

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: P636511

Luminaire Tested: GWS-SA3F-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19270.8 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

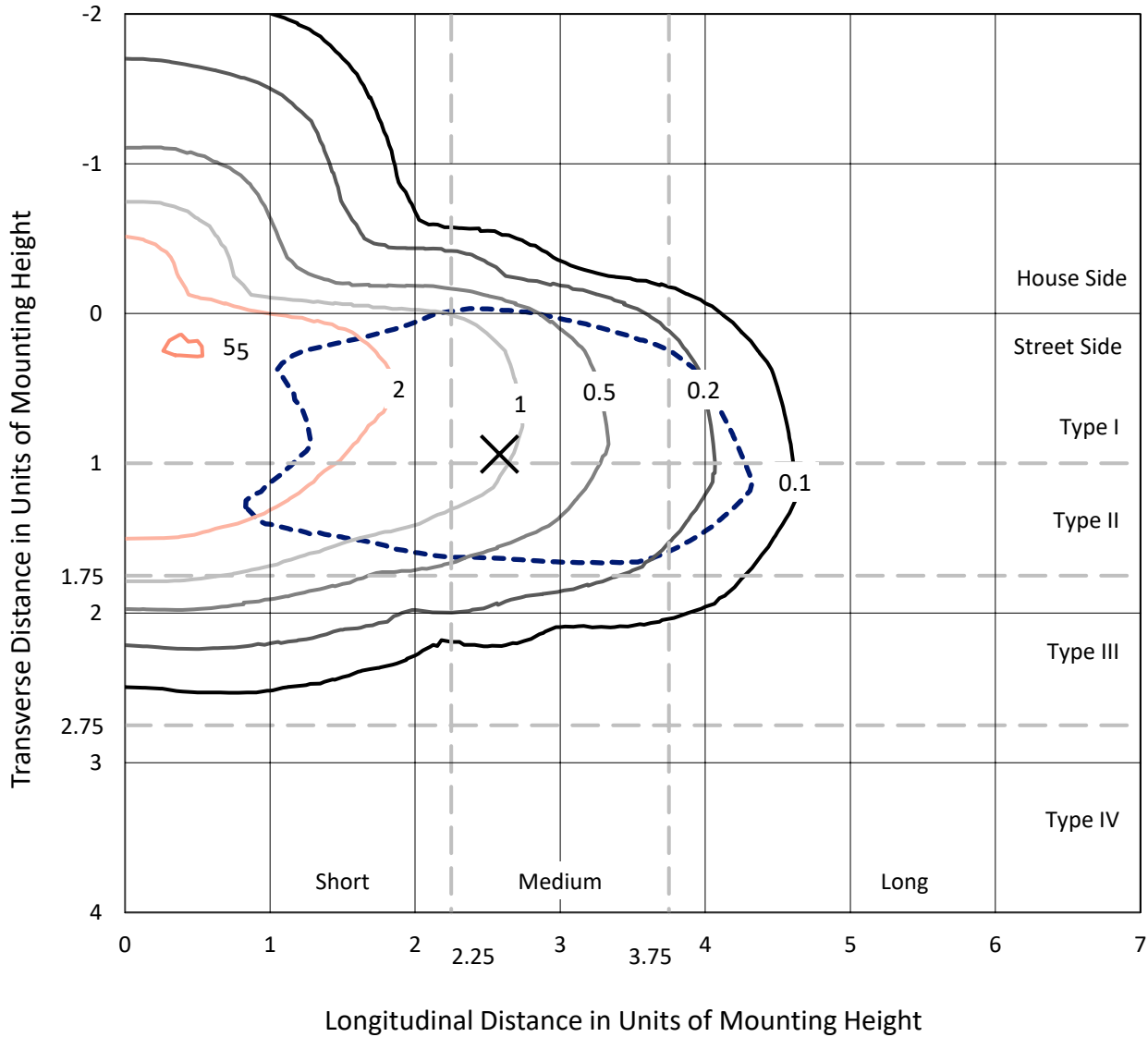
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636511
 CATALOG NUMBER: GWS-SA3F-830-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination

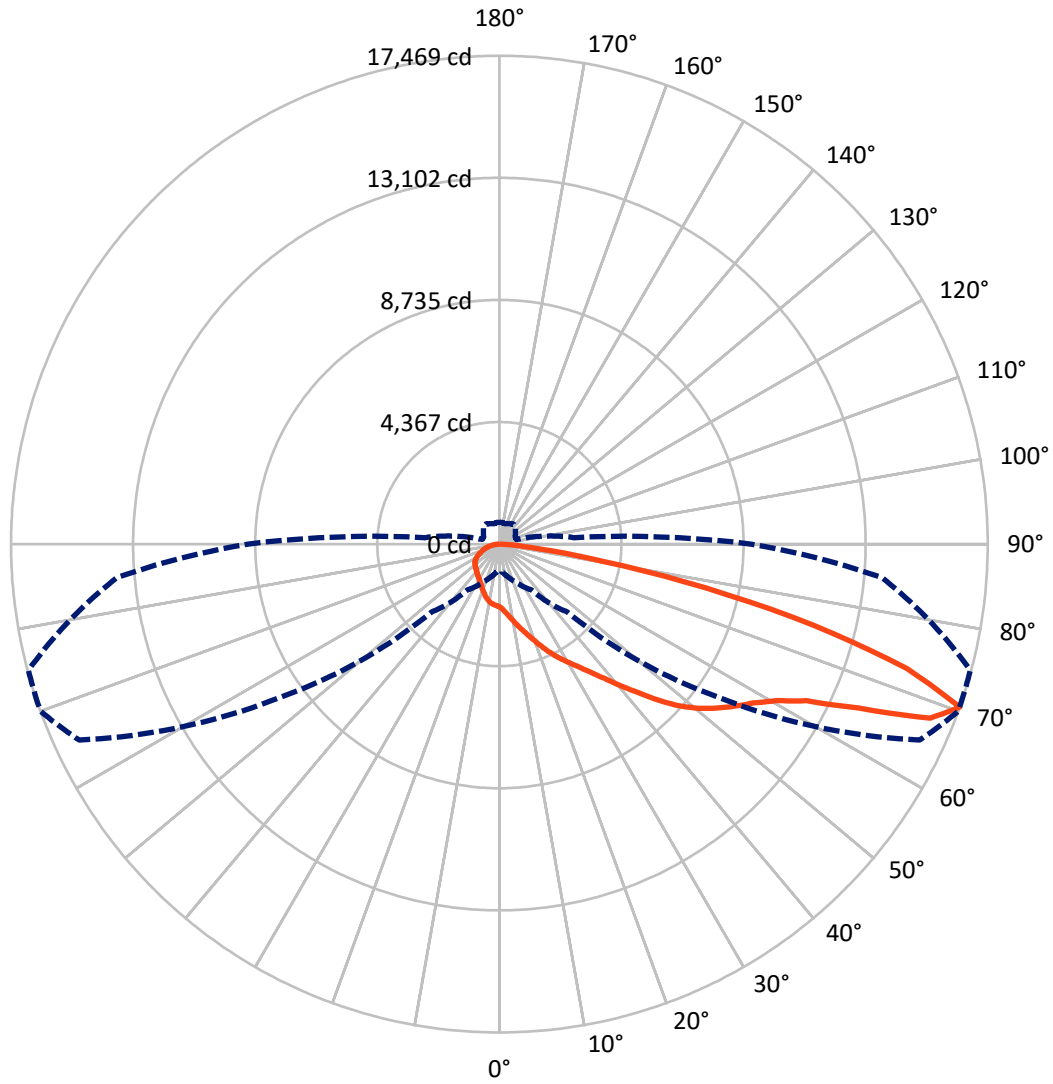
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P636511
CATALOG NUMBER: GWS-SA3F-830-U-T2-W

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA3F-830-U-T2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3453.4	0.0	3453.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	15817.4	0.0	15817.4
	% Fixture	82.1	0.0	82.1
Total	Lumens	19270.8	0.0	19270.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	1.2
10°-20°	743.1	3.9
20°-30°	1316.3	6.8
30°-40°	1981.1	10.3
40°-50°	2997.2	15.6
50°-60°	4293.7	22.3
60°-70°	4746.2	24.6
70°-80°	2678.4	13.9
80°-90°	286.5	1.5
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°	19270.8	100.0
0°-180°	19270.8	100.0

Coefficient of Utilization



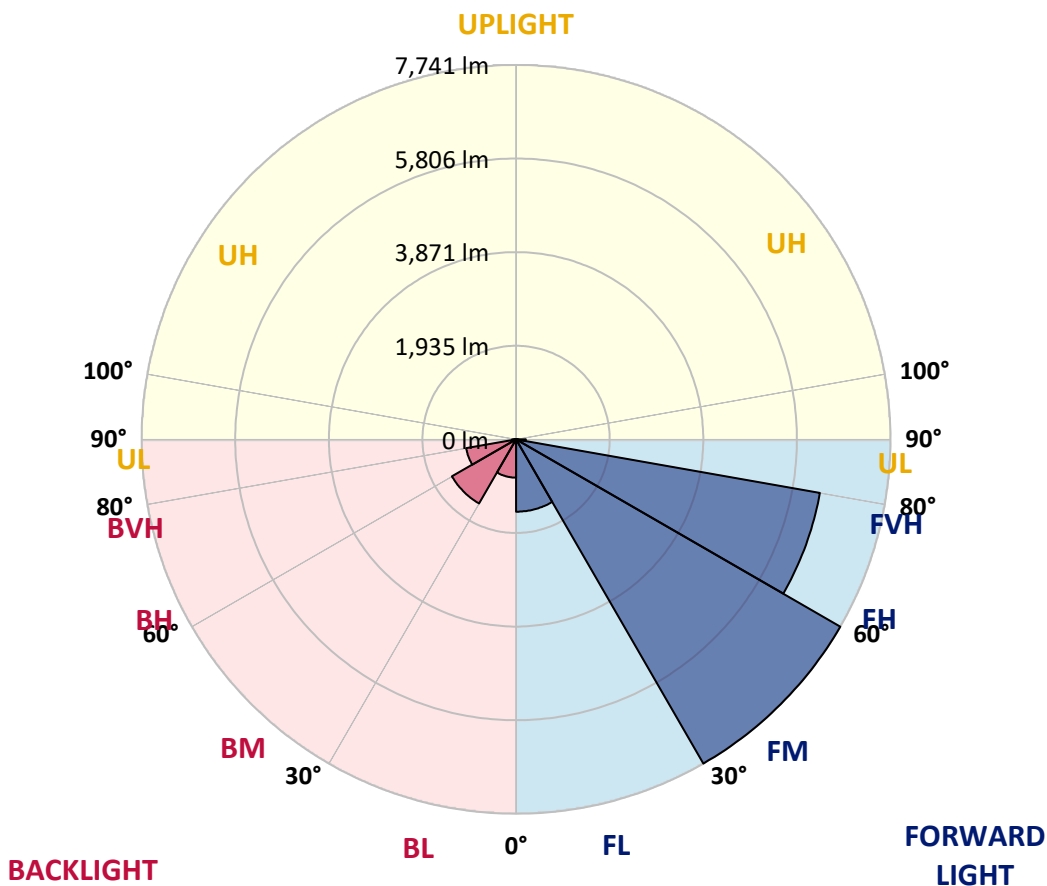
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1496.0	7.8			
FM (30°-60°)	7741.1	40.2			
FH (60°-80°)	6377.8	33.1			G3/7500
FVH (80°-90°)	202.5	1.1			G2/225
BL (0°-30°)	791.8	4.1	B2/1000		
BM (30°-60°)	1530.9	7.9	B2/2500		
BH (60°-80°)	1046.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	84.0	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4
