

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: P633025

Luminaire Tested: GWS-SA2D-830-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7900 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

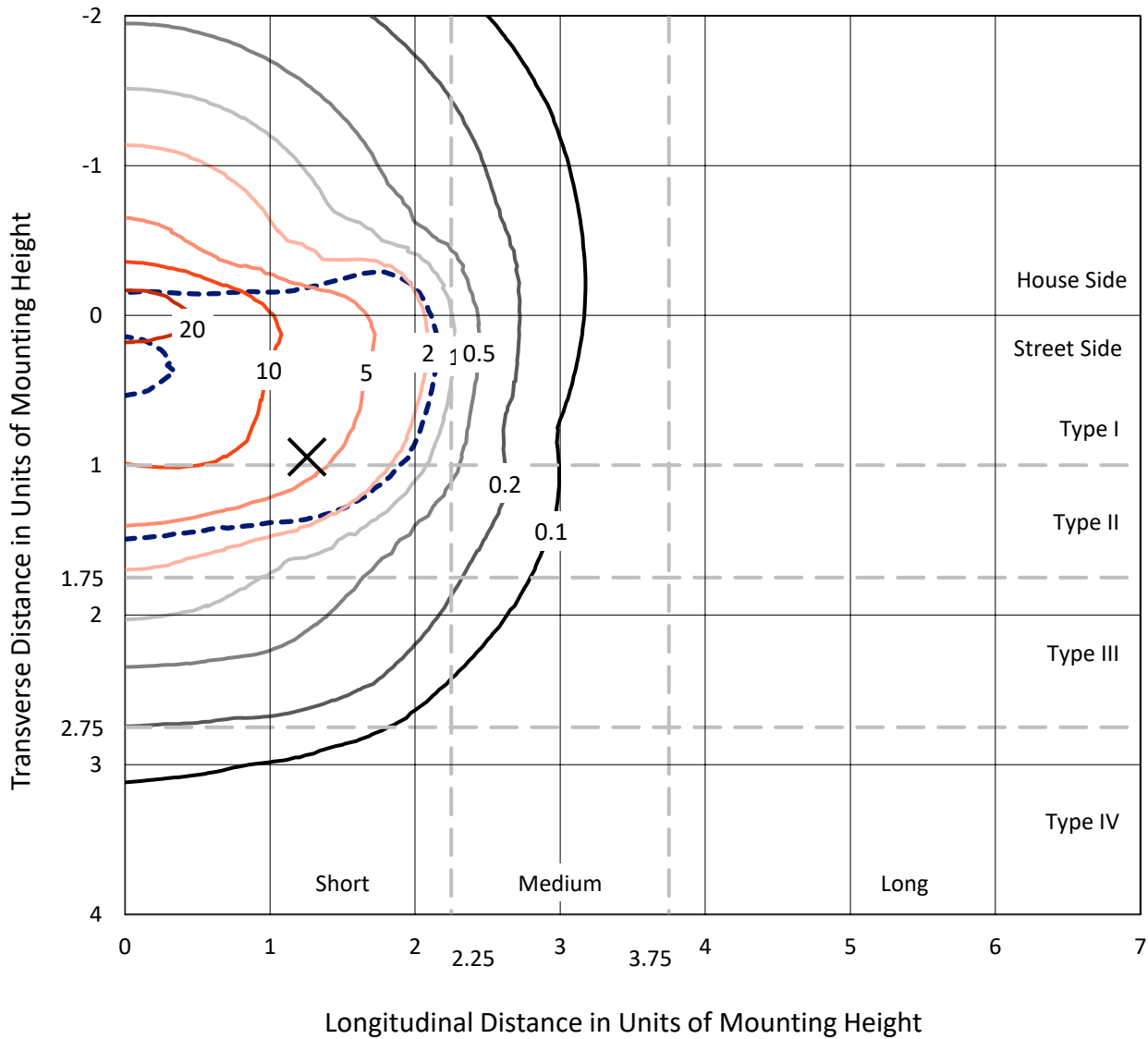
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633025
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Iso-Footcandle Lines of Horizontal Illumination

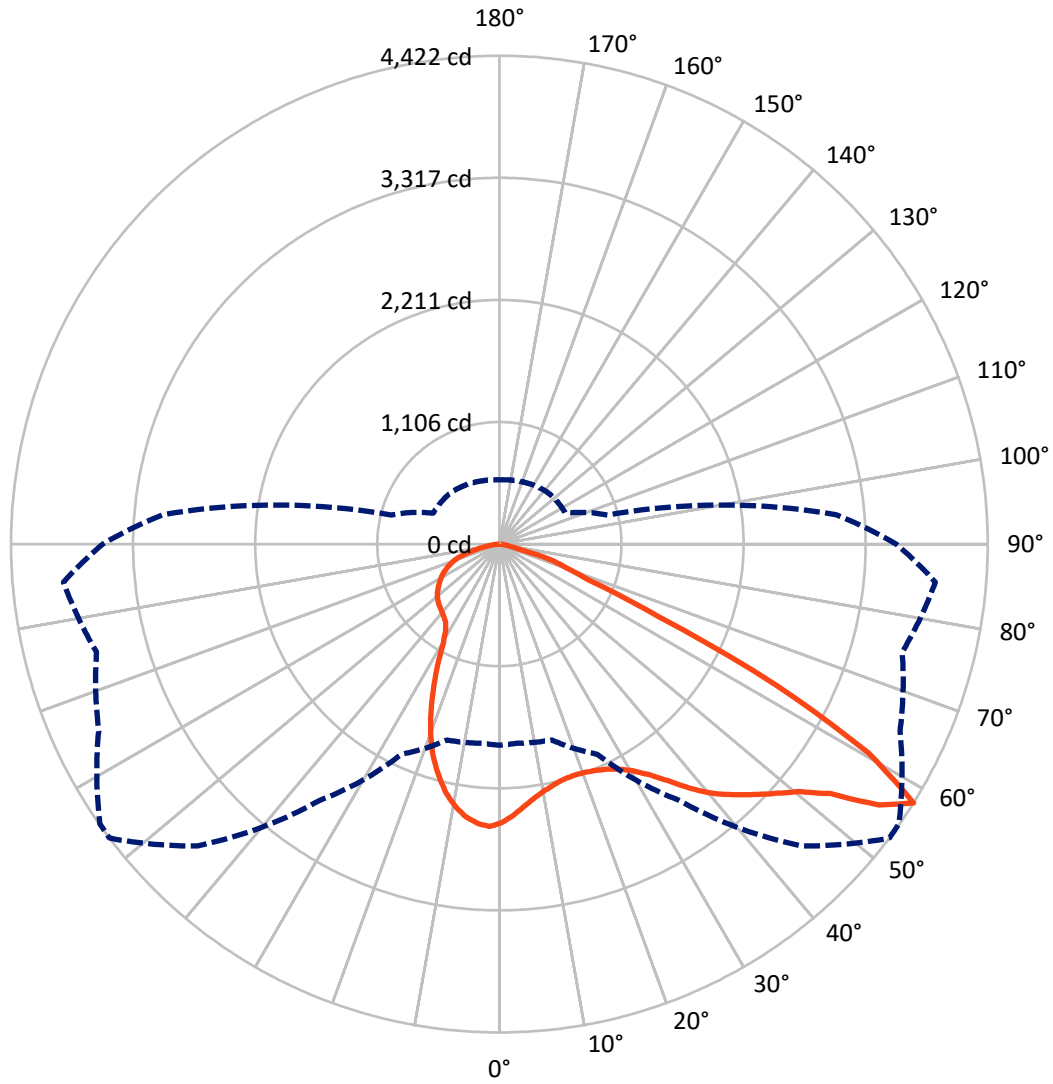
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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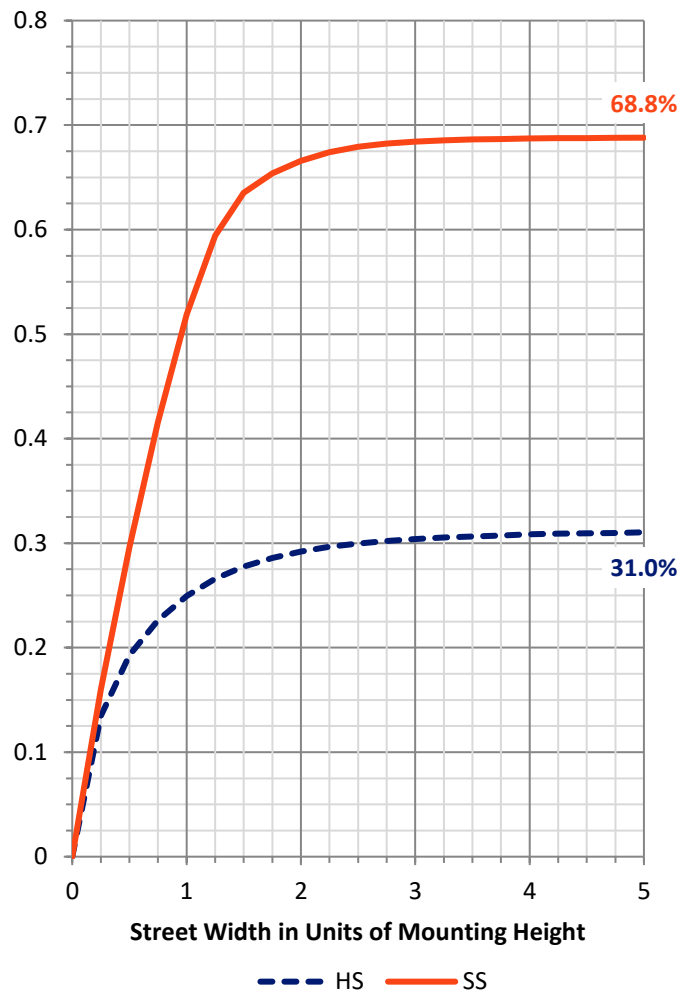
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2470.0	0.0	2470.0
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	5430.0	0.0	5430.0
	% Fixture	68.7	0.0	68.7
Total	Lumens	7900.0	0.0	7900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	2.9
10°-20°	598.5	7.6
20°-30°	881.8	11.2
30°-40°	1234.3	15.6
40°-50°	1622.6	20.5
50°-60°	1902.5	24.1
60°-70°	1120.8	14.2
70°-80°	278.8	3.5
80°-90°	32.7	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°	7900.0	100.0
0°-180°	7900.0	100.0

Coefficient of Utilization



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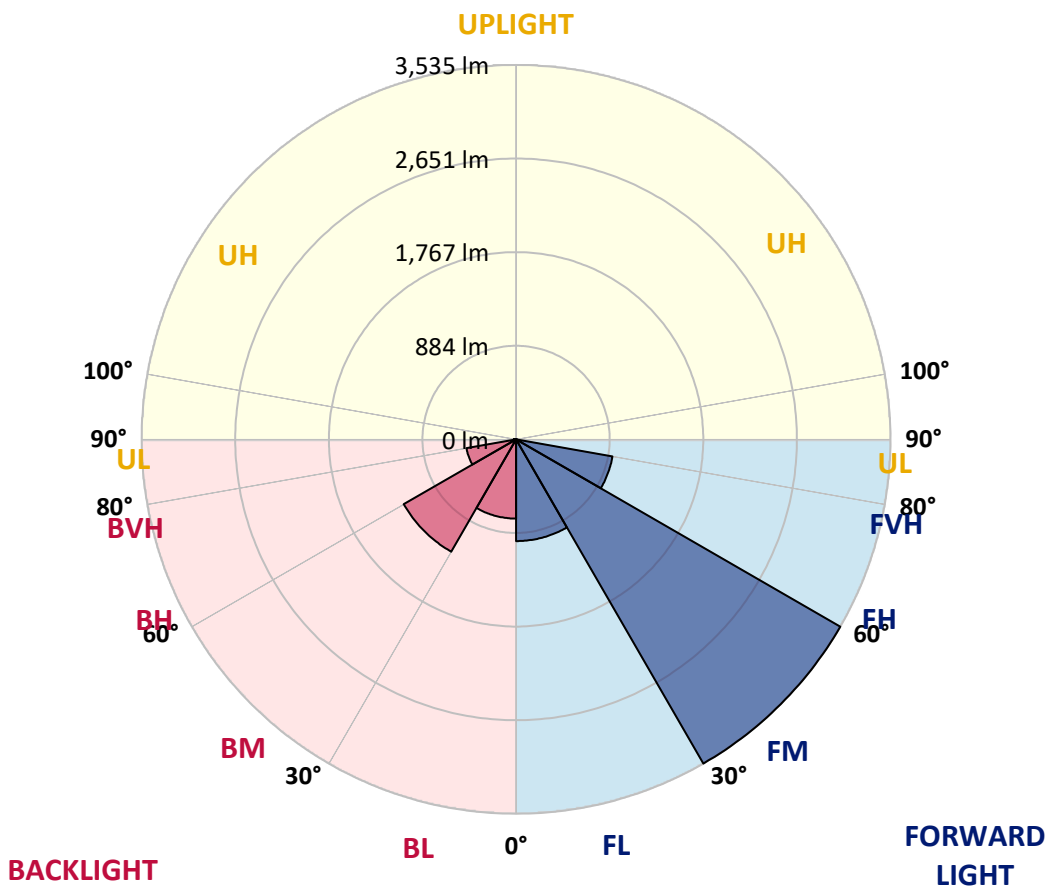
