

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: P641932

Luminaire Tested: GWS-SA6B-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14826.8 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 138.9
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

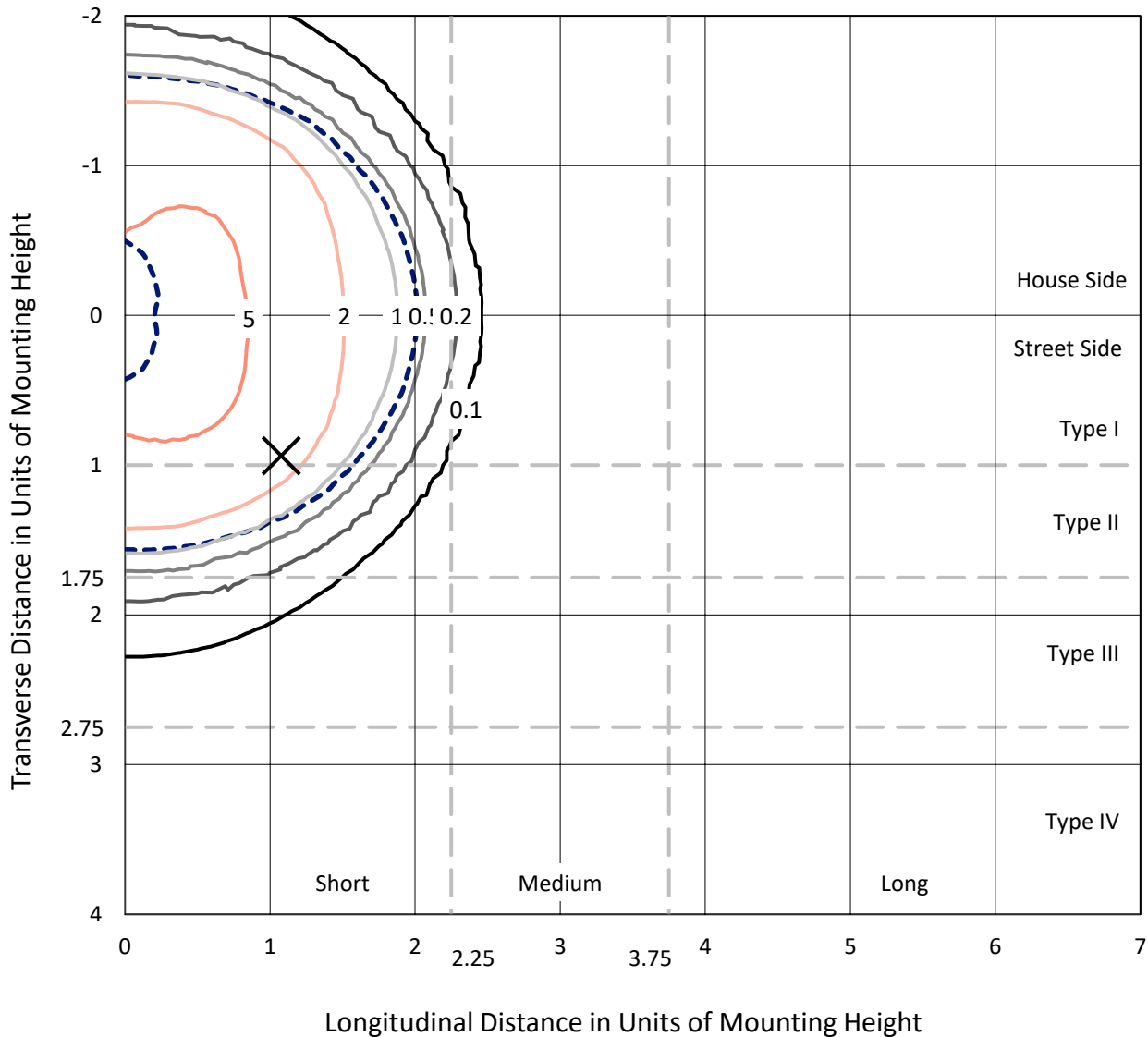


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Iso-Footcandle Lines of Horizontal Illumination

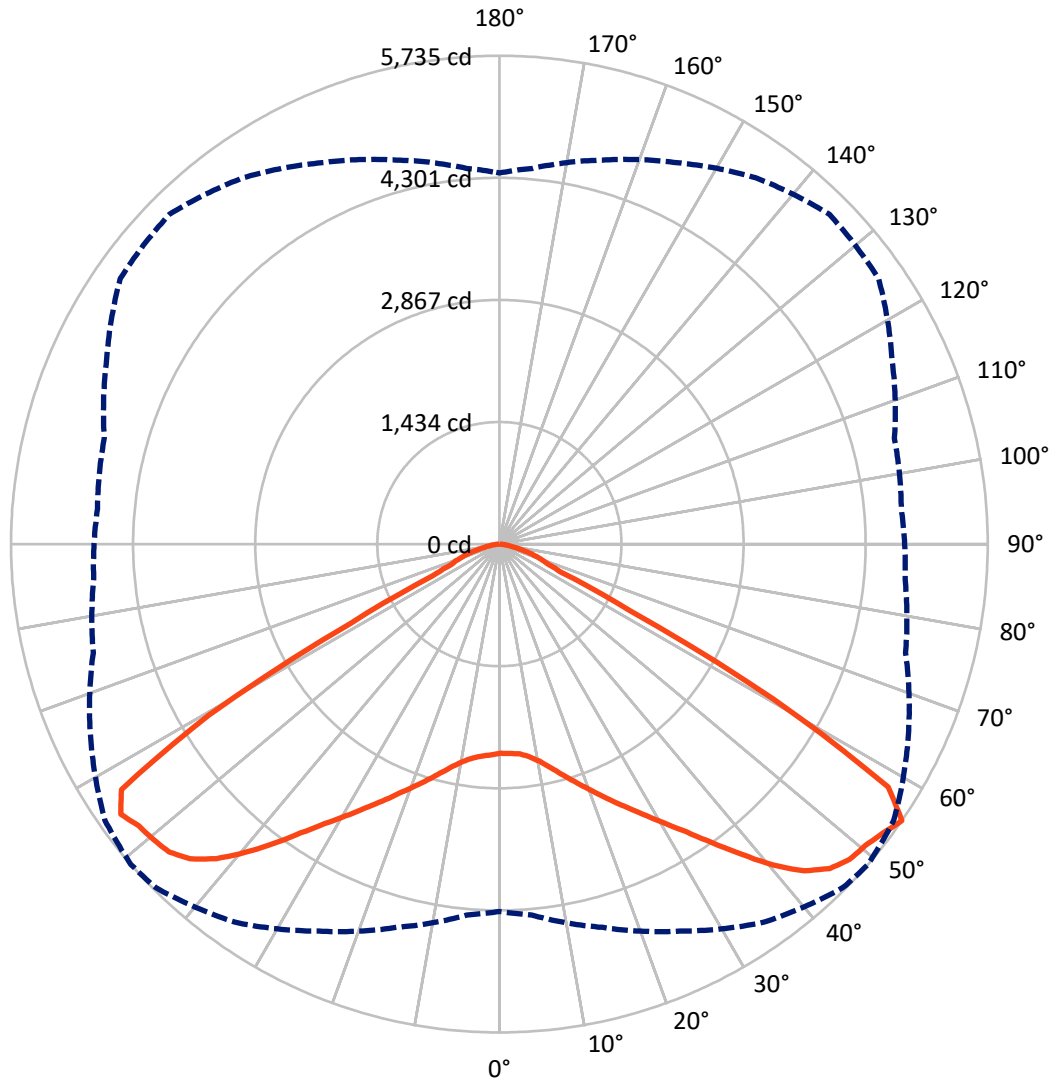
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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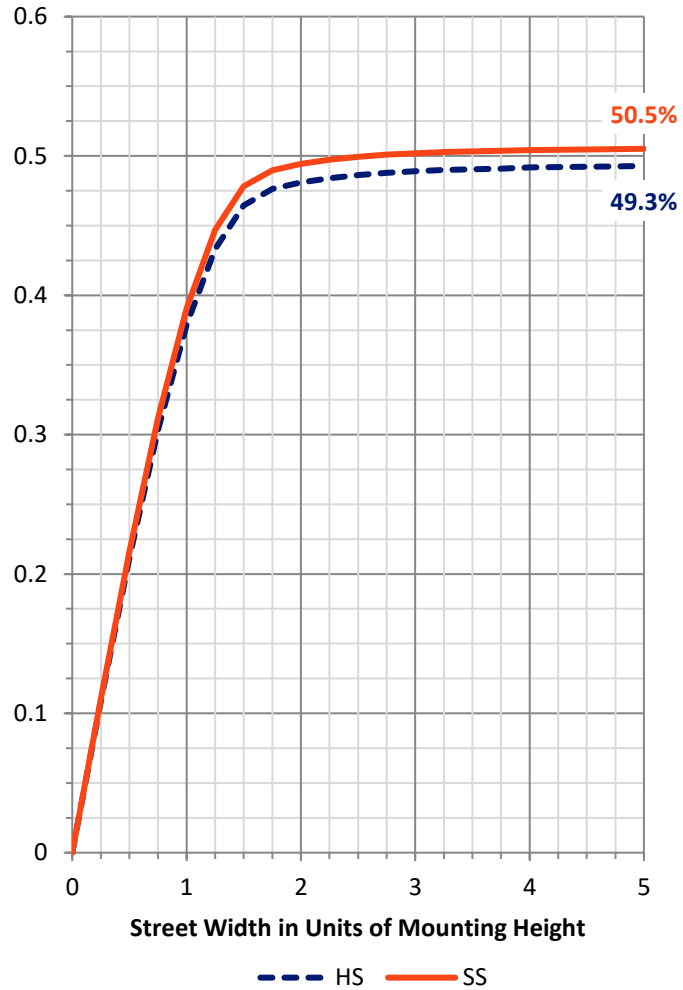
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7340.7	0.0	7340.7
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	7486.1	0.0	7486.1
	% Fixture	50.5	0.0	50.5
Total	Lumens	14826.8	0.0	14826.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	1.6
10°-20°	790.3	5.3
20°-30°	1505.3	10.2
30°-40°	2551.8	17.2
40°-50°	3840.2	25.9
50°-60°	4203.5	28.4
60°-70°	1329.2	9.0
70°-80°	319.0	2.2
80°-90°	47.9	0.3
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°	14826.8	100.0
0°-180°	14826.8	100.0

Coefficient of Utilization



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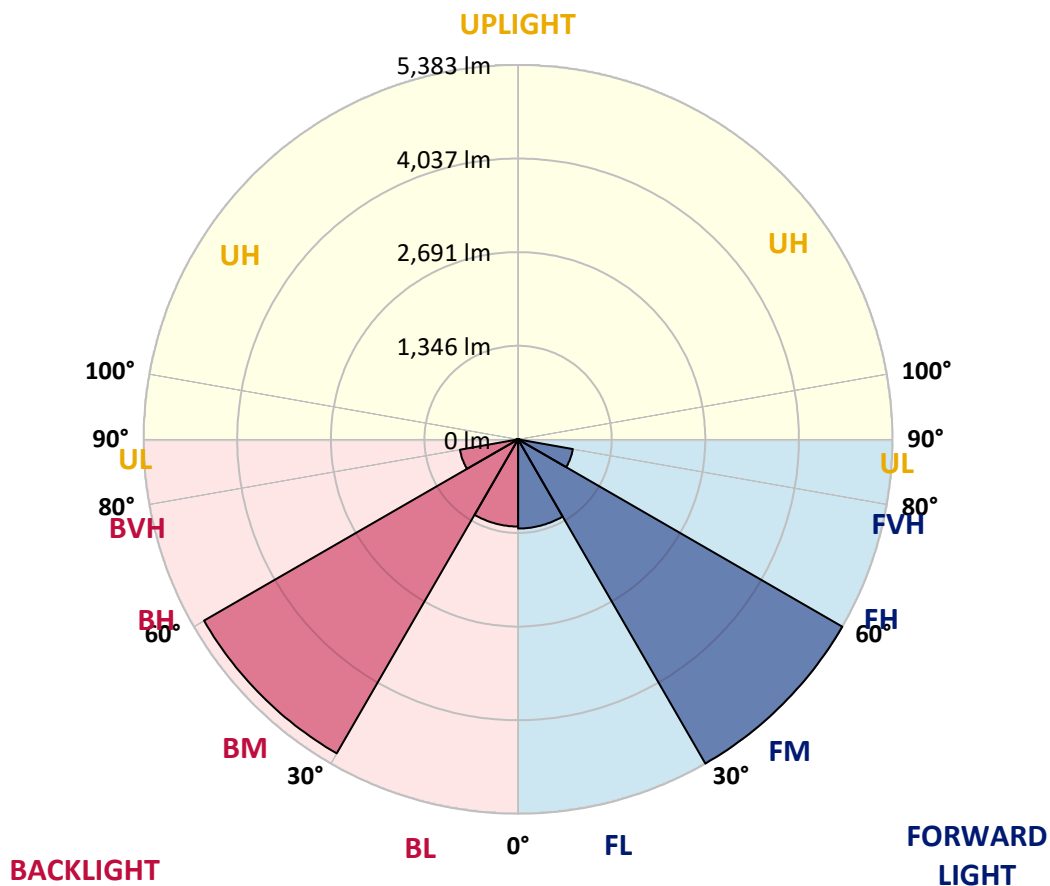
