

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: P635506

Luminaire Tested: GWS-SA3D-830-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635506
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-SA3D-830-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13697.7 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

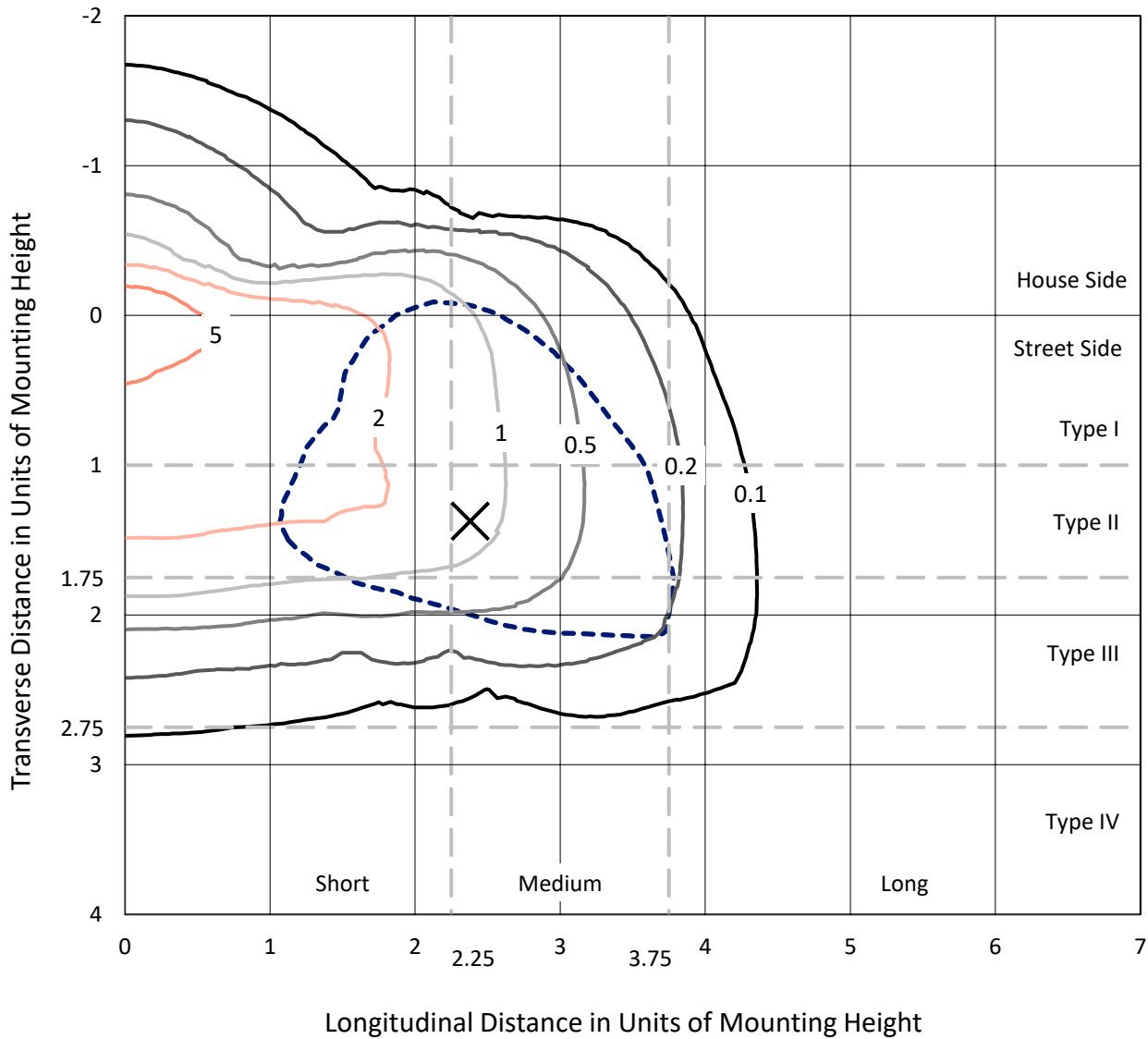
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635506
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Iso-Footcandle Lines of Horizontal Illumination

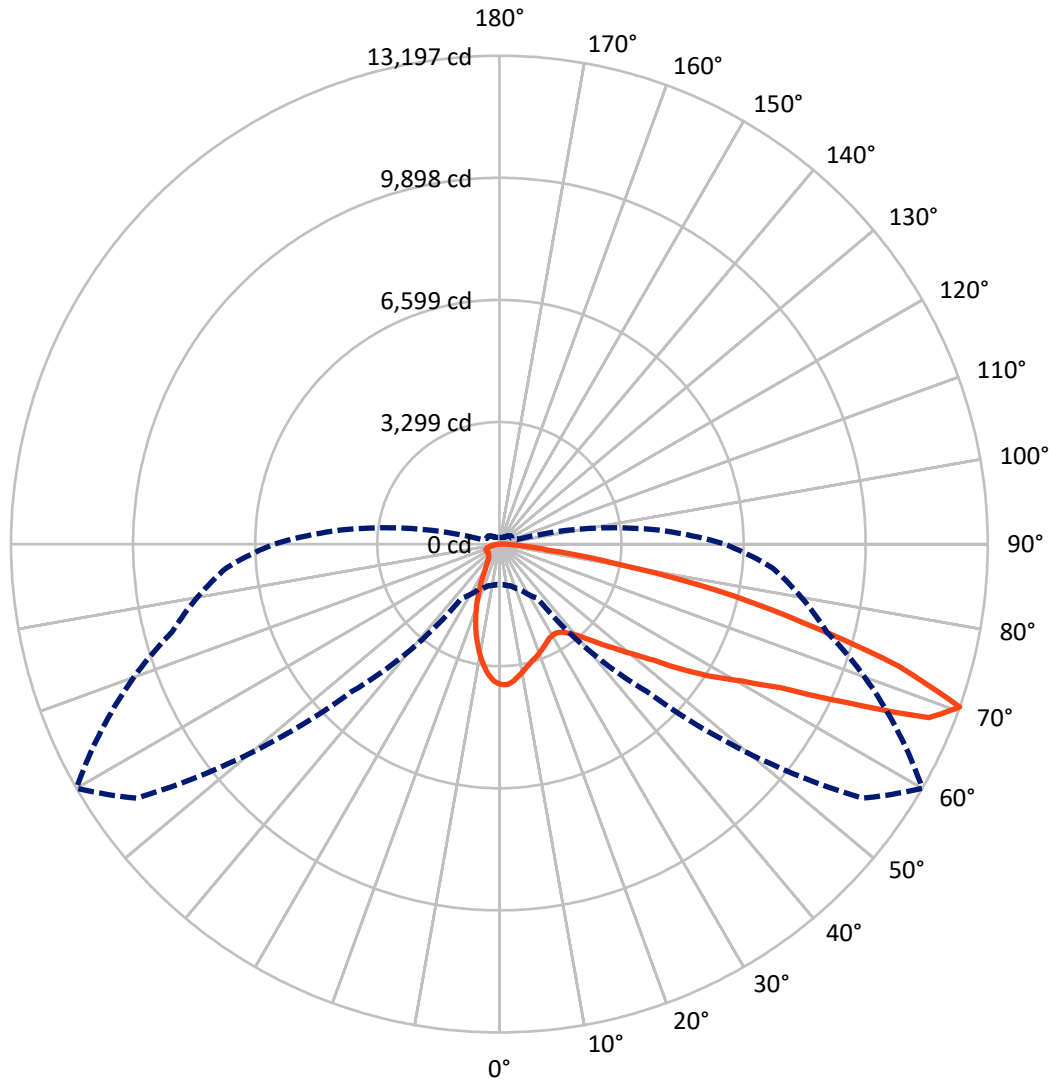
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P635506
CATALOG NUMBER: GWS-SA3D-830-U-SL3-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P635506

CATALOG NUMBER: GWS-SA3D-830-U-SL3-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2342.6	0.0	2342.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	11355.1	0.0	11355.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	13697.7	0.0	13697.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.7	2.4
10°-20°	731.9	5.3
20°-30°	937.4	6.8
30°-40°	1231.9	9.0
40°-50°	1787.3	13.0
50°-60°	2788.7	20.4
60°-70°	3650.9	26.7
70°-80°	2018.8	14.7
80°-90°	224.0	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°	13697.7	100.0
0°-180°	13697.7	100.0

Coefficient of Utilization



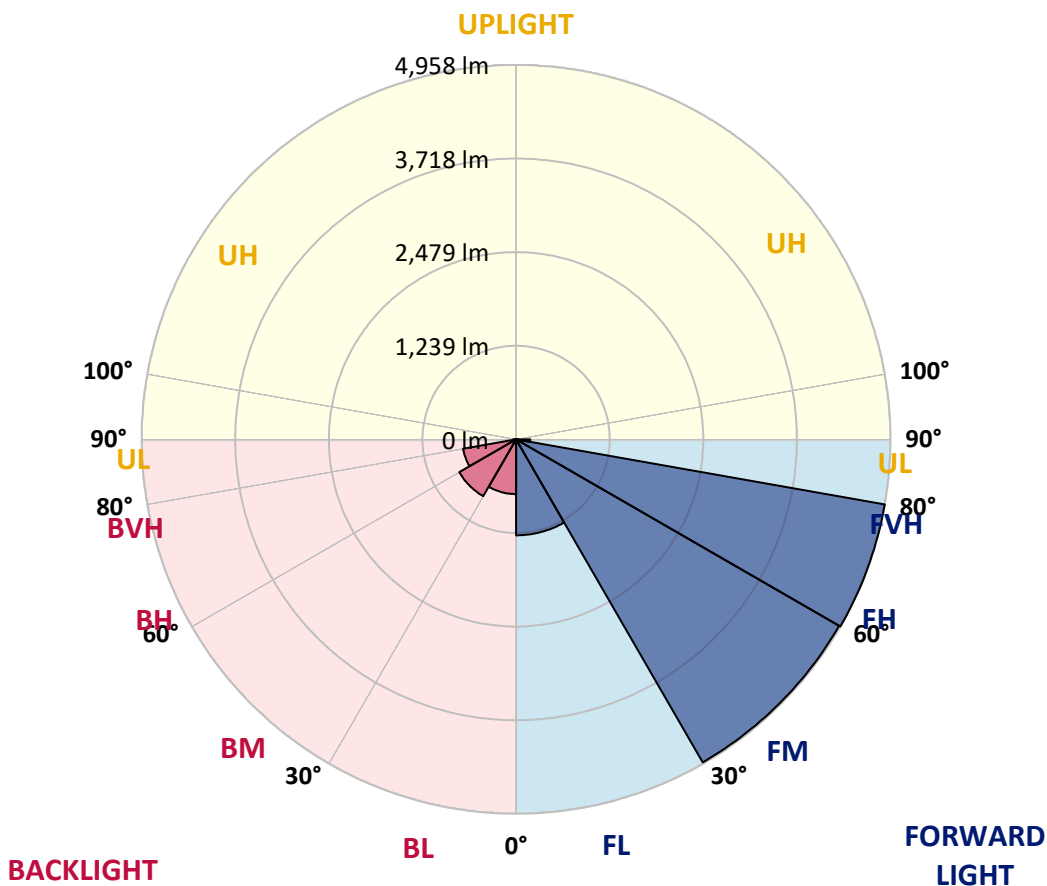
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.2	9.3			
FM (30°-60°)	4939.3	36.1			