CATALOG NUMBER: GWS-SA2D-830-U-SL2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	960.5	12.2			
FM (30°-60°)	3534.5	44.7			
FH (60°-80°)	924.0	11.7			G1/1800
FVH (80°-90°)	10.9	0.1			G1/100
BL (0°-30°)	747.9	9.5	B2/1000		
BM (30°-60°)	1224.8	15.5	B2/2500		
BH (60°-80°)	475.6	6.0	B1/500		G1/500
BVH (80°-90°)	21.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P633025

CATALOG NUMBER: GWS-SA2D-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7
2.5°	2377.7	2384.4	2385.7	2406.3	2407.7	2437.6	2457.5	2453.5	2474.1	2499.4	2519.4
5°	2264.0	2264.7	2271.3	2295.9	2309.2	2348.5	2381.7	2381.7	2421.6	2473.5	2518.0
7.5°	2170.3	2169.6	2175.6	2202.9	2224.8	2272.0	2317.2	2322.5	2378.4	2454.2	2526.7
10°	2083.2	2087.8	2094.5	2127.7	2155.7	2214.2	2268.0	2276.7	2347.1	2440.9	2538.6
12.5°	2027.3	2028.0	2038.0	2075.2	2111.1	2173.6	2230.1	2240.8	2321.9	2428.3	2547.3
15°	1991.4	1992.1	2002.7	2043.9	2085.8	2149.0	2206.8	2218.8	2307.3	2426.3	2563.9
17.5°	1975.5	1974.8	1984.8	2026.0	2071.9	2137.7	2199.5	2214.2	2313.9	2441.6	2593.2
20°	1975.5	1976.1	1981.4	2018.7	2065.2	2135.0	2206.8	2224.8	2339.8	2476.1	2638.4
22.5°	2003.4	2006.0	2008.7	2034.0	2070.5	2139.0	2226.1	2250.1	2395.7	2534.0	2697.6
25°	2057.9	2058.6	2061.2	2081.8	2098.5	2150.3	2258.0	2294.0	2482.8	2618.4	2772.0