CATALOG NUMBER: GWS-SA6B-830-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.9	8.6			
FM (30°-60°)	5382.5	36.3			
FH (60°-80°)	799.5	5.4			G1/1800
FVH (80°-90°)	22.2	0.1			G1/100
BL (0°-30°)	1253.3	8.5	B3/2500		
BM (30°-60°)	5213.0	35.2	B4/8500		
BH (60°-80°)	848.7	5.7	B2/1000		G1/1800
BVH (80°-90°)	25.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CATALOG NUMBER: GWS-SA6B-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1
2.5°	2420.0	2422.4	2427.2	2435.7	2444.1	2456.1	2461.0	2467.0	2465.8	2473.0	2473.0
5°	2407.9	2411.5	2418.8	2430.8	2445.3	2468.2	2474.2	2488.7	2503.2	2521.3	2527.3
7.5°	2422.4	2427.2	2435.7	2454.9	2476.6	2506.8	2518.8	2543.0	2570.7	2603.3	2616.5
10°	2450.1	2456.1	2470.6	2502.0	2536.9	2582.8	2593.6	2623.8	2668.4	2713.0	2739.5
12.5°	2481.5	2491.1	2517.6	2567.1	2618.9	2679.2	2696.1	2733.5	2781.7	2839.6	2875.8
15°	2517.6	2526.1	2567.1	2637.0	2717.8	2797.4	2816.7	2852.8	2907.1	2963.8	3014.4
17.5°	2593.6	2608.1	2656.3	2737.1	2831.1	2925.2	2946.9	2987.9	3031.3	3075.9	3124.1
20°	2697.3	2709.4	2770.9	2870.9	2981.9	3067.5	3089.2	3125.4	3145.8	3168.8	3209.8
22.5°	2801.0	2817.9	2887.8	3006.0	3136.2	3229.0	3245.9	3279.7	3265.2	3258.0	3284.5
25°	2930.0	2952.9	3021.7	3150.7	3283.3	3397.9	3411.1	3440.1	3415.9	3378.6	3377.4
