

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: P635004

Luminaire Tested: GWS-SA3C-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-830-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6506.8 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

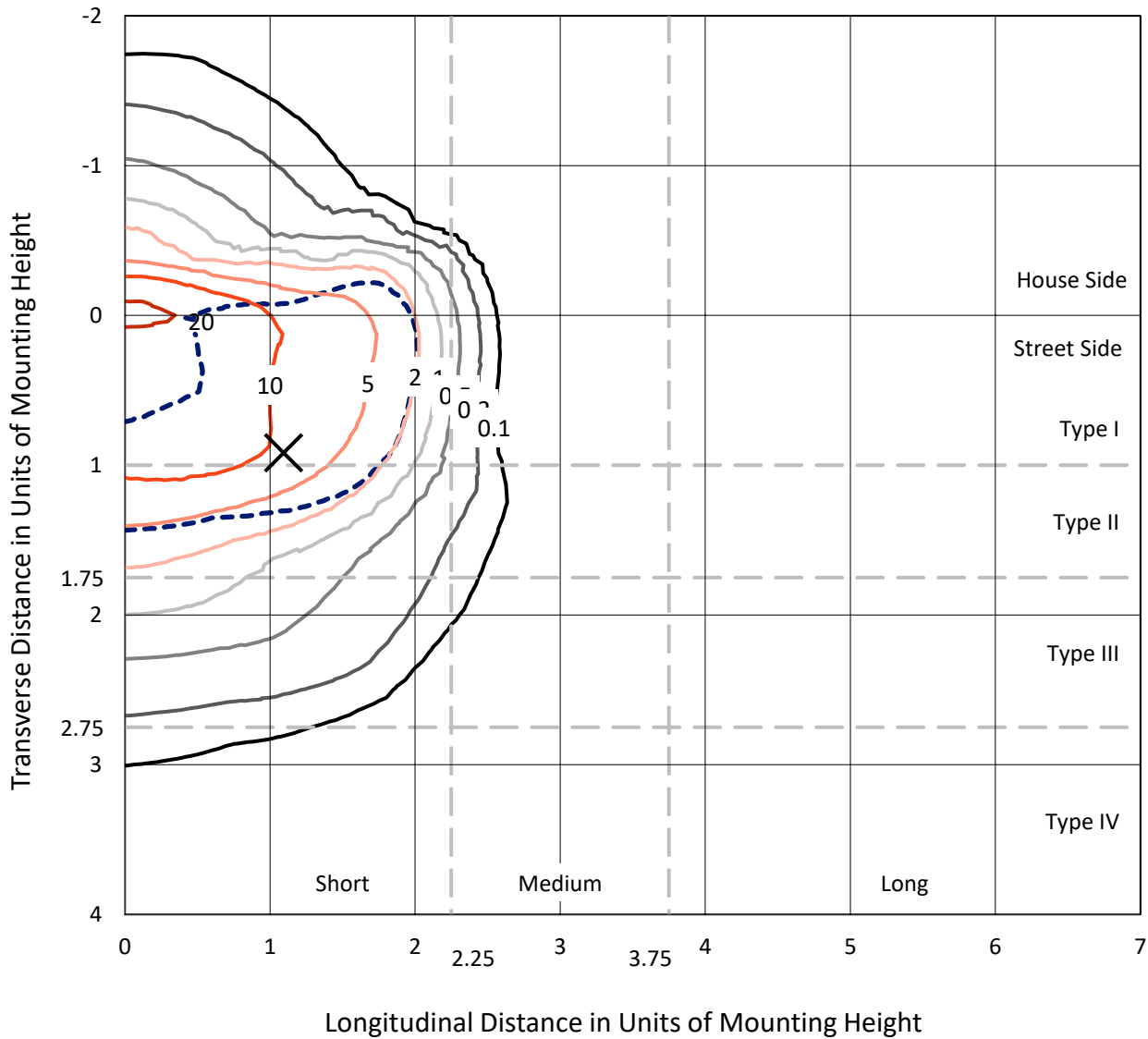
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635004
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Iso-Footcandle Lines of Horizontal Illumination

