

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: P639487

Luminaire Tested: GWS-SA5B-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-830-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12038.7 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

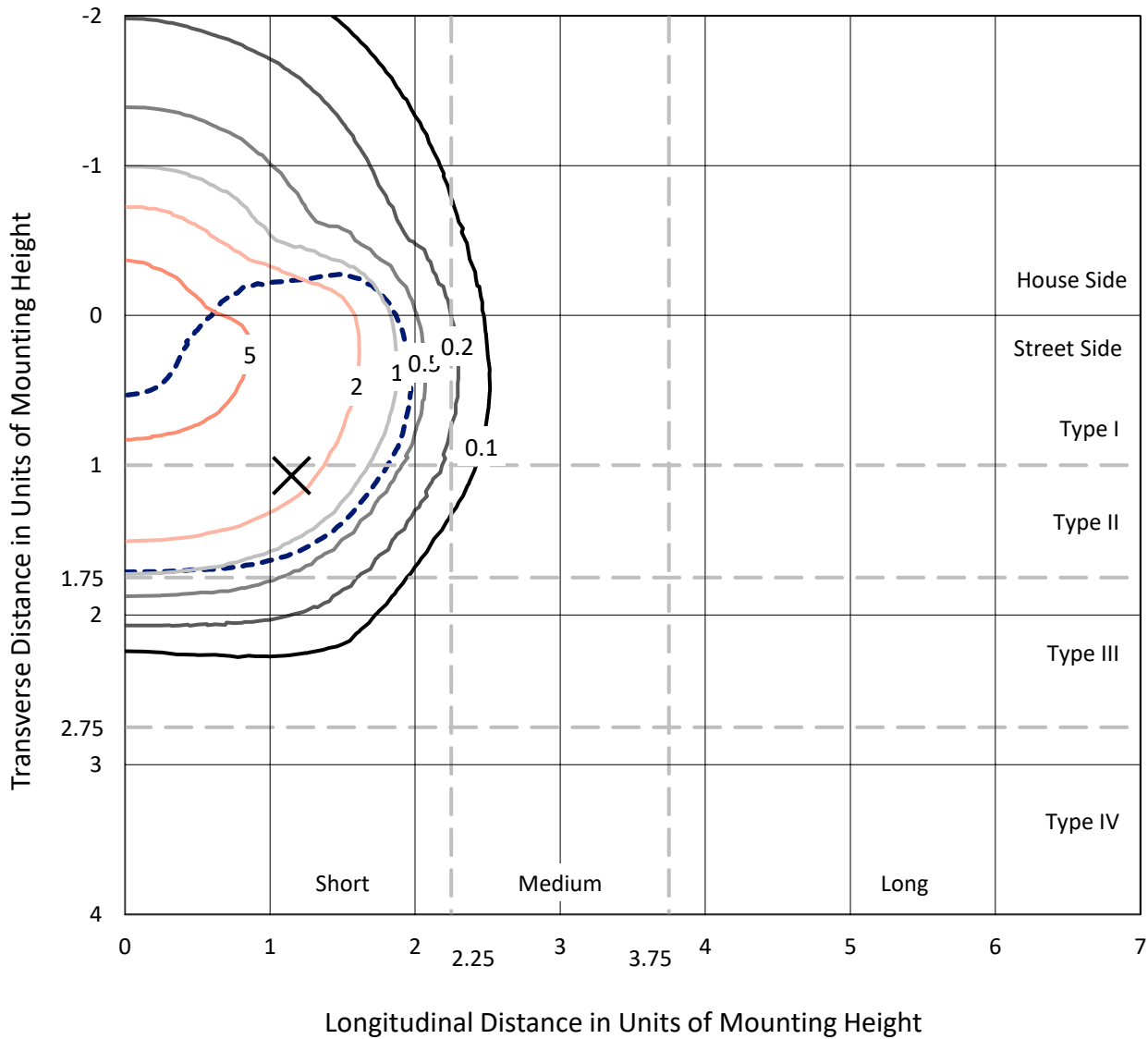
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

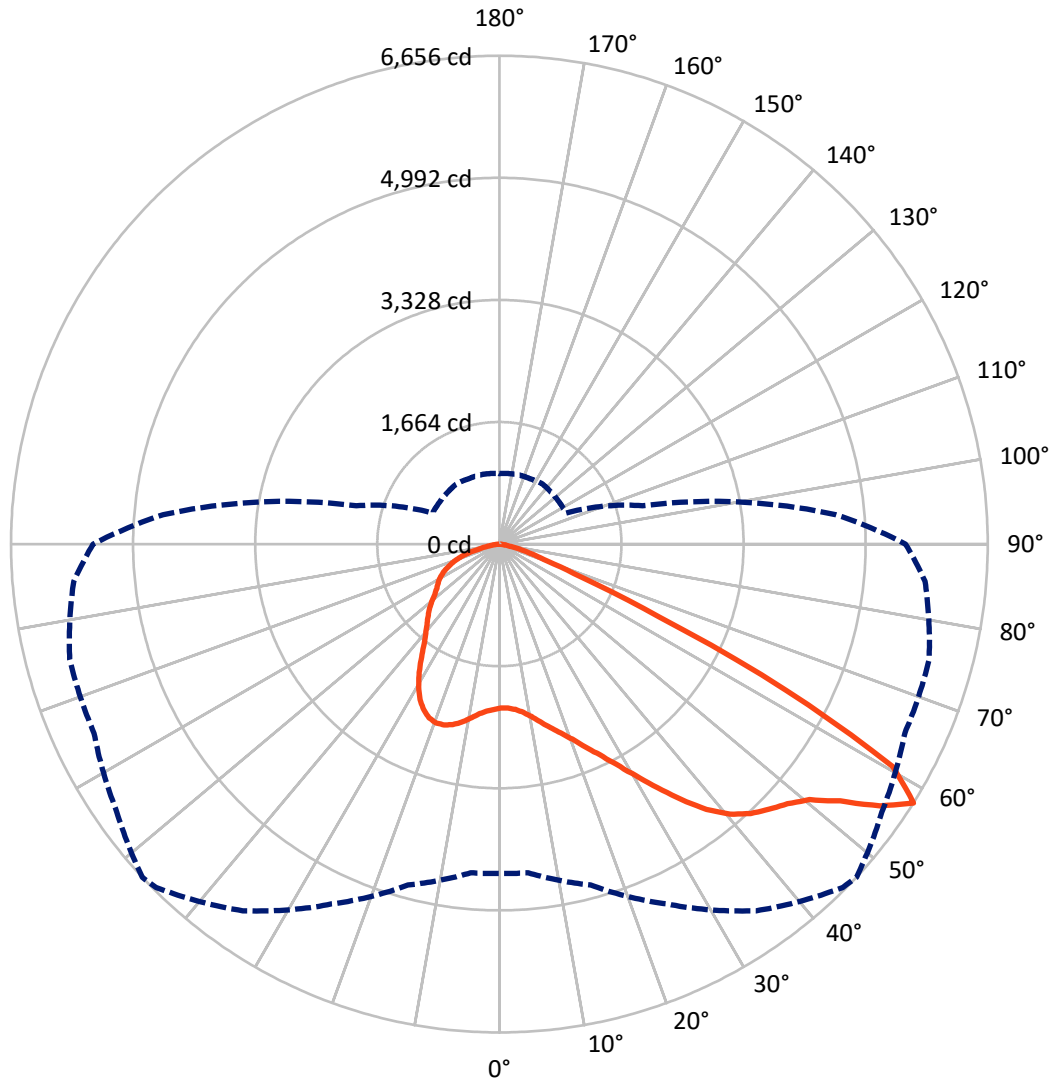
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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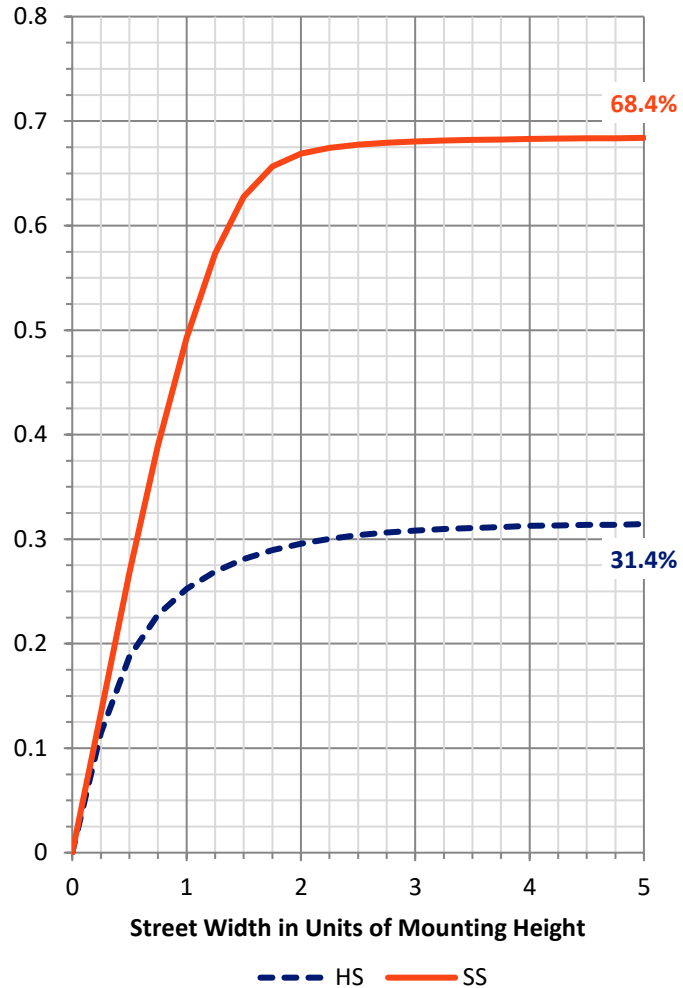
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3810.2	0.0	3810.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8228.5	0.0	8228.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	12038.7	0.0	12038.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.2	1.8
10°-20°	724.3	6.0
20°-30°	1304.1	10.8
30°-40°	1969.7	16.4
40°-50°	2652.5	22.0
50°-60°	3187.3	26.5
60°-70°	1552.3	12.9
70°-80°	382.4	3.2
80°-90°	46.0	0.4
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°	12038.7	100.0
0°-180°	12038.7	100.0

Coefficient of Utilization



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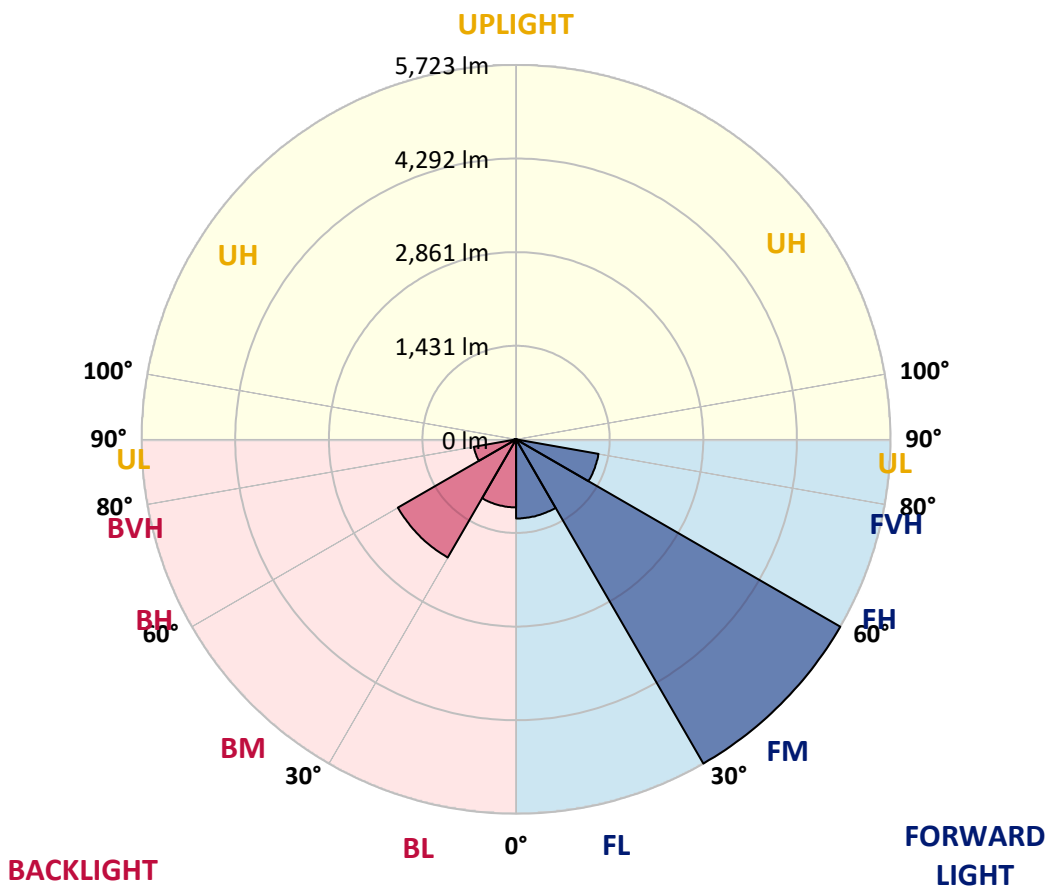
