

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: P634517

Luminaire Tested: GWS-SA3B-830-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3B-830-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6510.4 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

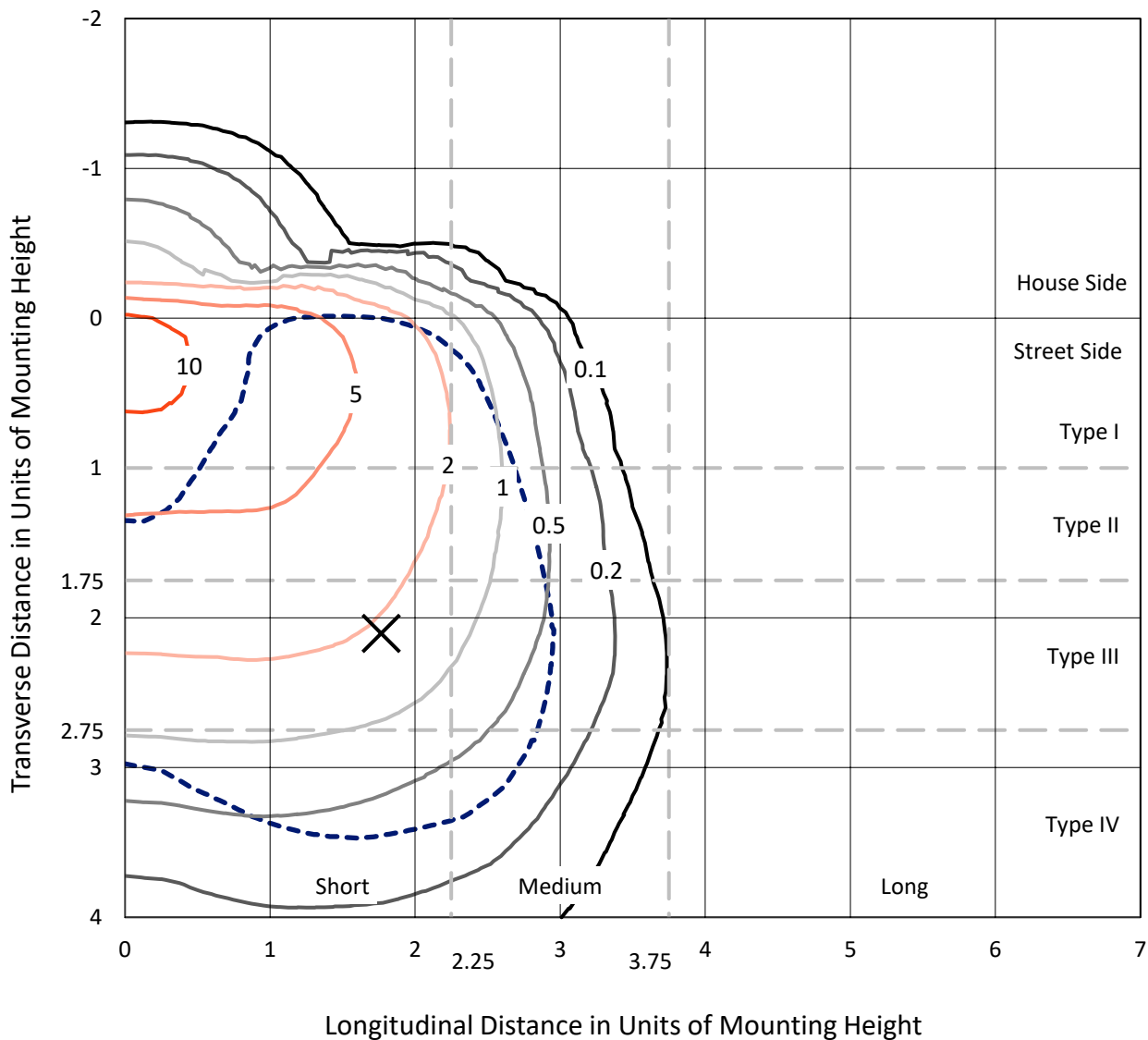
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P634517
 CATALOG NUMBER: GWS-SA3B-830-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

