

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: P639488

Luminaire Tested: GWS-SA5B-830-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-830-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10355.2 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

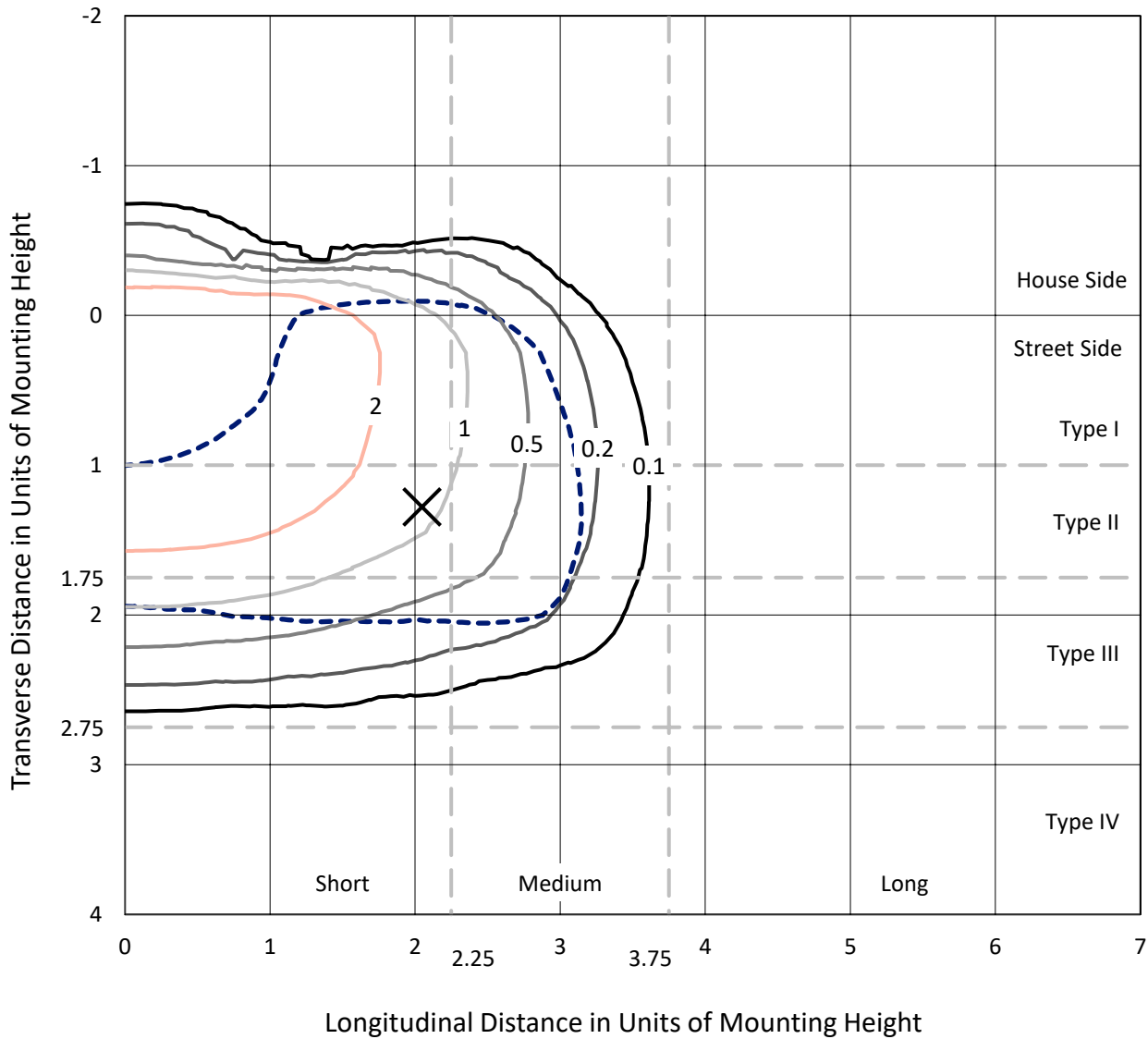
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