2.5°	2489.7	2485.5	2488.3	2485.5	2470.2	2432.6	2401.9	2362.9	2336.5	2321.2	2285.0
5°	2782.1	2777.9	2768.1	2754.2	2726.4	2674.8	2598.3	2513.3	2461.8	2422.8	2346.2
7.5°	2992.3	2992.3	2990.9	2974.2	2954.7	2900.4	2809.9	2698.5	2623.3	2556.5	2431.2
10°	3099.5	3106.5	3116.2	3139.9	3135.7	3106.5	3021.6	2901.8	2807.1	2729.2	2542.6
12.5°	3158.0	3162.2	3178.9	3227.6	3277.8	3284.7	3234.6	3109.3	3006.2	2901.8	2666.5
15°	3233.2	3234.6	3256.9	3315.4	3389.2	3463.0	3450.4	3325.1	3219.3	3103.7	2804.3
17.5°	3291.7	3301.4	3341.8	3410.0	3501.9	3603.6	3664.9	3586.9	3456.0	3323.7	2954.7
20°	3312.6	3319.5	3372.5	3476.9	3602.2	3745.6	3882.1	3861.2	3728.9	3573.0	3124.6
22.5°	3387.8	3387.8	3426.8	3514.5	3662.1	3870.9	4092.3	4146.6	4029.7	3847.3	3307.0
25°	3553.5	3547.9	3566.0	3602.2	3713.6	3971.2	4299.8	4462.7	4331.8	4127.1	3489.4
27.5°	3780.4	3777.6	3776.3	3781.8	3819.4	4058.9	4475.3	4757.9	4627.0	4395.9	3652.3
30°	4026.9	4018.5	4036.6	4019.9	4011.6	4163.4	4624.2	5022.5	4920.8	4661.8	3787.4
32.5°	4362.5	4347.2	4343.0	4288.7	4255.3	4326.3	4744.0	5323.2	5242.5	4948.7	3939.2
35°	4805.3	4791.3	4720.3	4634.0	4535.1	4568.5	4893.0	5617.0	5622.6	5307.9	4138.3
37.5°	5252.2	5255.0	5199.3	4996.0	4894.4	4874.9	5119.9	5974.9	6094.6	5736.8	4395.9
40°	5624.0	5640.7	5640.7	5426.3	5274.5	5256.4	5438.8	6399.6	6637.7	6263.1	4721.7
42.5°	5906.7	5922.0	5970.7	5816.2	5656.0	5718.7	5825.9	6825.7	7253.1	6913.4	5133.9