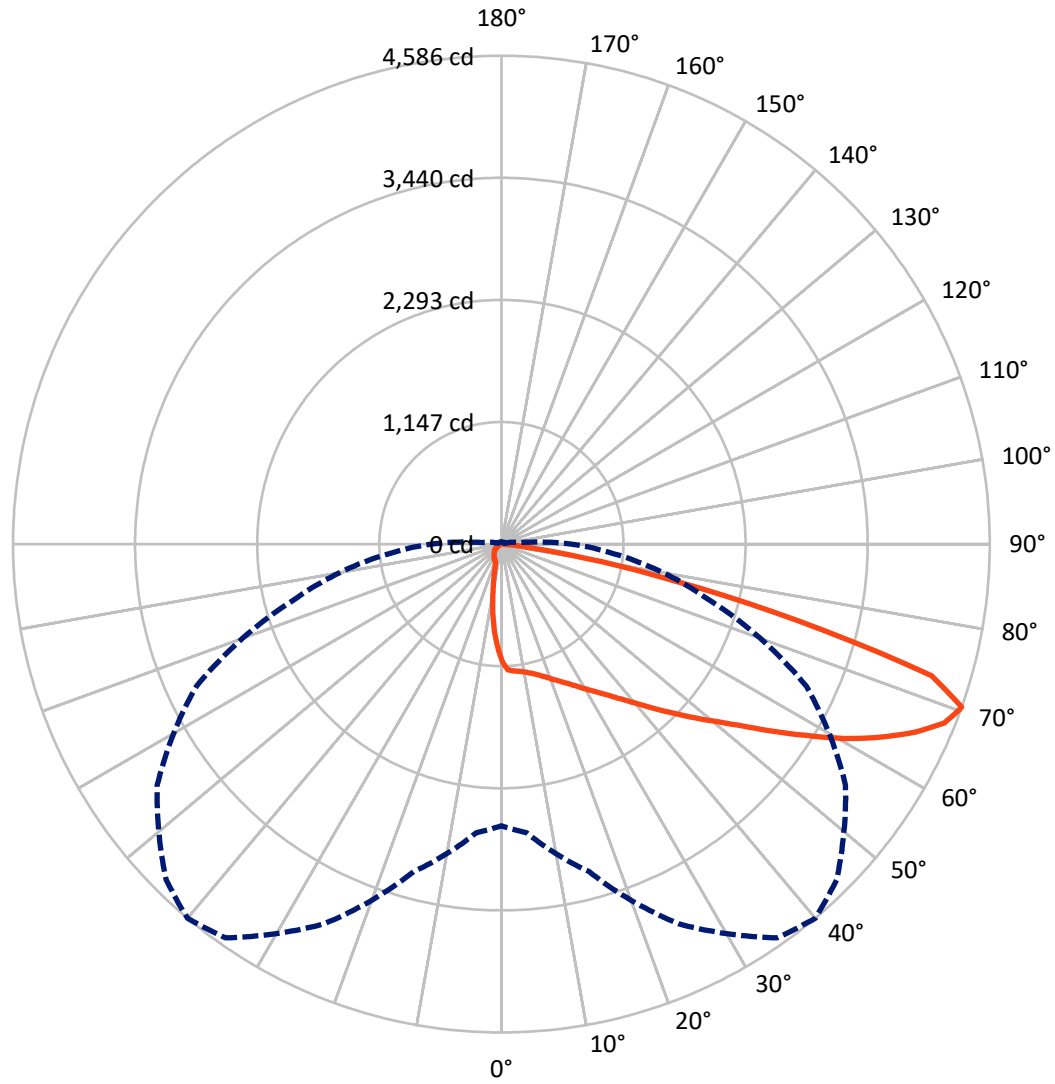
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

REPORT NUMBER: P634517
CATALOG NUMBER: GWS-SA3B-830-U-SL4-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P634517
 CATALOG NUMBER: GWS-SA3B-830-U-SL4-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	532.4	0.0	532.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	5978.0	0.0	5978.0
	% Fixture	91.8	0.0	91.8
Total	Lumens	6510.4	0.0	6510.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	1.4
10°-20°	236.8	3.6
20°-30°	396.4	6.1
30°-40°	622.5	9.6
40°-50°	984.7	15.1
50°-60°	1436.4	22.1
60°-70°	1780.6	27.4
70°-80°	900.9	13.8
80°-90°	58.8	0.9
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°	6510.4	100.0
0°-180°	6510.4	100.0

