

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: P635493

Luminaire Tested: GWS-SA3D-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-830-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12682.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

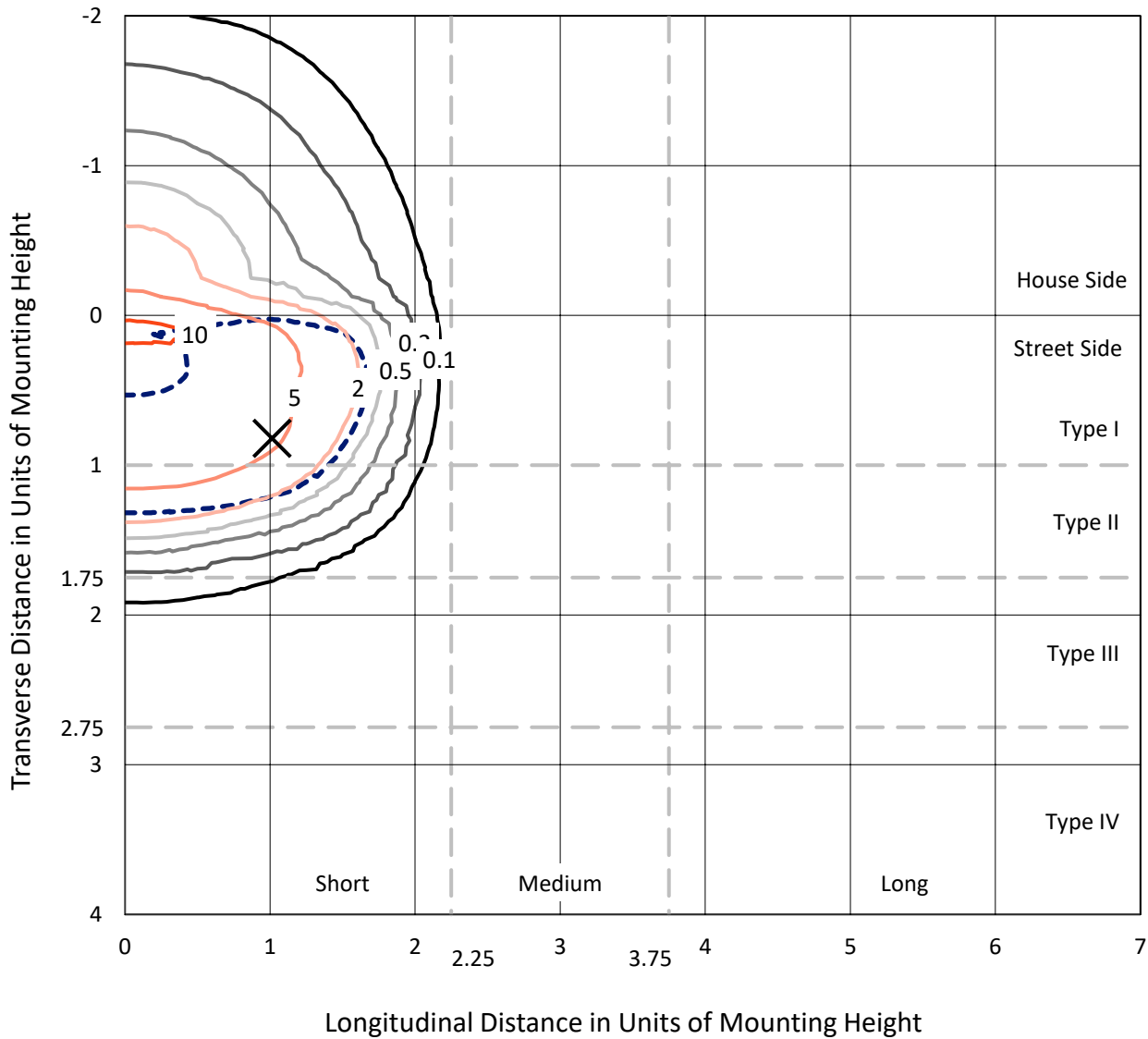
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635493
 CATALOG NUMBER: GWS-SA3D-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

