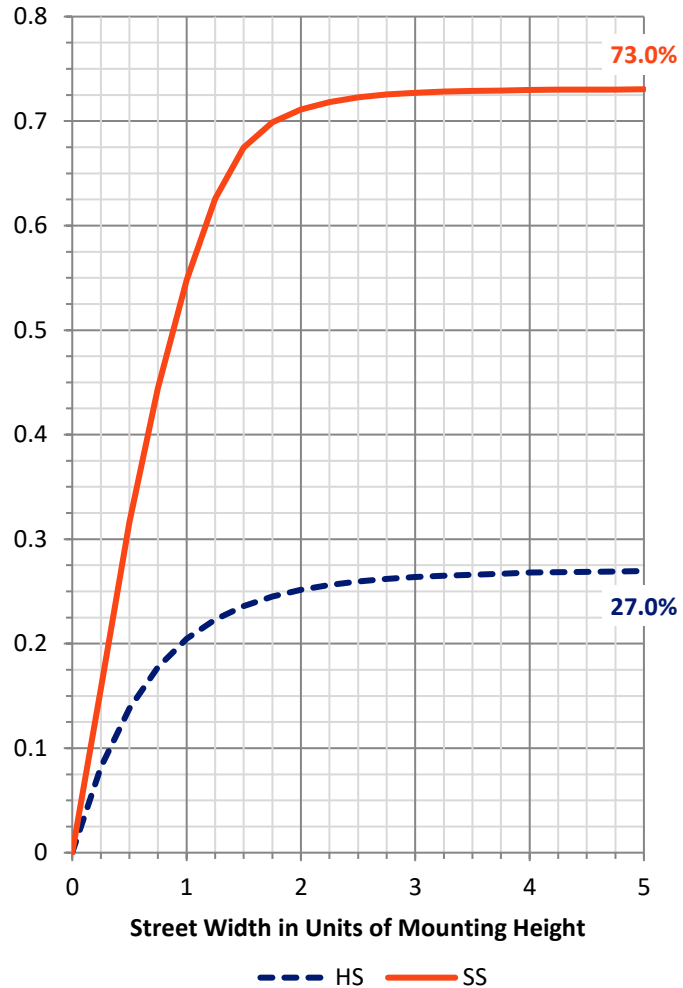
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1236.5	0.0	1236.5
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	3334.2	0.0	3334.2
	% Fixture	72.9	0.0	72.9
Total	Lumens	4570.7	0.0	4570.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	1.9
10°-20°	272.7	6.0
20°-30°	483.7	10.6
30°-40°	740.4	16.2
40°-50°	1030.9	22.6
50°-60°	1181.3	25.8
60°-70°	607.0	13.3
70°-80°	152.8	3.3
80°-90°	16.3	0.4
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°	4570.7	100.0
0°-180°	4570.7	100.0

Coefficient of Utilization



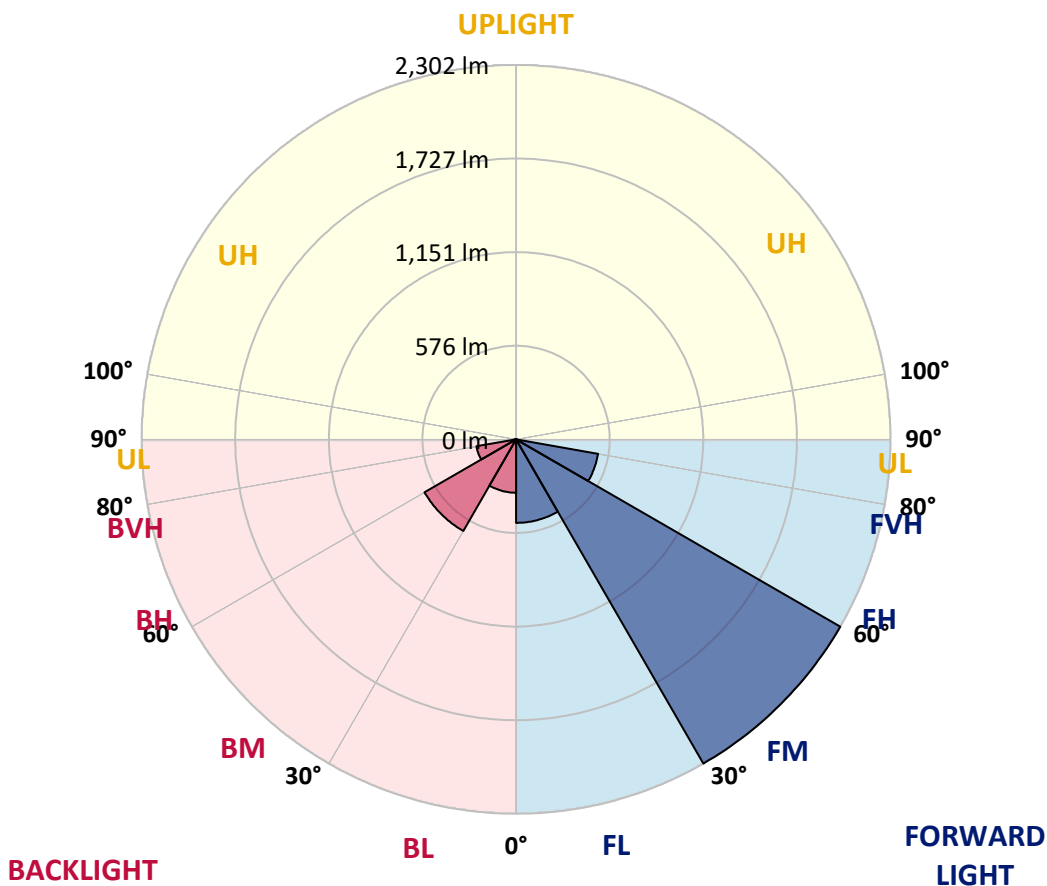
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.5	11.2			
FM (30°-60°)	2302.3	50.4			
FH (60°-80°)	512.3	11.2			G0/660
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	328.5	7.2	B1/500		
BM (30°-60°)	650.3	14.2	B1/1000		
BH (60°-80°)	247.4	5.4	B1/500		G1/500
BVH (80°-90°)	10.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	919.7	922.0	919.7	923.6	915.7	912.2	903.5	890.6	880.3	878.8	867.4
5°	991.2	996.3	993.1	991.6	981.0	973.1	960.1	934.2	913.0	909.8	887.4
7.5°	1037.2	1040.7	1040.7	1041.9	1037.9	1028.9	1015.2	984.5	954.6	949.9	916.1
10°	1052.5	1055.2	1060.3	1070.2	1078.0	1080.8	1071.7	1042.3	1005.7	1001.0	953.8
12.5°	1056.0	1059.2	1067.0	1085.1	1106.7	1126.4	1127.9	1106.3	1065.5	1060.3	997.5
15°	1062.7	1065.9	1076.5	1098.9	1130.7	1168.4	1191.6	1176.7	1131.5	1126.0	1047.0
17.5°	1061.9	1065.5	1081.2	1111.0	1153.9	1208.5	1253.3	1259.6	1212.8	1203.4	1103.2
20°	1060.0	1063.1	1080.0	1116.6	1169.6	1244.7	1325.6	1358.3	1307.9	1299.3	1168.8
22.5°	1075.7	1079.2	1092.2	1122.4	1177.9	1272.6	1392.4	1471.0	1420.7	1408.6	1244.3
25°	1111.0	1116.2	1124.0	1144.8	1192.8	1297.3	1460.8	1598.8	1547.3	1532.8	1326.4
27.5°	1165.7	1172.0	1183.0	1192.8	1226.2	1328.8	1528.8	1741.8	1690.3	1675.0	1413.3
30°	1232.5	1240.7	1254.9	1261.6	1284.4	1375.2	1602.7	1889.2	1859.3	1838.1	1511.1
32.5°	1324.8	1336.2	1349.6	1351.6	1365.3	1445.5	1675.8	2035.4	2035.0	2020.1	1622.4
35°	1445.1	1457.3	1460.0	1462.8	1469.5	1542.2	1764.2	2168.6	2220.1	2202.8	1743.4