45°	6217.2	6229.7	6256.2	6167.1	6073.8	6240.8	6264.5	7335.3	7957.7	7643.0	5612.9
47.5°	6629.3	6618.2	6621.0	6555.5	6483.1	6753.3	6747.7	7764.2	8638.6	8442.3	6132.2
50°	7141.7	7162.6	7143.1	7013.6	6928.7	7175.2	7207.2	8239.0	9237.3	9233.2	6655.8
52.5°	7634.7	7643.0	7746.1	7751.6	7577.6	7526.1	7609.6	8718.0	9742.8	9957.2	7158.5
55°	7659.7	7691.8	8000.9	8223.7	8504.9	8091.4	8016.2	9174.7	10231.5	10666.0	7680.6
57.5°	7126.4	7178.0	7702.9	8183.3	8965.8	9061.9	8712.4	9765.1	10720.3	11363.6	8284.9
60°	5987.4	6094.6	6807.6	7542.8	8758.4	9759.5	10136.9	10567.1	11362.2	12076.5	9018.7
62.5°	3823.6	3865.4	4865.1	6096.0	7824.0	9691.3	11688.0	11980.4	12339.7	13005.3	10149.4
65°	1914.6	2048.3	2634.5	3638.4	5642.1	8539.7	12472.0	14568.9	14128.9	14595.4	11981.8
67.5°	1299.1	1342.3	1638.9	2186.1	3308.4	6050.1	11986.0	16749.5	16620.0	16696.6	13935.4
70°	958.0	985.8	1219.8	1548.4	2000.9	3435.1	9542.3	16585.2	17469.4	17441.5	13730.7
72.5°	699.0	712.9	889.8	1182.2	1482.9	1776.7	5827.3	13397.9	15249.8	16053.3	12008.3
75°	508.2	524.9	618.2	884.2	1152.9	1108.4	2876.8	9677.4	11629.5	13175.1	9783.2
77.5°	378.7	399.6	442.8	554.2	807.6	793.7	1243.4	6284.0	7521.9	8605.2	5942.9
80°	272.9	277.1	302.2	355.1	512.4	465.1	591.8	3276.4	3756.8	4116.0	2329.5
82.5°	165.7	169.9	201.9	218.6	317.5	292.4	307.7	1061.0	1520.5	1613.8	870.3
85°	48.7	51.5	91.9	100.3	132.3	125.3	123.9	431.7	515.2	658.6	342.5
87.5°	0.0	0.0	0.0	0.0	1.4	8.4	15.3	76.6	115.6	160.1	83.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636511