FH (60°-80°)	4957.8	36.2			G2/5000
FVH (80°-90°)	186.7	1.4			G2/225
BL (0°-30°)	724.8	5.3	B2/1000		
BM (30°-60°)	868.6	6.3	B1/1000		
BH (60°-80°)	711.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	37.4	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3
2.5°	3737.2	3741.2	3752.2	3768.3	3784.3	3792.3	3812.4	3806.4	3802.4	3794.3	3784.3
5°	3571.9	3579.9	3589.9	3621.0	3656.0	3684.1	3729.2	3734.2	3736.2	3740.2	3724.2
7.5°	3361.4	3363.4	3387.4	3428.5	3474.6	3522.7	3597.9	3619.0	3637.0	3657.0	3644.0
10°	3128.9	3133.9	3151.9	3211.1	3290.2	3361.4	3462.6	3497.7	3535.8	3579.9	3561.8
12.5°	2938.5	2939.5	2968.5	3031.7	3117.9	3214.1	3340.3	3382.4	3432.5	3501.7	3485.7
15°	2787.1	2787.1	2814.2	2868.3	2967.5	3080.8	3231.1	3285.2	3353.4	3446.6	3418.5
17.5°	2666.9	2667.9	2684.9	2742.0	2830.2	2955.5	3133.9	3207.0	3282.2	3405.5	3363.4
20°	2603.7	2598.7	2601.7	2636.8	2712.0	2833.2	3036.7	3121.9	3223.1	3377.4	3313.3
22.5°	2600.7	2591.7	2578.7	2581.7	2625.8	2726.0	2932.4	3035.7	3163.0	3354.4	3262.2
25°	2651.8	2641.8	2618.8	2592.7	2588.7	2648.8	2834.2	2951.5	3100.8	3344.4	3213.1
27.5°	2738.0	2731.0	2700.9	2661.9	2620.8	2618.8	2760.1	2882.3	3055.7	3354.4	3178.0
30°	2852.3	2840.2	2821.2	2771.1	2709.0	2644.8	2731.0	2845.3	3025.7	3386.4	3163.0
32.5°	2981.6	2974.5	2956.5	2906.4	2840.2	2738.0	2754.1	2853.3	3025.7	3442.6	3166.0
35°	3118.9	3117.9	3117.9	3084.8	3011.6	2884.3	2845.3	2921.4	3071.8	3532.8	3198.0
37.5°	3252.1	3251.1	3283.2	3295.2	3212.1	3074.8	3000.6	3057.7	3173.0	3666.1	3277.2