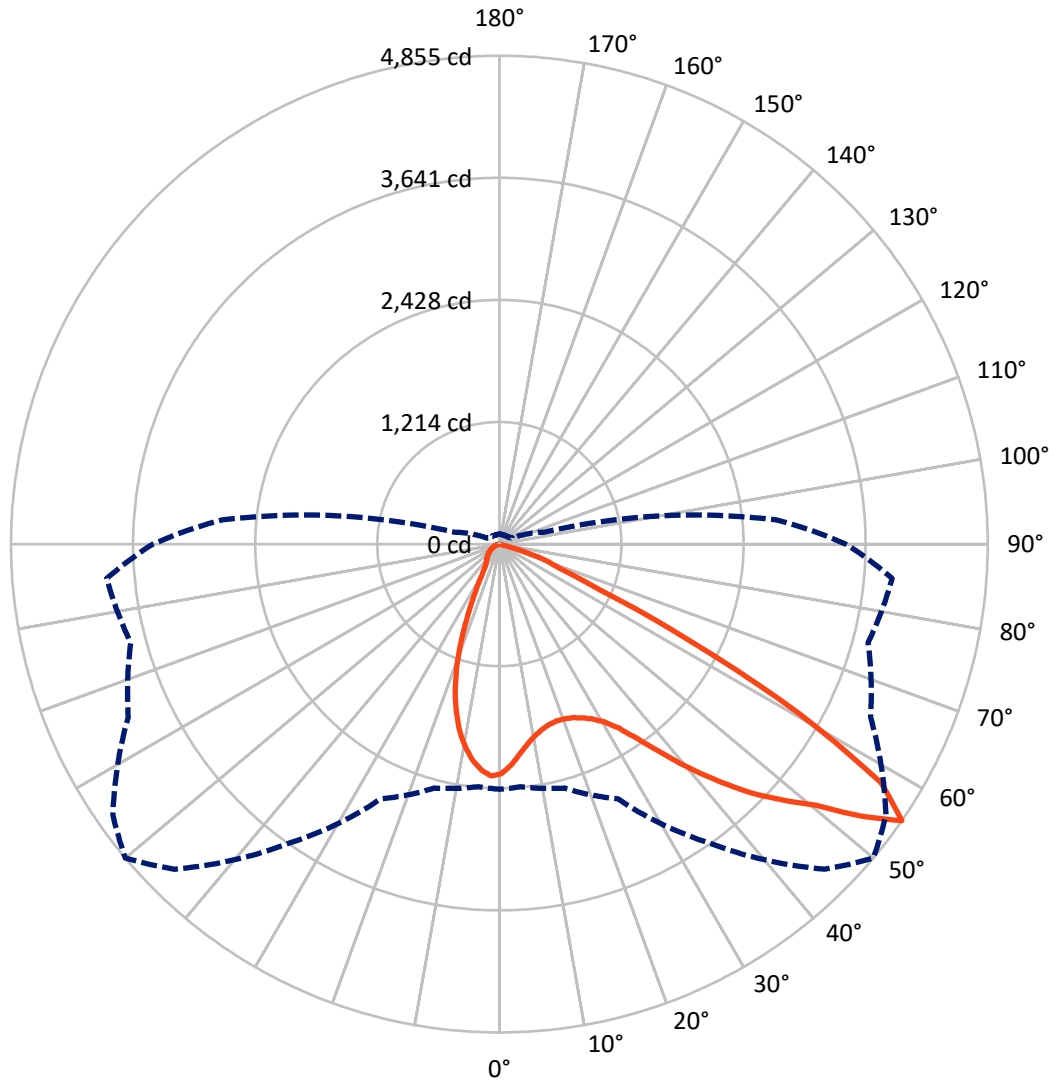
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 fc
 Type II - Short - N/A

