

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: P641943

Luminaire Tested: GWS-SA6B-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-830-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16153.1 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

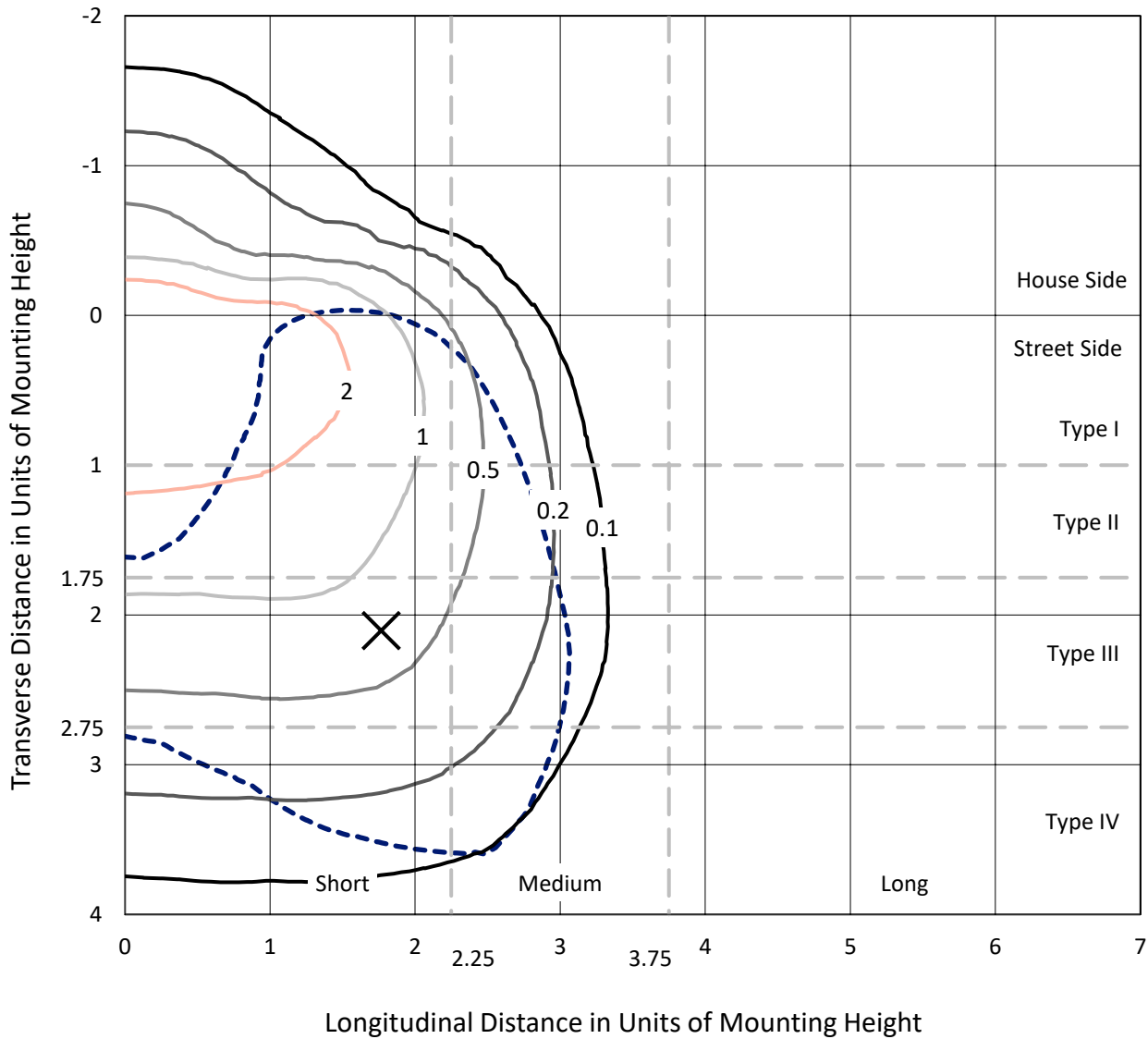
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641943
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Iso-Footcandle Lines of Horizontal Illumination

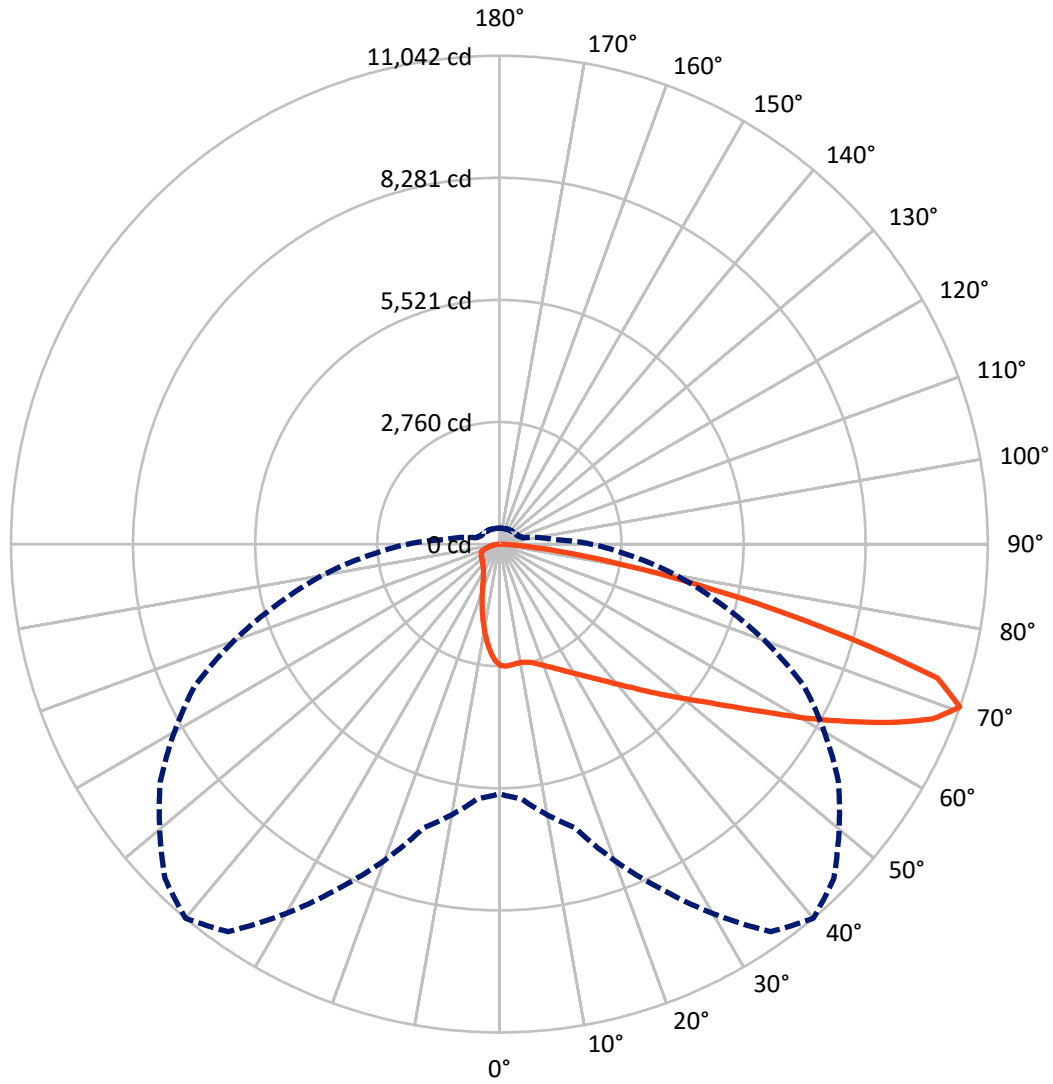
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA6B-830-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2488.0	0.0	2488.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	13665.1	0.0	13665.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	16153.1	0.0	16153.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	1.5
10°-20°	631.6	3.9
20°-30°	991.8	6.1
30°-40°	1491.1	9.2
40°-50°	2301.6	14.2
50°-60°	3418.1	21.2
60°-70°	4308.5	26.7
70°-80°	2491.6	15.4
80°-90°	276.5	1.7
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°	16153.1	100.0
0°-180°	16153.1	100.0

Coefficient of Utilization



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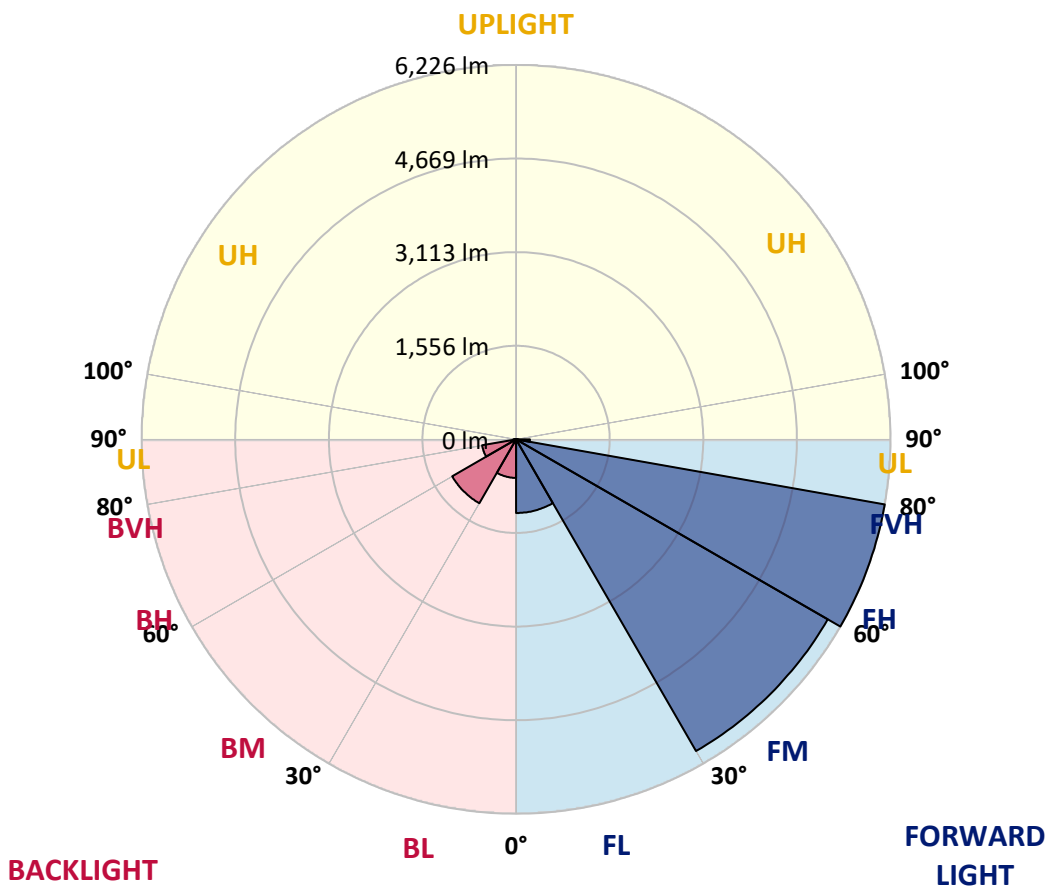
CATALOG NUMBER: GWS-SA6B-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.5	7.6			
FM (30°-60°)	5984.5	37.0			
FH (60°-80°)	6225.8	38.5			G3/7500
FVH (80°-90°)	230.3	1.4			G3/500
BL (0°-30°)	641.2	4.0	B2/1000		
BM (30°-60°)	1226.4	7.6	B2/2500		