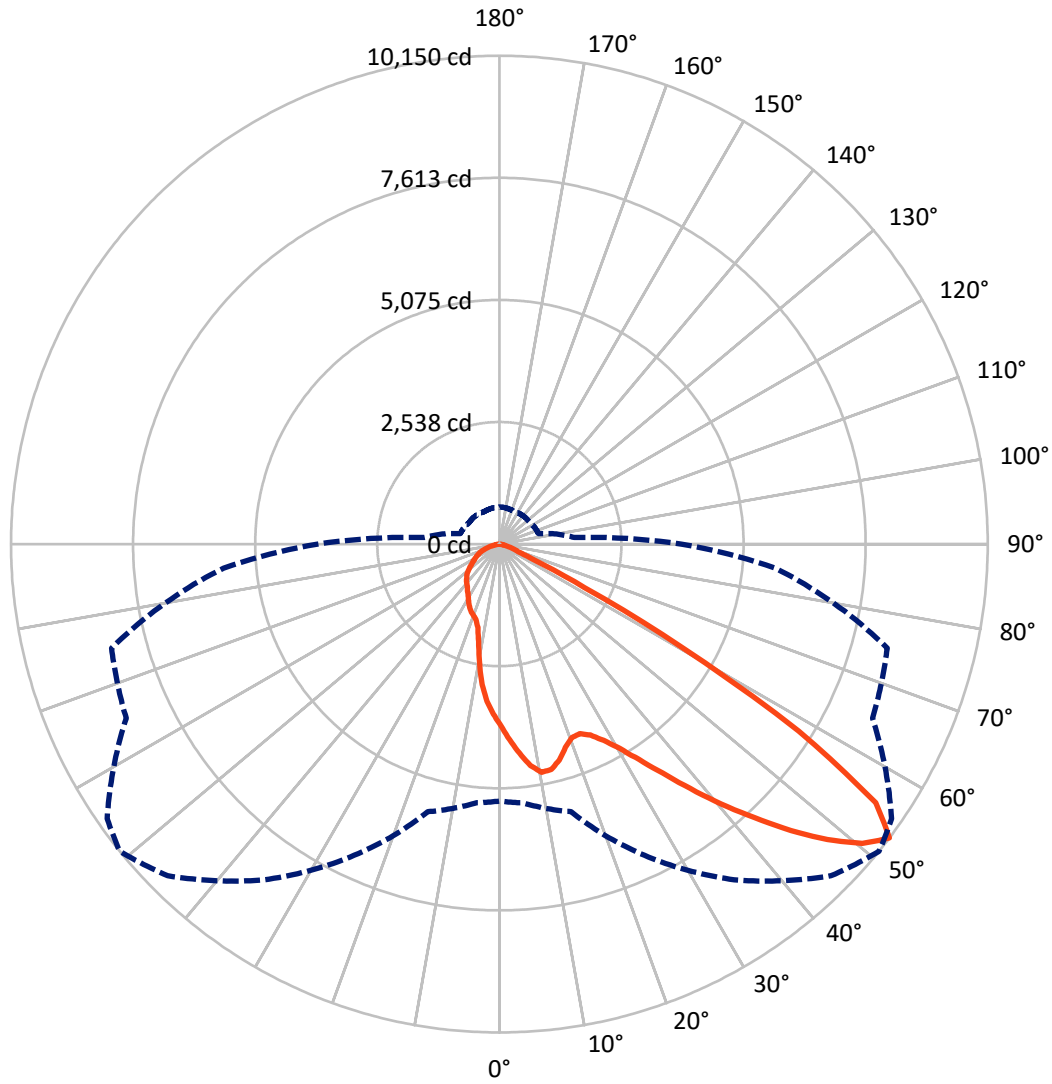
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

REPORT NUMBER: P635493
CATALOG NUMBER: GWS-SA3D-830-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P635493

CATALOG NUMBER: GWS-SA3D-830-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2471.1	0.0	2471.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10211.4	0.0	10211.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	12682.5	0.0	12682.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	2.8
10°-20°	915.6	7.2
20°-30°	1488.7	11.7
30°-40°	2359.3	18.6
40°-50°	3558.3	28.1
50°-60°	3078.2	24.3
60°-70°	697.8	5.5
70°-80°	205.8	1.6
80°-90°	26.5	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°	12682.5	100.0
0°-180°	12682.5	100.0