Coefficient of Utilization



REPORT NUMBER: P634517

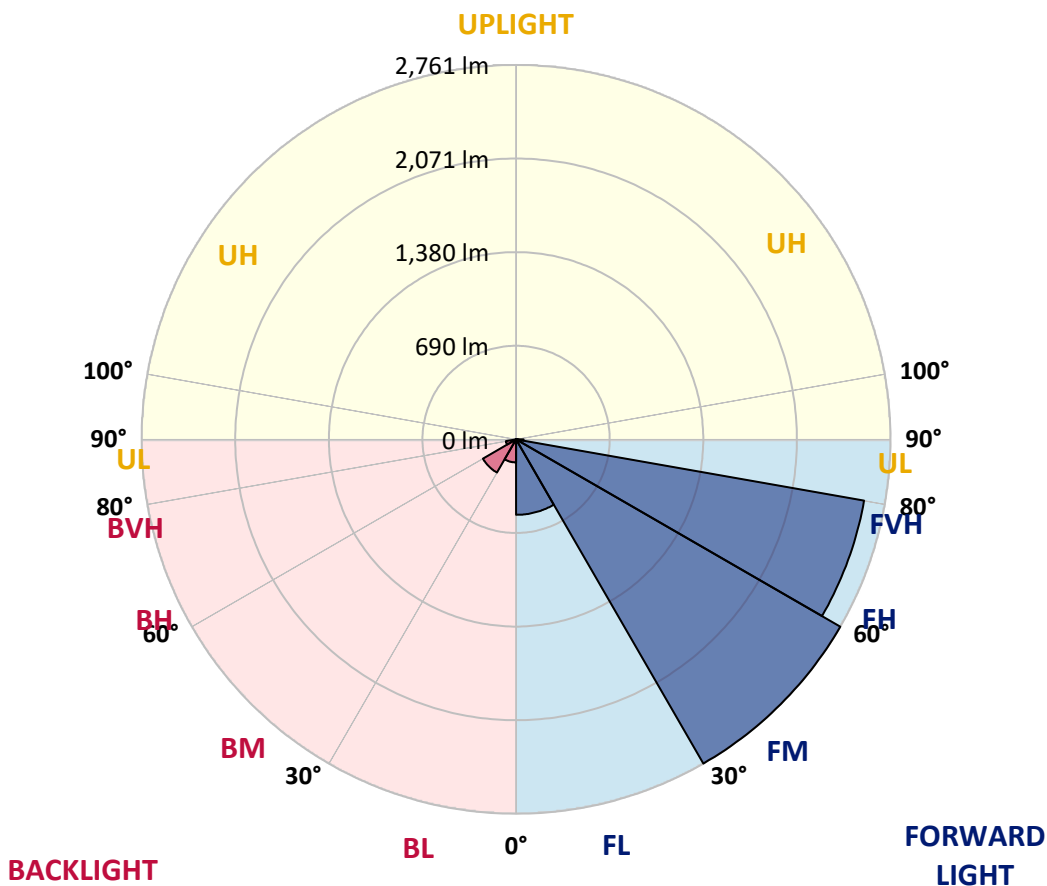
CATALOG NUMBER: GWS-SA3B-830-U-SL4-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.5	8.5			
FM (30°-60°)	2761.0	42.4			
FH (60°-80°)	2605.6	40.0			G2/5000
FVH (80°-90°)	54.9	0.8			G1/100
BL (0°-30°)	170.0	2.6	B1/500		
BM (30°-60°)	282.6	4.3	B1/1000		
BH (60°-80°)	75.9	1.2	B0/110		G0/110
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P634517