CATALOG NUMBER: GWS-SA5B-830-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1209.2	10.0			
FM (30°-60°)	5722.6	47.5			
FH (60°-80°)	1279.3	10.6			G1/1800
FVH (80°-90°)	17.3	0.1			G1/100
BL (0°-30°)	1039.4	8.6	B3/2500		
BM (30°-60°)	2086.8	17.3	B2/2500		
BH (60°-80°)	655.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	28.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6
2.5°	2228.5	2227.5	2227.5	2233.6	2233.6	2235.6	2238.7	2241.7	2242.7	2237.6	2226.5
5°	2252.8	2252.8	2252.8	2257.9	2257.9	2259.9	2263.9	2265.0	2263.9	2255.9	2244.7
7.5°	2291.2	2291.2	2292.3	2298.3	2303.4	2306.4	2313.5	2312.5	2309.4	2296.3	2282.1
10°	2353.9	2357.0	2360.0	2367.1	2377.2	2384.3	2389.3	2389.3	2385.3	2365.1	2346.9
12.5°	2442.9	2447.0	2450.0	2456.1	2464.1	2476.3	2487.4	2487.4	2482.3	2457.1	2429.8
15°	2547.1	2551.1	2550.1	2552.1	2567.3	2584.5	2593.6	2599.6	2601.7	2566.3	2523.8
17.5°	2666.4	2670.4	2666.4	2660.3	2662.3	2689.6	2705.8	2728.1	2741.2	2693.7	2625.9
20°	2774.6	2770.5	2770.5	2774.6	2780.6	2814.0	2838.3	2874.7	2890.8	2833.2	2728.1
22.5°	2888.8	2897.9	2893.9	2893.9	2918.1	2973.8	3003.1	3050.6	3067.8	2993.0	2851.4
25°	3036.4	3044.5	3042.5	3044.5	3072.9	3151.7	3181.0	3269.0	3286.2	3179.0	2987.9
