

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: P635993

Luminaire Tested: GWS-SA3E-830-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-830-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17983.9 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

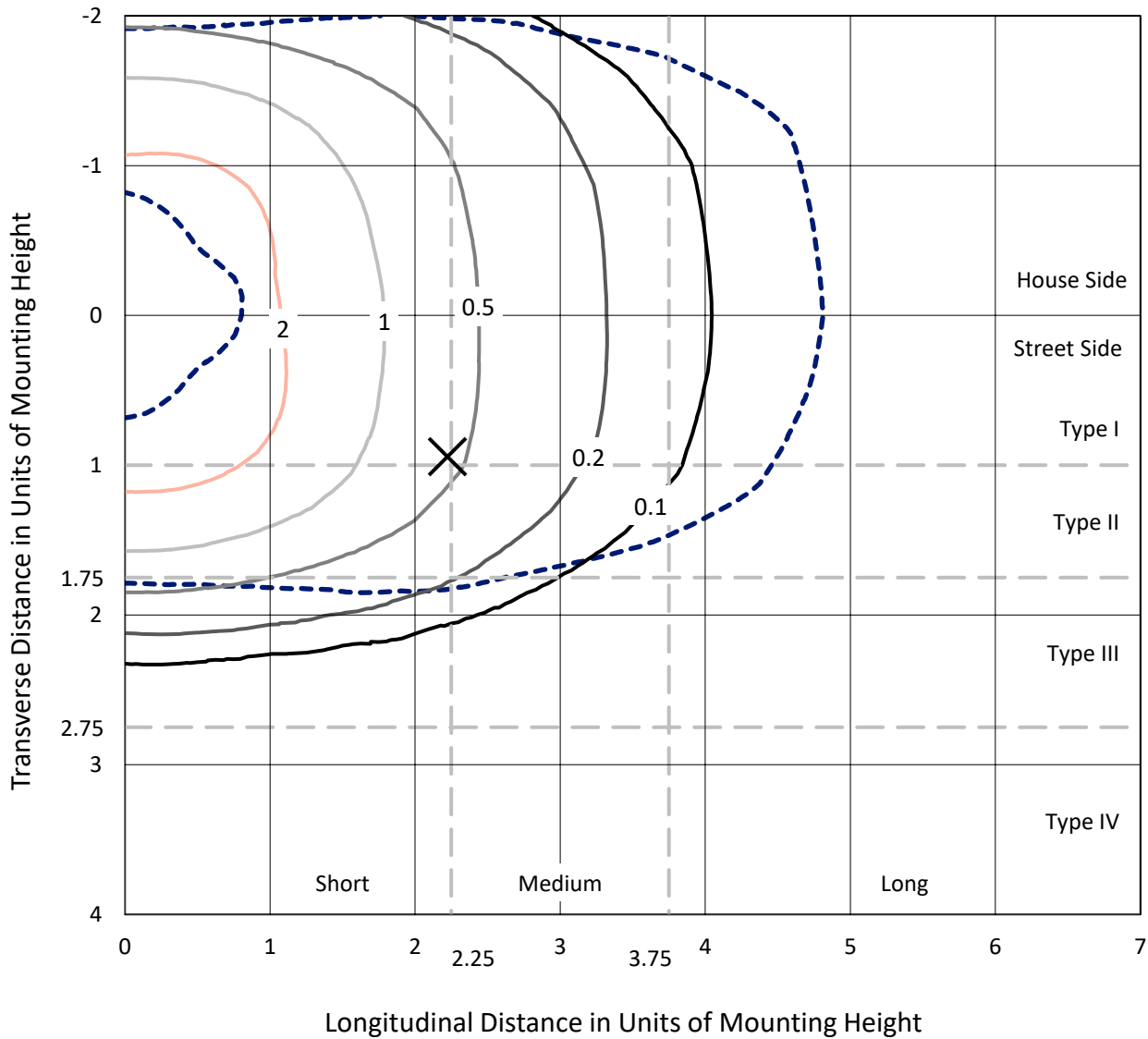
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

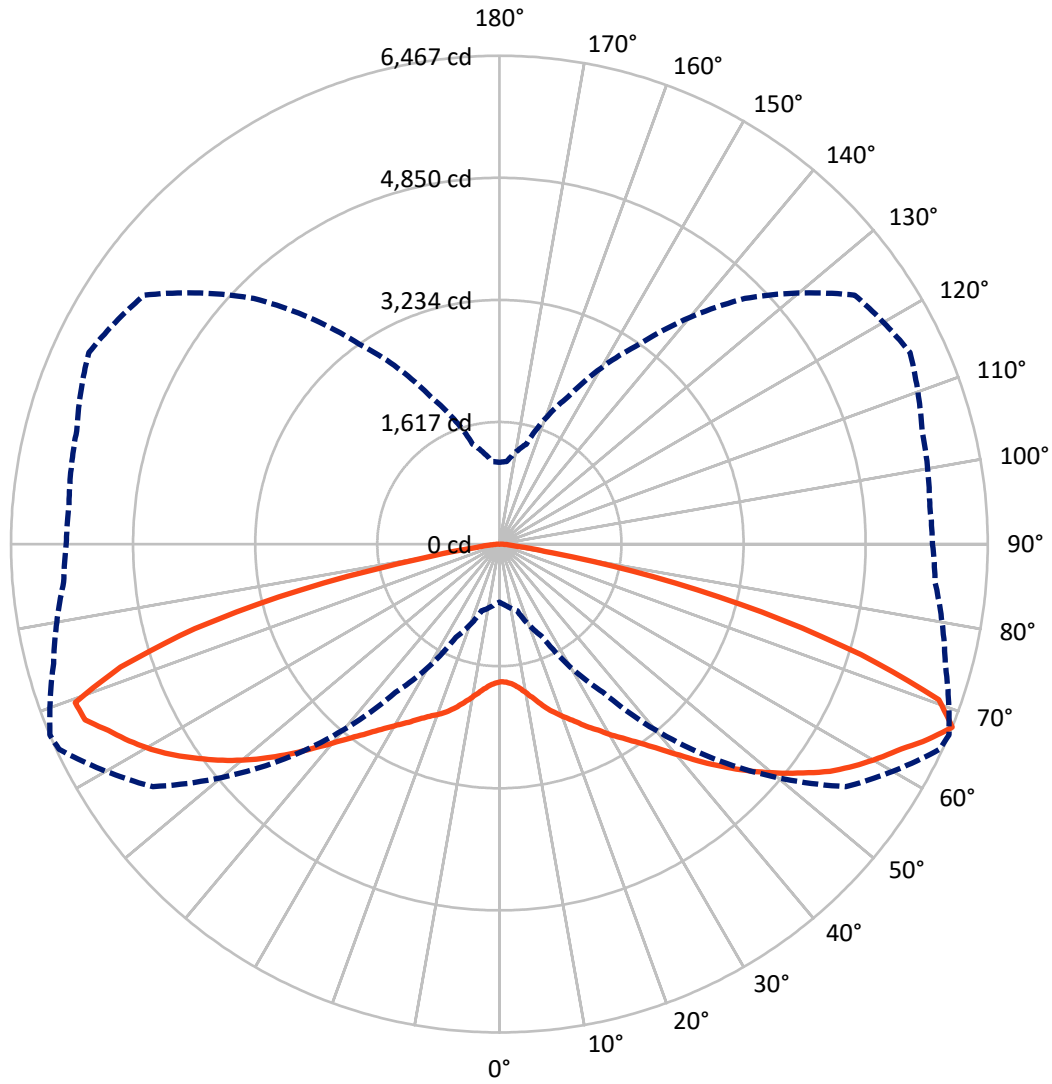
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8892.7	0.0	8892.7
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	9091.2	0.0	9091.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	17983.9	0.0	17983.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	1.0
10°-20°	603.6	3.4
20°-30°	1184.2	6.6
30°-40°	2017.5	11.2
40°-50°	3239.7	18.0
50°-60°	4402.1	24.5
60°-70°	4210.9	23.4
70°-80°	2002.0	11.1
80°-90°	145.1	0.8
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°	17983.9	100.0
0°-180°	17983.9	100.0

Coefficient of Utilization



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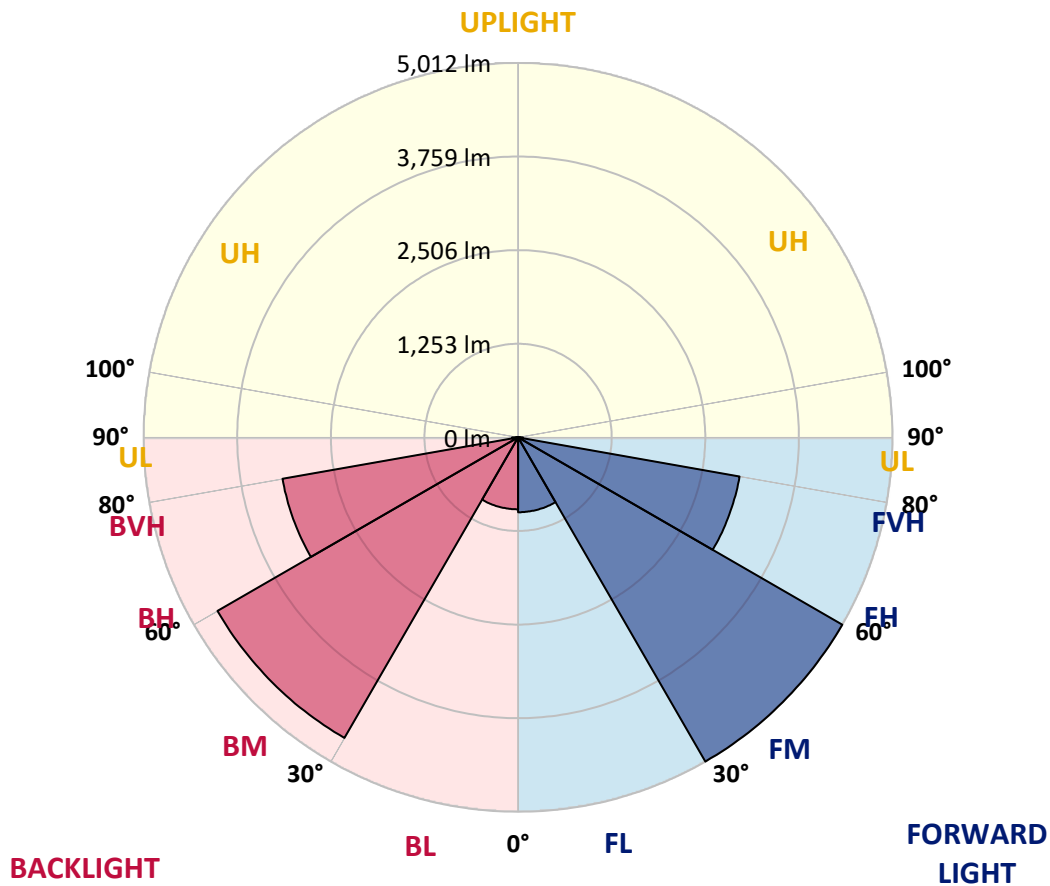
CATALOG NUMBER: GWS-SA3E-830-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.7	5.6			
FM (30°-60°)	5012.3	27.9			
FH (60°-80°)	3011.0	16.7			G2/5000
FVH (80°-90°)	65.2	0.4			G1/100
BL (0°-30°)	963.7	5.4	B2/1000		
BM (30°-60°)	4647.1	25.8	B3/5000		
BH (60°-80°)	3202.0	17.8	B4/5000		G4/5000
BVH (80°-90°)	79.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





REPORT NUMBER: P635993