27.5°	3090.4	3110.9	3182.0	3314.7	3446.1	3565.5	3590.8	3629.4	3576.3	3530.5	3497.9
30°	3280.9	3294.2	3372.5	3513.6	3648.7	3762.0	3794.6	3833.1	3793.3	3717.4	3684.8
32.5°	3502.8	3520.8	3611.3	3759.6	3880.2	3993.5	4026.1	4074.3	4030.9	3945.3	3904.3
35°	3769.2	3787.3	3882.6	4044.1	4167.1	4284.1	4307.0	4346.8	4292.5	4193.7	4161.1
37.5°	4058.6	4081.5	4202.1	4355.2	4484.3	4620.5	4621.7	4633.8	4556.6	4433.6	4397.4
40°	4384.2	4414.3	4534.9	4694.1	4849.6	4960.5	4959.3	4925.6	4795.3	4604.8	4549.4
42.5°	4706.1	4730.2	4852.0	5016.0	5171.5	5276.4	5245.1	5163.1	4975.0	4715.8	4642.2
45°	4938.8	4956.9	5084.7	5269.2	5427.2	5492.3	5435.6	5336.7	5082.3	4785.7	4677.2
47.5°	5048.6	5072.7	5201.7	5385.0	5563.4	5600.8	5533.3	5440.4	5145.0	4850.8	4704.9
50°	4989.5	5020.8	5166.7	5336.7	5538.1	5615.3	5567.0	5474.2	5211.3	4914.7	4754.3
52.5°	4836.3	4866.5	5051.0	5257.1	5485.0	5638.2	5637.0	5561.0	5287.3	4932.8	4756.8
55°	4313.0	4372.1	4659.1	5014.8	5419.9	5705.7	5734.6	5653.8	5299.4	4937.6	4782.1
57.5°	2807.0	2910.7	3183.2	3646.2	4458.9	5189.6	5385.0	5404.3	5212.5	4917.1	4786.9
60°	1172.0	1255.2	1471.0	1778.5	2450.1	3319.5	3698.1	4077.9	4536.1	4702.5	4742.3
62.5°	728.3	735.5	757.2	827.2	1051.4	1475.9	1719.4	2075.1	2756.4	3336.4	3604.0
