

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: P637486

Luminaire Tested: GWS-SA4C-830-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15109.2 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

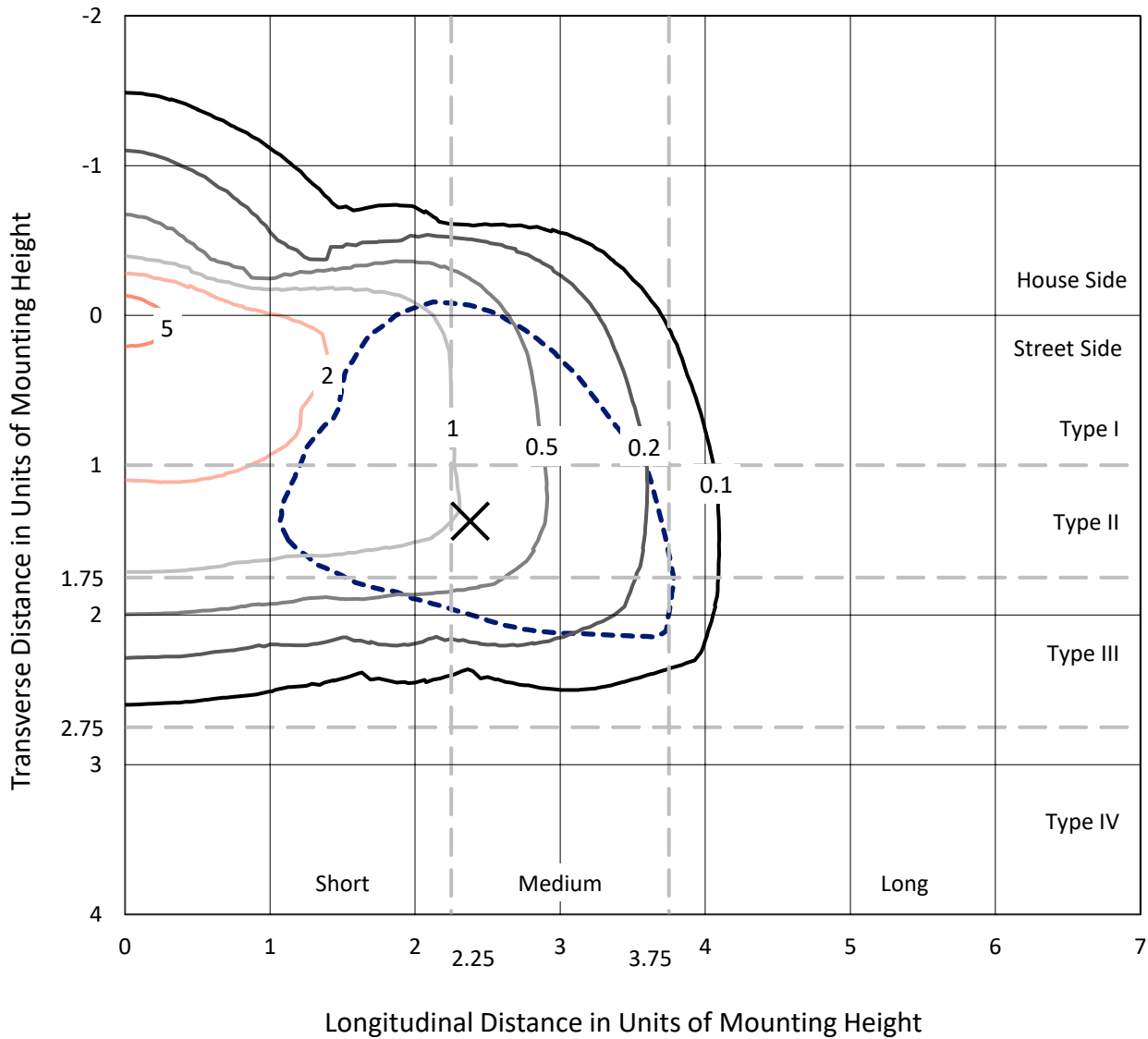
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637486
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Iso-Footcandle Lines of Horizontal Illumination