27.5°	2131.0	2140.4	2143.0	2156.3	2156.3	2178.3	2307.9	2359.8	2600.5	2740.1	2867.1
30°	2233.4	2236.8	2241.4	2256.1	2240.1	2230.8	2381.1	2447.5	2736.8	2887.1	2981.5
32.5°	2323.2	2330.5	2355.8	2379.7	2351.1	2321.9	2488.8	2567.2	2867.8	3040.0	3103.2
35°	2399.7	2417.6	2466.2	2519.4	2499.4	2470.2	2631.7	2713.5	2975.5	3149.7	3210.9
37.5°	2492.1	2506.1	2572.6	2659.0	2676.9	2663.0	2805.9	2864.4	3047.3	3177.6	3269.4
40°	2585.9	2607.1	2692.9	2812.6	2881.1	2891.0	2966.8	3006.1	3071.9	3123.1	3258.1
42.5°	2681.6	2718.2	2835.9	2975.5	3097.2	3119.8	3102.5	3119.1	3063.9	3048.0	3205.6
45°	2798.6	2841.8	2974.8	3153.0	3313.3	3348.5	3235.5	3220.2	3062.6	3019.4	3173.0
47.5°	2936.9	2980.1	3107.1	3314.6	3519.4	3545.3	3371.8	3343.9	3109.1	3063.3	3216.9
50°	3059.3	3089.2	3202.9	3434.9	3711.5	3726.8	3522.0	3488.1	3224.8	3184.9	3353.8
52.5°	2934.9	2931.6	3051.3	3337.2	3811.3	3995.5	3753.4	3720.9	3448.2	3387.1	3565.9
55°	2490.1	2452.2	2559.3	2840.5	3532.7	4234.2	4168.3	4103.2	3746.1	3590.5	3764.7
57.5°	1820.5	1809.9	1835.8	2099.8	2829.9	3864.5	4422.3	4416.4	4003.4	3776.7	3962.9
60°	1423.6	1407.6	1338.5	1345.8	1928.9	3018.7	3837.9	4014.1	4163.0	3888.4	4101.2
62.5°	1264.0	1252.0	1216.1	1117.1	1149.0	2024.0	2813.3	2974.8	3637.7	3434.3	3522.7
