

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: P635503

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8176.7 lumens
Efficiency: N/A
Efficacy: 67.7 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

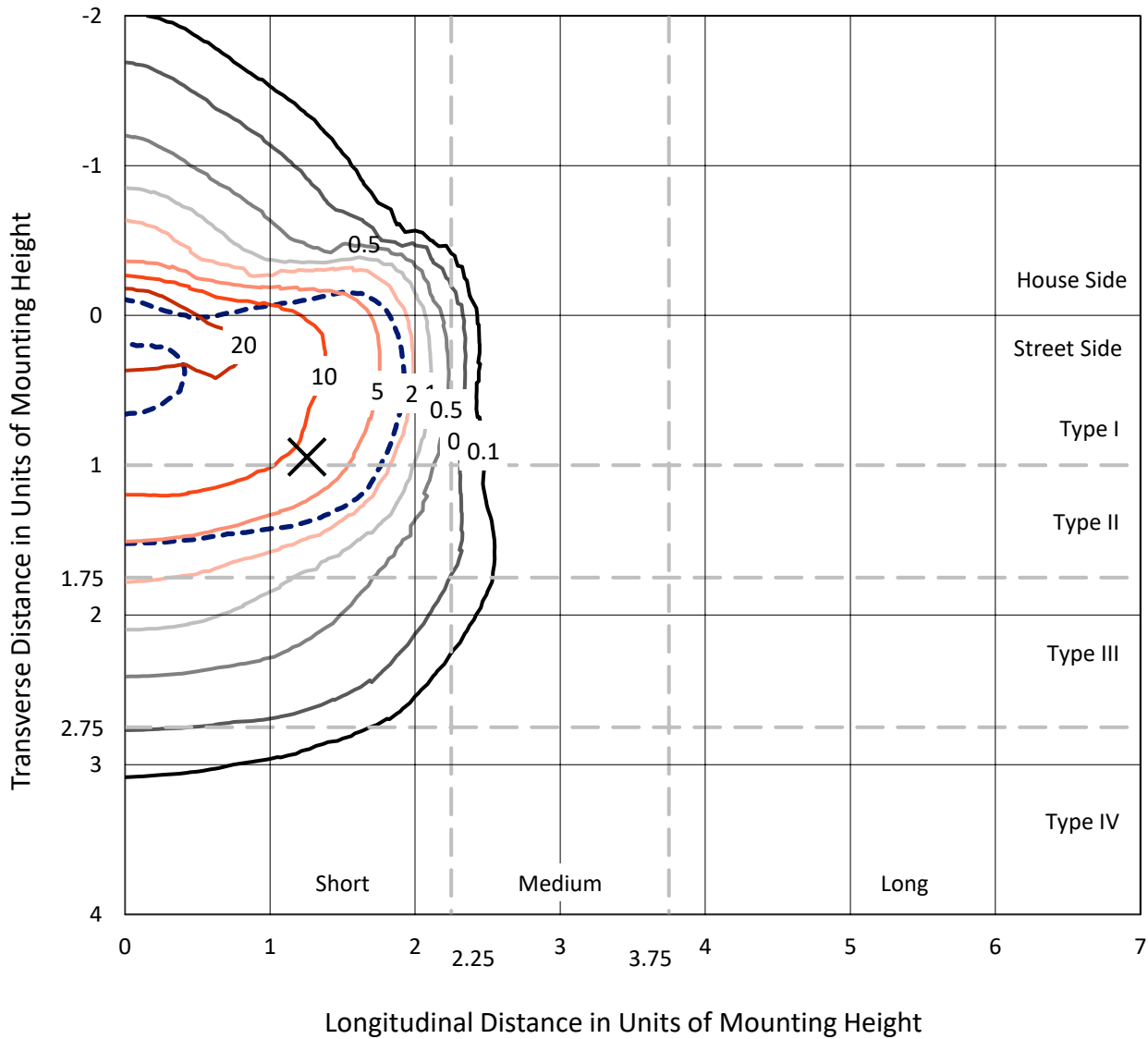
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

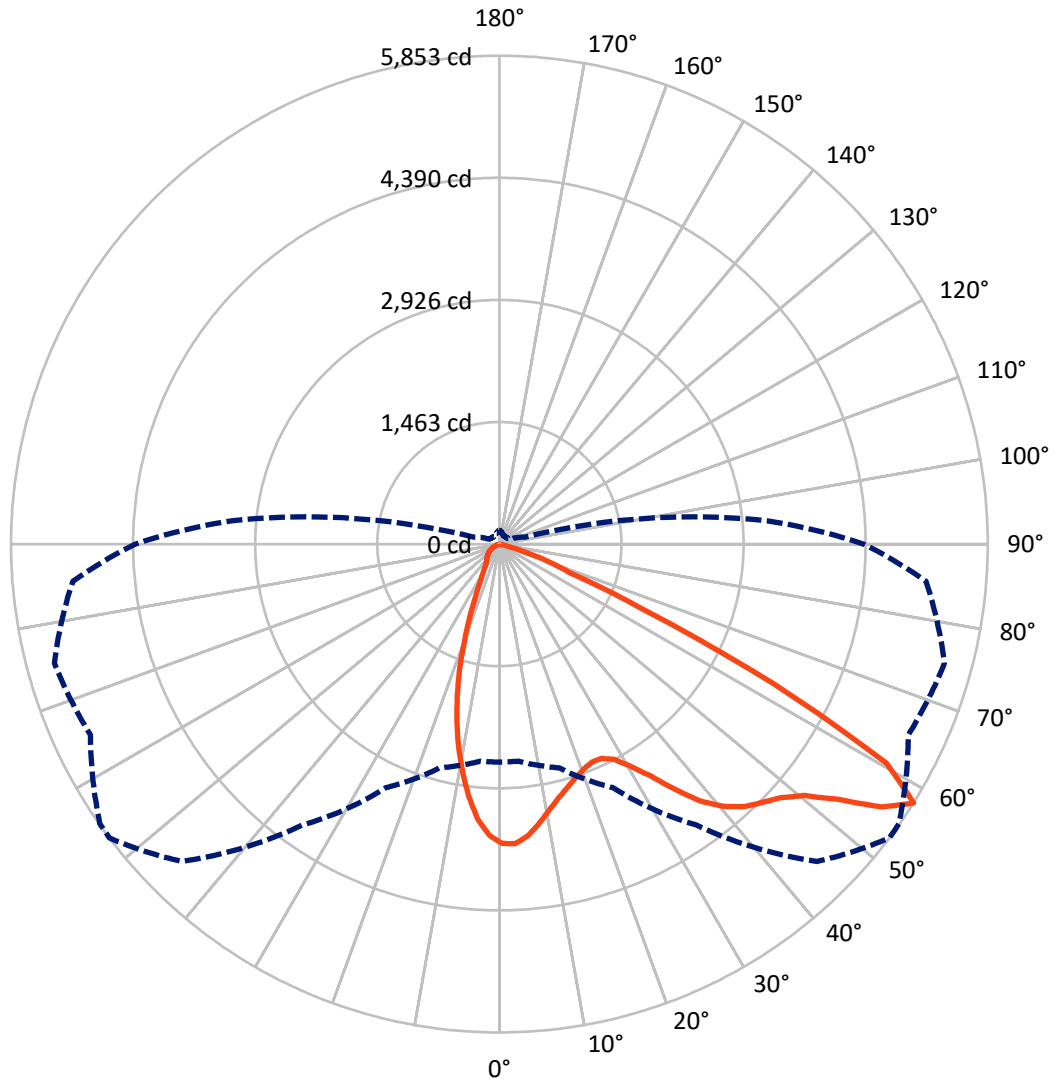
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1350.7	0.0	1350.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6826.0	0.0	6826.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	8176.7	0.0	8176.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	3.8
10°-20°	673.7	8.2
20°-30°	877.7	10.7
30°-40°	1273.1	15.6
40°-50°	1836.9	22.5
50°-60°	2221.6	27.2
60°-70°	905.4	11.1
70°-80°	81.4	1.0
80°-90°	0.0	0.0
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°	8176.7	100.0
0°-180°	8176.7	100.0

Coefficient of Utilization



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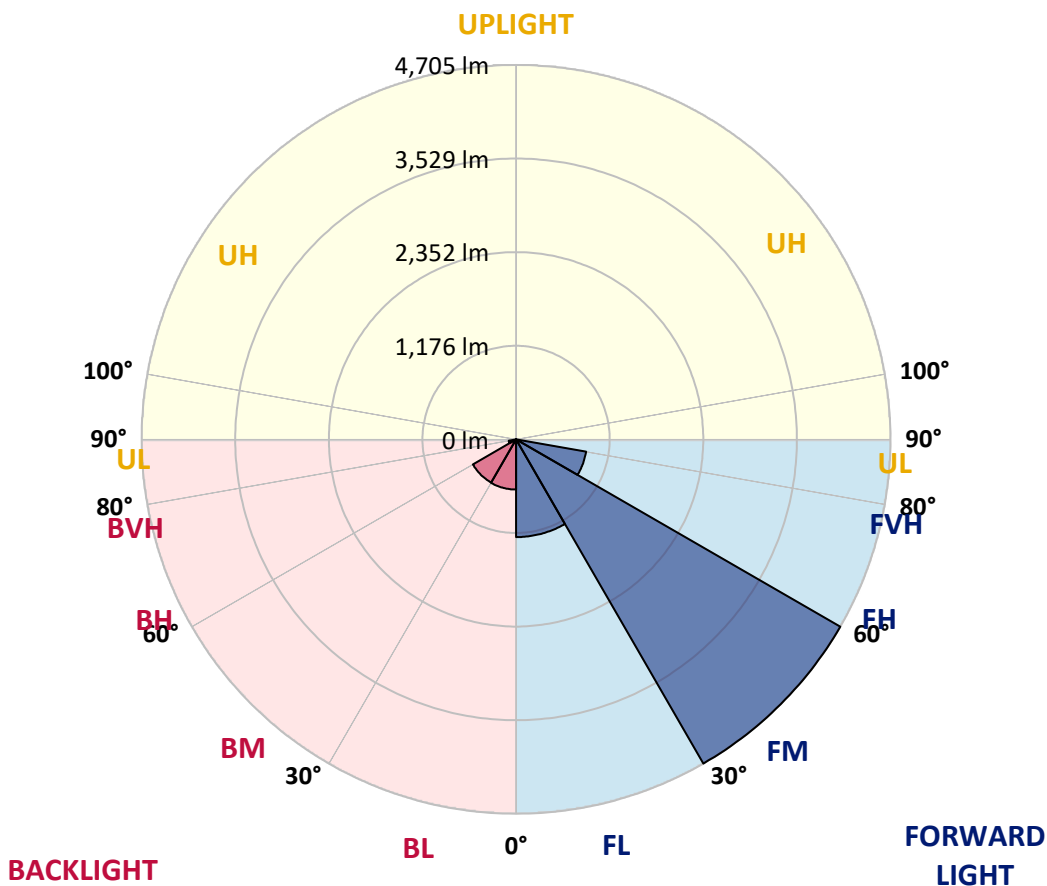
CATALOG NUMBER: GWS-SA3D-830-U-SL3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1227.9	15.0			
FM (30°-60°)	4704.7	57.5			
FH (60°-80°)	893.4	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	630.4	7.7	B2/1000		
BM (30°-60°)	626.9	7.7	B1/1000		