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0
2.5°	1783.4	1785.9	1789.7	1797.2	1804.7	1816.0	1827.2	1826.0	1831.0	1834.7	1838.5
5°	1773.4	1775.9	1782.1	1792.2	1803.4	1822.2	1846.0	1856.0	1863.6	1877.3	1889.9
7.5°	1794.7	1799.7	1808.4	1822.2	1839.8	1863.6	1896.1	1913.6	1924.9	1950.0	1971.3
10°	1823.5	1829.7	1847.3	1873.6	1899.9	1936.2	1977.5	2003.8	2011.3	2043.9	2084.0
12.5°	1851.0	1858.5	1887.3	1934.9	1982.5	2031.4	2080.2	2112.8	2115.3	2159.1	2204.2
15°	1894.9	1901.1	1939.9	2001.3	2074.0	2141.6	2201.7	2224.2	2234.3	2265.6	2321.9
17.5°	1991.3	1998.8	2048.9	2115.3	2191.7	2263.1	2323.2	2342.0	2342.0	2368.3	2414.6
20°	2095.2	2102.8	2169.1	2254.3	2347.0	2419.6	2465.9	2448.4	2442.2	2449.7	2482.2
22.5°	2211.7	2225.5	2289.4	2388.3	2502.3	2591.2	2615.0	2562.4	2544.8	2527.3	2534.8
25°	2360.7	2377.0	2439.6	2544.8	2656.3	2750.2	2764.0	2682.6	2672.6	2611.2	2588.7
27.5°	2532.3	2544.8	2622.5	2726.4	2830.4	2909.3	2924.3	2824.1	2790.3	2705.2	2652.6
30°	2754.0	2765.3	2832.9	2935.6	3025.8	3080.9	3099.7	2961.9	2935.6	2805.3	2723.9
32.5°	2995.7	3000.7	3069.6	3168.5	3248.7	3301.3	3275.0	3114.7	3075.9	2929.3	2817.9
35°	3272.5	3272.5	3361.4	3441.6	3505.4	3520.5	3470.4	3287.5	3242.4	3083.4	2944.4
37.5°	3544.3	3551.8	3634.4	3729.6	3786.0	3783.5	3692.0	3491.7	3440.3	3267.5	3113.4
40°	3838.6	3854.8	3937.5	4044.0	4097.8	4090.3	3950.0	3727.1	3674.5	3470.4	3320.1
42.5°	4109.1	4135.4	4231.8	4340.8	4399.6	4394.6	4248.1	3997.6	3946.3	3715.8	3565.5