REPORT NUMBER: P635004
CATALOG NUMBER: GWS-SA3C-830-U-SL2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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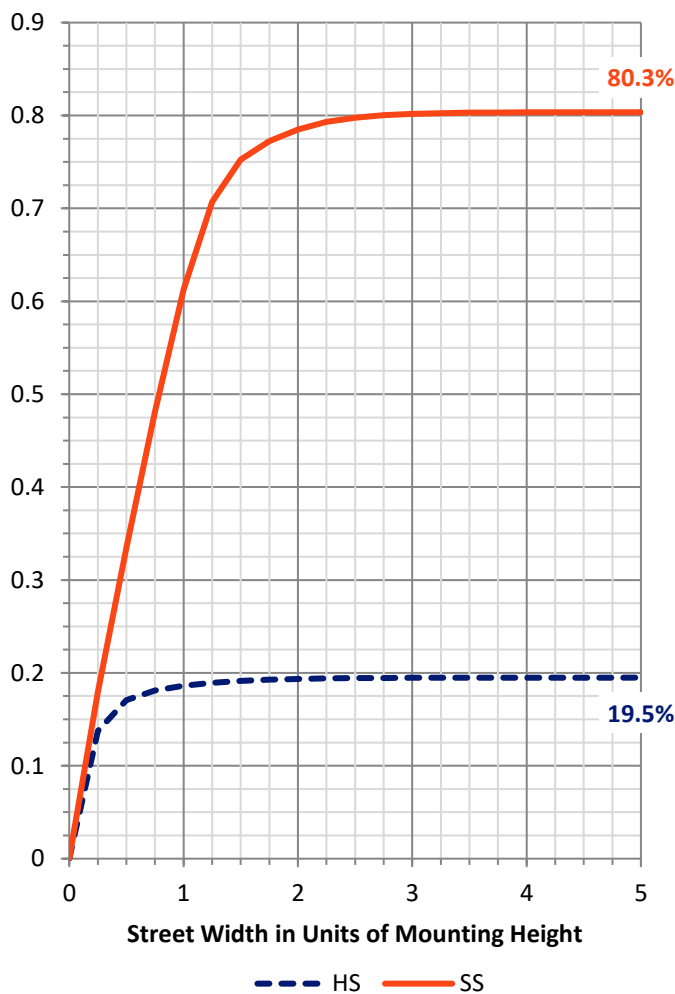
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1282.1	0.0	1282.1
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	5224.7	0.0	5224.7
	% Fixture	80.3	0.0	80.3
Total	Lumens	6506.8	0.0	6506.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	3.1
10°-20°	493.4	7.6
20°-30°	695.9	10.7
30°-40°	1029.8	15.8
40°-50°	1485.7	22.8
50°-60°	1752.5	26.9
60°-70°	781.8	12.0
70°-80°	67.2	1.0
80°-90°	0.0	0.0
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°	6506.8	100.0
0°-180°	6506.8	100.0