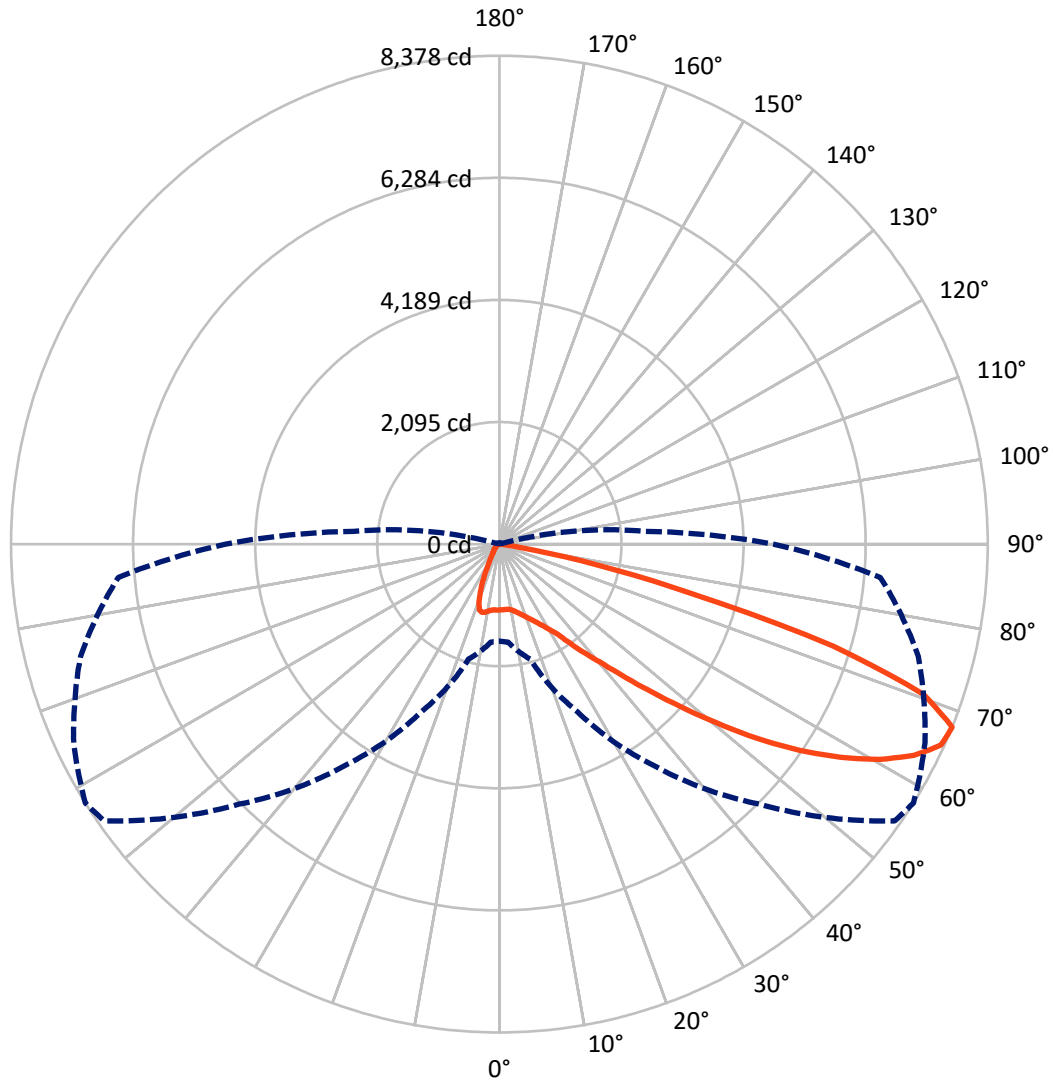
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