27.5°	3198.2	3211.4	3217.4	3215.4	3260.9	3364.1	3400.5	3522.8	3554.2	3387.3	3133.5
30°	3408.5	3422.7	3427.8	3425.7	3479.3	3619.9	3661.3	3800.9	3845.4	3634.0	3318.6
32.5°	3652.2	3666.4	3681.6	3687.6	3756.4	3900.0	3959.6	4104.2	4167.9	3919.2	3542.0
35°	3893.9	3906.0	3935.4	3982.9	4076.9	4223.5	4276.1	4418.7	4480.4	4215.4	3812.0
37.5°	4160.8	4168.9	4194.2	4259.9	4395.4	4535.0	4587.5	4724.0	4731.1	4501.6	4117.4
40°	4453.1	4453.1	4448.0	4512.7	4654.3	4794.8	4840.3	4919.2	4877.7	4722.0	4414.6
42.5°	4700.8	4696.7	4700.8	4761.5	4866.6	4980.9	5020.3	5005.1	4952.6	4890.9	4683.6
45°	4924.2	4927.3	4963.7	5010.2	5064.8	5132.5	5155.8	5069.8	5022.3	5026.4	4899.0
47.5°	5075.9	5078.9	5163.9	5241.7	5275.1	5296.3	5286.2	5166.9	5142.7	5188.2	5064.8
50°	5096.1	5112.3	5258.9	5418.7	5501.6	5504.6	5476.3	5330.7	5323.6	5375.2	5153.8
52.5°	5100.2	5116.4	5299.4	5587.6	5802.9	5848.4	5816.1	5664.4	5590.6	5539.0	5263.0
55°	5085.0	5103.2	5305.4	5700.8	6113.3	6295.3	6298.4	6084.0	5848.4	5814.0	5574.4
57.5°	4489.5	4496.5	4810.0	5412.6	6101.2	6616.9	6656.3	6365.1	6096.2	6063.8	5824.2
60°	3127.5	3155.8	3496.5	4292.3	5125.5	6034.5	6161.9	6076.9	5897.0	5661.4	4997.0