Coefficient of Utilization



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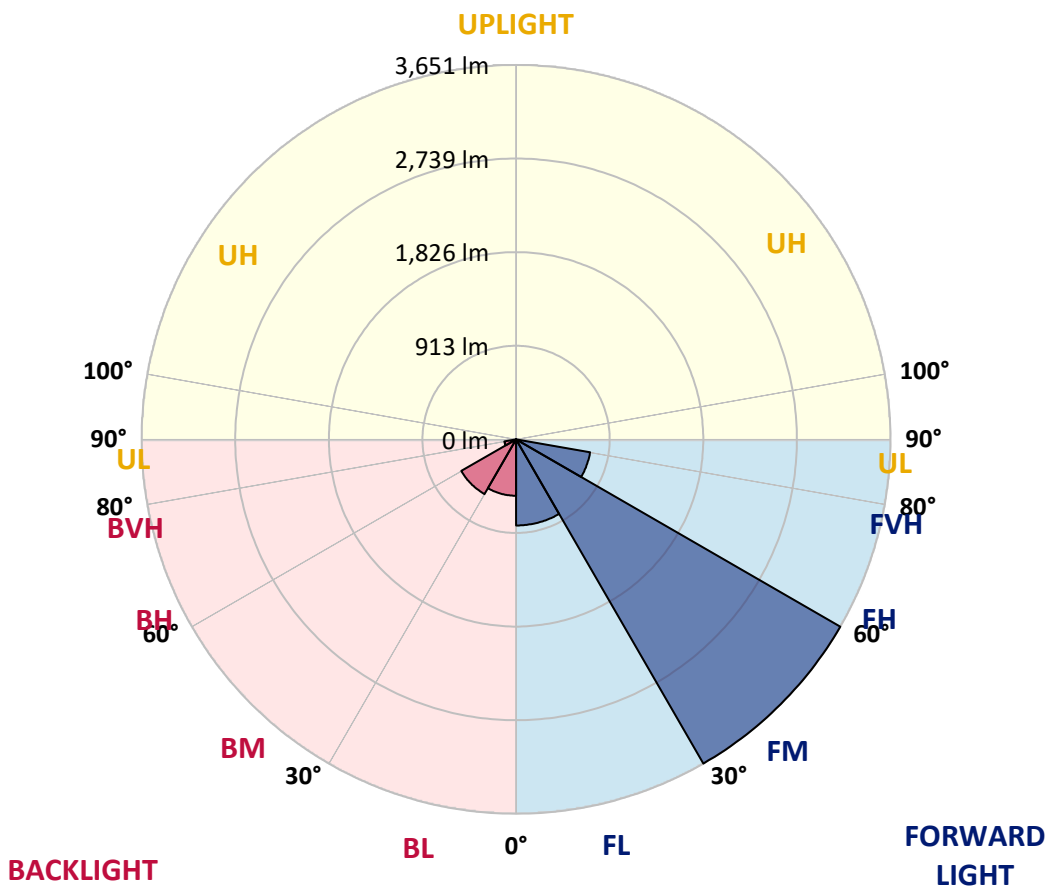
CATALOG NUMBER: GWS-SA3C-830-U-SL2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.0	12.9			
FM (30°-60°)	3651.4	56.1			
FH (60°-80°)	733.2	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	549.7	8.4	B2/1000		
BM (30°-60°)	616.6	9.5	B1/1000		
BH (60°-80°)	115.8	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P635004
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9
2.5°	2120.9	2122.5	2123.3	2144.7	2152.7	2184.4	2201.1	2209.9	2232.9	2259.9	2282.2
5°	1978.7	1976.3	1980.3	2007.3	2024.8	2071.7	2097.1	2114.5	2165.4	2228.9	2282.2
7.5°	1854.8	1859.6	1864.3	1893.7	1919.9	1970.8	2007.3	2033.5	2104.2	2198.7	2288.5
10°	1767.4	1767.4	1774.6	1807.9	1838.9	1901.7	1938.2	1971.6	2055.8	2171.7	2295.7
12.5°	1703.1	1703.9	1712.6	1750.7	1786.5	1851.6	1889.7	1922.3	2015.3	2144.7	2297.2
15°	1672.9	1670.5	1677.7	1718.2	1757.9	1819.0	1858.8	1890.5	1986.7	2129.6	2305.2
17.5°	1664.9	1663.4	1668.9	1708.6	1749.1	1808.7	1847.6	1879.4	1982.7	2134.4	2329.0
20°	1688.0	1684.8	1682.4	1716.6	1754.7	1813.5	1854.0	1889.7	2001.7	2160.6	2365.6
22.5°	1742.8	1742.8	1737.2	1753.9	1779.3	1832.6	1874.7	1921.5	2051.8	2213.0	2419.6
25°	1843.7	1835.7	1825.4	1832.6	1829.4	1862.7	1912.8	1977.9	2146.3	2299.6	2485.5
27.5°	1958.9	1966.0	1948.5	1949.3	1921.5	1909.6	1967.6	2066.1	2286.9	2422.0	2583.2
30°	2115.3	2109.8	2110.6	2108.2	2043.8	1987.5	2050.2	2181.3	2464.1	2608.6	2710.3
32.5°	2237.7	2245.6	2271.8	2286.9	2202.7	2112.2	2178.9	2337.8	2665.8	2821.5	2866.0
35°	2367.1	2381.4	2434.7	2483.9	2413.2	2309.2	2380.7	2545.1	2855.7	3032.0	3044.7
37.5°	2503.8	2532.4	2595.9	2682.5	2671.4	2579.2	2644.4	2788.9	3005.0	3159.1	3192.5
40°	2660.3	2688.1	2792.1	2916.8	2943.0	2922.4	2943.8	3028.0	3103.5	3164.7	3256.0
42.5°	2831.8	2870.0	3001.8	3168.6	3267.1	3285.4	3235.4	3226.6	3146.4	3101.1	3242.5
45°	3034.4	3078.9	3228.2	3444.3	3600.8	3625.4	3538.8	3426.8	3173.4	3054.3	3202.0
47.5°	3261.6	3303.7	3452.2	3712.0	3944.7	3954.2	3803.3	3623.0	3253.6	3108.3	3233.0
50°	3337.8	3364.1	3492.7	3797.8	4226.7	4299.8	4081.3	3843.8	3414.9	3267.1	3383.9
52.5°	3075.7	3086.0	3198.0	3506.2	4169.5	4639.0	4487.3	4173.5	3701.6	3509.4	3616.7
55°	2437.1	2420.4	2510.9	2793.7	3623.8	4569.9	4855.0	4691.4	4071.0	3793.8	3919.3
57.5°	1704.7	1684.8	1664.2	1855.6	2704.0	3874.0	4473.8	4763.7	4422.9	4075.8	4245.8
60°	1401.2	1382.2	1282.1	1193.9	1634.8	2781.8	3436.3	3982.1	4394.3	4061.5	4235.4
62.5°	1210.6	1199.5	1158.9	1039.0	962.0	1587.9	2151.9	2674.6	3372.0	3189.3	3198.8
65°	950.8	947.7	975.5	988.2	850.7	878.5	1097.8	1390.1	1823.0	1719.0	1630.0
67.5°	649.8	642.6	695.1	854.7	818.2	693.5	642.6	648.2	788.8	482.2	382.9
70°	413.1	396.4	397.2	529.8	665.7	547.3	495.7	436.1	392.4	71.5	81.0
72.5°	264.5	254.2	218.4	239.1	308.2	266.9	269.3	231.9	154.9	38.1	44.5
75°	111.2	102.5	78.6	62.8	62.0	38.9	34.2	31.8	21.4	21.4	23.0
77.5°	0.8	0.0	0.0	0.8	1.6	0.8	0.8	1.6	3.2	4.8	5.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P635004