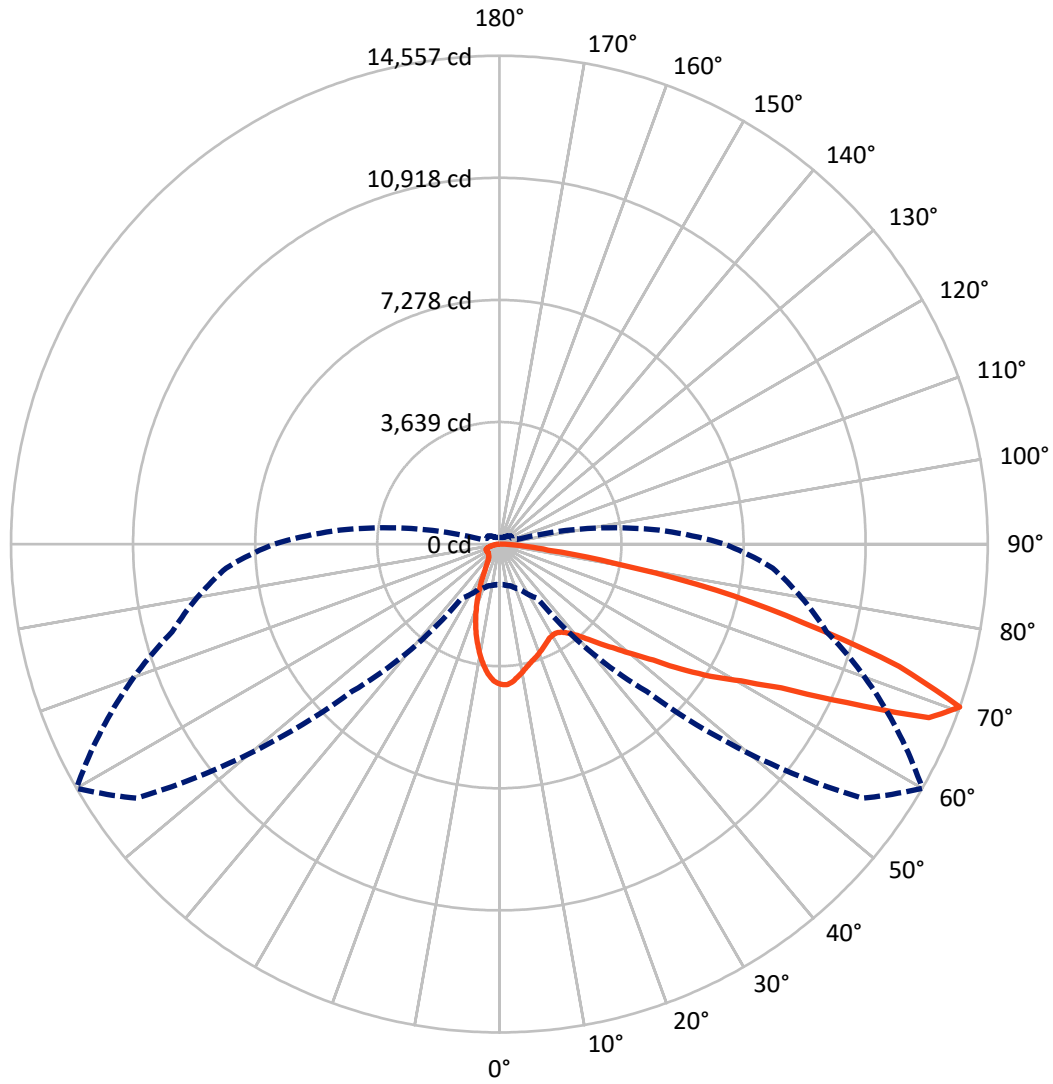
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GWS-SA4C-830-U-SL3-W

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2584.0	0.0	2584.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12525.2	0.0	12525.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	15109.2	0.0	15109.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	2.4
10°-20°	807.4	5.3
20°-30°	1034.0	6.8
30°-40°	1358.9	9.0
40°-50°	1971.5	13.0
50°-60°	3076.0	20.4
60°-70°	4027.1	26.7
70°-80°	2226.9	14.7
80°-90°	247.1	1.6
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°	15109.2	100.0
0°-180°	15109.2	100.0