BH (60°-80°)	93.4	1.1	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8
2.5°	3536.7	3544.7	3558.7	3576.7	3588.8	3594.8	3594.8	3611.8	3600.8	3591.8	3581.8
5°	3385.3	3393.3	3412.4	3441.5	3470.5	3491.6	3515.6	3533.7	3540.7	3540.7	3523.6
7.5°	3171.9	3182.9	3194.9	3235.0	3298.1	3345.2	3386.3	3412.4	3450.5	3462.5	3438.4
10°	2942.4	2953.4	2980.5	3035.6	3107.7	3177.9	3248.0	3281.1	3346.2	3380.3	3353.3
12.5°	2748.0	2753.0	2789.0	2855.2	2947.4	3043.6	3128.8	3162.8	3255.0	3306.2	3274.1
15°	2587.6	2590.6	2626.7	2699.8	2806.1	2924.3	3031.6	3066.6	3179.9	3257.1	3208.9
17.5°	2466.3	2467.3	2498.4	2577.6	2688.8	2820.1	2947.4	2990.5	3136.8	3230.0	3157.8
20°	2405.2	2402.2	2424.2	2493.4	2598.6	2729.9	2880.2	2933.4	3112.7	3226.0	3118.8
22.5°	2406.2	2399.2	2408.2	2457.3	2546.5	2669.8	2838.1	2898.3	3114.7	3243.0	3085.7
25°	2463.3	2453.3	2455.3	2481.4	2544.5	2656.8	2844.2	2908.3	3154.8	3300.1	3073.7
27.5°	2559.5	2548.5	2548.5	2561.5	2595.6	2697.8	2919.3	2992.5	3262.1	3411.4	3098.7
30°	2683.8	2672.8	2668.8	2681.8	2709.9	2804.1	3086.7	3162.8	3445.5	3593.8	3178.9
32.5°	2826.1	2813.1	2820.1	2838.1	2865.2	2995.5	3302.2	3403.4	3675.0	3839.3	3323.2
35°	2976.4	2965.4	2997.5	3036.6	3078.7	3261.1	3599.8	3688.0	3956.6	4145.0	3543.7