REPORT NUMBER: P639488
CATALOG NUMBER: GWS-SA5B-830-U-T3-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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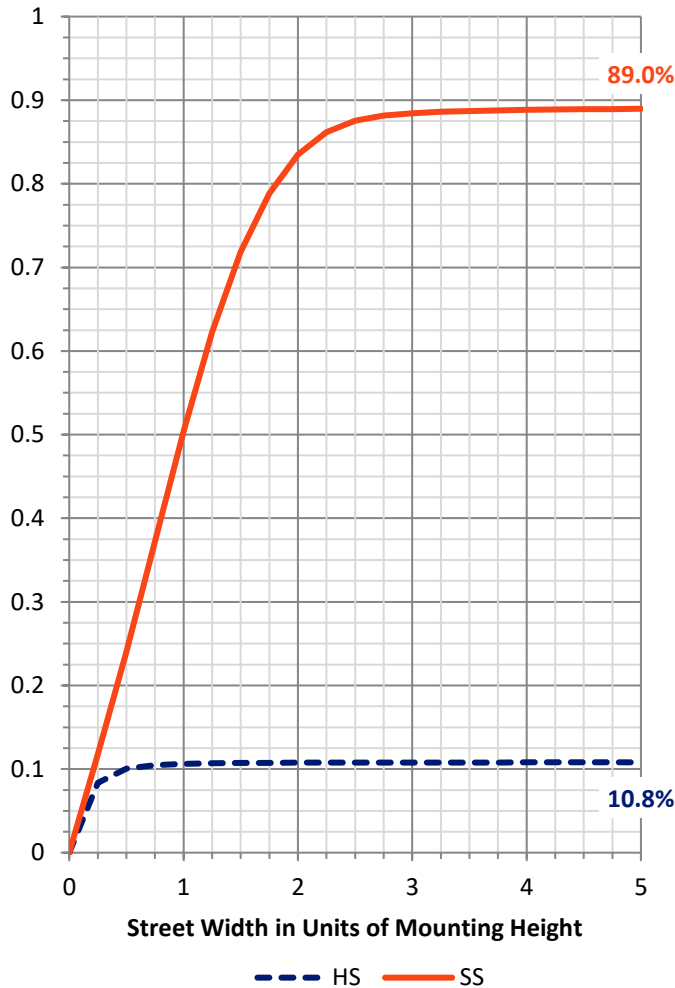
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1129.7	0.0	1129.7
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	9225.5	0.0	9225.5
	% Fixture	89.1	0.0	89.1
Total	Lumens	10355.2	0.0	10355.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	1.0
10°-20°	297.6	2.9
20°-30°	519.5	5.0
30°-40°	927.8	9.0
40°-50°	1695.8	16.4
50°-60°	2820.3	27.2
60°-70°	3063.3	29.6
70°-80°	899.4	8.7
80°-90°	25.6	0.2
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°	10355.2	100.0
0°-180°	10355.2	100.0

