

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: P643934

Luminaire Tested: GWS-SA6F-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
TYPE II OPTICS W/ FACTORY INSULLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32962.6 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 372.6
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



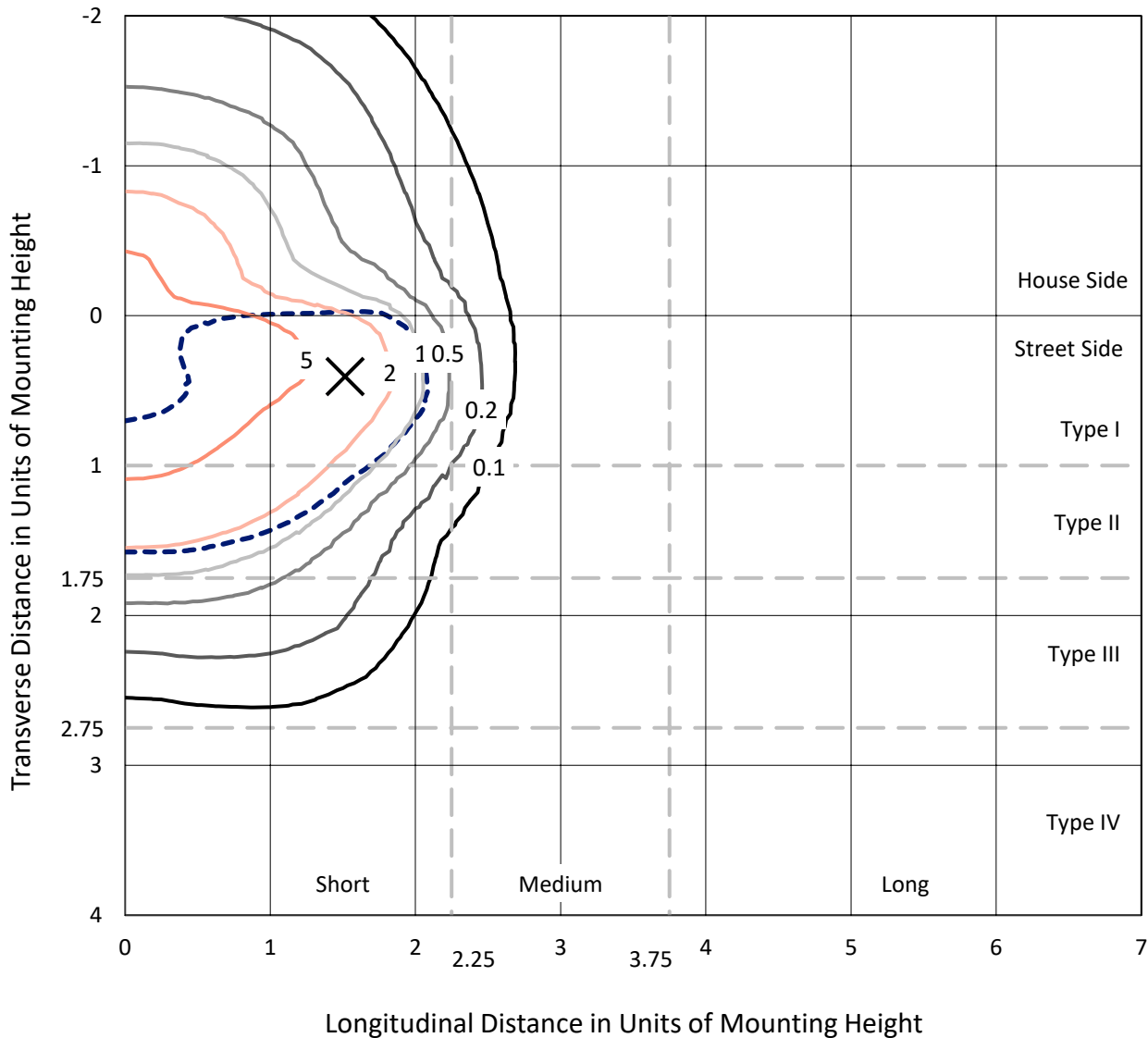
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

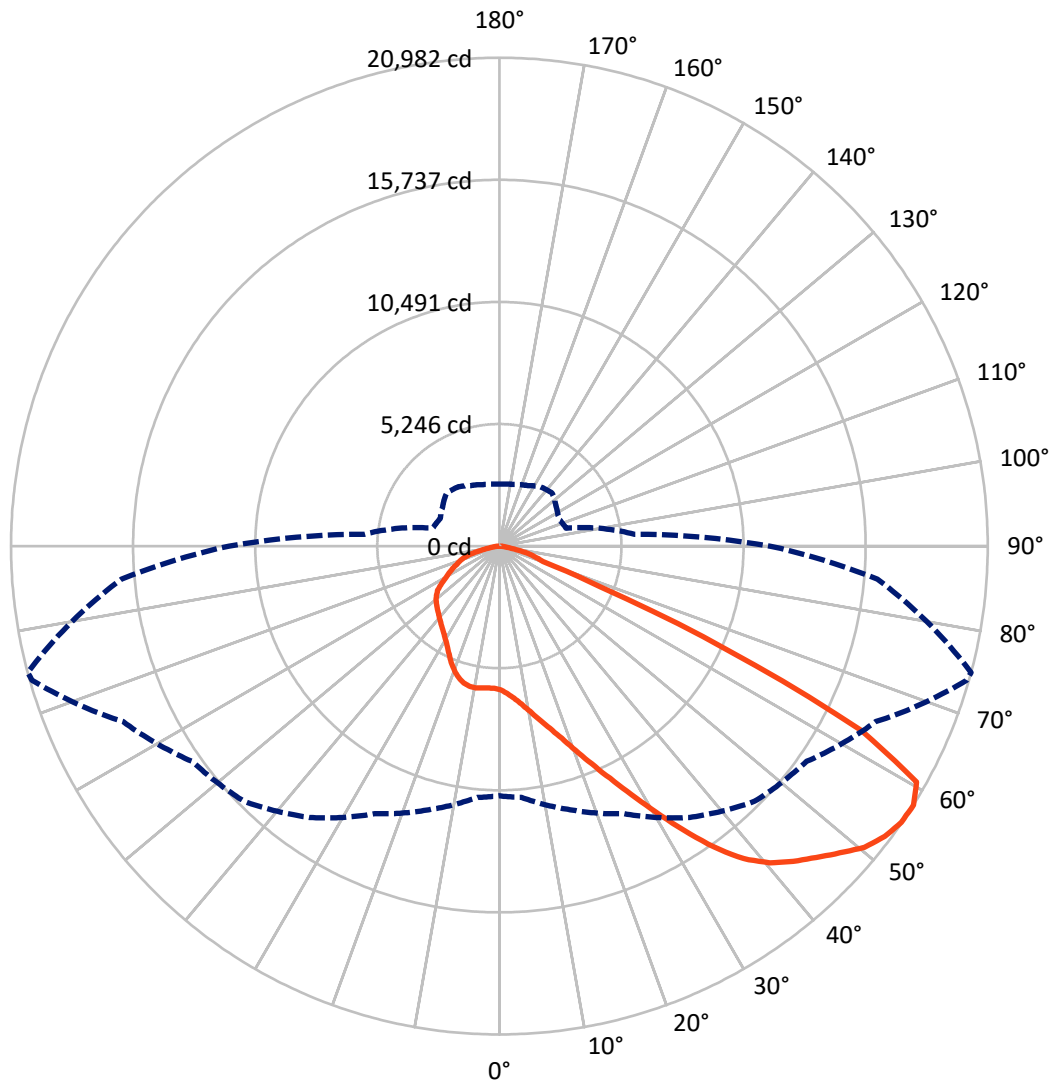


Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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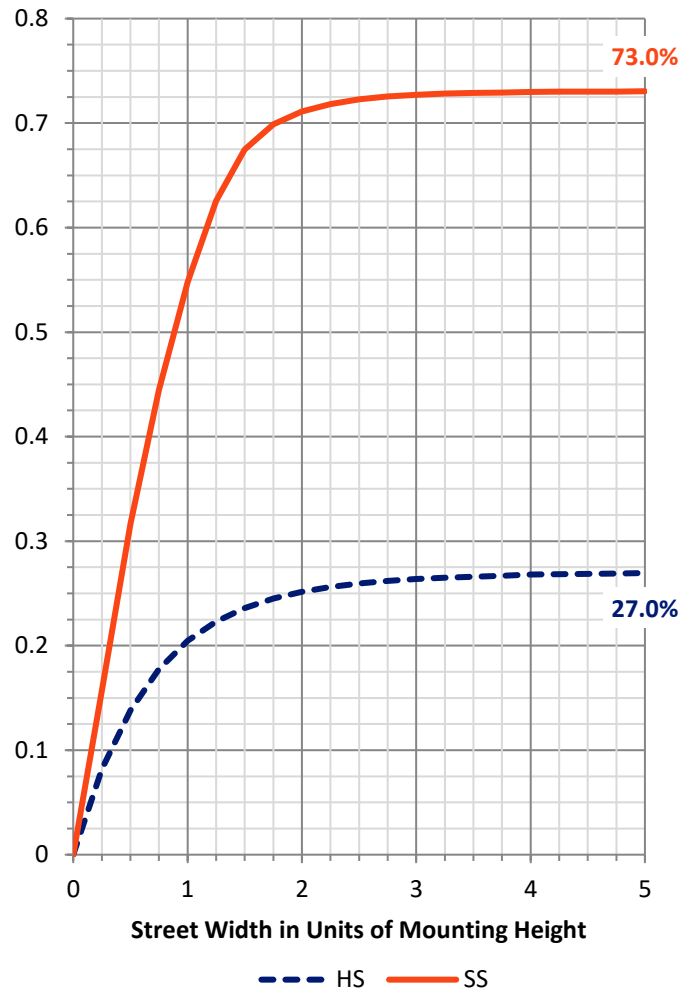
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8917.0	0.0	8917.0
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	24045.6	0.0	24045.6
	% Fixture	72.9	0.0	72.9
Total	Lumens	32962.6	0.0	32962.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.7	1.9
10°-20°	1966.8	6.0
20°-30°	3488.0	10.6
30°-40°	5339.5	16.2
40°-50°	7434.8	22.6
50°-60°	8518.9	25.8
60°-70°	4377.1	13.3
70°-80°	1102.0	3.3
80°-90°	117.8	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°	32962.6	100.0
0°-180°	32962.6	100.0

Coefficient of Utilization



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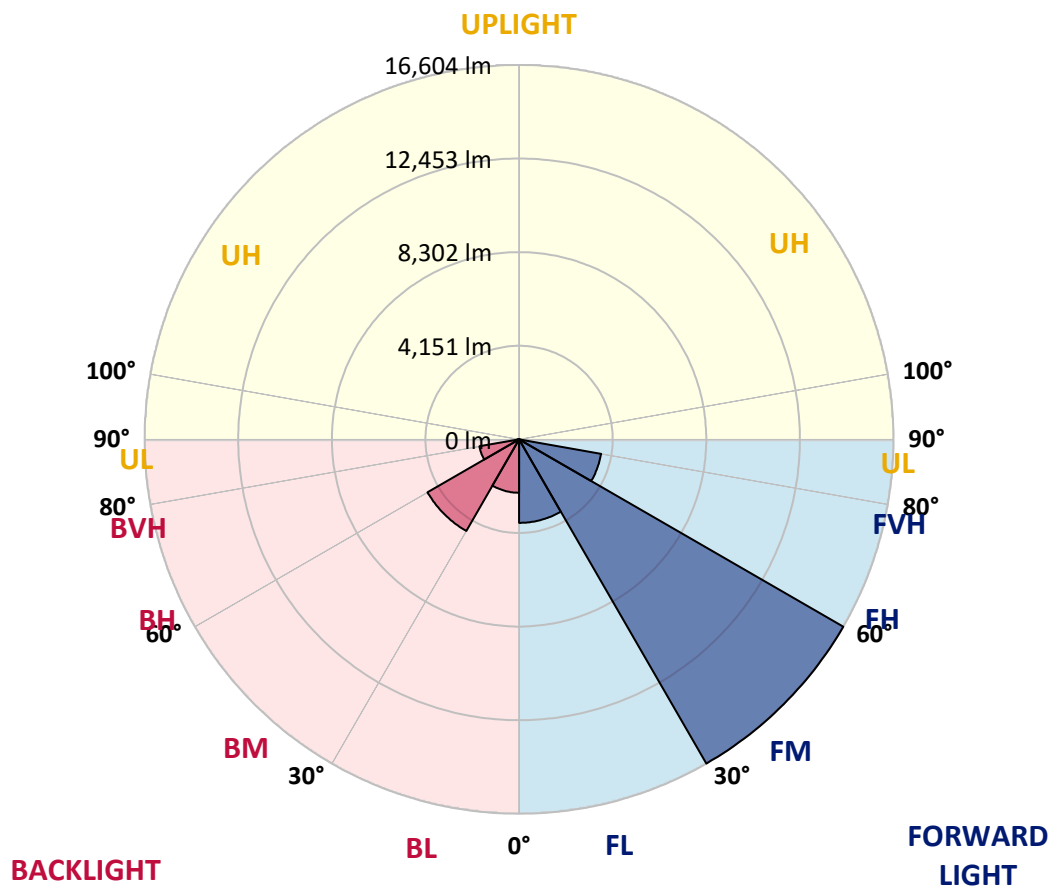
CATALOG NUMBER: GWS-SA6F-830-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3703.6	11.2			