37.5°	3119.8	3114.7	3181.9	3264.1	3351.3	3579.8	3902.5	3970.6	4198.1	4477.7	3813.3
40°	3263.1	3262.1	3377.3	3521.6	3660.9	3897.4	4131.9	4188.1	4345.4	4736.3	4071.8
42.5°	3423.4	3423.4	3582.8	3775.2	3960.6	4166.0	4300.3	4325.4	4411.6	4885.6	4266.2
45°	3576.7	3585.8	3770.2	3993.6	4213.1	4375.5	4416.6	4418.6	4438.6	4973.8	4427.6
47.5°	3698.0	3706.0	3926.5	4184.1	4420.6	4534.8	4540.8	4531.8	4509.8	5058.0	4551.9
50°	3796.2	3808.2	4038.7	4311.3	4562.9	4688.2	4734.3	4725.2	4669.1	5148.1	4639.0
52.5°	3844.3	3861.4	4077.8	4374.5	4721.2	4950.7	5079.0	5100.0	4907.6	5198.3	4722.2
55°	3459.5	3484.5	3684.0	4089.9	4809.4	5356.6	5558.0	5554.0	5166.2	5347.6	4924.7
57.5°	2612.7	2610.7	2776.0	3220.0	4107.9	5379.6	5852.7	5844.7	5407.7	5521.0	5132.1
60°	1778.9	1766.8	1810.9	2025.4	2872.2	4382.5	5326.5	5434.8	5236.3	5100.0	4357.4
62.5°	1464.2	1453.1	1439.1	1380.0	1649.6	2729.9	3680.0	3844.3	3818.3	3544.7	2732.9
65°	1198.6	1207.6	1246.7	1221.6	1147.5	1400.0	1910.1	2007.3	1835.0	1544.3	955.1
67.5°	883.9	887.9	939.0	1071.3	1031.2	932.0	898.9	915.0	536.2	246.5	159.3
70°	522.1	525.1	572.2	749.6	836.8	715.5	607.3	598.3	212.5	66.1	72.2
72.5°	295.6	289.6	298.6	356.8	456.0	379.8	312.7	284.6	64.1	37.1	37.1