65°	657.1	660.8	665.6	660.8	671.6	723.5	788.6	912.8	1190.1	1478.3	1820.7
67.5°	578.8	583.6	587.2	583.6	587.2	589.6	596.9	607.7	658.3	699.3	730.7
70°	467.8	475.1	481.1	478.7	493.2	493.2	500.4	508.8	534.2	564.3	586.0
72.5°	356.9	350.9	358.1	360.5	373.8	381.0	391.9	401.5	430.5	448.5	476.3
75°	231.5	225.5	236.3	242.4	260.4	270.1	279.7	289.4	309.9	321.9	348.5
77.5°	125.4	124.2	135.0	143.5	162.8	174.8	182.1	189.3	206.2	209.8	226.7
80°	72.3	72.3	79.6	85.6	97.7	110.9	118.2	124.2	136.3	139.9	147.1
82.5°	39.8	39.8	43.4	47.0	56.7	63.9	69.9	74.8	85.6	89.2	92.8
85°	19.3	18.1	20.5	22.9	26.5	30.1	33.8	36.2	44.6	47.0	51.8
87.5°	2.4	2.4	2.4	3.6	4.8	7.2	8.4	8.4	13.3	15.7	18.1
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-SA6B-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1	2456.1
2.5°	2480.3	2464.6	2474.2	2477.9	2477.9	2474.2	2458.6	2453.7	2446.5	2435.7	2435.7
5°	2535.7	2523.7	2526.1	2520.1	2505.6	2487.5	2458.6	2444.1	2432.0	2418.8	2417.6
7.5°	2631.0	2615.3	2612.9	2590.0	2551.4	2512.8	2469.4	2442.9	2424.8	2407.9	2406.7
10°	2755.2	2740.7	2722.6	2676.8	2620.1	2563.5	2504.4	2468.2	2441.7	2417.6	2416.4
12.5°	2893.8	2877.0	2843.2	2775.7	2704.5	2649.1	2581.5	2526.1	2486.3	2453.7	2447.7