62.5°	1566.3	1590.5	1932.3	2684.6	3534.9	4252.8	4389.4	4479.3	4521.8	4269.0	3402.5
65°	674.4	692.6	905.0	1402.4	2001.0	2347.9	2395.4	2503.6	2768.5	2470.2	1833.2
67.5°	451.0	463.1	571.3	855.4	1179.0	1201.2	1194.2	1217.4	1275.0	1052.6	828.1
70°	345.8	355.9	428.7	626.9	847.3	725.0	686.6	622.9	676.5	689.6	671.4
72.5°	250.8	258.9	313.5	427.7	530.8	463.1	457.0	489.4	562.2	582.4	571.3
75°	161.8	165.8	199.2	234.6	274.0	297.3	309.4	368.1	441.9	457.0	443.9
77.5°	108.2	111.2	130.4	150.7	155.7	156.7	160.8	187.1	237.6	265.9	262.9
80°	56.6	56.6	63.7	63.7	72.8	87.0	91.0	108.2	131.4	145.6	146.6
82.5°	22.2	23.3	27.3	30.3	36.4	44.5	47.5	56.6	68.8	78.9	88.0
85°	9.1	10.1	11.1	13.1	16.2	20.2	21.2	24.3	32.4	40.4	45.5
87.5°	0.0	0.0	1.0	1.0	2.0	3.0	3.0	4.0	5.1	9.1	12.1
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6	2232.6
2.5°	2239.7	2226.5	2239.7	2243.7	2254.8	2258.9	2251.8	2250.8	2250.8	2240.7	2237.6
5°	2254.8	2242.7	2255.9	2261.9	2278.1	2288.2	2290.2	2298.3	2303.4	2299.3	2298.3
7.5°	2292.3	2277.1	2291.2	2300.3	2321.6	2337.8	2344.8	2363.0	2376.2	2374.2	2373.1
10°	2358.0	2337.8	2353.9	2369.1	2392.4	2411.6	2412.6	2422.7	2435.8	2431.8	2429.8
12.5°	2433.8	2414.6	2432.8	2448.0	2475.3	2483.4	2470.2	2466.2	2468.2	2463.1	2459.1
