

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: P639990

Luminaire Tested: GWS-SA5C-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18271.6 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

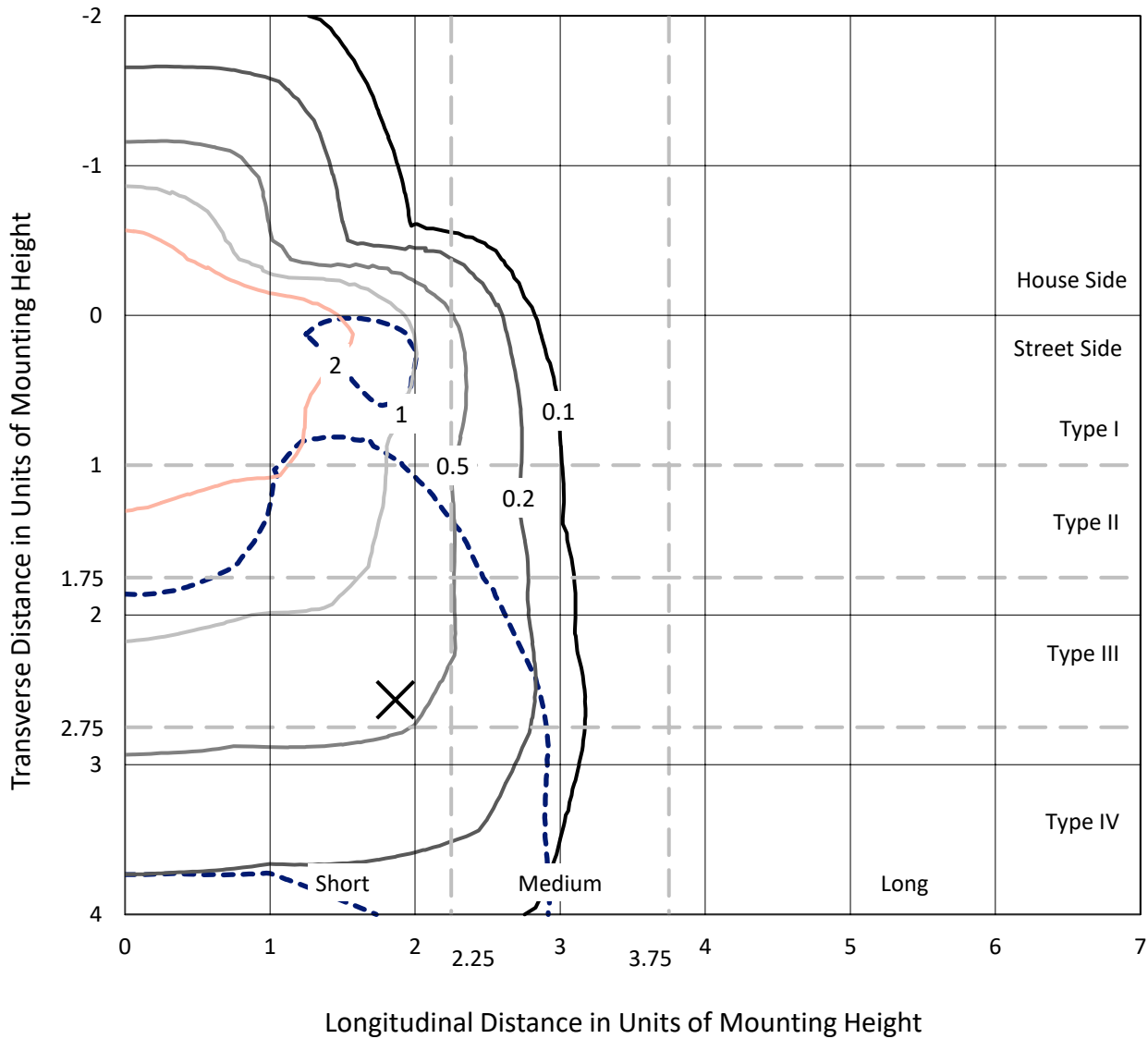
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA5C-830-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination

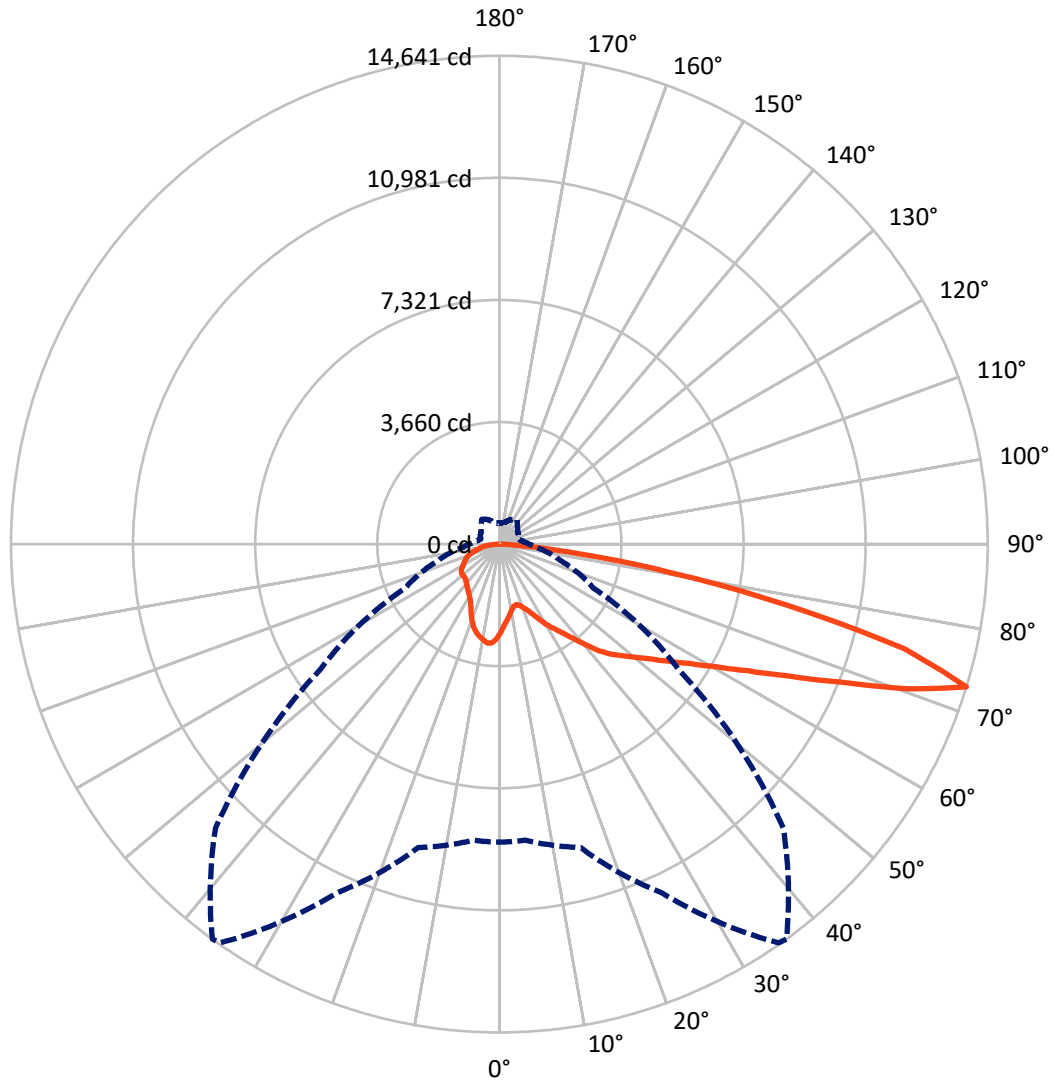
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P639990
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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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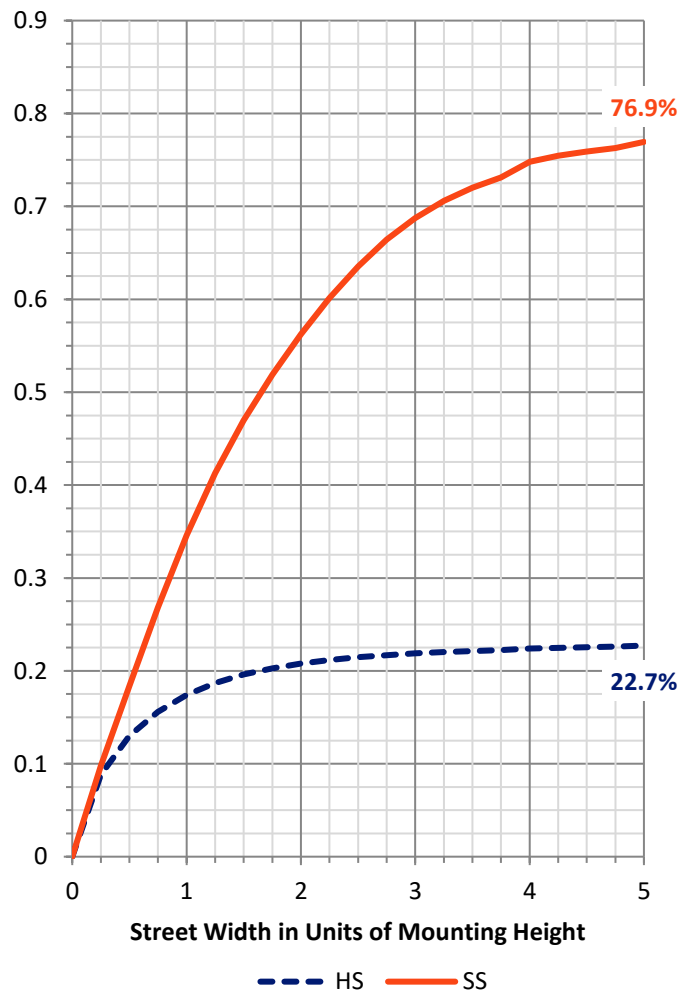
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4212.4	0.0	4212.4
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	14059.2	0.0	14059.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	18271.6	0.0	18271.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	1.4
10°-20°	705.2	3.9
20°-30°	1168.0	6.4
30°-40°	1749.1	9.6
40°-50°	2551.8	14.0
50°-60°	3632.0	19.9
60°-70°	4588.7	25.1
70°-80°	3269.9	17.9
80°-90°	357.0	2.0
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°	18271.6	100.0
0°-180°	18271.6	100.0

Coefficient of Utilization