FM	(30°-60°)	16603.6	50.4			
FH	(60°-80°)	3694.8	11.2			G2/5000
FVH	(80°-90°)	43.6	0.1			G1/100
BL	(0°-30°)	2368.9	7.2	B3/2500		
BM	(30°-60°)	4689.6	14.2	B3/5000		
BH	(60°-80°)	1784.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	74.2	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1
2.5°	6632.3	6649.3	6632.3	6660.6	6603.9	6578.4	6516.1	6422.5	6348.8	6337.5	6255.3
5°	7148.1	7184.9	7162.3	7150.9	7074.4	7017.7	6924.2	6737.1	6584.1	6561.4	6399.8
7.5°	7479.7	7505.2	7505.2	7513.7	7485.4	7420.2	7321.0	7099.9	6884.5	6850.5	6606.8
10°	7590.3	7610.1	7646.9	7717.8	7774.5	7794.3	7729.1	7516.6	7253.0	7219.0	6878.8
12.5°	7615.8	7638.4	7695.1	7825.5	7981.4	8123.1	8134.4	7978.6	7683.8	7646.9	7193.5
15°	7663.9	7686.6	7763.1	7924.7	8154.3	8426.4	8593.6	8485.9	8159.9	8120.3	7550.6
17.5°	7658.3	7683.8	7797.2	8012.6	8321.5	8715.5	9038.6	9083.9	8746.6	8678.6	7955.9
20°	7644.1	7666.8	7788.7	8052.2	8434.9	8976.2	9560.1	9795.3	9432.5	9370.2	8429.2
22.5°	7757.5	7783.0	7876.5	8094.8	8494.4	9177.5	10041.9	10608.8	10246.0	10158.1	8973.4
25°	8012.6	8049.4	8106.1	8256.3	8602.1	9356.0	10535.1	11529.9	11158.6	11053.8	9565.8
27.5°	8406.5	8451.9	8531.2	8602.1	8843.0	9582.8	11025.4	12561.6	12190.3	12079.8	10192.1
30°	8888.4	8947.9	9049.9	9098.1	9262.5	9917.2	11558.3	13624.5	13409.1	13256.0	10897.9