 CATALOG NUMBER: GWS-SA3F-830-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4	2247.4
2.5°	2271.0	2239.0	2222.3	2193.1	2172.2	2151.3	2130.4	2110.9	2102.6	2090.0	2092.8
5°	2311.4	2261.3	2211.2	2154.1	2105.3	2065.0	2028.8	1996.7	1982.8	1970.3	1975.9
7.5°	2372.7	2297.5	2201.4	2097.0	2020.4	1964.7	1927.1	1904.8	1897.9	1888.1	1888.1
10°	2450.7	2337.9	2169.4	2020.4	1928.5	1884.0	1867.2	1865.8	1872.8	1874.2	1871.4
12.5°	2537.0	2376.9	2122.1	1929.9	1851.9	1838.0	1850.5	1874.2	1897.9	1910.4	1907.6
15°	2626.1	2401.9	2041.3	1843.6	1796.2	1814.3	1854.7	1902.1	1948.0	1971.7	1970.3
17.5°	2709.7	2407.5	1936.9	1760.0	1747.5	1793.4	1863.1	1936.9	1999.5	2032.9	2034.3
20°	2803.0	2397.8	1829.6	1684.8	1698.8	1773.9	1865.8	1955.0	2028.8	2062.2	2070.5
22.5°	2887.9	2364.3	1725.2	1613.8	1657.0	1750.3	1843.6	1927.1	1992.6	2024.6	2035.7
25°	2964.5	2300.3	1611.0	1553.9	1625.0	1716.9	1787.9	1846.4	1892.3	1911.8	1927.1
27.5°	3006.2	2204.2	1524.7	1506.6	1594.3	1669.5	1708.5	1726.6	1741.9	1736.4	1747.5
30°	3014.6	2084.5	1449.5	1469.0	1548.4	1604.1	1612.4	1594.3	1567.9	1524.7	1534.5
32.5°	3006.2	1946.6	1386.9	1428.6	1496.9	1530.3	1519.1	1471.8	1407.7	1340.9	1345.1
35°	3009.0	1807.4	1335.3	1384.1	1437.0	1455.1	1427.2	1361.8	1293.6	1232.3	1229.5
37.5°	3039.7	1690.4	1292.2	1340.9	1378.5	1381.3	1350.7	1282.4	1247.6	1201.7	1196.1
40°	3124.6	1604.1	1253.2	1297.7	1321.4	1320.0	1285.2	1236.5	1260.1	1244.8	1240.7
42.5°	3263.8	1551.2	1221.2	1251.8	1268.5	1271.3	1243.4	1212.8	1264.3	1244.8	1237.9