45°	4324.5	4352.0	4472.3	4623.8	4717.7	4709.0	4561.2	4278.2	4215.5	3973.8	3808.5
47.5°	4513.6	4542.4	4676.4	4836.7	4985.8	5000.8	4865.5	4561.2	4494.8	4250.6	4064.0
50°	4658.9	4672.7	4822.9	4998.3	5171.1	5255.0	5137.3	4845.5	4765.3	4523.6	4313.2
52.5°	4647.6	4666.4	4851.7	5089.7	5321.4	5459.2	5377.7	5113.5	5035.8	4772.8	4567.5
55°	4418.4	4437.2	4657.6	5004.5	5405.3	5608.2	5599.4	5369.0	5312.6	5027.1	4831.7
57.5°	4084.0	4125.4	4344.5	4719.0	5295.1	5727.2	5762.2	5601.9	5543.1	5276.3	5093.5
60°	3485.4	3540.5	3793.5	4279.4	4941.9	5687.1	5936.3	5798.5	5762.2	5508.0	5330.2
62.5°	2532.3	2572.4	2909.3	3546.8	4418.4	5401.5	6082.8	6001.4	5973.9	5715.9	5544.3
65°	1516.6	1608.1	1878.6	2508.5	3564.3	4863.0	6002.7	6266.9	6238.1	5930.1	5727.2
67.5°	767.7	809.0	915.5	1360.1	2397.1	4023.9	5600.7	6432.3	6467.3	6112.9	5792.3
70°	475.9	487.2	517.2	671.3	1197.3	2643.8	4580.0	6001.4	6173.0	6084.1	5623.2
72.5°	382.0	384.5	389.5	418.3	574.8	1236.1	2895.5	4700.2	5009.5	5682.1	5381.5
75°	316.9	318.1	319.4	328.1	358.2	504.7	1408.9	3229.9	3591.8	4829.2	4989.5
77.5°	254.2	248.0	253.0	256.7	264.3	281.8	485.9	1723.3	2090.2	3169.8	3858.6
80°	165.3	162.8	172.8	176.6	184.1	195.4	259.2	584.9	710.1	1153.4	1227.3
82.5°	88.9	83.9	105.2	101.4	105.2	114.0	152.8	214.2	240.5	348.2	294.3
85°	27.6	27.6	28.8	33.8	41.3	40.1	66.4	105.2	116.5	149.0	110.2
87.5°	5.0	5.0	5.0	5.0	5.0	6.3	13.8	21.3	28.8	51.3	38.8
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-SA3E-830-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0	1821.0
