

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: P631047

Luminaire Tested: GWS-SA1E-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5915.3 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

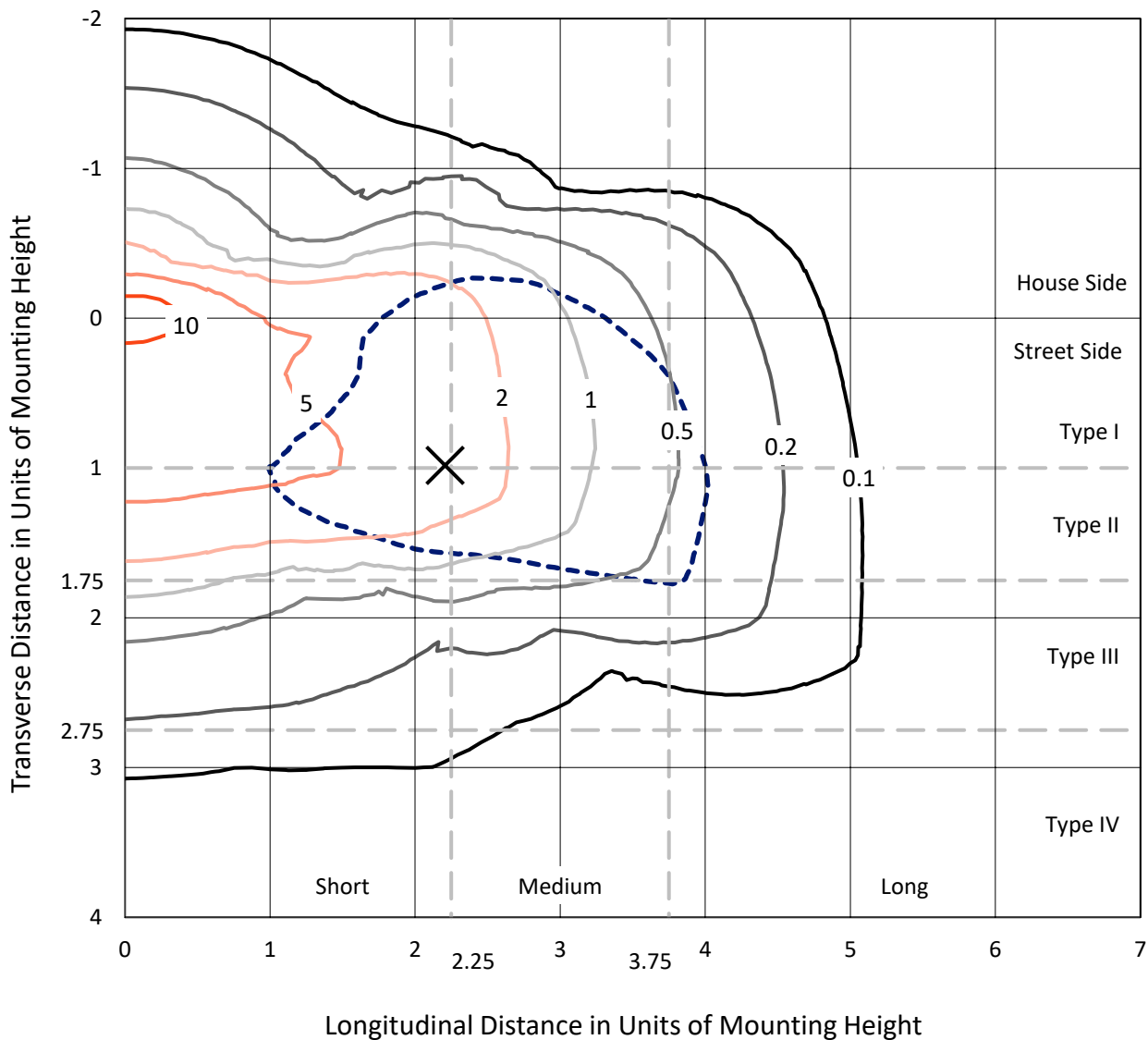
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631047
 CATALOG NUMBER: GWS-SA1E-830-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination

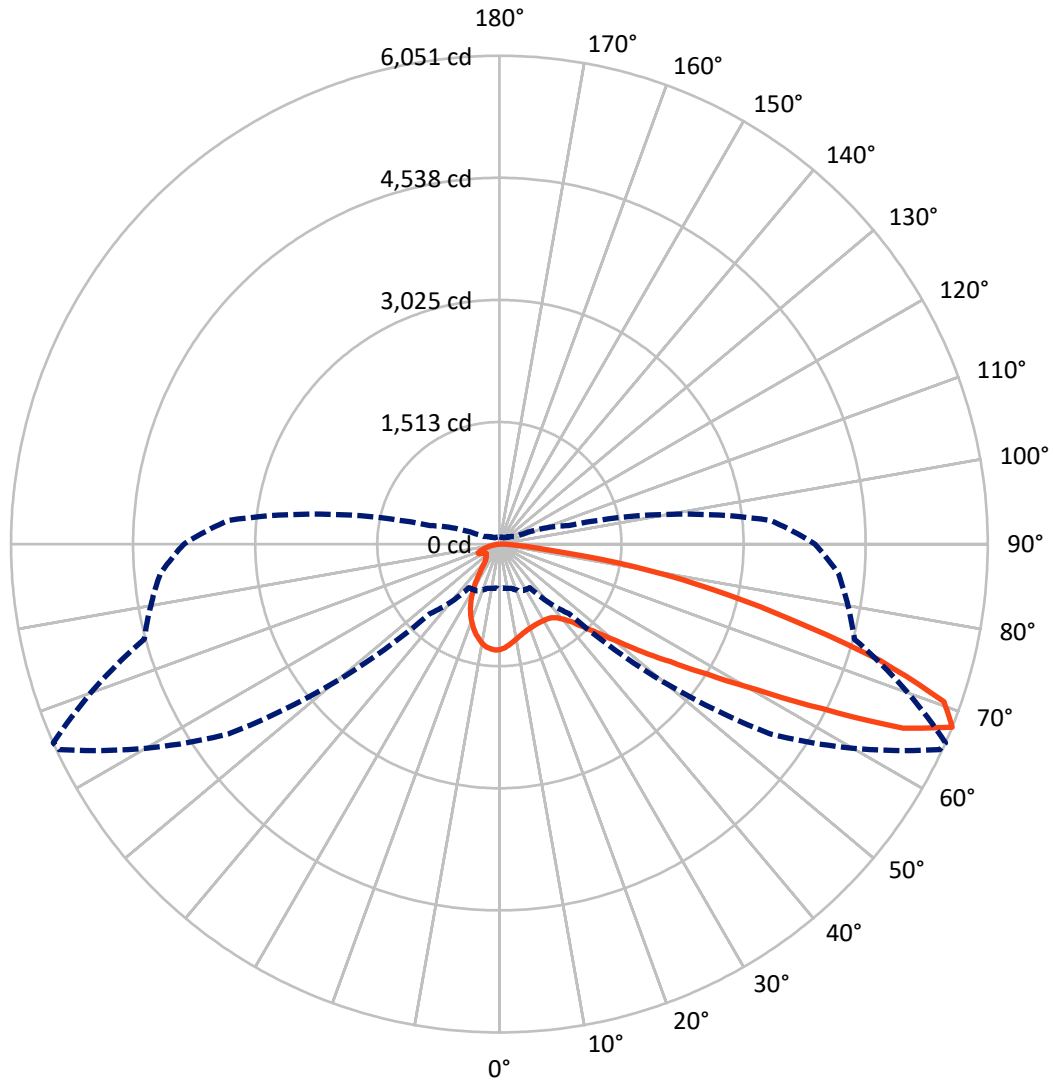
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P631047
CATALOG NUMBER: GWS-SA1E-830-U-SL2-W

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P631047

CATALOG NUMBER: GWS-SA1E-830-U-SL2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1200.4	0.0	1200.4
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4714.9	0.0	4714.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	5915.3	0.0	5915.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	1.9
10°-20°	281.9	4.8
20°-30°	387.5	6.6
30°-40°	529.8	9.0
40°-50°	802.8	13.6
50°-60°	1248.0	21.1
60°-70°	1519.4	25.7
70°-80°	925.5	15.6
80°-90°	105.7	1.8
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°	5915.3	100.0
0°-180°	5915.3	100.0