Coefficient of Utilization



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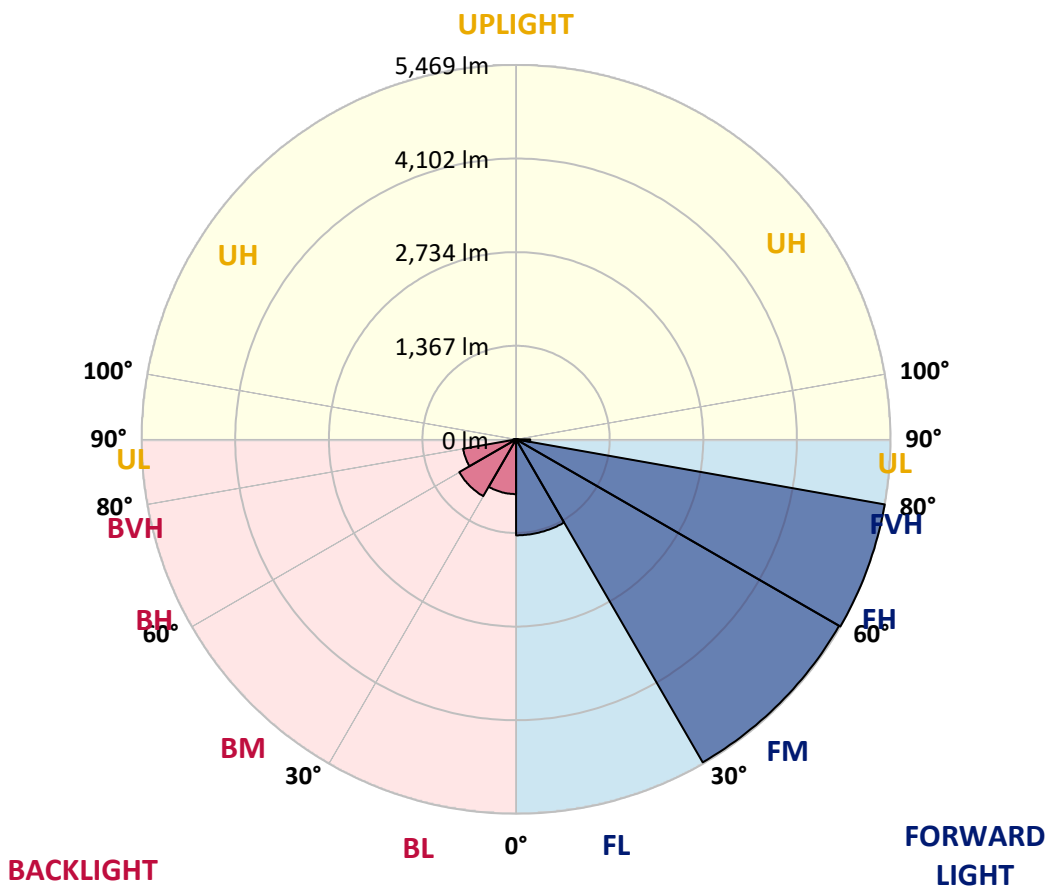
CATALOG NUMBER: GWS-SA4C-830-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1402.2	9.3			
FM (30°-60°)	5448.3	36.1			
FH (60°-80°)	5468.7	36.2			G3/7500
FVH (80°-90°)	205.9	1.4			G2/225
BL (0°-30°)	799.5	5.3	B2/1000		
BM (30°-60°)	958.1	6.3	B1/1000		
BH (60°-80°)	785.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	41.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9
2.5°	4122.3	4126.7	4138.9	4156.6	4174.3	4183.1	4205.2	4198.6	4194.2	4185.3	4174.3
5°	3939.9	3948.8	3959.8	3994.1	4032.8	4063.7	4113.5	4119.0	4121.2	4125.6	4107.9
7.5°	3707.8	3710.0	3736.5	3781.8	3832.7	3885.7	3968.7	3991.9	4011.8	4033.9	4019.5
10°	3451.3	3456.8	3476.7	3541.9	3629.3	3707.8	3819.4	3858.1	3900.1	3948.8	3928.9
12.5°	3241.3	3242.4	3274.4	3344.1	3439.1	3545.3	3684.6	3731.0	3786.3	3862.5	3844.8
15°	3074.3	3074.3	3104.2	3163.9	3273.3	3398.2	3564.1	3623.8	3698.9	3801.7	3770.8
17.5°	2941.7	2942.8	2961.6	3024.6	3121.9	3260.0	3456.8	3537.5	3620.4	3756.4	3710.0
20°	2872.0	2866.5	2869.8	2908.5	2991.4	3125.2	3349.6	3443.6	3555.2	3725.5	3654.7
22.5°	2868.7	2858.8	2844.4	2847.7	2896.3	3006.9	3234.6	3348.5	3488.9	3700.0	3598.3
25°	2925.1	2914.0	2888.6	2859.9	2855.4	2921.8	3126.3	3255.6	3420.3	3689.0	3544.2
27.5°	3020.2	3012.4	2979.3	2936.1	2890.8	2888.6	3044.5	3179.3	3370.6	3700.0	3505.5
30°	3146.2	3132.9	3111.9	3056.6	2988.1	2917.4	3012.4	3138.4	3337.4	3735.4	3488.9
32.5°	3288.8	3281.1	3261.2	3205.9	3132.9	3020.2	3037.8	3147.3	3337.4	3797.3	3492.2
35°	3440.2	3439.1	3439.1	3402.7	3322.0	3181.6	3138.4	3222.5	3388.3	3896.8	3527.6
37.5°	3587.3	3586.2	3621.5	3634.8	3543.1	3391.6	3309.8	3372.8	3499.9	4043.8	3614.9
40°	3706.7	3711.1	3788.5	3854.8	3803.9	3663.5	3548.6	3580.6	3681.2	4252.8	3767.5
42.5°	3827.2	3839.3	3955.4	4072.6	4092.5	3970.9	3854.8	3873.6	3941.0	4529.1	3995.2
45°	3958.7	3964.2	4126.7	4290.4	4386.5	4314.7	4219.6	4245.0	4260.5	4870.7	4334.6
47.5°	4085.8	4100.2	4310.3	4534.7	4717.1	4710.4	4657.4	4649.6	4652.9	5286.4	4735.9
50°	4259.4	4280.4	4526.9	4797.8	5065.3	5188.0	5203.5	5144.9	5120.6	5748.5	5235.5