Coefficient of Utilization



REPORT NUMBER: P635493

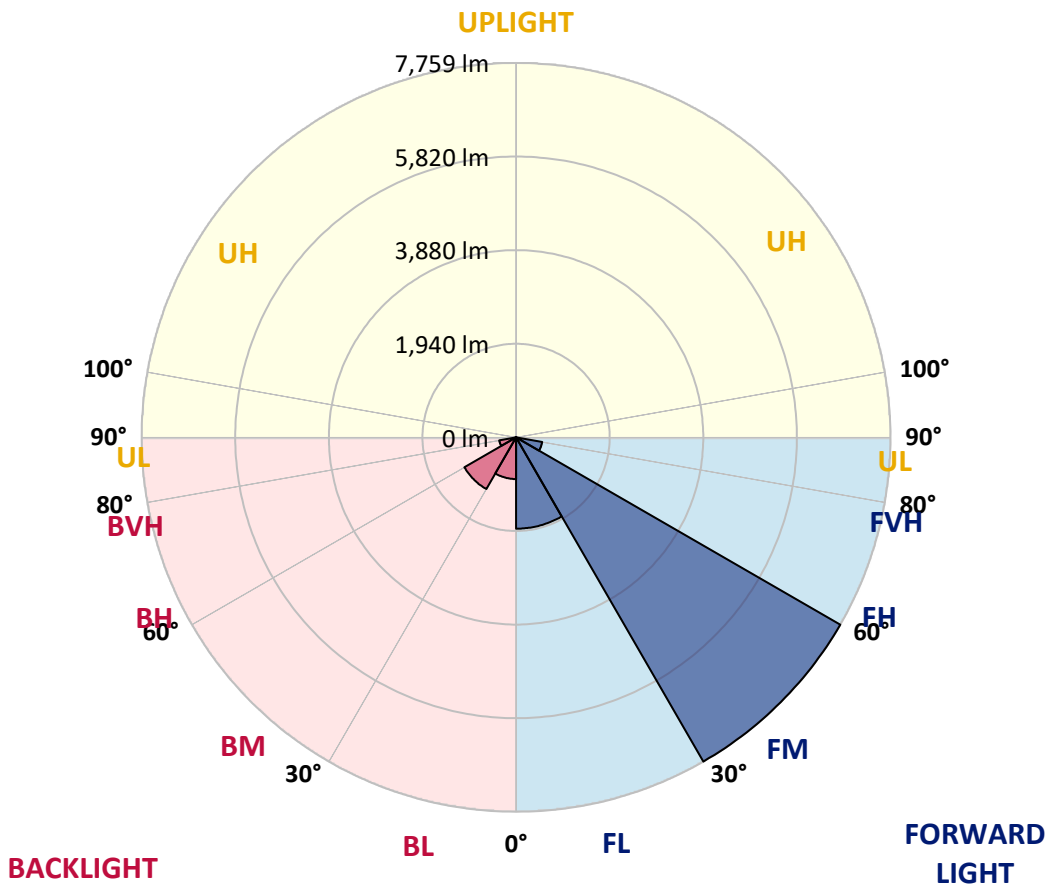
CATALOG NUMBER: GWS-SA3D-830-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.9	14.9			
FM (30°-60°)	7759.3	61.2			
FH (60°-80°)	549.2	4.3			G0/660
FVH (80°-90°)	10.0	0.1			G0/10
BL (0°-30°)	863.8	6.8	B2/1000		
BM (30°-60°)	1236.4	9.7	B2/2500		
BH (60°-80°)	354.4	2.8	B1/500		G1/500
BVH (80°-90°)	16.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P635493