BH (60°-80°)	574.2	3.6	B2/1000		G2/1000
BVH (80°-90°)	46.2	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-G3

Type IV Short





REPORT NUMBER: P641943
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0
2.5°	2759.9	2764.7	2768.3	2773.1	2770.7	2763.5	2769.5	2769.5	2756.2	2741.8	2728.5
5°	2763.5	2769.5	2768.3	2767.1	2757.5	2745.4	2745.4	2738.2	2715.3	2692.3	2670.6
7.5°	2756.2	2755.0	2753.8	2750.2	2739.4	2726.1	2723.7	2709.2	2679.1	2647.7	2616.4
10°	2723.7	2722.5	2726.1	2734.5	2732.1	2720.1	2720.1	2706.8	2671.8	2633.3	2592.3
12.5°	2697.2	2697.2	2711.6	2734.5	2743.0	2738.2	2739.4	2729.7	2689.9	2644.1	2595.9
15°	2700.8	2702.0	2733.3	2770.7	2786.4	2782.8	2784.0	2773.1	2728.5	2682.7	2617.6
17.5°	2724.9	2730.9	2785.2	2837.0	2857.5	2852.7	2844.3	2826.2	2775.5	2723.7	2644.1
20°	2775.5	2785.2	2855.1	2920.2	2944.3	2933.5	2919.0	2882.8	2827.4	2770.7	2673.1
22.5°	2875.6	2881.6	2958.8	3022.7	3042.0	3028.7	2999.8	2948.0	2884.0	2825.0	2708.0
25°	3016.7	3023.9	3097.5	3156.5	3151.7	3136.0	3096.3	3032.4	2956.4	2893.7	2758.7
27.5°	3184.3	3196.3	3268.7	3315.7	3284.3	3261.4	3216.8	3139.7	3054.1	2997.4	2835.8
30°	3367.5	3372.4	3433.9	3480.9	3432.6	3401.3	3347.0	3263.8	3186.7	3144.5	2951.6
32.5°	3544.8	3549.6	3602.7	3629.2	3578.5	3555.6	3508.6	3420.6	3366.3	3343.4	3124.0
35°	3731.7	3730.5	3773.9	3796.8	3744.9	3735.3	3687.0	3619.5	3609.9	3640.0	3376.0
37.5°	3918.5	3907.7	3930.6	3960.7	3931.8	3941.5	3910.1	3887.2	3924.6	4002.9	3711.2