CATALOG NUMBER: GWS-SA3B-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7
2.5°	1187.7	1191.8	1191.2	1193.0	1188.9	1182.3	1181.2	1172.3	1156.3	1136.1	1113.6
5°	1212.0	1216.7	1213.1	1211.4	1203.7	1196.6	1194.8	1185.3	1166.9	1139.7	1100.6
7.5°	1232.7	1233.9	1231.5	1227.4	1216.1	1206.6	1200.1	1187.1	1165.2	1137.9	1092.9
10°	1236.2	1235.6	1236.8	1237.4	1230.3	1222.0	1216.7	1198.9	1171.1	1142.1	1093.5
12.5°	1232.1	1232.1	1239.8	1248.7	1248.7	1244.5	1239.2	1223.2	1190.6	1156.3	1105.3
15°	1237.4	1239.2	1254.0	1270.6	1275.9	1271.8	1269.4	1252.8	1219.1	1181.2	1126.7
17.5°	1256.4	1258.2	1281.9	1306.7	1313.2	1308.5	1303.8	1287.2	1251.0	1209.6	1150.9
20°	1284.2	1289.0	1319.2	1351.2	1357.1	1351.2	1341.7	1318.6	1282.4	1240.4	1174.0
22.5°	1335.2	1338.1	1370.7	1404.5	1407.4	1398.0	1383.7	1351.7	1313.8	1273.0	1200.1
25°	1402.7	1406.8	1439.4	1472.0	1464.3	1450.1	1430.5	1394.4	1351.2	1311.5	1233.3
27.5°	1483.2	1488.0	1520.0	1548.4	1528.3	1511.7	1489.8	1444.7	1400.9	1364.8	1275.9
30°	1570.3	1574.5	1602.9	1628.4	1601.7	1582.2	1556.1	1509.9	1465.5	1438.2	1336.3
32.5°	1654.4	1653.8	1681.1	1701.8	1674.6	1659.2	1635.5	1588.7	1553.1	1541.3	1426.4
35°	1732.6	1732.6	1755.1	1775.9	1756.3	1748.0	1726.1	1688.8	1668.7	1682.9	1546.6
37.5°	1811.4	1807.3	1828.6	1851.7	1849.9	1850.5	1838.1	1820.3	1821.5	1871.8	1711.9
40°	1876.6	1874.8	1899.7	1929.9	1953.6	1972.5	1964.8	1971.3	2008.7	2102.9	1923.4
42.5°	1928.7	1932.8	1964.8	2012.8	2072.6	2111.1	2116.5	2143.1	2239.1	2384.8	2162.1
45°	1988.5	1989.1	2033.5	2107.0	2202.4	2263.4	2284.7	2353.4	2489.7	2677.4	2423.9
47.5°	2062.0	2054.9	2104.6	2207.7	2345.7	2435.8	2473.7	2559.6	2770.4	2962.9	2637.2
50°	2143.1	2130.1	2186.4	2326.8	2506.2	2618.8	2695.8	2821.4	3048.8	3197.5	2795.9
52.5°	2237.3	2224.9	2288.8	2463.6	2698.8	2835.6	2934.5	3061.3	3287.6	3376.4	2890.7
55°	2357.0	2344.5	2412.1	2627.7	2926.2	3103.9	3207.6	3314.2	3509.7	3508.5	2959.4
57.5°	2489.7	2472.5	2566.1	2835.0	3210.0	3394.8	3500.2	3552.3	3678.5	3611.0	3005.6
60°	2641.9	2626.5	2756.2	3082.0	3537.5	3708.7	3775.1	3753.7	3817.1	3671.4	2989.6
62.5°	2779.3	2772.2	2933.3	3343.8	3849.7	3994.2	4012.6	3919.6	3919.0	3672.6	2881.8
65°	2922.1	2935.7	3175.0	3645.3	4163.6	4260.8	4229.4	4084.3	3959.9	3527.5	2563.1
67.5°	2975.4	3015.1	3334.4	3917.8	4411.2	4487.1	4432.0	4166.6	3789.9	3039.4	1951.8
70°	2646.0	2720.7	3183.9	3933.2	4513.7	4586.0	4453.9	3945.1	3159.6	2013.4	1069.2
72.5°	2012.2	2099.3	2653.1	3220.6	4059.4	4224.1	3998.4	3214.1	2036.5	882.0	359.0
75°	1126.1	1220.2	1976.1	2425.1	2725.4	2875.9	2792.9	2062.0	902.2	230.4	107.2
77.5°	380.9	412.3	919.3	1500.4	1799.0	1663.9	1408.6	1024.2	331.7	87.7	56.9
80°	225.7	237.5	342.4	747.0	946.6	784.9	619.6	378.5	168.8	46.8	39.7
82.5°	67.5	80.0	189.0	277.2	370.8	231.0	195.5	216.2	87.7	25.5	33.2
85°	0.0	0.0	40.3	85.9	97.1	37.9	37.9	122.6	16.0	10.7	24.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.0	1.8	2.4	5.3
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: P634517