Coefficient of Utilization



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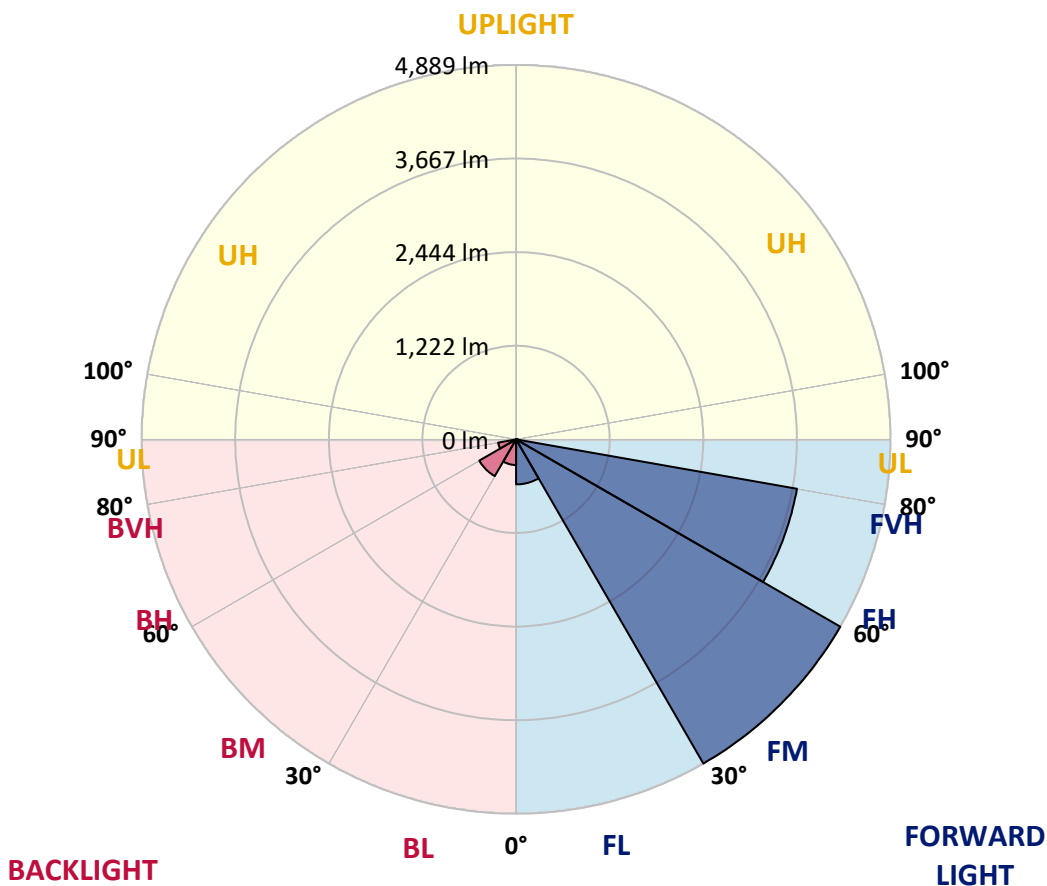
CATALOG NUMBER: GWS-SA5B-830-U-T3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.0	5.7			
FM (30°-60°)	4888.9	47.2			
FH (60°-80°)	3724.2	36.0			G2/5000
FVH (80°-90°)	24.4	0.2			G1/100
BL (0°-30°)	335.1	3.2	B1/500		
BM (30°-60°)	554.9	5.4	B1/1000		
BH (60°-80°)	238.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2