40°	4068.1	4068.1	4092.2	4129.5	4139.2	4181.4	4163.3	4193.4	4314.0	4500.9	4125.9
42.5°	4200.7	4201.9	4252.5	4310.4	4380.3	4445.4	4459.9	4538.3	4787.9	5080.8	4646.8
45°	4339.3	4340.5	4409.3	4493.7	4642.0	4766.2	4795.1	4971.1	5328.0	5684.9	5212.3
47.5°	4499.7	4486.4	4581.7	4722.8	4933.7	5112.2	5186.9	5436.5	5887.5	6326.3	5745.2
50°	4680.6	4652.8	4758.9	5002.5	5262.9	5507.7	5633.1	5918.8	6487.9	6918.3	6246.8
52.5°	4884.3	4868.6	4979.6	5276.2	5674.1	5956.2	6126.2	6501.2	7071.5	7507.9	6644.6
55°	5137.5	5100.1	5260.5	5637.9	6156.3	6515.6	6717.0	7077.5	7709.3	8043.3	6948.5
57.5°	5414.8	5373.8	5588.4	6090.0	6783.3	7177.6	7429.6	7726.2	8309.7	8453.2	7126.9
60°	5713.8	5700.6	5955.0	6620.5	7530.8	7989.0	8171.1	8439.9	8831.8	8690.7	7082.3
62.5°	5987.5	5982.7	6352.9	7195.7	8323.0	8827.0	8971.7	9042.8	9208.0	8675.1	6727.8
65°	6275.7	6316.7	6817.1	7862.4	9230.9	9725.2	9785.5	9604.7	9334.6	8263.9	6002.0
67.5°	6311.9	6391.4	7108.8	8487.0	10091.8	10558.4	10510.1	9818.1	8960.8	7119.7	4704.7
70°	5645.1	5783.8	6643.4	8582.2	10698.2	11041.9	10693.4	9358.7	7604.4	5158.0	2958.8
72.5°	4716.7	4836.1	5595.7	7318.6	9915.7	10353.4	9882.0	7921.5	5373.8	2958.8	1507.1
75°	3671.4	3810.0	4510.5	5817.5	7423.5	7598.4	7362.0	5524.5	2954.0	1220.2	684.8
77.5°	2240.2	2340.3	2885.3	3941.5	5194.2	4932.5	4180.2	3097.5	1296.1	584.8	423.2
80°	991.1	1052.6	1421.5	2117.2	3001.0	2837.0	2236.6	1322.7	709.0	371.4	295.4
82.5°	531.7	571.5	700.5	838.0	1317.8	1378.1	1117.7	762.0	381.0	212.2	168.8