15°	3044.6	3020.4	2962.6	2883.0	2813.1	2754.0	2681.6	2602.0	2541.8	2489.9	2483.9
17.5°	3160.3	3129.0	3066.3	2991.5	2933.6	2874.6	2780.5	2680.4	2593.6	2528.5	2518.8
20°	3239.9	3214.6	3143.4	3088.0	3054.2	3002.4	2892.6	2779.3	2681.6	2599.6	2594.8
22.5°	3313.5	3283.3	3213.4	3180.8	3180.8	3145.8	3040.9	2907.1	2792.6	2697.3	2685.2
25°	3396.6	3364.1	3311.0	3307.4	3324.3	3308.6	3182.0	3038.5	2904.7	2797.4	2778.1
27.5°	3512.4	3476.2	3444.9	3466.6	3490.7	3473.8	3332.7	3166.3	3025.3	2916.8	2899.9
30°	3696.9	3652.3	3623.3	3649.9	3696.9	3647.4	3494.3	3318.3	3176.0	3056.6	3048.2
32.5°	3911.5	3860.9	3830.7	3872.9	3915.1	3838.0	3686.0	3517.2	3367.7	3242.3	3227.8
35°	4169.5	4105.6	4061.0	4117.7	4161.1	4085.1	3934.4	3774.1	3607.7	3477.4	3458.1
37.5°	4398.6	4321.5	4291.3	4370.9	4428.8	4379.3	4215.4	4064.6	3882.6	3740.3	3731.9
40°	4565.0	4489.1	4467.4	4598.8	4700.1	4688.0	4540.9	4368.5	4197.3	4033.3	4017.6
42.5°	4637.4	4584.3	4589.2	4766.4	4923.2	5000.3	4868.9	4684.4	4519.2	4349.2	4338.4
45°	4653.1	4620.5	4659.1	4880.9	5087.1	5245.1	5133.0	4978.6	4791.7	4627.7	4622.9
47.5°	4669.9	4651.9	4710.9	4946.1	5190.8	5374.1	5311.4	5152.2	4962.9	4802.6	4790.5
50°	4709.7	4702.5	4768.8	4991.9	5240.3	5409.1	5337.9	5180.0	4985.9	4827.9	4799.0
52.5°	4721.8	4709.7	4805.0	5063.0	5322.3	5407.9	5254.7	5048.6	4853.2	4677.2	4647.0
