

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: P634536

Luminaire Tested: GWS-SA3B-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3B-830-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

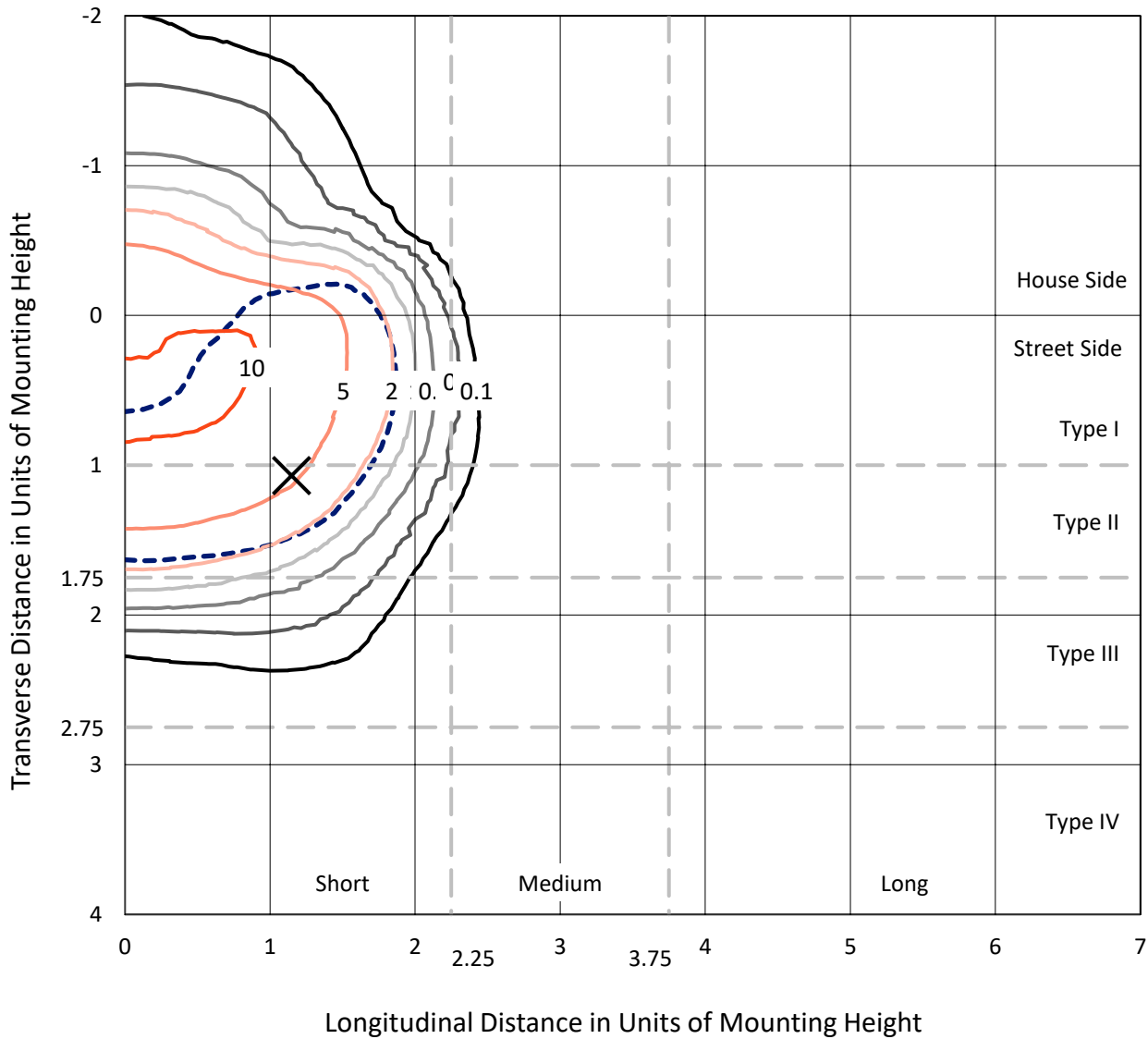
Lumens per Lamp: N/A  
Luminaire Lumens: 5102.4 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