85°	233.9	256.8	318.3	303.8	432.8	425.6	429.2	523.3	182.1	97.7	109.7
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	13.3	69.9	18.1	28.9	25.3
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-SA6B-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0	2743.0
2.5°	2714.0	2692.3	2686.3	2679.1	2665.8	2642.9	2626.0	2606.7	2598.3	2588.7	2589.9
5°	2646.5	2620.0	2594.7	2562.1	2521.1	2475.3	2444.0	2407.8	2388.5	2370.4	2375.2
7.5°	2588.7	2547.7	2495.8	2427.1	2353.5	2271.6	2205.2	2153.4	2118.4	2094.3	2106.4
10°	2552.5	2504.3	2413.8	2301.7	2177.5	2052.1	1956.9	1867.6	1812.2	1768.8	1766.4
12.5°	2545.2	2482.5	2351.1	2188.4	2008.7	1841.1	1701.3	1580.7	1507.1	1452.9	1473.4
15°	2552.5	2472.9	2296.9	2083.5	1856.8	1630.1	1456.5	1317.8	1229.8	1180.4	1176.8
17.5°	2560.9	2463.3	2235.4	1970.1	1697.6	1438.4	1237.1	1090.0	999.5	950.1	951.3
20°	2568.2	2448.8	2163.0	1845.9	1536.1	1260.0	1051.4	911.5	830.7	794.6	800.6
22.5°	2580.2	2434.3	2085.9	1713.3	1370.9	1087.5	904.3	790.9	742.7	718.6	719.8
25°	2603.1	2425.9	2006.3	1568.6	1208.1	950.1	803.0	727.0	696.9	682.4	681.2
27.5°	2650.1	2433.1	1923.1	1428.8	1061.0	845.2	737.9	688.5	668.0	658.3	657.1
30°	2728.5	2462.1	1850.8	1286.5	934.4	763.2	693.3	663.1	651.1	642.6	641.4
32.5°	2847.9	2516.3	1772.4	1153.9	831.9	702.9	658.3	642.6	634.2	629.4	629.4
35°	3028.7	2615.2	1695.2	1038.1	752.4	655.9	630.6	624.6	617.3	614.9	617.3
37.5°	3289.2	2773.1	1625.3	936.8	695.7	619.7	600.4	602.9	596.8	600.4	604.1
