

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: P633054

Luminaire Tested: GWS-SA2D-830-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9281.7 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

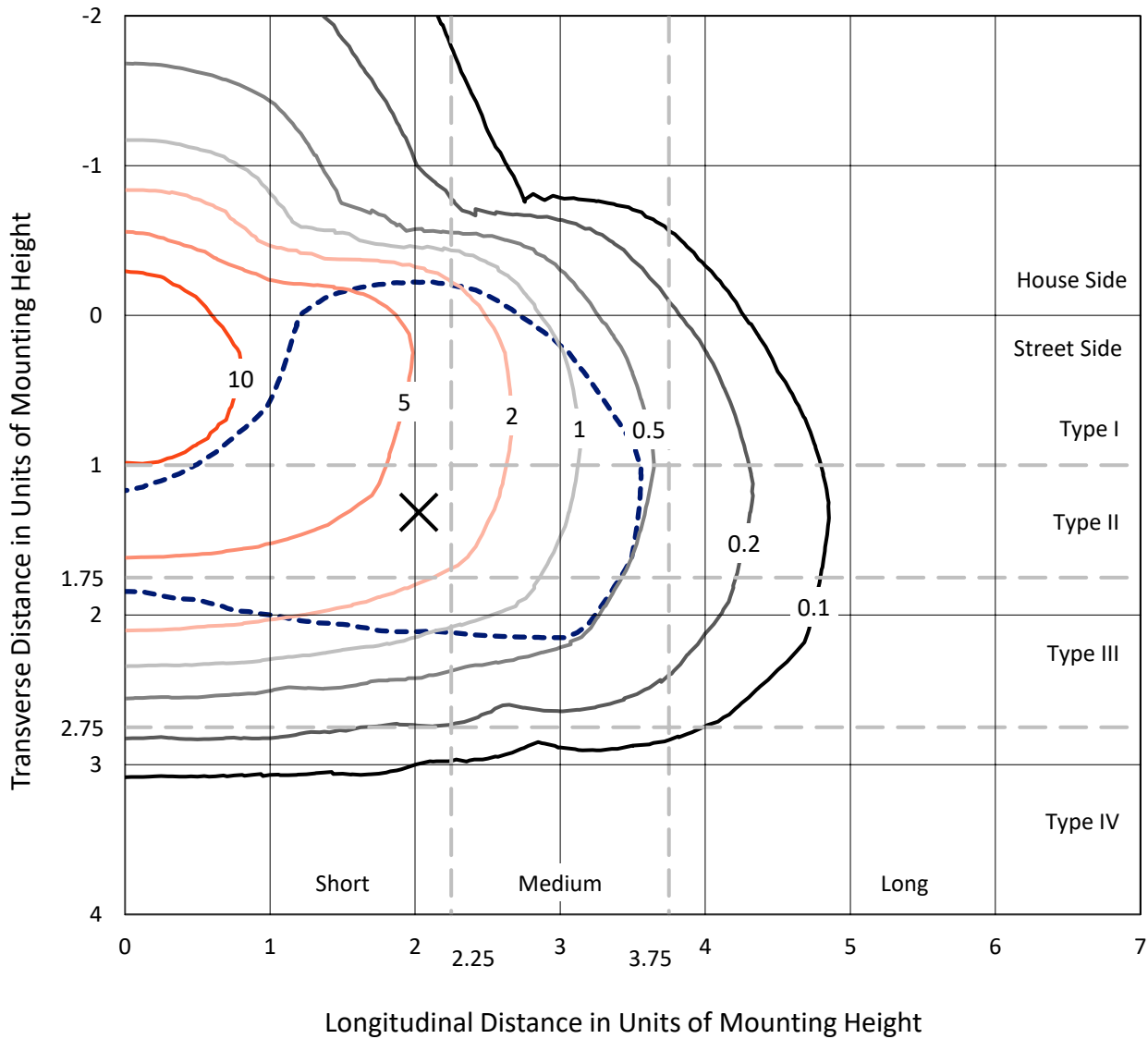
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

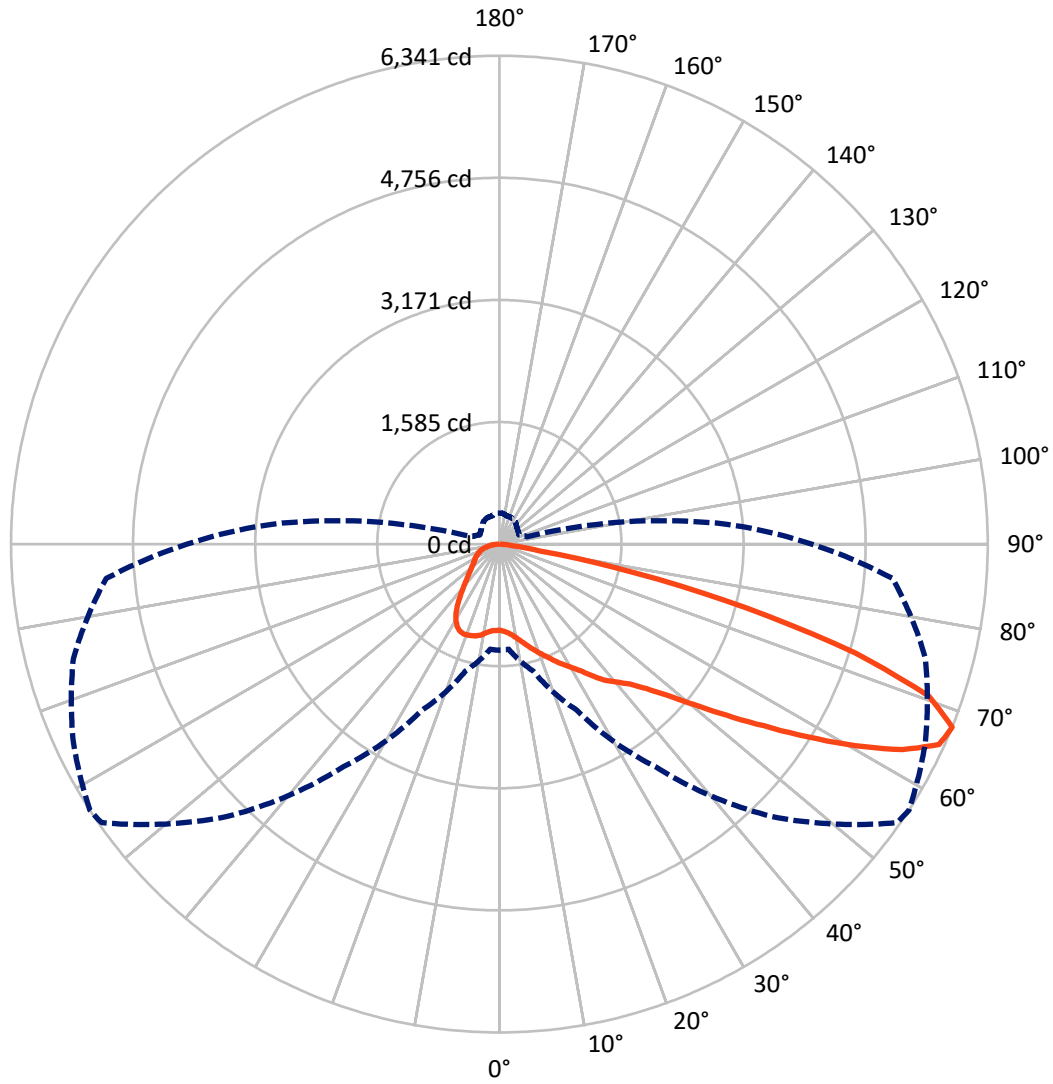
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2040.7	0.0	2040.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7241.0	0.0	7241.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	9281.7	0.0	9281.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	1.2
10°-20°	367.2	4.0
20°-30°	654.7	7.1
30°-40°	951.8	10.3
40°-50°	1377.5	14.8
50°-60°	2155.8	23.2
60°-70°	2514.9	27.1
70°-80°	1049.8	11.3
80°-90°	99.1	1.1
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°	9281.7	100.0
0°-180°	9281.7	100.0

Coefficient of Utilization



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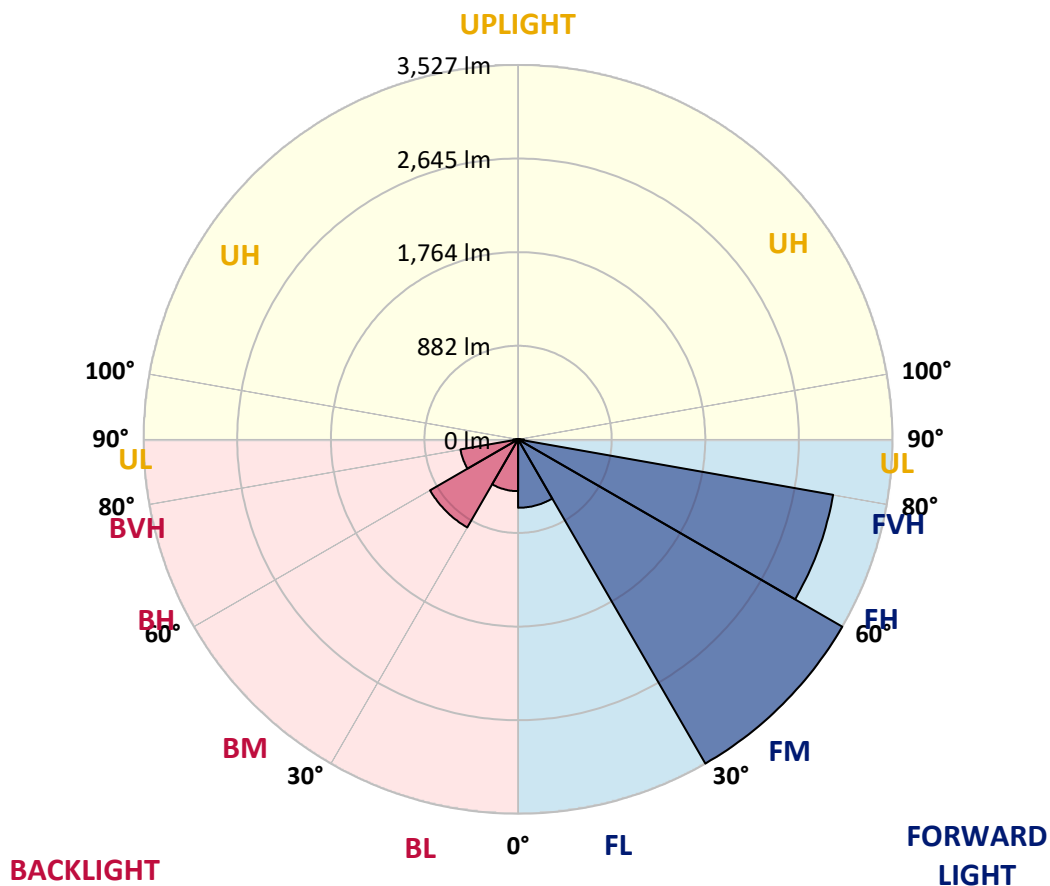
CATALOG NUMBER: GWS-SA2D-830-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.7	6.9			
FM (30°-60°)	3527.2	38.0			
FH (60°-80°)	3013.9	32.5			G2/5000
FVH (80°-90°)	55.2	0.6			G1/100
BL (0°-30°)	488.1	5.3	B1/500		
BM (30°-60°)	958.0	10.3	B1/1000		
BH (60°-80°)	550.8	5.9	B2/1000		G2/1000
BVH (80°-90°)	43.9	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4