40°	3360.4	3364.4	3434.5	3494.7	3448.6	3321.3	3217.1	3246.1	3337.3	3855.5	3415.5
42.5°	3469.6	3480.7	3585.9	3692.1	3710.2	3599.9	3494.7	3511.7	3572.9	4106.0	3622.0
45°	3588.9	3593.9	3741.2	3889.5	3976.7	3911.6	3825.4	3848.5	3862.5	4415.7	3929.6
47.5°	3704.1	3717.2	3907.6	4111.0	4276.4	4270.4	4222.3	4215.3	4218.3	4792.5	4293.4
50°	3861.5	3880.5	4104.0	4349.6	4592.1	4703.3	4717.4	4664.3	4642.2	5211.5	4746.4
52.5°	4160.1	4160.1	4360.6	4602.1	4927.8	5203.4	5297.6	5210.5	5140.3	5654.4	5227.5
55°	4534.0	4550.0	4709.4	4904.8	5317.7	5729.6	6048.3	5952.1	5753.6	6136.5	5731.6
57.5°	4700.3	4720.4	4972.9	5276.6	5827.8	6327.9	6769.9	6735.8	6446.2	6637.6	6254.7
60°	4399.7	4441.8	4789.5	5298.6	6289.8	7293.0	7604.7	7505.5	7091.6	7163.7	6822.0
62.5°	3670.1	3716.2	4102.0	4812.6	6225.7	8336.3	8920.6	8554.8	7897.4	7828.2	7577.7
65°	2189.8	2187.8	2651.8	3593.9	5434.9	8626.0	11003.2	10320.7	9142.1	8740.2	8355.4
67.5°	1392.1	1389.1	1486.3	1904.2	3616.9	7916.4	12342.1	12519.5	10832.8	9410.7	8419.5
70°	1098.4	1097.4	1167.6	1358.0	1788.9	5633.4	11969.3	13197.0	11854.1	9155.1	7413.3
72.5°	800.8	802.8	911.0	1137.5	1380.0	2828.2	9692.3	11291.8	10903.0	8081.8	6018.2
75°	575.3	578.3	643.4	870.9	1272.8	1546.4	6445.2	8490.7	8295.2	6478.2	4140.1
77.5°	365.8	369.8	426.9	610.3	1028.3	1248.7	3907.6	5994.2	5519.1	3650.0	1472.2
80°	223.5	236.5	284.6	455.0	821.8	937.1	1953.3	3157.9	2764.1	1001.2	495.1
82.5°	115.3	125.3	171.4	281.6	566.2	822.8	1105.4	1326.9	855.9	418.9	263.6