CATALOG NUMBER: GWS-SA3D-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2
2.5°	4208.2	4232.2	4195.1	4181.1	4158.0	4118.0	4071.9	4058.8	3959.6	3894.5	3821.3
5°	4631.1	4644.1	4614.0	4584.0	4526.8	4455.7	4366.5	4347.5	4167.1	4017.7	3862.4
7.5°	4725.3	4720.3	4746.3	4763.4	4756.3	4728.3	4649.1	4612.0	4396.6	4160.0	3930.5
10°	4352.5	4324.4	4420.6	4534.9	4672.2	4830.5	4821.5	4818.5	4631.1	4351.5	4017.7
12.5°	3858.4	3844.4	3922.5	4065.8	4325.4	4676.2	4807.5	4909.7	4842.5	4533.9	4114.9
15°	3575.8	3570.8	3623.9	3727.1	3933.6	4376.5	4657.1	4859.6	5023.9	4729.3	4218.2
17.5°	3524.7	3527.7	3545.7	3604.8	3753.2	4118.0	4442.7	4725.3	5165.2	4943.8	4347.5
20°	3674.0	3694.0	3663.0	3672.0	3752.2	4024.8	4296.3	4590.0	5255.4	5159.2	4486.8
22.5°	4005.7	3998.7	3930.5	3890.5	3891.5	4081.9	4280.3	4526.8	5314.6	5368.7	4613.0
25°	4381.5	4373.5	4292.3	4203.1	4147.0	4237.2	4395.6	4594.0	5367.7	5560.1	4714.3
27.5°	4825.5	4800.4	4710.2	4596.0	4471.7	4510.8	4618.0	4775.4	5449.9	5748.5	4781.4
30°	5255.4	5284.5	5155.2	5019.9	4888.6	4864.6	4926.7	5069.0	5617.2	5969.0	4861.6
32.5°	5825.7	5815.6	5672.3	5496.0	5308.5	5290.5	5339.6	5469.9	5917.9	6273.6	4983.8
35°	6516.2	6518.2	6314.7	6076.2	5809.6	5761.5	5843.7	5970.0	6365.8	6686.5	5177.3
37.5°	7233.7	7230.7	7053.3	6782.8	6419.0	6350.8	6445.0	6539.2	6926.1	7248.8	5477.9
40°	7736.8	7756.9	7673.7	7531.4	7186.6	7020.3	7103.4	7168.6	7535.4	7910.2	5873.8
42.5°	8022.4	8052.5	8070.6	8155.7	7974.3	7797.0	7766.9	7801.0	8079.6	8524.5	6245.6
45°	8083.6	8123.7	8255.0	8570.6	8640.8	8590.7	8492.5	8410.3	8485.5	8960.5	6489.1
47.5°	7814.0	7884.1	8164.8	8717.0	9126.9	9284.2	9175.0	9049.7	8720.0	9072.7	6464.1
50°	6745.7	6827.9	7460.2	8418.3	9196.0	9769.2	9779.3	9593.9	8691.9	8749.0	6149.4
52.5°	5340.6	5396.7	5758.5	7136.5	8517.5	9749.2	10150.1	9951.6	8556.6	8344.1	5755.5
55°	3191.9	3282.1	3619.9	4708.2	6635.4	8640.8	9494.7	9590.9	8490.5	8004.4	5486.9
57.5°	1077.3	1121.4	1444.1	2079.5	3910.5	6326.8	7336.0	7726.8	7707.8	7485.3	4962.8
60°	513.1	523.1	588.3	788.7	1565.4	3306.2	4342.4	4793.4	5204.3	5245.4	3087.7
62.5°	390.9	396.9	429.9	473.0	629.4	1393.0	1990.3	2335.1	2494.4	2140.7	1124.4
65°	326.7	331.7	356.8	383.8	427.9	603.3	763.7	880.9	793.7	618.3	536.2
67.5°	272.6	276.6	295.6	324.7	354.8	403.9	423.9	435.9	457.0	513.1	493.1
70°	213.5	217.5	237.5	262.6	291.6	303.7	322.7	334.7	376.8	449.0	447.0
72.5°	164.4	169.4	180.4	196.4	220.5	232.5	253.6	267.6	291.6	349.8	373.8
75°	120.3	123.3	133.3	138.3	141.3	138.3	159.3	175.4	207.5	229.5	235.5
77.5°	49.1	55.1	53.1	53.1	63.1	76.2	87.2	97.2	119.3	132.3	133.3
80°	20.0	22.0	26.1	29.1	35.1	45.1	52.1	56.1	66.1	74.2	80.2
82.5°	12.0	13.0	15.0	16.0	20.0	26.1	30.1	33.1	41.1	49.1	52.1
85°	6.0	6.0	7.0	8.0	10.0	12.0	14.0	16.0	21.0	26.1	29.1
87.5°	1.0	1.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	10.0
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: P635493