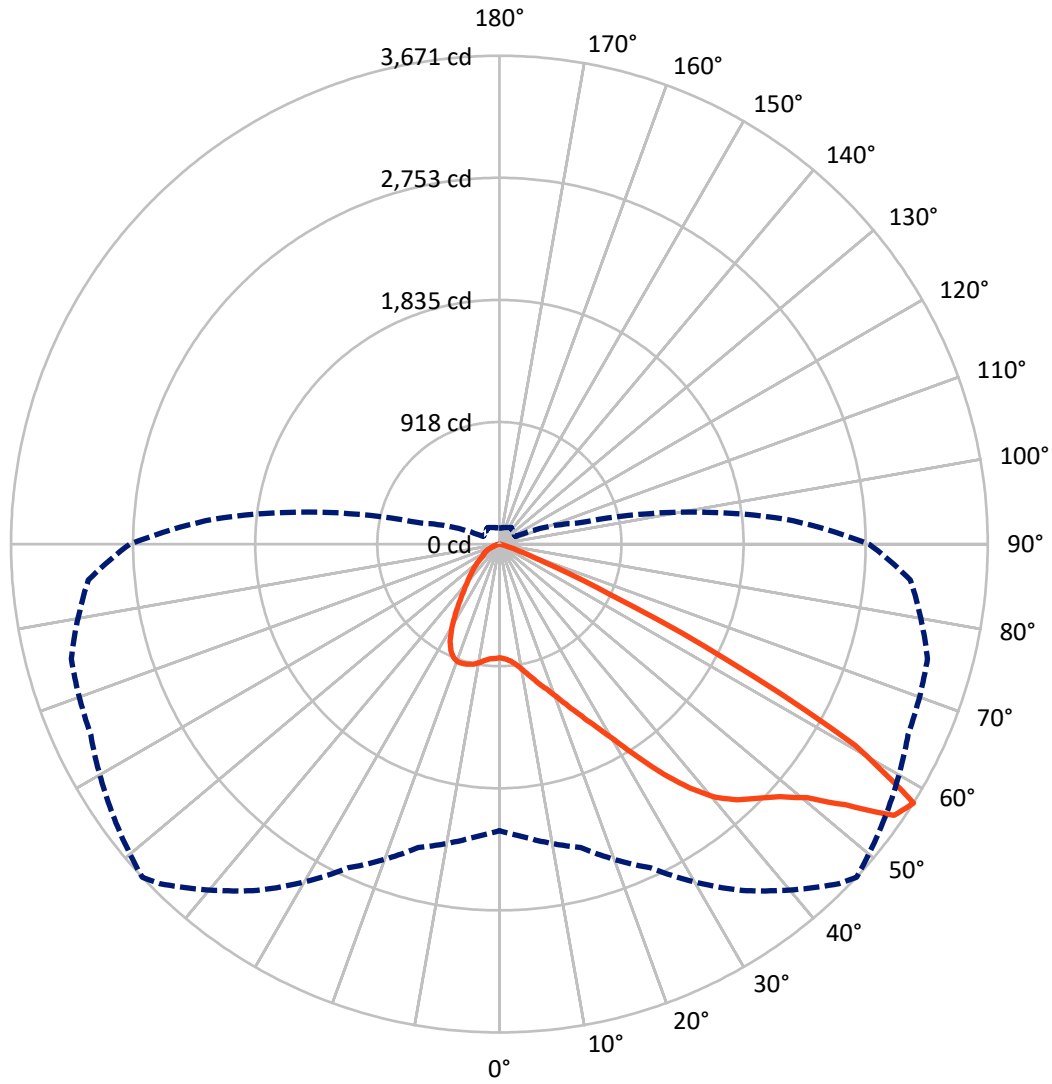
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 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
<b>House Side</b>	Lumens	1107.0	0.0	1107.0
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	3995.4	0.0	3995.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	5102.4	0.0	5102.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.0	1.7
10°-20°	286.7	5.6
20°-30°	532.4	10.4
30°-40°	852.3	16.7
40°-50°	1245.8	24.4
50°-60°	1537.6	30.1
60°-70°	513.8	10.1
70°-80°	47.9	0.9
80°-90°	1.0	0.0
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°	5102.4	100.0
0°-180°	5102.4	100.0