85°	36.1	42.1	60.1	114.3	269.6	510.1	731.6	659.4	392.9	197.4	122.3
87.5°	9.0	9.0	10.0	10.0	11.0	23.1	141.3	149.3	104.2	62.1	50.1
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-SA3D-830-U-SL3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3	3790.3
2.5°	3764.3	3740.2	3730.2	3729.2	3704.1	3668.1	3644.0	3627.0	3616.9	3614.9	3614.9
5°	3697.1	3666.1	3625.0	3593.9	3526.8	3458.6	3401.5	3369.4	3332.3	3327.3	3326.3
7.5°	3607.9	3562.8	3484.7	3397.5	3280.2	3167.0	3070.7	3005.6	2940.5	2928.4	2924.4
10°	3511.7	3450.6	3317.3	3164.0	2988.6	2819.2	2671.9	2556.6	2480.5	2426.3	2416.3
12.5°	3416.5	3335.3	3139.9	2911.4	2670.9	2439.4	2217.9	2029.5	1893.2	1814.0	1800.0
15°	3327.3	3214.1	2946.5	2654.8	2342.1	2025.5	1711.8	1467.2	1275.8	1207.7	1191.6
17.5°	3246.1	3104.8	2759.1	2389.3	1999.4	1585.5	1228.7	1011.2	899.0	864.9	856.9
20°	3165.0	2992.6	2568.6	2109.6	1635.6	1171.6	898.0	795.7	753.7	740.6	736.6
22.5°	3077.8	2869.3	2361.2	1834.0	1267.8	876.9	734.6	689.5	676.5	677.5	676.5
25°	2990.6	2744.0	2143.7	1534.4	944.1	711.6	641.4	624.4	627.4	636.4	638.4
27.5°	2918.4	2632.8	1930.2	1205.6	737.6	612.3	579.3	578.3	589.3	601.3	603.3
30°	2866.3	2533.6	1719.8	927.0	607.3	544.2	531.2	537.2	550.2	559.2	562.2
32.5°	2829.2	2448.4	1495.3	728.6	532.2	496.1	490.1	496.1	504.1	513.1	515.1
35°	2816.2	2386.2	1274.8	594.3	481.1	461.0	457.0	460.0	464.0	469.0	471.0
37.5°	2845.3	2355.2	1044.3	517.1	450.0	438.0	431.9	429.9	430.9	433.0	434.0