CATALOG NUMBER: GWS-SA3B-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7	1104.7
2.5°	1097.6	1076.9	1052.6	1029.5	1007.6	979.2	965.5	948.9	934.7	927.0	931.2
5°	1075.7	1043.1	993.4	943.0	892.1	844.1	800.9	771.8	745.8	732.1	735.1
7.5°	1056.8	1012.9	935.3	853.0	771.2	688.9	622.0	569.8	529.6	513.0	510.0
10°	1048.5	993.4	883.8	765.3	639.7	529.0	434.2	376.7	335.9	315.7	319.3
12.5°	1052.6	983.3	840.0	679.4	516.5	387.4	296.8	242.9	213.8	202.0	199.0
15°	1064.5	980.9	800.9	591.8	398.7	270.7	205.0	183.0	177.1	175.9	175.9
17.5°	1078.1	981.5	760.6	502.9	302.7	200.8	175.3	171.2	169.4	168.2	168.8
20°	1091.7	981.5	714.4	412.9	227.5	173.6	167.0	164.1	162.3	161.7	161.7
22.5°	1108.3	981.5	662.8	329.3	182.4	164.7	159.3	157.6	155.8	155.2	154.6
25°	1128.4	982.1	606.0	257.7	165.9	157.0	152.8	151.0	149.3	148.1	148.1
27.5°	1157.5	986.9	543.2	200.8	156.4	149.9	146.3	144.5	142.8	141.0	141.0
30°	1199.5	998.7	472.7	165.9	147.5	142.2	138.6	137.4	135.6	133.9	133.3
32.5°	1262.3	1019.4	399.8	148.7	139.2	133.9	129.7	128.5	126.8	125.0	124.4
35°	1350.0	1057.3	328.8	138.0	128.5	123.2	120.8	120.2	117.9	116.1	116.1
37.5°	1478.5	1119.0	260.6	127.4	119.7	115.5	112.5	111.4	109.0	107.2	106.6
40°	1635.5	1198.9	202.6	119.1	111.4	107.2	104.3	102.5	99.5	97.1	96.0
42.5°	1835.7	1296.7	159.9	110.2	103.7	99.5	97.1	93.6	89.4	85.9	85.3
45°	2044.2	1397.4	132.1	101.9	96.6	93.0	90.0	85.3	79.4	75.2	74.0
47.5°	2204.1	1460.1	115.5	93.0	88.9	85.9	82.3	76.4	69.3	64.6	63.4
50°	2318.5	1469.6	103.1	84.7	82.3	79.4	74.0	66.9	59.2	54.5	53.3
52.5°	2374.7	1427.0	93.0	77.0	75.2	72.3	65.8	58.1	49.8	45.0	43.8
55°	2400.2	1346.4	83.5	70.5	68.1	64.6	57.5	49.2	40.9	36.7	35.5
57.5°	2390.1	1227.4	75.2	64.0	61.0	56.9	49.2	40.3	33.8	29.6	29.0
60°	2315.5	1060.3	66.9	57.5	53.9	49.2	41.5	33.2	27.2	24.3	23.7
62.5°	2154.4	853.0	58.6	49.8	47.4	42.6	35.5	27.2	22.5	20.7	20.1
65°	1824.4	603.0	50.3	42.1	40.9	36.1	29.6	22.5	19.5	18.4	17.8
67.5°	1311.5	366.7	42.6	36.1	34.9	30.8	24.9	19.5	17.8	17.2	17.2
70°	659.3	173.6	33.8	29.6	29.6	25.5	21.3	17.8	17.2	16.6	16.6
72.5°	223.9	74.0	25.5	23.1	24.3	21.9	18.4	16.6	16.6	16.6	16.6
75°	76.4	39.1	17.8	16.6	17.8	17.8	16.0	16.0	16.6	16.6	16.6
77.5°	49.8	26.1	12.4	11.3	13.6	13.6	13.6	14.8	16.0	16.0	16.0
80°	40.9	14.2	8.3	7.7	10.1	10.1	11.3	13.6	14.8	14.8	14.8
82.5°	34.9	8.9	4.7	5.3	7.1	7.7	9.5	11.3	13.0	13.6	13.6
85°	23.7	4.7	3.6	4.1	4.7	5.9	7.7	9.5	10.7	11.8	11.8
87.5°	6.5	1.8	2.4	3.0	3.0	4.1	5.9	7.1	8.3	8.9	8.9
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