37.5°	1576.4	1594.1	1598.4	1586.2	1595.6	1658.5	1863.7	2275.5	2381.3	2362.8	1860.5
40°	1716.7	1723.8	1735.5	1716.3	1728.1	1791.7	1961.1	2343.9	2501.5	2481.9	1952.9
42.5°	1817.3	1830.3	1847.9	1840.9	1847.6	1905.7	2029.5	2376.9	2587.2	2567.6	2019.3
45°	1926.5	1930.5	1941.9	1940.3	1944.2	1998.5	2078.6	2391.5	2663.8	2646.2	2075.9
47.5°	2021.7	2027.6	2035.0	2026.4	2017.7	2053.1	2118.7	2404.1	2752.3	2731.0	2135.2
50°	2113.2	2118.3	2127.4	2102.2	2070.0	2079.0	2138.4	2421.4	2835.2	2820.3	2182.0
52.5°	2130.1	2135.6	2178.1	2183.2	2141.9	2110.1	2173.0	2459.5	2883.9	2874.5	2198.9
55°	1917.5	1927.3	2011.8	2108.9	2210.7	2200.5	2228.4	2479.5	2903.2	2905.5	2229.2
57.5°	1488.3	1502.5	1625.9	1759.1	1973.3	2150.6	2235.5	2474.4	2896.5	2909.5	2260.2
60°	976.2	984.5	1130.7	1280.0	1502.1	1747.3	2000.8	2382.4	2837.2	2855.6	2252.4
62.5°	589.5	599.0	716.5	829.7	960.5	1124.4	1357.1	1914.8	2378.1	2419.4	1803.9
65°	411.5	424.1	527.0	620.2	665.4	631.6	687.4	1069.4	1481.7	1499.0	1102.4
67.5°	298.3	306.9	391.4	502.3	552.2	446.1	340.0	473.6	645.3	651.6	454.7
70°	195.3	205.2	281.8	382.4	450.8	361.6	254.3	256.2	271.6	274.7	264.1
72.5°	107.3	113.2	174.1	253.9	266.5	216.2	198.5	213.0	223.6	223.6	226.4
75°	55.4	60.5	71.1	83.7	101.0	118.3	143.1	164.7	176.1	176.9	175.7
77.5°	28.3	30.3	38.1	41.3	45.2	52.7	68.4	87.6	97.9	101.8	101.0
80°	13.4	14.1	16.1	18.9	23.2	29.5	36.9	44.0	50.3	51.1	55.4
82.5°	7.1	7.9	8.6	10.2	12.6	15.7	21.6	25.9	29.9	30.7	34.2
85°	2.8	3.1	3.5	3.9	5.5	6.7	9.0	12.2	14.9	14.9	17.7
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	1.6	2.0	2.8	2.8	4.7
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-SA2B-830-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	864.6	853.2	848.1	839.9	833.2	825.7	819.8	815.5	812.8	811.2	809.6
5°	878.8	861.5	847.7	831.2	819.8	808.8	799.8	793.5	790.3	788.0	786.4
7.5°	900.8	877.6	851.7	826.1	806.1	788.4	777.0	770.3	766.0	764.4	763.2
10°	931.0	898.8	856.0	815.5	785.6	766.4	758.5	755.4	755.8	755.0	754.6
12.5°	965.2	921.2	854.8	796.6	763.6	752.2	752.6	757.7	763.6	765.2	765.6
15°	1002.2	943.2	843.4	772.3	746.3	747.5	757.7	769.9	780.9	785.2	786.0