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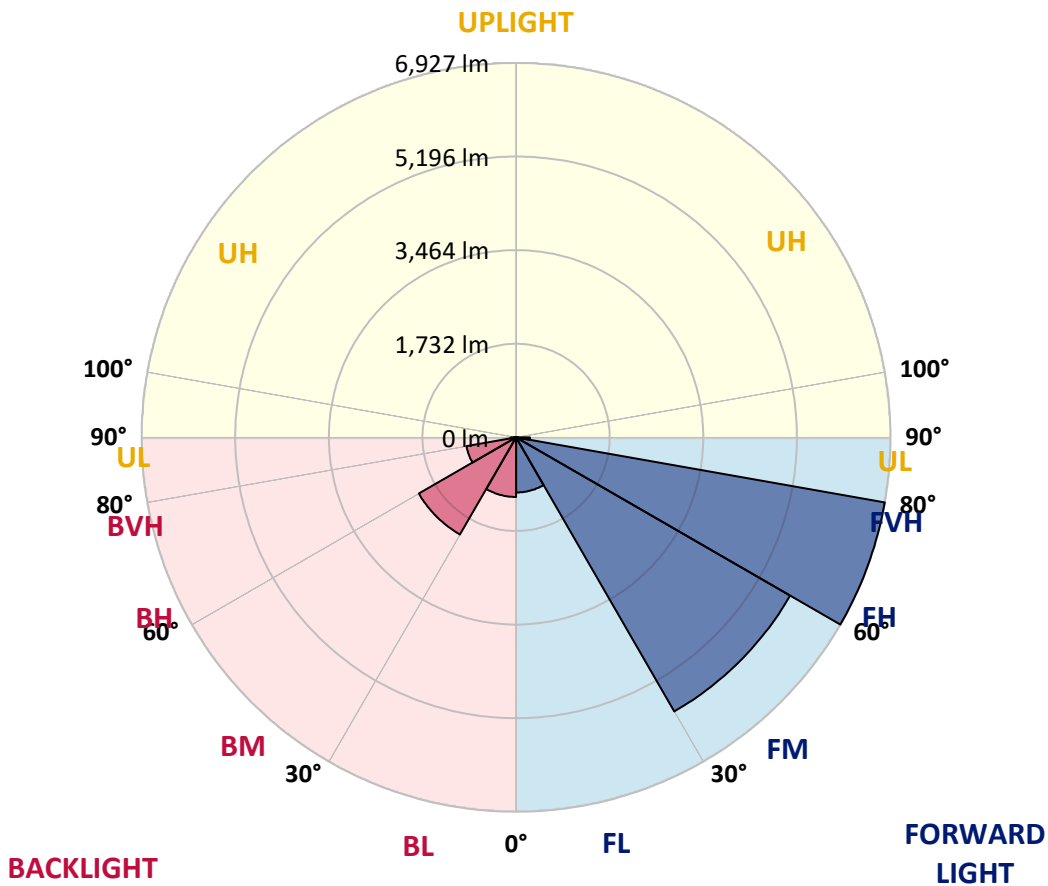
CATALOG NUMBER: GWS-SA5C-830-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.1	5.6			
FM (30°-60°)	5855.6	32.0			
FH (60°-80°)	6927.4	37.9			G3/7500
FVH (80°-90°)	256.2	1.4			G3/500
BL (0°-30°)	1103.1	6.0	B3/2500		
BM (30°-60°)	2077.3	11.4	B2/2500		
BH (60°-80°)	931.3	5.1	B2/1000		G2/1000
BVH (80°-90°)	100.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1
2.5°	2439.5	2435.5	2427.3	2451.7	2476.1	2473.4	2507.3	2539.9	2575.1	2611.8	2660.6
5°	2244.3	2241.6	2234.8	2271.4	2308.0	2306.6	2362.2	2415.1	2487.0	2565.6	2663.3
7.5°	2049.0	2042.2	2051.7	2097.8	2149.3	2154.8	2230.7	2317.5	2421.9	2539.9	2678.2
10°	1876.8	1875.4	1879.5	1931.0	2008.3	2013.7	2111.4	2232.1	2370.4	2527.7	2712.1
12.5°	1832.0	1829.3	1818.5	1844.2	1902.5	1910.7	2017.8	2165.6	2335.1	2534.5	2758.2
15°	1905.3	1898.5	1860.5	1848.3	1876.8	1883.6	1974.4	2126.3	2314.8	2546.7	2816.5
17.5°	2031.4	2027.3	1955.4	1905.3	1924.2	1929.7	1997.5	2119.5	2309.4	2571.1	2888.4
20°	2215.8	2198.2	2085.6	2009.7	2009.7	2017.8	2058.5	2149.3	2316.1	2600.9	2969.7
22.5°	2459.9	2424.6	2266.0	2162.9	2135.8	2146.6	2164.3	2223.9	2344.6	2651.1	3071.5
25°	2733.8	2701.3	2512.8	2367.7	2329.7	2333.8	2318.8	2329.7	2407.0	2720.2	3197.6