32.5°	9554.4	9636.6	9733.0	9747.2	9846.4	10424.6	12085.5	14678.8	14676.0	14568.3	11700.0
35°	10421.7	10509.6	10529.4	10549.3	10597.4	11121.8	12723.2	15639.7	16011.0	15886.2	12573.0
37.5°	11368.4	11495.9	11527.1	11439.2	11507.3	11960.7	13440.2	16410.6	17173.0	17039.8	13417.6
40°	12380.2	12431.2	12516.3	12377.4	12462.4	12921.6	14143.2	16903.8	18040.3	17898.6	14083.6
42.5°	13105.8	13199.3	13326.9	13275.9	13324.0	13743.5	14636.3	17141.8	18658.2	18516.5	14562.6
45°	13893.7	13922.1	14004.3	13992.9	14021.3	14412.4	14990.6	17246.7	19210.9	19083.3	14970.8
47.5°	14579.6	14622.1	14676.0	14613.6	14551.3	14806.4	15279.7	17337.4	19848.6	19695.5	15398.7
50°	15240.0	15276.9	15342.1	15160.7	14928.3	14993.4	15421.4	17462.1	20446.6	20338.9	15736.0
52.5°	15361.9	15401.6	15707.7	15744.5	15446.9	15217.4	15670.8	17737.0	20798.1	20730.1	15857.9
55°	13828.5	13899.4	14508.8	15208.8	15942.9	15869.2	16070.5	17881.6	20937.0	20954.0	16076.1
57.5°	10733.5	10835.5	11725.5	12686.3	14231.0	15509.3	16121.5	17844.7	20888.8	20982.3	16300.1
60°	7040.4	7099.9	8154.3	9231.3	10832.7	12601.3	14429.4	17181.5	20460.8	20594.0	16243.4
62.5°	4251.4	4319.5	5166.9	5983.2	6927.0	8108.9	9786.8	13808.7	17150.3	17447.9	13009.4
65°	2967.5	3058.2	3800.8	4472.5	4798.5	4554.7	4957.2	7712.1	10685.3	10810.0	7950.2
67.5°	2151.2	2213.6	2823.0	3622.2	3982.2	3216.9	2451.7	3415.3	4653.9	4699.3	3279.3