65°	1046.6	1043.2	1073.2	1069.2	962.8	1117.7	1587.8	1750.7	2287.3	2315.9	2287.3
67.5°	760.7	754.7	830.5	980.1	926.9	843.8	885.0	941.5	1172.9	1053.2	948.2
70°	494.7	486.1	529.9	708.1	829.8	735.4	637.7	628.3	645.0	400.9	433.5
72.5°	331.8	321.8	321.2	389.6	501.3	495.4	494.0	489.4	436.8	316.5	351.1
75°	184.8	176.9	174.9	168.2	179.5	182.9	194.8	201.5	218.1	240.0	266.0
77.5°	31.3	30.6	38.6	49.2	67.8	87.1	107.7	113.7	140.3	166.2	182.9
80°	17.3	18.0	23.3	28.6	37.9	51.9	66.5	70.5	86.4	100.4	113.7
82.5°	9.3	9.3	12.0	15.3	20.6	27.3	35.9	39.2	49.9	58.5	67.8
85°	3.3	3.3	4.7	6.0	8.6	11.3	14.0	16.0	21.9	29.9	33.9
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	2.7	2.7	3.3	6.0	8.6
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°	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7
2.5°	2536.0	2518.0	2542.6	2553.9	2557.9	2560.6	2543.3	2531.3	2527.3	2514.7	2507.4
5°	2545.3	2533.3	2556.6	2556.6	2540.0	2522.7	2487.4	2462.8	2445.6	2424.9	2421.6
7.5°	2561.2	2552.6	2565.2	2539.3	2497.4	2450.9	2389.7	2341.8	2303.3	2278.0	2278.7
10°	2582.5	2571.9	2561.9	2504.1	2427.6	2341.8	2248.1	2178.3	2114.4	2085.2	2069.2
12.5°	2596.5	2581.2	2539.3	2443.6	2331.2	2216.2	2083.8	1980.1	1887.7	1845.8	1842.5