**Coefficient of Utilization**



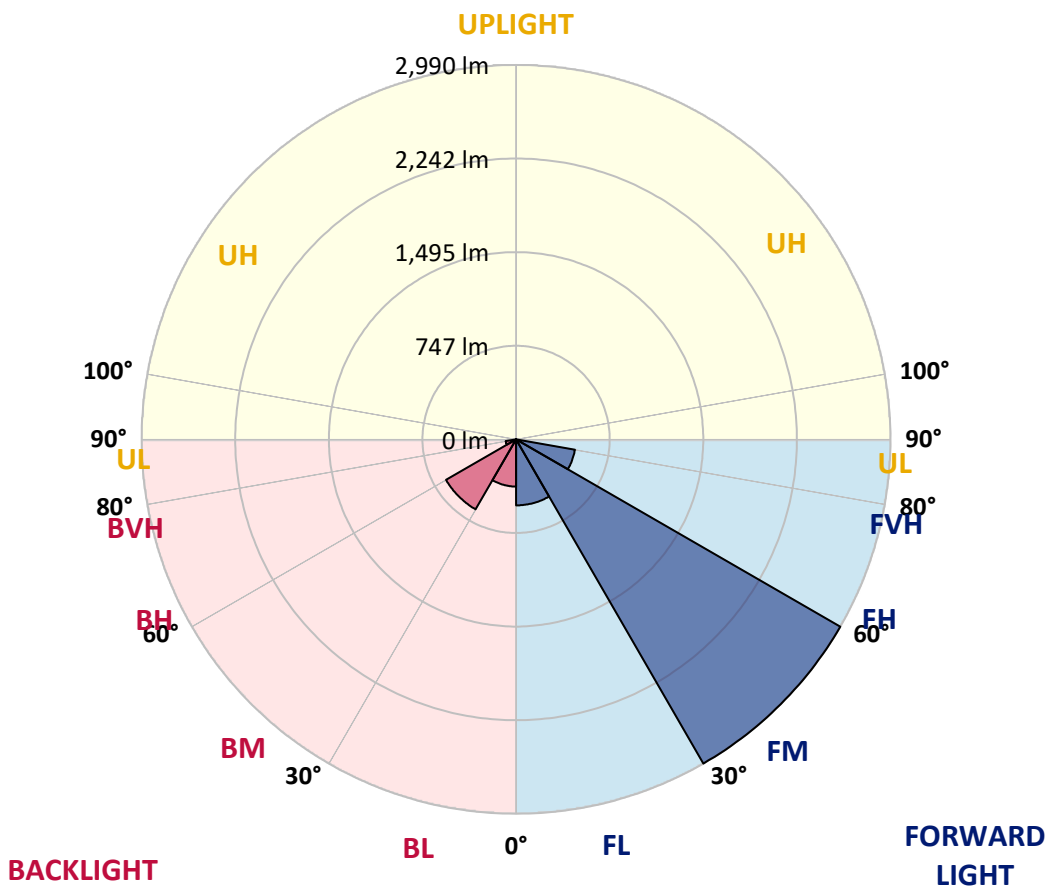
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.3	10.3			
FM (30°-60°)	2990.0	58.6			
FH (60°-80°)	477.5	9.4			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	376.8	7.4	B1/500		
BM (30°-60°)	645.7	12.7	B1/1000		
BH (60°-80°)	84.2	1.6	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