2.5°	1134.3	1133.0	1132.3	1136.3	1135.0	1134.3	1134.3	1133.7	1132.3	1127.0	1119.7
5°	1165.6	1162.9	1160.3	1163.6	1160.9	1158.3	1157.6	1156.3	1151.6	1143.6	1132.3
7.5°	1198.2	1195.5	1196.2	1198.2	1196.2	1194.8	1192.9	1191.5	1184.2	1171.6	1156.3
10°	1244.0	1244.0	1245.4	1247.4	1248.0	1246.0	1242.1	1240.1	1231.4	1215.5	1194.2
12.5°	1310.5	1309.2	1309.2	1307.9	1309.9	1307.9	1303.9	1300.6	1289.9	1269.3	1238.7
15°	1398.3	1393.0	1388.3	1379.7	1377.0	1369.7	1371.0	1369.1	1359.1	1331.2	1292.6
17.5°	1492.1	1491.4	1484.1	1466.8	1449.5	1437.5	1440.2	1439.5	1434.2	1396.3	1347.1
20°	1574.5	1577.8	1571.2	1557.9	1534.6	1512.0	1510.7	1514.0	1507.4	1469.5	1401.0
22.5°	1666.9	1664.3	1657.6	1640.3	1623.0	1599.1	1591.1	1588.5	1585.8	1542.6	1456.2
25°	1754.7	1762.7	1754.0	1738.1	1711.5	1685.6	1678.9	1681.6	1674.2	1617.1	1515.3
27.5°	1865.7	1869.1	1863.7	1841.8	1819.2	1782.6	1770.0	1770.0	1767.3	1686.9	1561.9
30°	1984.1	1993.4	1984.1	1966.1	1942.9	1890.3	1863.1	1860.4	1852.4	1758.7	1616.4
32.5°	2103.1	2109.8	2103.1	2085.8	2059.2	2013.4	1974.1	1968.1	1957.5	1837.2	1672.3
35°	2208.8	2214.8	2213.5	2217.5	2195.5	2137.7	2113.8	2111.1	2083.2	1939.5	1748.1
37.5°	2324.5	2331.8	2321.9	2329.9	2321.2	2266.7	2259.4	2246.1	2206.2	2036.0	1827.8
40°	2456.2	2462.8	2446.9	2450.2	2440.2	2409.6	2372.4	2354.5	2295.3	2140.4	1953.5
42.5°	2597.1	2612.4	2619.8	2613.8	2590.5	2573.2	2508.0	2485.4	2436.2	2328.5	2160.3