75°	140.3	136.3	117.3	110.2	100.2	64.1	40.1	34.1	16.0	15.0	15.0
77.5°	1.0	3.0	2.0	3.0	3.0	2.0	1.0	1.0	3.0	3.0	4.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8	3586.8
2.5°	3563.7	3533.7	3526.6	3524.6	3496.6	3466.5	3435.4	3423.4	3405.4	3394.4	3403.4
5°	3496.6	3453.5	3415.4	3380.3	3318.2	3250.0	3190.9	3152.8	3116.7	3092.7	3098.7
7.5°	3401.4	3345.2	3258.1	3168.9	3054.6	2952.4	2838.1	2768.0	2702.9	2666.8	2683.8
10°	3300.1	3226.0	3086.7	2935.4	2756.0	2595.6	2432.3	2299.0	2221.8	2148.7	2156.7
12.5°	3200.9	3102.7	2894.3	2664.8	2438.3	2201.8	1955.2	1770.8	1644.6	1553.4	1539.3
15°	3108.7	2982.5	2706.9	2404.2	2095.5	1780.9	1466.2	1202.6	1056.3	966.1	960.1
17.5°	3026.6	2870.2	2512.4	2131.6	1744.8	1341.9	980.1	782.7	698.5	659.4	655.4
20°	2947.4	2757.0	2314.0	1855.0	1361.9	942.0	676.5	585.3	558.2	542.2	544.2
22.5°	2871.2	2633.7	2105.6	1548.4	1021.2	661.4	524.1	489.1	486.1	488.1	489.1
25°	2807.1	2520.5	1891.1	1252.7	728.6	504.1	437.9	427.9	436.9	450.0	452.0
27.5°	2774.0	2428.3	1681.6	955.1	527.1	409.9	379.8	383.8	399.9	413.9	415.9
30°	2783.0	2359.1	1465.2	692.5	405.9	345.7	335.7	343.7	359.8	372.8	374.8
32.5°	2847.2	2324.0	1243.7	504.1	333.7	301.7	297.6	303.7	317.7	327.7	328.7
35°	2974.4	2332.0	1033.2	385.8	286.6	268.6	267.6	271.6	278.6	285.6	286.6