27.5°	3025.3	3003.7	2803.0	2618.5	2558.9	2558.9	2506.0	2480.2	2493.8	2798.9	3338.6
30°	3285.7	3255.9	3086.4	2884.3	2805.7	2805.7	2705.3	2649.7	2617.2	2895.2	3527.1
32.5°	3422.7	3405.0	3292.5	3137.9	3041.6	3026.7	2939.9	2874.8	2798.9	3037.6	3782.0
35°	3601.7	3597.6	3529.8	3409.1	3287.1	3265.4	3205.7	3154.2	3022.6	3215.2	4121.0
37.5°	3826.8	3820.0	3809.1	3737.3	3590.8	3586.8	3533.9	3471.5	3300.6	3471.5	4531.9
40°	4079.0	4066.8	4053.2	4051.9	3963.7	3948.8	3944.7	3874.2	3635.6	3780.7	4960.4
42.5°	4426.1	4384.1	4256.6	4313.6	4378.7	4365.1	4416.7	4310.9	4053.2	4148.2	5365.9
45°	4853.3	4750.2	4498.0	4514.3	4678.4	4705.5	4884.5	4858.7	4512.9	4572.6	5793.0
47.5°	5109.6	5020.1	4785.5	4771.9	4976.7	5010.6	5399.8	5448.6	5007.9	5083.8	6320.5
50°	5319.8	5257.4	5064.8	5083.8	5300.8	5334.7	5911.0	6015.4	5474.4	5607.3	6933.5
52.5°	5573.4	5483.9	5334.7	5424.2	5690.0	5730.7	6479.2	6591.8	5894.7	6182.2	7568.1
55°	5715.8	5679.1	5681.8	5818.8	6152.4	6208.0	7074.5	7055.5	6279.9	6674.5	8045.4
57.5°	6043.9	6030.4	6155.1	6206.6	6692.1	6764.0	7669.8	7507.1	6629.7	7055.5	8274.6
60°	6622.9	6589.0	6697.5	6776.2	7359.3	7461.0	8334.3	7949.2	6867.0	7338.9	8197.3
62.5°	7436.6	7394.5	7398.6	7523.4	8252.9	8360.0	9073.3	8318.0	6940.3	7382.3	7707.8