REPORT NUMBER: P634536

CATALOG NUMBER: GWS-SA3B-830-U-T3-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1
2.5°	863.0	862.4	861.8	865.4	864.2	863.6	864.8	864.8	864.8	861.3	854.1
5°	883.8	883.8	883.2	886.7	883.8	882.0	882.6	882.6	880.2	873.7	864.8
7.5°	916.3	915.2	914.0	917.5	914.6	914.0	915.2	911.6	907.5	896.8	884.4
10°	963.1	963.1	961.4	964.9	962.5	961.4	961.4	959.0	951.3	934.7	916.3
12.5°	1027.7	1024.7	1020.6	1017.6	1016.4	1015.9	1016.4	1012.9	1004.6	983.3	957.8
15°	1098.2	1095.8	1089.3	1084.6	1078.0	1076.9	1080.4	1077.5	1069.2	1040.1	1004.0
17.5°	1187.0	1190.0	1173.4	1163.3	1144.4	1143.2	1144.4	1149.1	1143.2	1105.9	1053.2
20°	1262.9	1265.2	1252.8	1245.7	1228.5	1220.8	1223.2	1230.9	1224.4	1180.5	1107.1
22.5°	1344.0	1347.0	1333.9	1319.1	1311.4	1311.4	1320.3	1331.0	1322.1	1264.6	1168.7
25°	1441.2	1443.5	1432.9	1413.3	1399.7	1416.9	1429.9	1458.3	1443.5	1365.3	1241.5
27.5°	1552.5	1553.1	1537.7	1517.6	1510.5	1542.4	1555.5	1599.3	1593.4	1478.5	1318.5
30°	1671.6	1672.2	1668.6	1655.0	1648.5	1690.5	1708.3	1771.7	1767.5	1618.9	1423.4
32.5°	1795.4	1795.4	1801.9	1800.7	1808.4	1877.1	1905.5	1977.8	1973.7	1790.6	1553.7
35°	1919.8	1920.4	1931.6	1960.0	1992.0	2083.2	2120.6	2208.2	2198.7	1996.2	1720.1
37.5°	2061.3	2055.4	2070.8	2113.5	2184.5	2290.0	2325.5	2409.0	2398.4	2206.4	1937.5
40°	2231.9	2221.3	2221.3	2271.0	2351.6	2473.0	2503.2	2544.7	2508.5	2376.4	2150.8
42.5°	2420.3	2410.2	2397.2	2441.0	2508.5	2603.3	2628.2	2616.9	2587.3	2537.0	2393.6
45°	2611.0	2595.6	2604.5	2631.2	2670.2	2715.3	2724.7	2672.6	2659.0	2673.2	2594.4
47.5°	2756.1	2745.5	2767.4	2804.7	2836.7	2843.2	2836.7	2764.4	2763.2	2813.6	2733.6
50°	2804.7	2805.9	2866.3	2948.1	2999.6	3004.9	2996.0	2913.1	2901.8	2916.7	2808.9
52.5°	2809.4	2814.2	2902.4	3058.2	3198.6	3262.6	3255.5	3166.0	3055.9	3039.9	2922.6
55°	2695.1	2723.0	2846.2	3073.6	3372.2	3576.5	3600.2	3429.0	3265.5	3251.9	3167.2
57.5°	2154.3	2211.2	2359.9	2683.9	3178.5	3609.1	3670.7	3547.5	3389.3	3331.3	3101.5
60°	1287.7	1358.2	1501.0	1898.4	2419.1	2966.4	3072.4	3089.6	3016.8	2849.1	2379.4
62.5°	552.6	546.7	722.6	1027.1	1438.8	1885.4	1933.4	2008.0	2071.4	1896.1	1444.1
65°	189.5	206.1	286.7	463.2	720.3	875.5	918.1	985.1	1075.1	887.3	529.0
67.5°	117.3	124.4	165.3	273.7	388.6	382.6	363.7	353.0	343.6	235.2	145.1
70°	85.3	91.2	116.1	188.4	261.2	183.6	159.3	129.1	143.3	132.1	103.1
72.5°	57.5	62.2	80.0	114.3	133.9	89.4	82.9	94.2	113.7	108.4	84.1
75°	34.4	37.3	45.6	55.7	54.5	46.2	46.8	66.3	87.1	81.1	59.8
77.5°	23.7	24.9	30.2	36.1	26.7	14.2	13.0	18.4	29.6	29.6	20.1
80°	5.9	7.7	7.7	4.7	4.1	3.6	3.6	5.3	8.3	5.9	3.0
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
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-SA3B-830-U-T3-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1
2.5°	858.3	851.2	855.9	854.7	858.3	859.5	854.1	853.0	853.6	846.4	844.1
5°	866.6	858.3	860.7	858.3	862.4	866.0	864.2	866.6	869.5	864.2	861.8