15°	2526.8	2499.5	2515.7	2532.9	2548.1	2539.0	2510.7	2499.5	2498.5	2491.4	2487.4
17.5°	2619.9	2585.5	2597.6	2606.7	2599.6	2571.3	2535.9	2516.7	2507.6	2493.5	2489.4
20°	2711.9	2668.4	2666.4	2659.3	2626.9	2575.4	2527.8	2489.4	2466.2	2447.0	2439.9
22.5°	2817.0	2756.4	2726.0	2693.7	2622.9	2539.0	2467.2	2412.6	2375.2	2350.9	2342.8
25°	2930.3	2844.3	2781.6	2716.9	2582.4	2461.1	2361.0	2286.2	2241.7	2215.4	2206.3
27.5°	3042.5	2924.2	2830.2	2720.0	2501.6	2348.9	2214.4	2113.3	2068.8	2047.6	2040.5
30°	3194.2	3030.4	2887.8	2680.5	2395.4	2193.2	2025.3	1923.2	1893.9	1878.7	1872.6
32.5°	3369.1	3164.9	2964.7	2597.6	2259.9	2011.2	1834.2	1763.4	1743.2	1713.9	1712.9
35°	3599.7	3357.0	3037.5	2475.3	2089.0	1816.0	1687.6	1637.0	1600.6	1554.1	1550.1
37.5°	3868.6	3596.6	3076.9	2319.6	1889.8	1655.2	1578.4	1521.8	1463.1	1401.4	1393.3
40°	4146.7	3876.7	3079.9	2135.5	1694.7	1549.1	1484.4	1410.5	1337.7	1269.0	1259.9
42.5°	4438.9	4137.6	3026.3	1923.2	1534.9	1457.1	1391.3	1298.3	1216.4	1169.9	1164.8
45°	4699.8	4347.9	2905.0	1699.7	1416.6	1380.2	1296.3	1196.2	1152.7	1119.3	1112.3
47.5°	4905.0	4487.4	2741.2	1499.5	1320.5	1301.3	1192.1	1140.6	1107.2	1076.9	1069.8