65°	8448.2	8387.2	8318.0	8487.5	9439.5	9529.0	9877.5	8586.5	6765.3	6964.7	6685.3
67.5°	9515.4	9465.2	9383.9	9739.2	10975.9	11030.1	10779.2	8563.5	6210.7	5847.3	4689.2
70°	9577.8	9590.0	9975.1	11260.6	12981.5	12995.0	11632.2	8099.7	5029.6	3790.2	2336.5
72.5°	8935.0	8914.7	9416.4	11538.6	14595.2	14641.3	12034.9	6561.9	3108.1	1890.3	1095.7
75°	7257.6	7292.8	7820.3	10095.8	12509.6	12550.2	9811.0	3868.8	1476.7	924.8	701.1
77.5°	3124.3	3321.0	4361.1	7112.5	8959.4	8833.3	5056.7	1567.6	787.9	659.0	537.0
80°	901.8	979.1	1554.0	3382.0	5368.6	5273.7	2001.5	587.2	549.2	495.0	385.1
82.5°	291.6	322.7	569.5	1346.6	2405.6	2402.9	759.4	347.1	359.4	336.3	248.2
85°	81.4	93.6	174.9	408.2	744.5	729.6	219.7	164.1	191.2	193.9	123.4
87.5°	0.0	0.0	1.4	2.7	2.7	2.7	5.4	24.4	55.6	70.5	50.2
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-SA5C-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1	2674.1
2.5°	2690.4	2686.3	2741.9	2785.3	2826.0	2853.1	2861.3	2866.7	2877.5	2883.0	2877.5
5°	2709.4	2729.7	2821.9	2889.7	2944.0	2976.5	2977.9	2975.2	2983.3	2976.5	2972.5
7.5°	2750.1	2789.4	2906.0	2977.9	3013.1	3014.5	2982.0	2944.0	2925.0	2908.7	2903.3
10°	2804.3	2862.6	2990.1	3037.6	3026.7	2976.5	2904.7	2845.0	2811.1	2786.7	2781.3