15°	2613.8	2585.9	2502.1	2365.1	2208.8	2051.9	1881.7	1737.4	1612.4	1547.3	1543.9
17.5°	2636.4	2590.5	2457.5	2275.3	2079.9	1848.5	1634.4	1452.8	1319.9	1269.3	1278.0
20°	2668.3	2595.8	2407.0	2175.6	1919.6	1617.1	1350.4	1183.5	1132.3	1129.0	1122.4
22.5°	2704.2	2599.1	2351.1	2063.9	1725.5	1370.4	1115.7	1044.6	1043.9	1060.5	1064.5
25°	2744.8	2601.8	2288.0	1933.6	1515.3	1124.4	986.7	965.5	982.1	1013.3	1017.3
27.5°	2796.6	2607.1	2211.5	1790.6	1291.9	971.4	915.6	910.3	930.2	959.5	958.1
30°	2873.1	2626.4	2130.4	1626.4	1062.5	899.0	872.4	873.0	881.0	895.0	897.0
32.5°	2950.9	2656.3	2051.3	1441.5	930.9	857.7	845.8	844.4	844.4	850.4	851.8
35°	3024.7	2690.2	1965.5	1248.7	867.0	833.8	825.8	821.8	819.8	818.5	816.5
37.5°	3065.9	2706.9	1881.7	1058.5	833.1	817.8	809.9	804.5	797.2	791.9	790.6
40°	3048.0	2687.6	1784.6	916.3	812.5	802.6	793.2	785.9	776.0	771.3	768.6
42.5°	2988.1	2627.7	1678.9	849.1	795.9	785.9	774.6	762.7	756.0	752.0	751.4
45°	2925.0	2555.3	1551.2	809.9	779.9	768.0	754.7	741.4	734.1	732.1	731.4
47.5°	2923.0	2519.4	1415.6	778.6	760.7	748.7	732.1	718.8	710.8	708.1	705.5
50°	3010.7	2555.9	1262.7	751.4	740.7	728.1	709.5	694.8	684.9	681.5	680.9
52.5°	3192.9	2693.6	1125.7	724.1	714.1	699.5	684.2	669.6	657.6	651.6	651.0