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



CCT = 3050K
 CIE x = 0.4383
 CIE y = 0.4131
 Duv = 0.0034

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

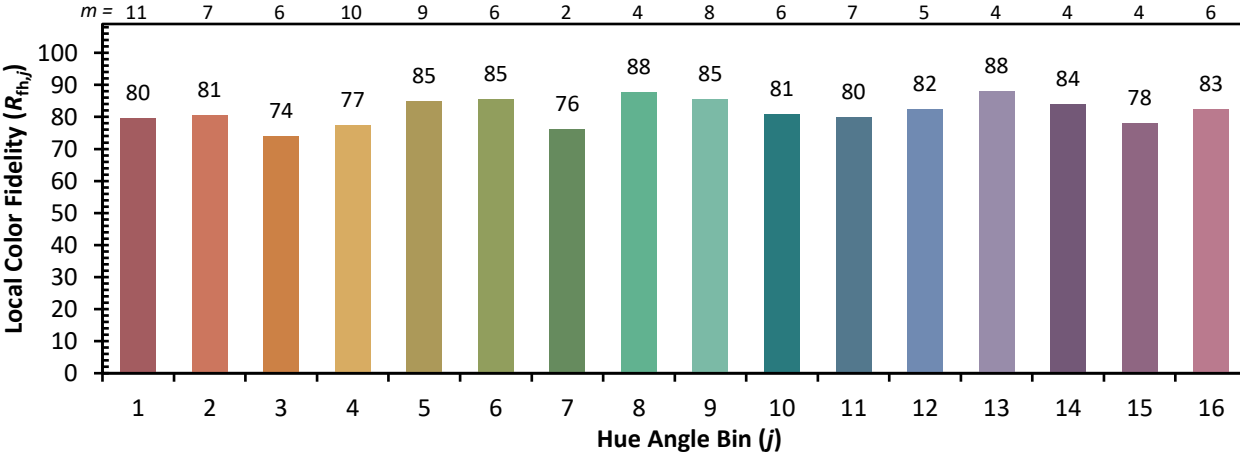


Individual Sample Fidelity Index ($R_{f,i}$)

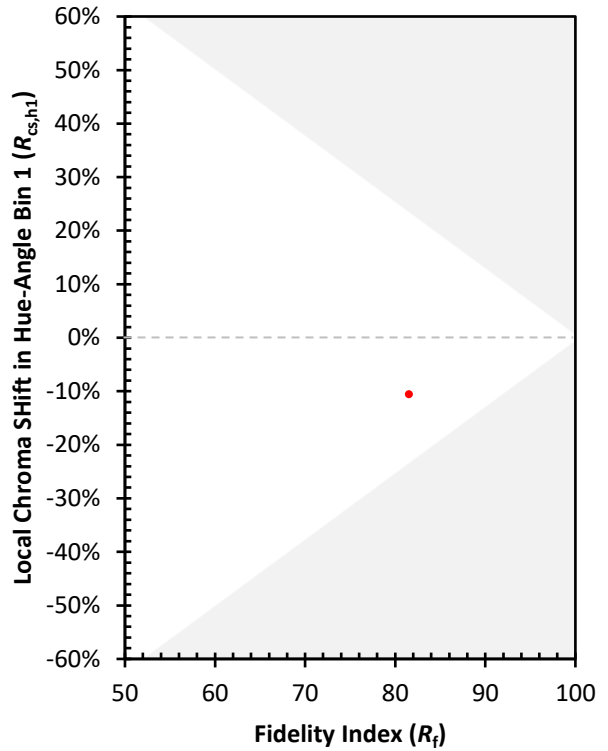
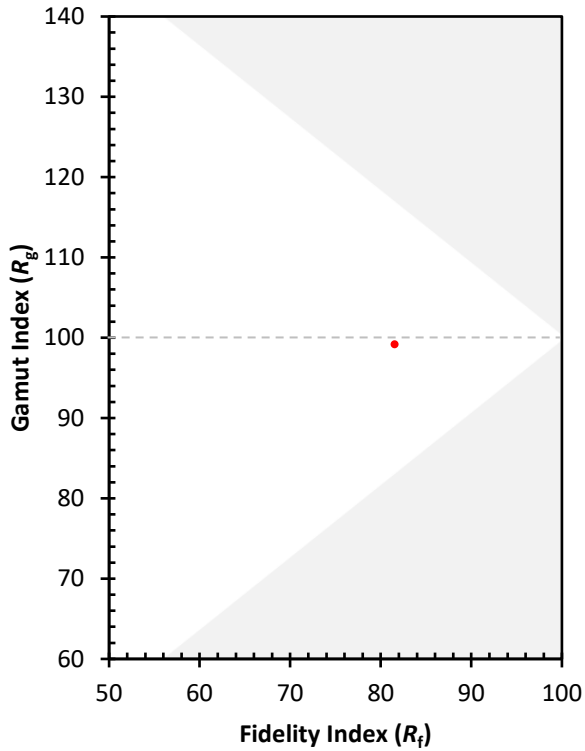
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)