12.5°	2878.9	2944.0	3064.7	3063.3	2995.5	2906.0	2821.9	2750.1	2701.3	2672.8	2663.3
15°	2949.4	3032.1	3118.9	3055.2	2948.1	2839.6	2731.1	2634.8	2569.7	2525.0	2516.8
17.5°	3036.2	3124.3	3158.2	3029.4	2888.4	2748.7	2603.6	2477.5	2389.4	2336.5	2332.4
20°	3136.5	3215.2	3177.2	2984.7	2811.1	2628.0	2431.4	2290.4	2195.4	2143.9	2148.0
22.5°	3253.2	3310.1	3182.6	2923.6	2704.0	2457.2	2237.5	2101.9	2038.1	2011.0	2012.4
25°	3377.9	3414.5	3173.2	2840.9	2539.9	2248.3	2038.1	1975.8	1970.3	1963.6	1966.3
27.5°	3525.7	3517.6	3144.7	2724.3	2318.8	2005.6	1898.5	1914.7	1936.4	1933.7	1936.4
30°	3723.7	3646.4	3108.1	2562.9	2055.8	1802.2	1815.8	1861.9	1890.3	1893.0	1901.2
32.5°	3950.2	3788.8	3049.8	2343.3	1804.9	1688.3	1738.5	1794.1	1828.0	1834.7	1845.6
35°	4220.0	3951.5	2946.7	2069.3	1624.5	1620.5	1666.6	1704.6	1741.2	1743.9	1743.9
37.5°	4530.6	4114.3	2782.6	1766.9	1513.4	1562.2	1605.6	1613.7	1623.2	1615.1	1619.1
40°	4815.3	4271.6	2549.4	1491.7	1422.5	1510.6	1547.3	1520.1	1490.3	1470.0	1474.0
42.5°	5054.0	4378.7	2240.2	1299.1	1330.3	1464.5	1493.0	1437.4	1379.1	1341.1	1346.6
45°	5322.5	4477.7	1876.8	1168.9	1251.6	1432.0	1451.0	1379.1	1304.5	1247.6	1239.4
47.5°	5692.7	4679.7	1554.0	1078.1	1196.0	1414.4	1445.5	1347.9	1250.3	1164.8	1155.4
50°	6149.7	4965.9	1284.2	1018.4	1170.3	1404.9	1444.2	1314.0	1197.4	1097.0	1090.3