7.5°	884.4	876.1	875.5	871.9	877.8	880.2	879.6	886.1	892.1	888.5	884.9
10°	915.2	903.9	902.7	899.8	901.5	903.3	896.8	898.0	903.3	899.2	897.4
12.5°	953.1	939.4	936.5	929.4	929.4	920.5	906.3	903.3	907.5	904.5	901.5
15°	993.9	975.6	970.8	958.4	946.6	930.0	915.2	911.6	914.6	911.0	908.6
17.5°	1039.5	1018.8	1003.4	981.5	955.4	935.9	919.3	911.6	906.9	899.8	899.2
20°	1084.6	1057.3	1031.3	996.3	962.0	932.3	905.1	884.9	867.8	857.1	853.0
22.5°	1136.7	1096.4	1054.4	1005.2	956.0	911.0	863.0	828.7	799.1	789.0	784.3
25°	1192.4	1140.2	1077.5	1013.5	935.9	863.6	798.5	747.5	708.4	695.4	690.1
27.5°	1254.0	1182.3	1101.2	1011.7	894.4	796.1	709.6	646.2	607.7	595.9	600.0
30°	1332.2	1236.8	1130.8	993.3	832.2	701.3	600.0	546.7	517.7	506.4	507.0
32.5°	1436.4	1315.0	1174.0	954.3	752.3	593.5	504.7	465.6	446.0	431.2	430.0
35°	1585.7	1434.0	1214.3	891.5	655.1	497.6	433.0	402.2	374.9	357.8	360.7
37.5°	1764.6	1583.9	1236.2	806.8	546.1	422.9	379.1	347.7	316.9	291.4	294.4
40°	1976.6	1780.0	1234.4	695.4	446.6	372.0	334.1	297.4	258.9	235.7	238.1
42.5°	2213.0	1965.4	1195.9	577.5	370.2	330.5	290.8	244.6	207.3	193.1	193.7
45°	2417.9	2115.8	1128.4	455.5	311.6	290.2	245.8	198.4	181.8	171.8	171.2
47.5°	2569.5	2226.0	1031.8	358.4	264.2	253.5	202.0	177.7	164.7	156.4	155.2
50°	2654.3	2264.5	925.2	280.8	223.3	215.0	180.7	161.1	152.2	146.9	145.7
52.5°	2768.0	2310.7	848.8	221.5	187.2	175.9	166.4	149.9	143.9	139.8	138.0
55°	2948.1	2400.1	782.5	175.9	155.8	153.4	157.0	143.3	139.8	133.3	130.9
57.5°	2778.6	2156.1	607.7	136.2	131.5	140.4	151.6	136.8	127.9	122.0	119.7
60°	1955.3	1433.5	305.6	109.6	117.3	131.5	142.8	123.8	114.9	116.1	114.9
62.5°	1078.0	717.3	137.4	91.8	101.9	116.1	122.0	107.2	101.3	111.4	113.1
65°	352.4	244.0	79.4	71.1	80.6	94.8	105.4	101.9	100.7	112.5	116.1
67.5°	108.4	80.6	53.9	50.9	55.7	69.9	88.9	110.2	118.5	122.0	123.8
70°	81.1	63.4	46.2	43.2	45.6	53.3	75.2	91.8	86.5	87.1	85.9
72.5°	65.2	50.3	39.7	37.9	37.9	36.7	39.7	49.8	56.3	59.2	59.2
75°	45.6	35.5	30.2	27.8	21.9	17.8	16.0	16.0	14.2	13.6	13.0
77.5°	15.4	13.0	11.8	9.5	6.5	5.3	4.7	4.1	3.0	1.8	1.2
80°	2.4	1.8	1.2	1.2	1.2	0.6	0.6	0.6	0.0	0.0	0.0
82.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.0	0.0	0.0	0.0
85°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.0	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



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**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	$\lambda$ (nm)	Power W <sup>^</sup> /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**

$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )	$\lambda$ (nm)	Power $W^{\wedge}/nm$	Lumens ( $\phi/nm$ )
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 <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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			





**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)