37.5°	3161.8	2397.2	825.8	320.7	259.6	246.5	242.5	242.5	247.5	250.5	252.5
40°	3363.3	2495.4	661.4	283.6	240.5	226.5	218.5	215.5	219.5	223.5	224.5
42.5°	3529.6	2593.6	537.2	257.6	225.5	206.4	196.4	194.4	199.4	206.4	208.5
45°	3656.9	2669.8	448.0	236.5	208.5	187.4	176.4	176.4	185.4	197.4	199.4
47.5°	3773.2	2730.9	381.8	217.5	192.4	170.4	159.3	161.3	176.4	192.4	195.4
50°	3852.3	2780.0	332.7	200.4	179.4	156.3	146.3	150.3	168.4	187.4	190.4
52.5°	3937.5	2840.2	300.7	185.4	167.4	145.3	136.3	139.3	159.3	180.4	184.4
55°	4173.0	3041.6	299.6	165.4	146.3	130.3	126.3	127.3	147.3	171.4	176.4
57.5°	4365.5	3219.0	319.7	139.3	122.3	114.2	112.2	113.2	131.3	158.3	164.4
60°	3611.8	2501.4	264.6	115.2	102.2	100.2	97.2	99.2	116.3	140.3	145.3
62.5°	2137.6	1430.1	126.3	88.2	87.2	85.2	82.2	86.2	102.2	123.3	126.3
65°	730.6	423.9	80.2	72.2	74.2	71.2	68.1	72.2	86.2	98.2	99.2
67.5°	140.3	112.2	64.1	60.1	61.1	55.1	54.1	58.1	66.1	68.1	67.1
70°	73.2	65.1	49.1	49.1	47.1	39.1	39.1	43.1	43.1	40.1	39.1
72.5°	38.1	36.1	32.1	36.1	30.1	24.1	24.1	26.1	24.1	20.0	20.0
75°	15.0	15.0	14.0	18.0	13.0	11.0	10.0	12.0	9.0	7.0	7.0
77.5°	4.0	4.0	4.0	5.0	3.0	3.0	2.0	2.0	1.0	0.0	0.0
80°	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)