CATALOG NUMBER: GWS-SA3C-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9	2282.9
2.5°	2295.7	2276.6	2298.0	2306.0	2305.2	2306.0	2282.9	2267.1	2266.3	2246.4	2236.9
5°	2304.4	2289.3	2305.2	2294.9	2270.2	2239.3	2198.0	2162.2	2146.3	2123.3	2112.2
7.5°	2321.1	2305.2	2302.8	2261.5	2200.3	2135.2	2062.1	1997.0	1962.0	1919.9	1922.3
10°	2333.0	2314.7	2283.7	2199.5	2097.9	1993.8	1885.0	1788.1	1726.9	1670.5	1661.0
12.5°	2337.8	2310.7	2238.5	2111.4	1968.4	1832.6	1672.9	1534.7	1439.4	1365.5	1355.2
15°	2346.5	2302.8	2180.5	2004.9	1808.7	1616.5	1413.1	1224.1	1097.8	1012.8	1019.9
17.5°	2360.0	2294.1	2115.3	1885.8	1637.1	1365.5	1090.6	873.8	757.8	708.6	709.3
20°	2379.1	2283.7	2043.8	1754.7	1431.4	1081.9	762.6	598.9	566.4	564.8	562.4
22.5°	2404.5	2273.4	1967.6	1610.9	1187.5	757.8	507.6	456.7	470.3	496.5	501.2
25°	2434.7	2260.7	1882.6	1448.9	921.4	497.3	380.5	372.5	405.1	440.1	448.0
27.5°	2481.5	2254.4	1785.7	1264.6	646.6	356.7	311.4	316.1	345.5	374.9	382.1
30°	2561.0	2266.3	1680.0	1058.1	415.4	284.4	270.1	277.2	293.1	308.2	314.6
32.5°	2669.0	2301.2	1577.6	832.5	296.3	247.0	243.9	247.8	254.2	262.9	265.3
35°	2795.3	2361.6	1471.9	595.8	244.7	225.6	222.4	222.4	225.6	227.2	228.0
37.5°	2899.4	2425.1	1372.6	396.4	219.2	208.9	204.1	201.8	201.0	202.6	203.4
40°	2944.6	2451.3	1264.6	288.3	201.0	193.8	186.7	179.5	179.5	185.1	185.9
42.5°	2912.9	2422.0	1139.9	238.3	188.3	177.9	166.8	160.5	163.6	169.2	170.8