52.5°	6648.7	5245.2	1084.8	972.3	1144.5	1376.4	1437.4	1276.0	1141.8	1033.3	1025.2
55°	6980.9	5355.0	950.6	928.9	1102.5	1331.6	1410.3	1239.4	1057.7	958.7	946.5
57.5°	7078.6	5214.0	857.0	889.6	1048.2	1269.3	1358.8	1162.1	1006.2	927.5	918.0
60°	6910.4	4858.7	798.7	857.0	988.6	1189.3	1269.3	1117.4	965.5	895.0	888.2
62.5°	6435.8	4310.9	754.0	823.1	927.5	1105.2	1212.3	1063.1	920.8	865.2	855.7
65°	5481.2	3535.2	717.4	787.9	869.2	1025.2	1149.9	1008.9	871.9	829.9	819.1
67.5°	3833.6	2482.9	678.0	745.8	810.9	947.9	1084.8	958.7	821.8	790.6	779.7
70°	1874.1	1316.7	630.6	697.0	748.5	869.2	1019.7	897.7	755.3	737.7	722.8
72.5°	892.3	736.3	575.0	630.6	663.1	764.8	911.3	809.6	676.7	638.7	612.9
75°	598.0	523.4	501.7	551.9	560.0	641.4	781.1	698.4	596.7	553.3	531.6
77.5°	452.9	400.0	421.7	466.5	450.2	527.5	642.8	622.4	538.4	499.0	488.2
80°	318.7	291.6	334.9	362.1	349.9	448.9	579.0	532.9	443.4	400.0	391.9
82.5°	200.7	195.3	246.8	250.9	254.9	355.3	476.0	419.0	344.4	283.4	263.1
85°	100.3	111.2	147.8	147.8	146.5	183.1	271.2	236.0	185.8	147.8	143.7
87.5°	33.9	47.5	63.7	51.5	39.3	31.2	35.3	43.4	46.1	44.7	44.7
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			

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)