17.5°	1042.3	961.7	822.6	745.5	732.2	744.8	763.6	783.7	799.8	806.9	808.8
20°	1087.1	977.4	793.1	719.2	718.8	739.7	767.2	793.5	813.9	823.4	824.9
22.5°	1134.6	987.2	756.9	694.8	705.1	733.0	764.4	791.9	813.5	823.0	824.9
25°	1182.6	990.4	717.2	672.4	690.9	722.4	751.0	773.1	793.5	801.7	803.3
27.5°	1227.4	981.4	679.5	653.2	677.9	706.6	725.9	737.7	751.8	758.1	759.3
30°	1273.0	963.3	647.7	637.9	663.4	685.0	693.7	694.5	700.0	700.0	700.7
32.5°	1319.0	936.6	619.8	622.9	645.3	659.5	660.7	651.6	644.9	633.9	633.5
35°	1372.0	909.4	597.0	606.0	624.1	632.8	629.2	611.9	595.8	577.7	576.9
37.5°	1421.1	881.5	577.7	588.7	600.1	606.4	598.2	577.3	564.0	545.5	542.8
40°	1461.6	856.4	559.3	570.7	576.2	581.7	568.3	551.4	553.4	543.1	542.8
42.5°	1485.2	832.0	542.0	550.6	554.1	558.1	546.3	533.7	544.3	536.5	536.9
45°	1502.5	810.8	526.2	529.4	538.0	543.9	532.9	518.8	521.1	490.9	483.8
47.5°	1522.1	799.0	511.3	508.2	523.5	533.7	516.8	496.4	482.2	452.4	449.6
50°	1543.0	794.7	495.6	486.9	505.4	515.2	495.6	470.0	451.6	435.5	433.9
52.5°	1550.0	794.3	475.9	461.4	479.9	493.6	477.1	451.2	429.2	413.4	412.7
55°	1577.9	805.7	450.8	426.4	443.7	472.0	459.8	422.5	404.8	397.7	396.9
57.5°	1610.6	807.6	411.1	388.3	412.3	445.7	430.3	398.1	378.9	370.2	369.4
60°	1597.2	759.3	368.6	359.2	385.5	420.9	406.8	378.9	356.5	348.2	347.4
62.5°	1217.2	536.1	337.6	334.1	356.9	385.2	382.4	353.3	332.1	326.2	325.4
65°	732.2	376.5	307.7	307.3	323.4	350.6	354.1	330.5	308.1	299.9	299.9
67.5°	362.0	288.1	273.9	272.0	282.2	301.4	316.4	297.1	278.3	270.4	269.2
70°	255.9	253.9	249.2	243.7	245.6	253.5	259.8	243.7	223.6	215.8	214.2
72.5°	221.3	221.7	218.5	214.2	212.6	207.1	201.6	189.8	177.6	169.4	170.2
75°	171.7	172.5	174.5	172.9	168.6	162.7	156.8	141.9	132.1	124.2	122.6
77.5°	100.2	104.1	110.4	108.9	109.7	101.4	99.0	84.5	75.5	70.0	68.8
80°	56.6	59.0	61.7	63.7	61.3	57.8	52.7	44.8	42.1	38.1	37.3
82.5°	34.2	36.6	37.7	39.3	38.5	33.8	29.9	24.8	22.4	20.4	20.0
85°	17.3	18.9	20.0	20.8	18.5	15.3	13.8	11.0	9.4	8.3	8.3
87.5°	4.3	4.7	5.5	4.7	4.3	2.0	1.6	0.4	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)