Coefficient of Utilization



REPORT NUMBER: P631047

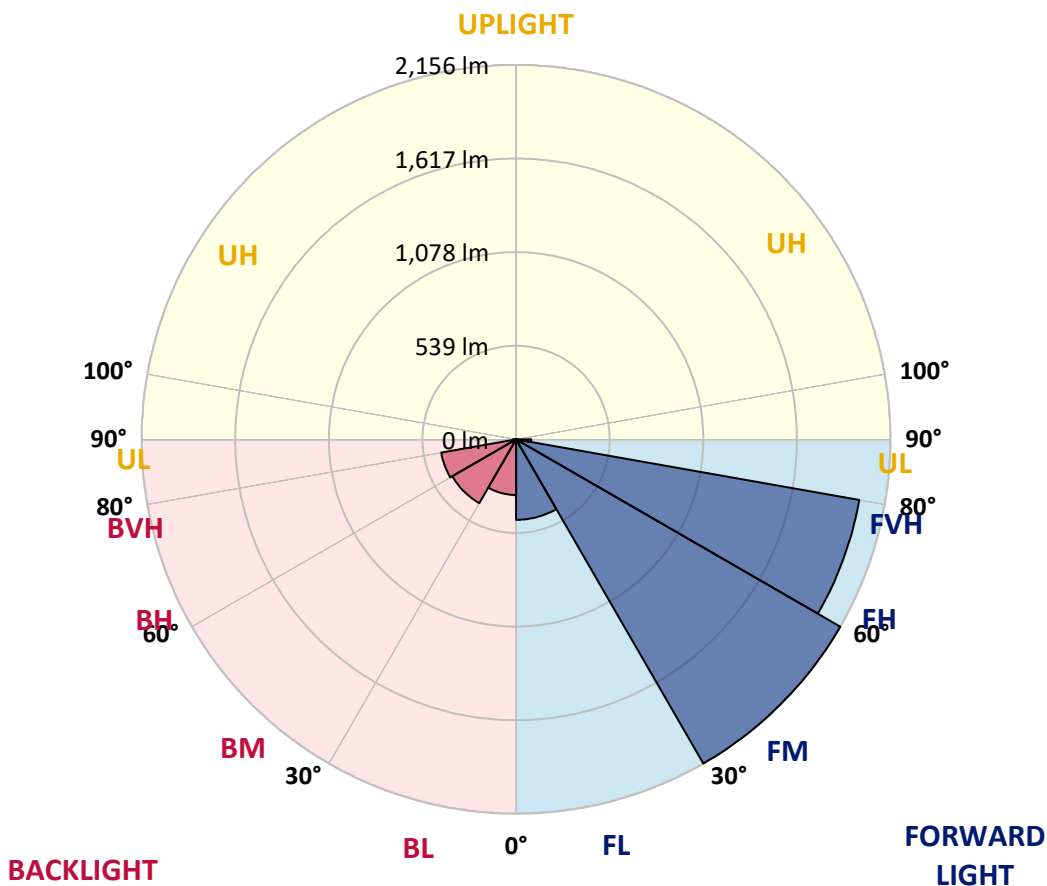
CATALOG NUMBER: GWS-SA1E-830-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.5	7.8			
FM (30°-60°)	2156.4	36.5			
FH (60°-80°)	2007.2	33.9			G2/5000
FVH (80°-90°)	87.9	1.5			G1/100
BL (0°-30°)	320.7	5.4	B1/500		
BM (30°-60°)	424.2	7.2	B1/1000		
BH (60°-80°)	437.7	7.4	B1/500		G1/500
BVH (80°-90°)	17.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P631047
 CATALOG NUMBER: GWS-SA1E-830-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1
2.5°	1224.3	1228.6	1226.0	1242.4	1243.2	1264.0	1275.6	1285.5	1286.4	1299.3	1308.0
5°	1140.5	1143.1	1143.1	1158.7	1169.0	1196.6	1223.4	1251.9	1254.0	1285.1	1308.8
7.5°	1072.8	1075.4	1073.7	1094.4	1107.7	1138.4	1172.5	1216.1	1220.4	1270.4	1311.9
10°	1019.7	1018.8	1023.2	1042.2	1059.4	1096.1	1134.1	1183.7	1190.2	1253.6	1315.3
12.5°	983.5	984.3	986.9	1006.8	1025.3	1061.6	1100.8	1154.8	1161.7	1234.2	1313.6
15°	966.2	964.5	966.6	984.8	1002.5	1034.4	1074.9	1130.6	1137.5	1216.9	1314.0
17.5°	962.3	961.0	960.6	973.5	986.9	1016.7	1055.5	1112.1	1119.4	1205.7	1316.6
20°	974.4	972.7	967.9	973.5	979.1	1004.2	1041.7	1098.7	1106.9	1198.4	1321.8
22.5°	1007.6	1004.6	997.3	990.4	983.0	998.1	1033.1	1088.8	1097.0	1193.6	1327.0
25°	1058.1	1055.5	1047.8	1032.2	1005.5	1002.9	1031.4	1084.4	1092.6	1190.2	1329.1
27.5°	1127.6	1123.7	1115.9	1093.5	1049.9	1020.6	1037.8	1084.0	1091.8	1186.3	1327.0
30°	1210.0	1207.4	1203.1	1175.9	1117.7	1058.1	1052.5	1087.5	1093.5	1184.1	1322.6
32.5°	1293.7	1291.1	1294.6	1281.7	1210.0	1120.3	1084.4	1097.0	1101.3	1183.7	1318.8
35°	1367.5	1370.5	1395.6	1397.7	1327.4	1204.4	1134.9	1119.0	1119.8	1192.3	1320.5
37.5°	1444.8	1456.4	1489.2	1517.3	1458.6	1315.7	1210.0	1160.4	1159.5	1214.3	1331.3
40°	1547.0	1552.2	1594.1	1646.7	1610.0	1468.5	1316.6	1228.1	1222.1	1259.2	1360.2
42.5°	1646.7	1659.2	1726.1	1786.5	1774.5	1640.7	1450.8	1329.6	1318.8	1338.6	1419.7
45°	1773.6	1785.7	1860.8	1938.4	1960.5	1835.3	1622.6	1473.7	1462.9	1458.1	1528.9
47.5°	1900.5	1913.0	1980.3	2092.5	2169.7	2078.7	1846.1	1664.0	1646.3	1627.7	1693.8