40°	2931.4	2369.2	855.9	472.0	429.9	418.9	408.9	404.9	403.9	405.9	404.9
42.5°	3079.8	2428.3	719.6	446.0	413.9	397.9	386.9	382.8	382.8	387.9	387.9
45°	3297.2	2544.6	621.4	426.9	399.9	379.8	367.8	365.8	369.8	377.8	378.8
47.5°	3615.9	2715.0	562.2	412.9	386.9	363.8	351.8	350.8	358.8	371.8	372.8
50°	3993.8	2960.5	530.2	402.9	377.8	350.8	338.7	339.7	348.8	362.8	365.8
52.5°	4448.8	3295.2	532.2	398.9	372.8	342.8	330.7	328.7	337.7	351.8	354.8
55°	4918.8	3702.1	571.3	399.9	365.8	338.7	322.7	315.7	323.7	333.7	334.7
57.5°	5435.9	4161.1	668.5	397.9	356.8	334.7	315.7	299.7	304.7	310.7	313.7
60°	6019.2	4701.3	877.9	401.9	352.8	325.7	301.7	280.6	279.6	283.6	284.6
62.5°	6798.9	5435.9	1113.4	408.9	361.8	314.7	280.6	258.6	254.6	256.6	257.6
65°	7395.3	5786.7	1039.3	402.9	380.8	306.7	260.6	237.5	229.5	227.5	227.5
67.5°	7152.7	5322.7	723.6	386.9	389.9	307.7	244.5	215.5	205.5	200.4	199.4
70°	6086.4	4323.5	503.1	370.8	379.8	305.7	227.5	197.4	184.4	177.4	176.4
72.5°	4808.6	3301.3	406.9	338.7	344.8	275.6	202.4	177.4	166.4	157.3	157.3
75°	3094.8	2014.4	339.7	301.7	281.6	214.5	175.4	158.3	147.3	138.3	138.3
77.5°	1041.3	747.6	263.6	255.6	210.5	161.4	147.3	136.3	127.3	119.3	118.3
80°	422.9	354.8	193.4	193.4	147.3	123.3	115.3	110.2	104.2	94.2	94.2
82.5°	245.5	215.5	135.3	117.3	98.2	85.2	80.2	75.2	75.2	68.1	68.1
85°	118.3	119.3	81.2	72.2	56.1	49.1	47.1	44.1	43.1	39.1	38.1
87.5°	64.1	65.1	41.1	32.1	22.0	19.0	16.0	15.0	14.0	13.0	13.0
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)