52.5°	4588.8	4588.8	4809.9	5076.3	5435.6	5739.6	5843.5	5747.4	5670.0	6237.1	5766.2
55°	5001.2	5018.9	5194.6	5410.2	5865.7	6320.0	6671.5	6565.4	6346.5	6768.8	6322.2
57.5°	5184.7	5206.8	5485.4	5820.3	6428.3	6980.0	7467.5	7429.9	7110.4	7321.6	6899.3
60°	4853.0	4899.5	5283.1	5844.7	6938.0	8044.6	8388.4	8278.9	7822.3	7901.9	7525.0
62.5°	4048.3	4099.1	4524.7	5308.5	6867.2	9195.4	9839.8	9436.3	8711.2	8634.9	8358.5
65°	2415.5	2413.3	2925.1	3964.2	5995.0	9514.8	12137.0	11384.2	10084.2	9640.9	9216.4
67.5°	1535.5	1532.2	1639.4	2100.4	3989.7	8732.2	13613.9	13809.6	11949.1	10380.4	9287.1
70°	1211.6	1210.5	1287.9	1497.9	1973.3	6213.9	13202.7	14556.9	13075.6	10098.5	8177.2
72.5°	883.3	885.5	1004.9	1254.7	1522.2	3119.7	10691.1	12455.4	12026.5	8914.6	6638.4
75°	634.5	637.9	709.7	960.7	1404.0	1705.7	7109.3	9365.6	9150.0	7145.8	4566.7
77.5°	403.5	407.9	470.9	673.2	1134.2	1377.4	4310.3	6611.9	6087.9	4026.1	1623.9
80°	246.5	260.9	314.0	501.9	906.5	1033.6	2154.6	3483.4	3048.9	1104.4	546.1
82.5°	127.1	138.2	189.0	310.6	624.6	907.6	1219.3	1463.7	944.1	462.1	290.7
85°	39.8	46.4	66.3	126.0	297.4	562.7	807.0	727.4	433.3	217.8	134.9
87.5°	9.9	9.9	11.1	11.1	12.2	25.4	155.9	164.7	115.0	68.5	55.3
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°	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9	4180.9
2.5°	4152.2	4125.6	4114.6	4113.5	4085.8	4046.0	4019.5	4000.7	3989.7	3987.5	3987.5
5°	4078.1	4043.8	3998.5	3964.2	3890.2	3815.0	3752.0	3716.6	3675.7	3670.2	3669.1
7.5°	3979.7	3930.0	3843.7	3747.6	3618.2	3493.3	3387.2	3315.3	3243.5	3230.2	3225.8
10°	3873.6	3806.2	3659.1	3490.0	3296.5	3109.7	2947.2	2820.1	2736.1	2676.4	2665.3
12.5°	3768.6	3679.0	3463.5	3211.4	2946.1	2690.7	2446.4	2238.6	2088.2	2000.9	1985.4
15°	3670.2	3545.3	3250.1	2928.4	2583.5	2234.2	1888.2	1618.4	1407.3	1332.1	1314.4
17.5°	3580.6	3424.8	3043.4	2635.5	2205.4	1748.9	1355.3	1115.4	991.6	954.0	945.2
20°	3491.1	3301.0	2833.3	2327.0	1804.1	1292.3	990.5	877.7	831.3	816.9	812.5
22.5°	3394.9	3165.0	2604.5	2023.0	1398.4	967.3	810.3	760.6	746.2	747.3	746.2
25°	3298.7	3026.8	2364.6	1692.5	1041.4	784.9	707.5	688.7	692.0	702.0	704.2