70°	1408.6	1479.5	2032.2	2757.8	3250.9	2607.6	1833.8	1848.0	1958.5	1981.2	1904.6
72.5°	773.8	816.3	1255.6	1831.0	1921.7	1558.9	1431.3	1536.2	1612.7	1612.7	1632.6
75°	399.6	436.5	513.0	603.7	728.4	853.1	1031.7	1187.6	1269.8	1275.4	1266.9
77.5°	204.1	218.2	274.9	297.6	325.9	379.8	493.2	632.0	705.7	734.1	728.4
80°	96.4	102.0	116.2	136.0	167.2	212.6	266.4	317.4	362.8	368.5	399.6
82.5°	51.0	56.7	62.4	73.7	90.7	113.4	155.9	187.1	215.4	221.1	246.6
85°	19.8	22.7	25.5	28.3	39.7	48.2	65.2	87.9	107.7	107.7	127.5
87.5°	0.0	0.0	0.0	0.0	2.8	5.7	11.3	14.2	19.8	19.8	34.0
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°	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1	6173.1
2.5°	6235.5	6153.3	6116.4	6056.9	6008.7	5954.9	5912.3	5881.2	5861.3	5850.0	5838.7
5°	6337.5	6212.8	6113.6	5994.5	5912.3	5833.0	5767.8	5722.5	5699.8	5682.8	5671.4
7.5°	6496.2	6329.0	6141.9	5957.7	5813.1	5685.6	5603.4	5555.2	5524.0	5512.7	5504.2
10°	6714.5	6482.0	6173.1	5881.2	5665.8	5526.9	5470.2	5447.5	5450.4	5444.7	5441.9
12.5°	6961.0	6643.6	6164.6	5745.1	5507.0	5424.8	5427.7	5464.5	5507.0	5518.4	5521.2
15°	7227.5	6802.3	6082.4	5569.4	5382.3	5390.8	5464.5	5552.4	5631.8	5662.9	5668.6
17.5°	7516.6	6935.5	5932.2	5376.7	5280.3	5371.0	5507.0	5651.6	5767.8	5818.8	5833.0
20°	7839.7	7048.9	5719.6	5186.8	5183.9	5334.2	5532.6	5722.5	5869.8	5937.9	5949.2