45°	2801.3	2823.9	2834.5	2819.2	2809.3	2784.7	2704.9	2677.6	2651.7	2593.8	2448.9
47.5°	3021.4	3042.0	3075.9	3082.5	3090.5	3071.9	2959.5	2932.9	2937.6	2930.9	2803.9
50°	3196.9	3214.2	3290.6	3372.4	3440.3	3445.6	3302.0	3273.4	3298.6	3319.9	3231.5
52.5°	3324.6	3339.9	3440.9	3609.8	3763.4	3877.1	3722.2	3689.6	3710.2	3758.1	3717.5
55°	3428.3	3449.6	3555.3	3814.6	4125.1	4304.6	4205.6	4164.3	4155.7	4214.9	4238.1
57.5°	3482.8	3489.5	3637.7	3974.8	4390.4	4724.2	4767.4	4720.9	4638.4	4671.0	4792.0
60°	3358.5	3369.8	3572.6	4016.1	4599.9	5140.4	5357.2	5318.6	5143.1	5161.0	5294.7
62.5°	3014.7	3030.7	3274.7	3819.9	4617.1	5418.4	5901.8	5877.2	5641.8	5544.7	5584.6
65°	2418.3	2423.6	2676.3	3334.5	4273.4	5452.9	6281.4	6275.4	5990.2	5762.8	5591.9
67.5°	1379.0	1369.7	1707.5	2378.4	3526.7	5003.5	6306.0	6341.3	6103.2	5726.9	5126.5
70°	597.8	599.1	754.7	1173.6	2282.6	4044.0	5857.2	5917.7	5776.1	5129.1	4078.6
72.5°	276.6	280.6	347.7	508.0	974.8	2508.7	4776.1	4830.6	4708.9	4105.2	2967.5
75°	195.5	198.8	232.1	291.2	448.2	977.4	3194.9	3309.3	3368.4	3070.6	1955.5
77.5°	148.3	152.9	169.6	202.1	276.6	346.4	1528.6	1801.2	2145.7	1910.3	1007.3
80°	94.4	94.4	112.4	135.0	168.9	180.2	441.5	523.3	1049.9	787.3	395.6
82.5°	63.8	65.8	76.5	85.8	97.1	102.4	189.5	202.1	303.2	268.0	162.9
85°	33.9	35.2	39.9	39.2	46.5	40.6	79.8	79.1	111.0	121.7	61.8
87.5°	0.0	0.0	0.7	0.7	1.3	2.0	8.6	9.3	23.3	37.2	20.6