27.5°	3219.1	2904.1	2129.1	1329.9	813.6	675.4	639.0	637.9	650.0	663.3	665.5
30°	3161.7	2794.6	1897.0	1022.6	669.9	600.3	585.9	592.5	606.9	616.9	620.2
32.5°	3120.8	2700.7	1649.4	803.7	587.0	547.2	540.6	547.2	556.1	566.0	568.2
35°	3106.4	2632.1	1406.2	655.5	530.6	508.5	504.1	507.4	511.8	517.4	519.6
37.5°	3138.4	2597.9	1151.9	570.4	496.4	483.1	476.5	474.2	475.4	477.6	478.7
40°	3233.5	2613.3	944.1	520.7	474.2	462.1	451.0	446.6	445.5	447.7	446.6
42.5°	3397.1	2678.6	793.7	491.9	456.6	438.9	426.7	422.3	422.3	427.8	427.8
45°	3637.0	2806.8	685.4	470.9	441.1	419.0	405.7	403.5	407.9	416.8	417.9
47.5°	3988.6	2994.7	620.2	455.5	426.7	401.3	388.0	386.9	395.8	410.1	411.2
50°	4405.3	3265.6	584.8	444.4	416.8	386.9	373.7	374.8	384.7	400.2	403.5
52.5°	4907.2	3634.8	587.0	440.0	411.2	378.1	364.8	362.6	372.5	388.0	391.3
55°	5425.7	4083.6	630.1	441.1	403.5	373.7	356.0	348.2	357.1	368.1	369.2
57.5°	5996.1	4589.9	737.4	438.9	393.5	369.2	348.2	330.5	336.1	342.7	346.0
60°	6639.5	5185.8	968.4	443.3	389.1	359.3	332.7	309.5	308.4	312.8	314.0
62.5°	7499.6	5996.1	1228.2	451.0	399.1	347.1	309.5	285.2	280.8	283.0	284.1
65°	8157.3	6383.0	1146.4	444.4	420.1	338.3	287.4	262.0	253.2	250.9	250.9
67.5°	7889.8	5871.2	798.2	426.7	430.0	339.4	269.7	237.7	226.6	221.1	220.0
70°	6713.6	4769.0	554.9	409.0	419.0	337.2	250.9	217.8	203.4	195.7	194.6
72.5°	5304.1	3641.4	448.8	373.7	380.3	304.0	223.3	195.7	183.5	173.6	173.6
75°	3413.7	2222.0	374.8	332.7	310.6	236.6	193.5	174.7	162.5	152.6	152.6
77.5°	1148.6	824.7	290.7	281.9	232.2	178.0	162.5	150.3	140.4	131.6	130.4
80°	466.5	391.3	213.4	213.4	162.5	136.0	127.1	121.6	115.0	103.9	103.9
82.5°	270.8	237.7	149.2	129.3	108.3	94.0	88.4	82.9	82.9	75.2	75.2
85°	130.4	131.6	89.5	79.6	61.9	54.2	52.0	48.6	47.5	43.1	42.0
87.5°	70.8	71.9	45.3	35.4	24.3	21.0	17.7	16.6	15.5	14.4	14.4
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
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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



CCT = 3050K
 CIE x = 0.4383
 CIE y = 0.4131
 Duv = 0.0034

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)