55°	4759.2	4737.5	4802.6	5089.5	5435.6	5477.8	5249.9	4941.2	4668.7	4428.8	4357.6
57.5°	4768.8	4744.7	4786.9	5046.1	5312.6	5275.2	4614.5	3987.5	3473.8	3207.3	3237.5
60°	4717.0	4724.2	4651.9	4622.9	4261.2	3762.0	2825.1	2258.4	1773.7	1568.7	1613.3
62.5°	3590.8	3620.9	3373.7	2933.6	2256.0	1788.2	1182.9	918.8	777.7	741.5	747.6
65°	1812.3	1853.3	1596.4	1320.3	981.5	793.4	686.1	664.4	657.1	648.7	648.7
67.5°	717.4	729.5	719.8	674.0	627.0	610.1	605.3	602.9	594.4	589.6	590.8
70°	576.4	586.0	571.5	542.6	523.3	522.1	519.7	514.9	508.8	508.8	512.5
72.5°	470.2	479.9	459.4	441.3	426.8	416.0	410.0	406.3	397.9	397.9	401.5
75°	346.1	352.1	335.2	332.8	317.1	306.3	296.6	291.8	280.9	276.1	279.7
77.5°	230.3	229.1	220.7	220.7	214.6	201.4	190.5	179.7	165.2	155.5	158.0
80°	149.5	149.5	145.9	145.9	139.9	129.0	115.8	104.9	96.5	89.2	89.2
82.5°	95.3	94.0	92.8	91.6	89.2	78.4	68.7	61.5	55.5	50.6	51.8
85°	53.1	53.1	50.6	50.6	45.8	39.8	35.0	30.1	26.5	25.3	25.3
87.5°	18.1	18.1	16.9	16.9	14.5	10.9	8.4	7.2	6.0	4.8	6.0
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

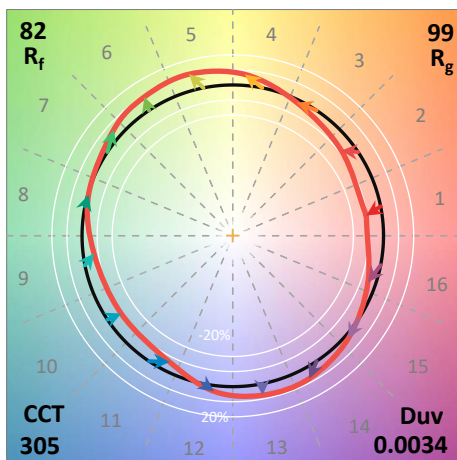
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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)