Type III Short





REPORT NUMBER: P639488

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4
2.5°	1107.2	1105.2	1105.2	1113.2	1114.3	1118.3	1127.4	1128.4	1133.5	1131.4	1124.4
5°	1049.5	1050.6	1056.6	1070.8	1082.9	1098.1	1120.3	1125.4	1136.5	1142.6	1138.5
7.5°	996.0	997.0	1006.1	1028.3	1051.6	1081.9	1118.3	1128.4	1150.7	1166.8	1167.8
10°	975.7	974.7	983.8	1009.1	1039.4	1081.9	1134.5	1147.6	1181.0	1209.3	1214.4
12.5°	981.8	980.8	989.9	1013.1	1046.5	1100.1	1162.8	1181.0	1223.5	1266.9	1276.0
15°	1006.1	1005.1	1011.1	1030.3	1066.7	1122.3	1199.2	1226.5	1280.1	1332.7	1346.8
17.5°	1078.9	1073.8	1067.7	1069.8	1091.0	1148.6	1245.7	1279.1	1345.8	1408.5	1420.6
20°	1208.3	1195.1	1179.0	1157.7	1147.6	1187.1	1299.3	1337.7	1418.6	1490.4	1492.4
22.5°	1403.4	1398.4	1361.0	1299.3	1255.8	1256.8	1362.0	1406.5	1505.6	1584.4	1573.3
25°	1675.4	1672.4	1614.8	1513.6	1400.4	1362.0	1441.9	1487.4	1608.7	1692.6	1657.2
27.5°	2013.1	1991.9	1924.2	1787.7	1618.8	1498.5	1543.0	1583.4	1717.9	1796.8	1730.0
30°	2307.4	2308.4	2244.7	2102.1	1912.0	1703.7	1666.3	1701.7	1818.0	1900.9	1820.0
32.5°	2590.5	2599.6	2529.8	2401.4	2193.1	1971.7	1843.3	1849.3	1946.4	2036.4	1938.3
35°	2853.4	2860.5	2811.9	2702.7	2508.6	2251.8	2090.0	2086.9	2139.5	2231.5	2103.1
37.5°	3147.6	3154.7	3107.2	3009.1	2827.1	2572.3	2370.1	2366.0	2387.2	2462.1	2315.5
40°	3461.1	3474.2	3421.6	3338.7	3164.8	2949.4	2695.6	2659.2	2638.0	2726.0	2590.5
42.5°	3778.5	3798.8	3780.6	3697.7	3549.0	3371.1	3118.3	3061.7	3016.2	3126.4	2982.8
45°	4172.9	4197.1	4189.1	4125.4	4010.1	3865.5	3626.9	3561.2	3539.9	3642.0	3471.2
47.5°	4552.1	4578.3	4607.7	4593.5	4511.6	4444.9	4180.0	4142.5	4136.5	4245.7	3980.8
50°	4834.2	4858.4	4970.7	5051.5	5107.2	5093.0	4863.5	4807.9	4798.8	4868.5	4518.7
52.5°	5036.4	5059.6	5214.3	5467.1	5671.4	5782.6	5551.0	5538.9	5489.4	5465.1	5022.2
55°	5193.1	5225.5	5388.2	5770.4	6182.0	6428.7	6284.1	6240.6	6113.2	5973.7	5489.4
57.5°	5224.4	5237.6	5467.1	5982.8	6578.3	6977.7	6977.7	6901.9	6656.2	6463.1	6029.3
60°	4943.4	4983.8	5294.2	5965.6	6748.2	7336.7	7553.0	7500.5	7168.8	6931.2	6549.0
62.5°	4319.5	4365.0	4743.2	5554.1	6578.3	7410.5	7988.8	7980.8	7606.6	7318.5	6979.7
65°	3312.4	3345.8	3675.4	4646.1	5860.4	7126.4	8300.3	8322.5	7952.4	7574.3	7128.4
67.5°	1664.3	1687.6	2043.5	3173.9	4645.1	6308.4	8279.0	8378.1	8057.6	7438.8	6561.1
70°	581.4	604.6	772.5	1362.0	2827.1	4817.0	7563.2	7724.9	7439.8	6349.8	4840.2
72.5°	199.2	210.3	320.5	505.6	1100.1	2855.4	5751.2	5994.9	5484.3	4262.9	2781.6
75°	113.2	120.3	171.9	274.0	461.1	939.3	3262.9	3412.5	3197.2	2323.5	1144.6
77.5°	76.8	82.9	107.2	155.7	254.8	302.3	1330.6	1675.4	1461.1	758.3	292.2
80°	45.5	49.5	65.7	92.0	130.4	117.3	285.1	379.2	488.4	226.5	88.0
82.5°	21.2	24.3	42.5	60.7	65.7	49.5	83.9	102.1	137.5	111.2	36.4