22.5°	8182.6	7119.8	5458.9	5011.0	5084.7	5286.0	5512.7	5711.1	5867.0	5935.0	5949.2
25°	8528.4	7142.4	5172.6	4849.5	4982.7	5209.4	5416.3	5575.1	5722.5	5782.0	5793.3
27.5°	8851.5	7077.2	4900.5	4710.6	4889.2	5096.1	5235.0	5320.0	5422.0	5467.4	5475.9
30°	9180.3	6946.9	4670.9	4600.1	4784.3	4940.2	5002.5	5008.2	5047.9	5047.9	5053.6
32.5°	9511.9	6754.1	4469.7	4492.4	4653.9	4756.0	4764.5	4699.3	4651.1	4571.7	4568.9
35°	9894.5	6558.6	4305.3	4370.5	4500.9	4563.2	4537.7	4413.0	4296.8	4166.4	4160.8
37.5°	10248.8	6357.3	4166.4	4245.8	4328.0	4373.3	4313.8	4163.6	4067.2	3934.0	3914.2
40°	10540.8	6175.9	4033.2	4115.4	4155.1	4194.8	4098.4	3976.5	3990.7	3917.0	3914.2
42.5°	10710.8	6000.2	3908.5	3970.9	3996.4	4024.7	3939.7	3849.0	3925.5	3868.8	3871.7
45°	10835.5	5847.2	3795.1	3817.8	3880.2	3922.7	3843.3	3741.3	3758.3	3540.0	3489.0
47.5°	10977.2	5762.1	3687.4	3664.7	3775.3	3849.0	3727.1	3579.7	3477.7	3262.3	3242.4
50°	11127.5	5731.0	3574.1	3511.7	3644.9	3715.8	3574.1	3389.8	3256.6	3140.4	3129.1
52.5°	11178.5	5728.1	3432.3	3327.5	3460.7	3559.9	3440.8	3253.8	3095.1	2981.7	2976.0
55°	11379.7	5810.3	3250.9	3075.2	3199.9	3404.0	3316.1	3046.9	2919.3	2868.3	2862.6
57.5°	11615.0	5824.5	2964.7	2800.3	2973.2	3214.1	3103.6	2871.1	2732.3	2669.9	2664.2
60°	11518.6	5475.9	2658.6	2590.5	2780.4	3035.5	2933.5	2732.3	2570.7	2511.2	2505.5