45°	2845.3	2349.7	1002.5	210.5	175.6	162.0	149.3	145.4	148.5	155.7	157.3
47.5°	2834.2	2302.0	838.0	192.2	162.0	148.5	135.0	131.1	135.0	140.6	142.2
50°	2944.6	2343.3	655.3	176.3	149.3	134.2	123.1	119.2	121.5	124.7	126.3
52.5°	3146.4	2496.6	529.0	161.3	134.2	119.9	112.8	108.0	108.0	111.2	112.0
55°	3444.3	2764.3	456.7	143.8	116.8	108.8	102.5	97.7	97.7	99.3	100.1
57.5°	3787.4	3088.4	473.4	120.7	102.5	98.5	92.9	89.0	90.6	90.6	90.6
60°	3739.8	3064.6	506.8	101.7	90.6	89.0	84.2	82.6	86.6	83.4	81.8
62.5°	2754.8	2116.9	265.3	83.4	77.8	76.3	73.1	76.3	81.8	73.1	69.9
65°	1337.7	1024.7	106.4	68.3	65.9	64.3	62.8	67.5	70.7	57.2	54.0
67.5°	314.6	255.8	69.1	58.0	54.8	51.6	53.2	54.0	51.6	38.9	37.3
70°	81.8	80.2	54.0	48.5	43.7	40.5	40.5	39.7	34.2	24.6	23.0
72.5°	44.5	43.7	38.9	36.5	30.2	27.0	27.8	24.6	19.1	14.3	13.5
75°	22.2	23.8	22.2	20.7	16.7	15.1	15.1	13.5	9.5	5.6	5.6
77.5°	4.8	5.6	5.6	4.8	4.0	3.2	3.2	4.0	1.6	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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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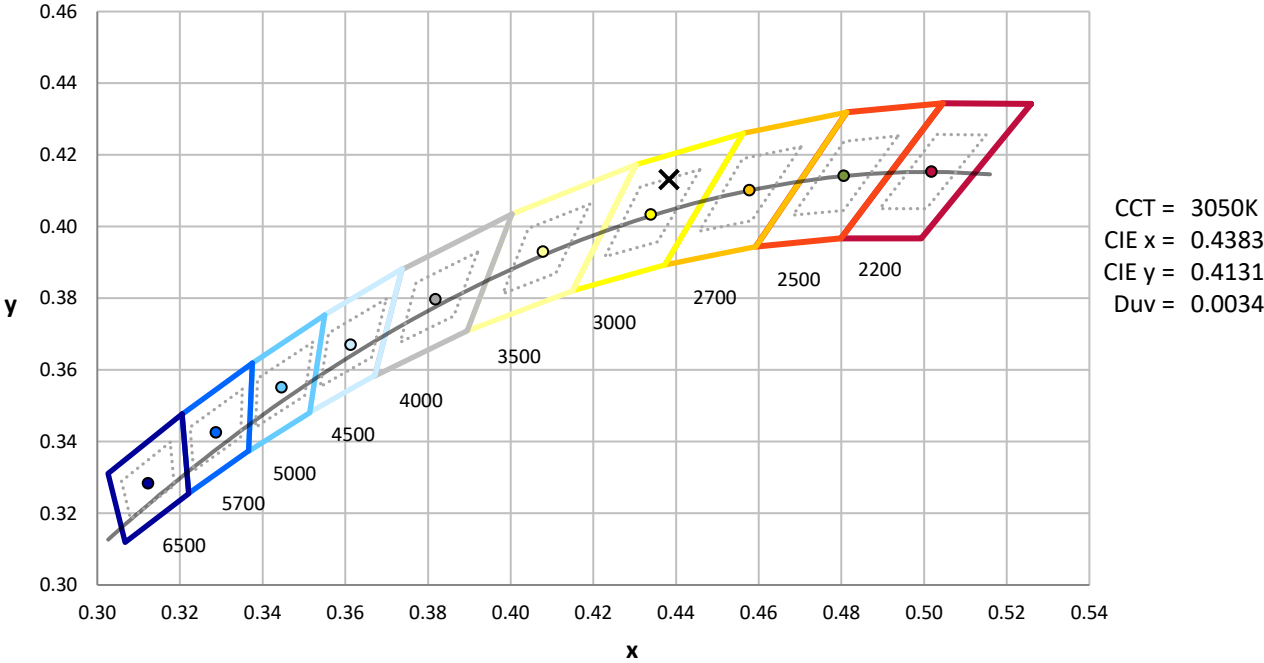
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	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



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

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

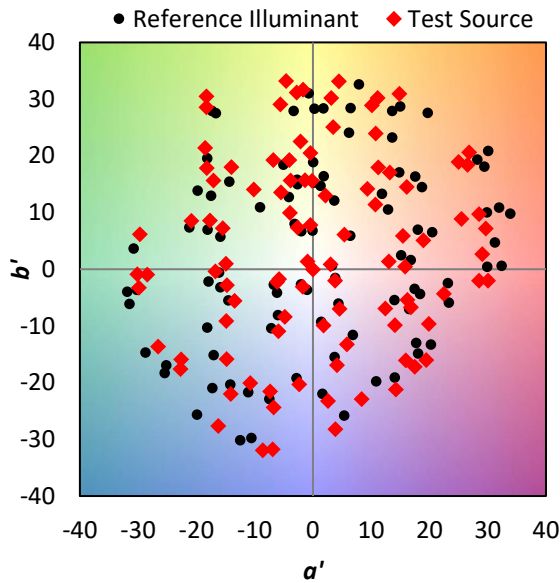
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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)