85°	0.0	0.0	14.2	25.3	24.3	14.2	23.3	25.3	37.4	55.6	14.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.0	6.1	11.1	6.1
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-SA5B-830-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4
2.5°	1132.5	1125.4	1133.5	1129.4	1133.5	1132.5	1124.4	1119.3	1119.3	1110.2	1107.2
5°	1146.6	1139.5	1141.6	1132.5	1130.4	1125.4	1115.3	1111.2	1111.2	1102.1	1099.1
7.5°	1178.0	1166.8	1164.8	1146.6	1138.5	1124.4	1106.2	1099.1	1098.1	1089.0	1085.9
10°	1227.5	1214.4	1205.3	1182.0	1158.7	1130.4	1092.0	1059.7	1041.5	1017.2	1015.2
12.5°	1288.2	1272.0	1257.8	1222.4	1184.0	1120.3	1007.1	888.8	816.0	758.3	762.4
15°	1355.9	1340.7	1318.5	1264.9	1186.0	1020.2	783.6	601.6	512.6	465.1	463.1
17.5°	1429.7	1407.5	1371.1	1298.3	1122.3	779.6	509.6	360.0	313.4	297.3	293.2
20°	1498.5	1471.2	1425.7	1305.4	938.3	527.8	318.5	279.1	271.0	265.9	265.9
22.5°	1571.3	1536.9	1469.2	1250.8	697.7	337.7	271.0	261.9	255.8	248.7	247.7
25°	1645.1	1600.6	1508.6	1108.2	457.0	265.9	253.8	243.7	232.6	221.4	218.4
27.5°	1707.8	1650.1	1538.9	895.9	293.2	239.6	231.5	214.4	199.2	187.1	185.0
30°	1782.6	1708.8	1552.1	655.2	230.5	211.3	199.2	181.0	162.8	150.7	146.6
32.5°	1882.7	1801.8	1531.8	426.7	204.2	186.0	166.8	145.6	127.4	114.3	112.2
35°	2038.4	1942.4	1438.8	272.0	185.0	160.8	137.5	115.3	100.1	90.0	88.0
37.5°	2228.5	2139.5	1286.1	204.2	165.8	139.5	112.2	91.0	79.9	72.8	70.8
40°	2510.6	2386.2	1097.1	179.0	146.6	118.3	92.0	74.8	66.7	60.7	58.6
42.5°	2876.6	2677.4	879.7	162.8	128.4	99.1	74.8	61.7	54.6	50.6	49.5
45°	3304.3	2961.6	650.1	146.6	111.2	81.9	61.7	50.6	45.5	42.5	41.5
47.5°	3742.1	3210.3	448.9	129.4	95.0	67.7	51.6	43.5	39.4	35.4	34.4
50°	4209.3	3420.6	306.4	112.2	80.9	55.6	44.5	39.4	34.4	31.3	30.3
52.5°	4552.1	3498.5	213.3	97.1	68.8	47.5	39.4	35.4	31.3	27.3	26.3
55°	4868.5	3496.4	161.8	81.9	58.6	41.5	35.4	31.3	27.3	24.3	23.3
57.5°	5184.0	3469.1	127.4	69.8	50.6	37.4	31.3	27.3	25.3	21.2	20.2
60°	5388.2	3366.0	99.1	58.6	43.5	32.4	27.3	24.3	21.2	18.2	17.2
62.5°	5496.4	3222.4	75.8	46.5	35.4	28.3	24.3	21.2	18.2	15.2	14.2
65°	5349.8	2967.6	59.7	36.4	27.3	24.3	20.2	17.2	14.2	11.1	10.1
67.5°	4699.7	2502.5	46.5	29.3	21.2	18.2	17.2	14.2	10.1	8.1	7.1
70°	3321.5	1713.8	36.4	22.2	16.2	14.2	13.1	11.1	8.1	6.1	5.1
72.5°	1823.0	864.5	26.3	16.2	12.1	11.1	10.1	9.1	7.1	5.1	5.1
75°	701.7	237.6	19.2	11.1	8.1	8.1	7.1	7.1	6.1	4.0	4.0
77.5°	183.0	70.8	12.1	7.1	5.1	5.1	5.1	4.0	4.0	3.0	3.0
80°	58.6	23.3	7.1	5.1	4.0	3.0	3.0	2.0	3.0	2.0	2.0
82.5°	19.2	8.1	4.0	4.0	3.0	2.0	2.0	1.0	1.0	0.0	0.0
85°	7.1	4.0	3.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	2.0	2.0	2.0	1.0	0.0	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

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)