55°	3389.7	2868.4	1040.6	696.2	682.9	670.2	656.3	640.3	627.0	617.7	616.4
57.5°	3593.2	3059.3	1014.7	660.9	651.0	642.3	625.7	608.4	593.1	584.5	582.5
60°	3760.8	3223.5	1063.2	623.7	618.4	607.1	591.8	575.2	564.5	557.9	556.5
62.5°	3148.4	2624.4	858.4	583.1	583.1	571.2	553.9	541.9	534.6	529.9	528.6
65°	1998.1	1625.0	585.8	542.6	541.9	525.9	511.3	503.3	500.0	492.7	491.4
67.5°	870.4	742.7	500.7	501.3	498.7	481.4	466.8	460.8	454.1	446.2	445.5
70°	451.5	460.1	448.2	455.5	450.8	430.2	416.2	406.9	393.0	385.0	385.7
72.5°	364.4	373.7	387.0	398.3	388.3	371.7	349.7	338.4	320.5	311.8	312.5
75°	277.9	287.9	300.5	312.5	304.5	283.9	270.0	258.7	238.0	228.1	230.1
77.5°	191.5	196.8	212.1	211.4	208.8	202.8	182.2	168.9	147.6	135.6	137.0
80°	119.0	122.3	129.7	133.0	131.7	123.7	107.1	97.1	84.4	77.1	77.8
82.5°	71.8	73.8	80.5	81.1	80.5	74.5	61.8	54.5	46.5	42.6	42.6
85°	36.6	37.9	41.9	41.9	37.9	31.9	28.6	25.3	20.6	18.6	18.6
87.5°	10.0	10.0	12.6	10.6	8.6	8.0	4.0	3.3	1.3	0.7	0.7
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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

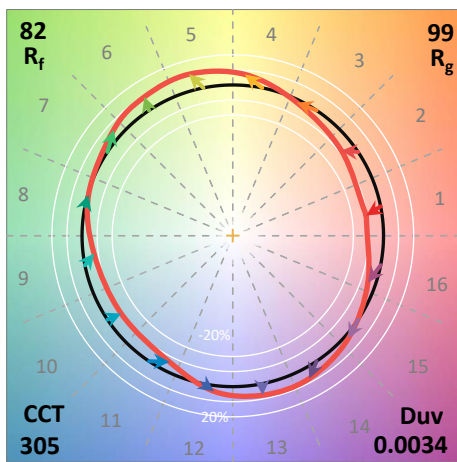
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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