50°	1985.9	2000.6	2064.9	2199.5	2380.8	2382.5	2111.1	1913.4	1891.0	1861.6	1925.9
52.5°	1982.9	1992.4	2053.7	2209.0	2532.7	2731.6	2465.8	2231.0	2212.9	2149.0	2205.1
55°	1827.1	1841.4	1903.1	2097.3	2549.1	3062.6	2987.1	2605.6	2573.2	2458.9	2520.6
57.5°	1514.2	1526.3	1588.5	1828.0	2403.6	3232.2	3649.0	3082.9	3038.4	2796.3	2867.5
60°	1143.1	1128.5	1157.8	1367.5	2055.8	3236.5	4233.3	3730.2	3655.9	3157.1	3216.6
62.5°	857.9	843.2	849.7	908.8	1393.9	2975.0	4566.5	4615.7	4493.1	3564.5	3552.8
65°	677.9	669.7	688.3	728.9	812.6	2265.5	4569.1	5573.2	5496.0	4036.6	3897.6
67.5°	552.4	547.2	566.2	641.3	659.0	1217.4	4097.0	6020.3	6050.5	4553.5	4217.4
70°	444.9	437.1	466.9	565.7	612.8	736.6	2934.9	5792.5	5841.2	4861.7	4127.2
72.5°	307.3	307.7	322.8	458.3	591.6	636.1	1660.1	4823.2	4929.0	4582.4	3628.3
75°	207.1	208.9	213.2	302.5	545.0	617.1	884.6	3651.6	3726.3	3787.6	2999.2
77.5°	125.1	126.0	135.9	183.0	375.9	576.1	599.4	2647.0	2705.7	2496.8	1859.0
80°	72.5	75.5	84.6	122.6	253.7	432.8	463.9	1623.0	1689.5	1109.9	590.8
82.5°	31.9	34.1	46.2	71.2	148.0	368.1	362.1	641.3	631.8	309.4	205.0
85°	5.6	6.9	9.9	22.4	54.4	194.2	280.9	283.1	266.3	117.4	85.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	42.3	75.9	75.5	33.2	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631047
 CATALOG NUMBER: GWS-SA1E-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1	1307.1
2.5°	1313.6	1301.9	1312.3	1313.6	1311.4	1309.7	1296.8	1285.5	1284.2	1272.2	1272.2
5°	1318.3	1307.5	1312.7	1302.8	1287.3	1271.3	1243.7	1224.7	1216.1	1200.5	1200.5
7.5°	1324.8	1313.6	1307.5	1282.9	1246.7	1211.7	1167.3	1130.2	1115.1	1093.1	1092.2
10°	1330.8	1316.6	1295.9	1248.0	1190.2	1134.5	1069.8	1017.1	981.3	955.0	955.0
12.5°	1330.4	1311.9	1270.9	1200.1	1120.3	1039.6	953.3	873.9	826.4	785.4	782.8
15°	1329.6	1304.1	1238.9	1144.4	1038.7	926.9	809.6	706.0	635.6	595.5	592.1
17.5°	1328.7	1294.2	1203.1	1081.0	939.4	787.1	632.2	520.0	461.3	436.7	437.6
20°	1328.7	1282.9	1164.7	1008.1	825.1	619.7	463.9	382.3	367.7	369.0	370.3