40°	3619.5	2984.1	1566.2	853.6	653.5	593.2	573.9	582.4	578.7	582.4	588.4
42.5°	4037.9	3245.8	1521.6	788.5	623.4	571.5	553.4	561.9	559.4	564.3	570.3
45°	4504.5	3590.6	1501.1	742.7	601.6	555.8	536.5	542.6	540.2	543.8	549.8
47.5°	4951.8	3904.1	1519.2	716.2	583.6	542.6	522.1	524.5	523.3	522.1	525.7
50°	5337.7	4153.7	1571.0	707.7	571.5	529.3	510.0	511.2	507.6	500.4	502.8
52.5°	5652.4	4353.8	1602.4	707.7	565.5	514.8	496.8	498.0	490.7	481.1	482.3
55°	5859.7	4434.6	1577.1	706.5	563.1	502.8	483.5	484.7	477.5	465.4	466.6
57.5°	5918.8	4356.2	1471.0	693.3	560.7	493.1	470.2	472.6	467.8	454.6	454.6
60°	5753.6	4069.3	1276.8	663.1	554.6	487.1	460.6	464.2	461.8	448.5	448.5
62.5°	5320.8	3559.2	1045.3	617.3	537.7	479.9	452.1	459.4	465.4	458.2	457.0
65°	4510.5	2851.5	850.0	566.7	516.0	467.8	440.1	458.2	471.4	481.1	481.1
67.5°	3384.4	2041.3	693.3	513.6	483.5	443.7	424.4	441.3	450.9	457.0	460.6
70°	2063.0	1200.9	546.2	452.1	436.5	407.5	393.1	376.2	362.9	360.5	361.7
72.5°	1009.2	687.3	443.7	384.6	372.6	346.0	313.5	306.2	300.2	296.6	295.4
75°	555.8	478.7	366.5	319.5	297.8	265.3	258.0	246.0	243.6	238.7	239.9
77.5°	393.1	377.4	302.6	259.2	226.7	209.8	213.4	205.0	205.0	201.4	200.1
80°	295.4	296.6	232.7	189.3	167.6	161.6	165.2	165.2	162.8	161.6	160.4
82.5°	186.9	211.0	156.7	121.8	119.4	120.6	119.4	118.2	120.6	117.0	115.7
85°	129.0	151.9	95.3	72.3	72.3	71.1	73.5	72.3	74.8	71.1	71.1
87.5°	28.9	67.5	35.0	21.7	22.9	21.7	22.9	24.1	26.5	27.7	27.7
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)