2.5°	1846.0	1834.7	1841.0	1844.8	1843.5	1841.0	1828.5	1826.0	1819.7	1809.7	1807.2
5°	1901.1	1888.6	1889.9	1886.1	1873.6	1857.3	1829.7	1816.0	1804.7	1792.2	1790.9
7.5°	1987.5	1973.8	1970.0	1952.5	1917.4	1879.8	1836.0	1811.0	1792.2	1775.9	1773.4
10°	2097.7	2084.0	2071.4	2030.1	1972.5	1922.4	1864.8	1828.5	1800.9	1780.9	1777.1
12.5°	2220.5	2209.2	2177.9	2117.8	2048.9	1990.0	1931.2	1886.1	1846.0	1816.0	1812.2
15°	2357.0	2331.9	2284.4	2206.7	2141.6	2094.0	2022.6	1961.2	1897.4	1857.3	1848.5
17.5°	2452.2	2430.9	2374.5	2299.4	2248.0	2206.7	2122.8	2035.1	1948.7	1889.9	1877.3
20°	2519.8	2497.3	2433.4	2378.3	2362.0	2326.9	2229.2	2127.8	2027.6	1955.0	1938.7
22.5°	2568.6	2544.8	2479.7	2452.2	2474.7	2468.5	2373.3	2258.1	2139.1	2052.7	2032.6
25°	2615.0	2592.4	2534.8	2544.8	2605.0	2623.7	2521.1	2387.0	2251.8	2150.3	2126.6
27.5°	2658.8	2630.0	2603.7	2658.8	2744.0	2779.0	2670.1	2518.5	2372.0	2268.1	2249.3
30°	2726.4	2692.6	2688.9	2769.0	2904.3	2934.3	2814.1	2662.6	2517.3	2412.1	2388.3
32.5°	2811.6	2780.3	2782.8	2903.0	3059.6	3084.6	2981.9	2840.4	2695.1	2589.9	2557.4
35°	2926.8	2888.0	2909.3	3057.1	3214.9	3261.2	3178.6	3060.8	2919.3	2811.6	2775.3
37.5°	3085.9	3029.5	3073.4	3228.7	3387.7	3456.6	3392.7	3305.0	3164.8	3055.8	3022.0
40°	3288.8	3242.4	3260.0	3431.5	3595.6	3678.3	3638.2	3551.8	3412.8	3298.8	3260.0
42.5°	3529.2	3482.9	3476.6	3659.5	3823.5	3948.8	3910.0	3831.1	3687.0	3556.8	3519.2
45°	3764.7	3722.1	3730.9	3917.5	4101.6	4238.1	4199.3	4106.6	3950.0	3799.7	3769.7