50°	5006.1	4518.8	2527.8	1336.7	1231.6	1208.3	1133.5	1094.1	1071.8	1047.5	1041.5
52.5°	5131.5	4554.2	2343.8	1200.2	1144.6	1113.3	1085.0	1053.6	1037.4	1022.3	1017.2
55°	5419.7	4687.6	2246.8	1091.0	1061.7	1047.5	1043.5	1017.2	1012.1	1002.0	992.9
57.5°	5537.0	4601.7	2017.2	1002.0	996.0	998.0	1008.1	983.8	978.8	966.6	960.6
60°	4453.1	3478.3	1366.0	925.2	941.4	954.5	964.6	940.4	933.3	931.3	923.2
62.5°	2853.4	2139.6	953.5	853.4	877.7	893.8	899.9	876.7	871.6	887.8	888.8
65°	1485.4	1165.8	773.5	776.6	796.8	821.0	833.2	825.1	823.1	840.3	841.3
67.5°	758.4	712.9	674.4	685.6	701.7	733.1	761.4	796.8	808.9	810.9	811.9
70°	646.1	625.9	606.7	613.8	631.0	648.1	675.4	692.6	672.4	667.4	665.3
72.5°	550.1	534.9	525.8	533.9	543.0	539.9	531.9	539.9	543.0	544.0	545.0
75°	427.7	416.6	409.5	410.5	410.5	399.4	384.2	375.1	365.0	356.9	356.9
77.5°	261.9	263.9	271.0	270.0	269.0	264.9	249.8	241.7	217.4	210.3	210.3
80°	149.6	152.7	159.8	161.8	161.8	156.7	141.6	132.5	121.3	116.3	115.3
82.5°	91.0	95.0	99.1	101.1	102.1	96.1	82.9	75.8	69.8	64.7	64.7
85°	47.5	49.5	53.6	54.6	51.6	45.5	38.4	35.4	29.3	28.3	28.3
87.5°	13.1	14.2	16.2	13.1	12.1	9.1	5.1	4.0	2.0	1.0	1.0
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)