CATALOG NUMBER: GWS-SA3D-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2	3776.2
2.5°	3778.2	3724.1	3661.0	3610.9	3552.7	3509.6	3448.5	3410.4	3374.3	3344.3	3322.2
5°	3782.2	3691.0	3559.7	3443.5	3323.2	3209.0	3091.7	2996.5	2911.3	2840.2	2834.2
7.5°	3805.3	3674.0	3468.5	3265.1	3030.6	2804.1	2577.6	2393.2	2252.9	2179.7	2164.7
10°	3844.4	3672.0	3375.3	3050.6	2650.8	2286.0	2017.4	1877.1	1795.9	1766.8	1756.8
12.5°	3885.5	3667.0	3256.1	2748.0	2192.8	1873.1	1725.8	1708.7	1723.7	1725.8	1724.8
15°	3935.6	3664.0	3105.8	2393.2	1858.0	1681.7	1691.7	1727.8	1762.8	1770.9	1770.9
17.5°	3996.7	3657.0	2901.3	2046.5	1648.6	1644.6	1697.7	1745.8	1778.9	1784.9	1784.9
20°	4060.8	3638.9	2649.8	1763.8	1563.4	1621.5	1678.7	1715.7	1738.8	1746.8	1747.8
22.5°	4104.9	3590.8	2360.1	1554.4	1510.3	1577.4	1618.5	1656.6	1656.6	1636.6	1630.5
25°	4113.9	3487.6	2046.5	1411.1	1447.1	1509.3	1551.4	1529.3	1488.2	1472.2	1471.2
27.5°	4080.9	3337.3	1736.8	1308.8	1371.0	1433.1	1426.1	1394.0	1376.0	1360.0	1366.0
30°	4040.8	3156.9	1468.2	1224.7	1282.8	1343.9	1319.9	1308.8	1295.8	1277.8	1281.8
32.5°	4013.7	2955.4	1261.7	1159.5	1223.7	1233.7	1250.7	1249.7	1237.7	1203.6	1201.6
35°	4021.7	2752.0	1123.4	1106.4	1174.6	1170.5	1202.6	1196.6	1113.4	1066.3	1063.3
37.5°	4085.9	2556.6	1042.3	1064.3	1096.4	1121.4	1149.5	1077.3	1048.3	1018.2	1020.2
40°	4208.2	2375.2	998.2	1041.3	1049.3	1086.4	1021.2	1020.2	1007.2	980.1	979.1
42.5°	4346.5	2221.8	968.1	1030.2	1019.2	1026.2	957.1	965.1	964.1	947.1	942.0
45°	4430.6	2080.5	944.1	989.2	992.2	922.0	901.0	910.0	915.0	906.0	905.0
47.5°	4343.4	1918.2	919.0	926.0	952.1	874.9	848.8	849.8	858.9	859.9	855.9
50°	4098.9	1736.8	888.9	871.9	854.9	825.8	801.7	796.7	805.8	814.8	817.8
52.5°	3783.2	1563.4	838.8	812.8	772.7	772.7	761.7	745.6	757.6	769.7	773.7
55°	3551.7	1435.1	767.7	738.6	694.5	709.5	707.5	693.5	709.5	718.6	721.6
57.5°	3077.7	1153.5	675.5	666.4	629.4	647.4	651.4	633.4	625.4	627.4	630.4
60°	1827.0	744.6	609.3	608.3	575.3	596.3	608.3	590.3	566.2	569.2	573.2
62.5°	819.8	569.2	526.1	522.1	521.1	548.2	561.2	544.2	510.1	513.1	517.1
65°	516.1	492.1	457.0	457.0	473.0	496.1	506.1	492.1	453.0	448.0	452.0
67.5°	479.0	458.0	421.9	414.9	422.9	442.0	443.0	415.9	392.9	388.8	388.8
70°	429.9	413.9	378.8	364.8	361.8	360.8	357.8	350.8	335.7	331.7	333.7
72.5°	355.8	344.7	322.7	307.7	299.7	298.6	286.6	280.6	267.6	265.6	264.6
75°	235.5	238.5	238.5	236.5	229.5	226.5	213.5	207.5	192.4	186.4	185.4
77.5°	139.3	142.3	146.3	147.3	146.3	146.3	134.3	127.3	112.2	104.2	102.2
80°	85.2	87.2	89.2	92.2	88.2	85.2	74.2	67.1	60.1	55.1	54.1
82.5°	55.1	57.1	58.1	60.1	58.1	54.1	45.1	41.1	36.1	32.1	31.1
85°	31.1	32.1	34.1	34.1	31.1	28.1	23.1	20.0	17.0	15.0	15.0
87.5°	11.0	11.0	11.0	12.0	10.0	9.0	6.0	4.0	3.0	3.0	3.0
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)