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-SA2D-830-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4
2.5°	1123.7	1115.7	1119.7	1118.4	1122.4	1122.4	1115.1	1113.1	1113.7	1105.7	1103.1
5°	1133.7	1124.4	1126.4	1123.7	1127.7	1131.0	1127.7	1127.7	1131.7	1125.7	1122.4
7.5°	1156.3	1145.6	1145.6	1142.3	1147.0	1149.6	1147.0	1151.0	1158.3	1152.3	1149.0
10°	1192.2	1179.6	1180.2	1176.2	1178.2	1176.9	1166.3	1162.9	1164.9	1159.6	1156.9
12.5°	1238.7	1221.4	1221.4	1213.5	1208.8	1194.8	1172.9	1164.9	1166.3	1161.6	1159.6
15°	1283.3	1267.3	1264.0	1248.0	1226.8	1200.8	1180.9	1175.6	1176.9	1172.2	1168.9
17.5°	1335.8	1315.2	1303.2	1274.0	1234.7	1208.1	1188.2	1175.6	1164.9	1154.3	1151.6
20°	1384.3	1358.4	1336.5	1291.3	1243.4	1206.8	1169.6	1138.3	1112.4	1098.4	1095.1
22.5°	1434.2	1401.0	1362.4	1303.2	1242.7	1182.9	1114.4	1067.2	1028.6	1008.0	1012.0
25°	1481.4	1439.5	1387.0	1314.5	1221.4	1129.7	1036.6	966.1	922.2	906.3	901.6
27.5°	1520.7	1468.8	1409.6	1309.2	1177.6	1053.2	930.2	851.8	809.2	791.2	786.6
30°	1564.5	1506.0	1442.2	1284.6	1108.4	946.2	809.9	746.0	715.4	698.2	698.8
32.5°	1615.1	1553.9	1488.1	1237.4	1020.0	830.5	710.8	666.9	642.3	625.0	622.4
35°	1682.9	1622.4	1518.7	1166.3	907.6	724.1	643.0	607.1	576.5	553.9	549.2
37.5°	1766.7	1725.4	1522.0	1071.2	787.3	650.9	594.4	555.9	518.6	488.7	485.4
40°	1910.3	1863.1	1494.7	952.2	684.9	603.7	553.9	509.3	466.1	432.9	428.2