45°	3488.0	1548.4	1198.9	1205.8	1232.3	1251.8	1232.3	1197.5	1217.0	1122.3	1104.2
47.5°	3754.0	1595.7	1182.2	1165.5	1211.4	1246.2	1215.6	1159.9	1119.5	1033.2	1020.6
50°	4074.2	1691.8	1166.9	1122.3	1180.8	1225.3	1194.7	1118.1	1056.9	1010.9	1003.9
52.5°	4454.4	1818.5	1147.4	1073.6	1134.8	1214.2	1194.7	1113.9	1033.2	991.4	984.4
55°	4852.6	1964.7	1125.1	1015.1	1083.3	1217.0	1204.4	1084.7	1015.1	992.8	987.2
57.5°	5346.9	2140.2	1084.7	946.8	1037.4	1191.9	1165.5	1068.0	1002.5	984.4	978.9
60°	5988.8	2400.5	1008.1	877.2	984.4	1147.4	1130.6	1040.1	969.1	953.8	949.6
62.5°	7005.3	2841.9	914.8	810.4	921.8	1054.1	1079.1	987.2	927.4	926.0	924.6
65°	8662.3	3372.5	804.8	750.5	856.3	977.5	1010.9	932.9	884.2	899.5	898.1
67.5°	9823.6	3418.4	714.3	687.9	779.8	893.9	942.7	877.2	824.3	853.6	852.2
70°	8997.9	2666.5	636.3	622.4	697.6	803.4	868.9	807.6	754.7	782.5	777.0
72.5°	7588.7	2044.1	562.5	554.2	614.1	708.7	774.2	738.0	682.3	682.3	669.8
75°	6098.8	1686.2	484.6	480.4	520.8	612.7	686.5	625.2	573.7	570.9	562.5
77.5°	3497.8	1105.6	406.6	403.8	416.3	512.4	533.3	520.8	481.8	463.7	458.1
80°	1393.8	575.1	320.3	302.2	314.7	376.0	420.5	399.6	366.2	343.9	331.4
82.5°	540.3	288.2	225.6	197.7	215.8	271.5	304.9	298.0	275.7	225.6	211.6
85°	220.0	140.6	135.1	114.2	125.3	146.2	175.4	151.8	125.3	89.1	84.9
87.5°	58.5	51.5	50.1	30.6	23.7	7.0	1.4	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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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)