22.5°	1324.8	1269.1	1122.0	928.7	697.8	455.7	342.2	314.6	322.4	334.4	336.2
25°	1315.7	1246.3	1072.4	840.6	546.3	331.8	279.2	274.0	288.3	303.4	307.7
27.5°	1301.5	1219.9	1016.7	737.5	402.2	266.7	245.5	245.1	256.3	267.6	271.4
30°	1286.4	1190.6	958.0	622.7	291.3	232.2	224.0	224.0	229.6	236.5	235.6
32.5°	1268.7	1160.8	895.0	503.2	237.3	212.7	210.2	208.9	209.7	212.3	212.3
35°	1253.6	1134.5	830.3	376.7	212.7	202.0	199.4	196.3	195.1	193.3	194.2
37.5°	1248.0	1113.8	763.4	283.9	200.7	194.2	189.9	185.6	182.5	181.7	181.2
40°	1257.1	1105.2	696.5	233.9	192.0	186.0	181.2	175.6	173.0	173.0	173.0
42.5°	1292.4	1111.6	628.3	211.5	186.0	179.1	172.2	167.0	166.1	167.0	167.4
45°	1357.2	1136.7	557.5	200.2	180.8	172.2	164.0	160.1	160.1	161.0	161.0
47.5°	1472.8	1202.3	487.6	193.3	175.6	166.6	157.9	154.1	153.6	154.5	154.5
50°	1673.1	1320.5	424.6	188.6	171.8	162.3	153.6	148.4	147.2	146.7	146.7
52.5°	1925.5	1525.5	384.5	185.1	167.0	157.5	148.9	142.0	139.4	138.1	138.1
55°	2230.6	1798.6	384.5	182.5	161.0	151.9	142.0	135.1	131.2	129.5	129.5
57.5°	2576.3	2116.7	451.0	180.4	156.2	145.4	134.6	127.7	123.4	120.8	120.8
60°	2928.0	2452.8	615.4	177.4	151.9	137.2	126.4	120.0	114.4	111.3	110.9
62.5°	3292.6	2823.1	832.0	179.1	148.9	129.5	117.8	110.5	105.7	102.7	102.3
65°	3626.6	3175.7	1021.4	192.5	149.3	122.6	107.9	101.4	97.5	93.6	93.2
67.5°	3910.1	3370.3	888.5	219.7	158.4	114.4	98.0	91.5	88.0	85.4	85.0
70°	3711.6	3073.4	504.0	236.5	170.9	105.7	86.7	82.4	79.0	77.2	76.8
72.5°	3173.9	2602.1	337.0	208.9	155.8	94.5	76.4	72.9	70.3	68.2	67.8
75°	2571.1	2063.6	257.6	171.3	121.3	76.8	65.6	63.0	60.4	58.3	57.8
77.5°	1521.2	1192.3	189.9	135.5	85.4	60.0	54.4	52.2	49.6	47.9	47.5
80°	485.5	414.3	120.4	93.2	56.5	46.2	41.9	40.1	37.5	35.4	35.0
82.5°	185.1	160.1	63.9	47.5	37.5	31.5	28.0	26.3	24.6	22.4	22.0
85°	82.0	76.8	35.4	25.5	20.3	15.5	13.8	12.9	10.8	9.1	8.6
87.5°	28.9	28.9	15.1	7.3	4.3	2.2	1.3	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

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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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)