42.5°	2115.1	2018.0	1436.2	817.8	607.7	566.5	515.3	458.8	414.9	391.6	388.3
45°	2375.7	2190.9	1348.4	691.5	550.5	529.9	474.7	415.6	392.3	375.7	372.4
47.5°	2694.9	2392.4	1247.4	593.1	506.0	496.7	433.5	400.9	380.3	366.4	363.0
50°	3076.5	2649.0	1164.3	516.0	466.1	458.1	420.2	392.3	375.7	364.4	361.7
52.5°	3512.1	2934.3	1123.7	460.8	431.5	423.5	415.6	390.3	376.3	367.7	364.4
55°	3964.2	3234.8	1085.8	418.2	402.3	406.9	416.2	397.0	386.3	375.0	371.7
57.5°	4401.1	3516.7	992.7	385.0	381.0	398.9	419.6	403.6	391.0	379.7	375.7
60°	4702.3	3671.0	835.1	358.4	365.0	389.0	410.9	393.6	377.7	373.0	371.0
62.5°	4783.4	3652.4	648.3	331.1	345.8	367.0	388.3	377.0	360.4	367.7	368.4
65°	4593.9	3452.9	486.7	304.5	320.5	338.4	365.0	360.4	354.4	374.3	375.0
67.5°	4057.3	2962.8	371.0	281.3	294.6	316.5	357.7	377.0	378.3	403.6	400.9
70°	3069.9	2213.5	290.6	259.3	274.6	316.5	381.0	389.6	373.7	397.0	391.6
72.5°	2122.4	1460.8	247.3	240.0	250.0	301.9	380.3	380.3	363.0	363.0	353.1
75°	1318.5	859.1	215.4	215.4	215.4	264.0	369.7	350.4	319.8	305.9	297.9
77.5°	650.9	417.6	180.9	187.5	180.2	220.8	301.9	286.6	268.0	253.3	248.0
80°	277.9	208.8	146.3	153.6	145.0	166.2	239.4	236.0	218.1	198.8	192.8
82.5°	127.7	107.7	117.0	120.3	105.7	125.0	174.9	174.9	164.9	138.3	128.3
85°	54.5	57.2	81.1	81.1	66.5	70.5	93.8	89.1	79.8	65.2	59.8
87.5°	18.6	27.9	41.2	35.9	14.0	6.0	3.3	1.3	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)