62.5°	8777.8	3866.0	2434.7	2409.2	2573.5	2777.6	2757.8	2548.0	2395.0	2352.5	2346.8
65°	5280.3	2715.3	2219.3	2216.4	2332.6	2528.2	2553.7	2383.6	2222.1	2162.6	2162.6
67.5°	2610.4	2077.5	1975.5	1961.3	2035.0	2173.9	2281.6	2142.7	2006.7	1950.0	1941.5
70°	1845.1	1831.0	1796.9	1757.3	1771.4	1828.1	1873.5	1757.3	1612.7	1556.0	1544.7
72.5°	1595.7	1598.5	1575.9	1544.7	1533.4	1493.7	1454.0	1369.0	1281.1	1221.6	1227.3
75°	1238.6	1244.3	1258.4	1247.1	1215.9	1173.4	1130.9	1023.2	952.3	895.6	884.3
77.5°	722.7	751.1	796.4	785.1	790.8	731.2	714.2	609.4	544.2	504.5	496.0
80°	408.1	425.1	445.0	459.2	442.2	416.6	379.8	323.1	303.3	274.9	269.3
82.5°	246.6	263.6	272.1	283.4	277.8	243.7	215.4	178.6	161.6	147.4	144.5
85°	124.7	136.0	144.5	150.2	133.2	110.5	99.2	79.4	68.0	59.5	59.5
87.5°	31.2	34.0	39.7	34.0	31.2	14.2	11.3	2.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



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 $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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 $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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 $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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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TM-30-18

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)