47.5°	4010.1	3975.1	3982.6	4180.5	4383.4	4519.9	4471.0	4358.3	4175.5	4015.2	3978.8
50°	4261.9	4221.8	4233.1	4441.0	4660.1	4789.1	4714.0	4547.4	4345.8	4189.2	4157.9
52.5°	4512.3	4464.8	4493.6	4690.2	4916.9	5019.6	4880.6	4678.9	4483.5	4328.2	4293.2
55°	4800.4	4750.3	4719.0	4929.4	5153.6	5196.2	5005.8	4770.3	4538.6	4362.1	4340.8
57.5°	5063.4	5020.8	4962.0	5172.4	5337.7	5306.4	5102.2	4745.3	4404.6	4178.0	4147.9
60°	5298.8	5262.5	5211.2	5390.3	5465.4	5395.3	5024.6	4448.5	4074.0	3837.3	3823.5
62.5°	5515.5	5476.7	5429.1	5581.9	5571.9	5409.1	4671.4	3992.6	3491.7	3237.4	3214.9
65°	5687.1	5652.0	5638.2	5758.5	5742.2	5139.8	4121.6	3246.2	2551.1	2264.3	2255.5
67.5°	5735.9	5722.2	5796.0	6000.2	5745.9	4598.8	3232.4	2152.9	1370.1	1098.3	1082.1
70°	5553.1	5551.8	5763.5	6055.3	5225.0	3512.9	1907.4	970.6	688.8	611.2	601.1
72.5°	5315.1	5311.4	5479.2	5223.7	3874.9	1922.4	802.8	519.7	430.8	409.5	409.5
75°	4924.4	4914.4	5040.9	3973.8	2179.2	723.9	425.8	356.9	338.1	334.4	334.4
77.5°	4013.9	3930.0	3730.9	2455.9	760.2	355.7	281.8	280.5	269.3	268.0	268.0
80°	1320.0	1320.0	1534.2	936.8	335.6	219.2	199.1	209.1	197.9	190.4	189.1
82.5°	215.4	296.8	422.1	268.0	181.6	136.5	122.7	130.2	136.5	109.0	109.0
85°	85.2	111.5	162.8	125.2	83.9	55.1	58.9	65.1	57.6	50.1	48.8
87.5°	32.6	40.1	57.6	30.1	17.5	10.0	6.3	6.3	5.0	5.0	5.0
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			

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)