

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: P637477

Luminaire Tested: GWS-SA4C-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637477
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-SA4C-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13593.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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



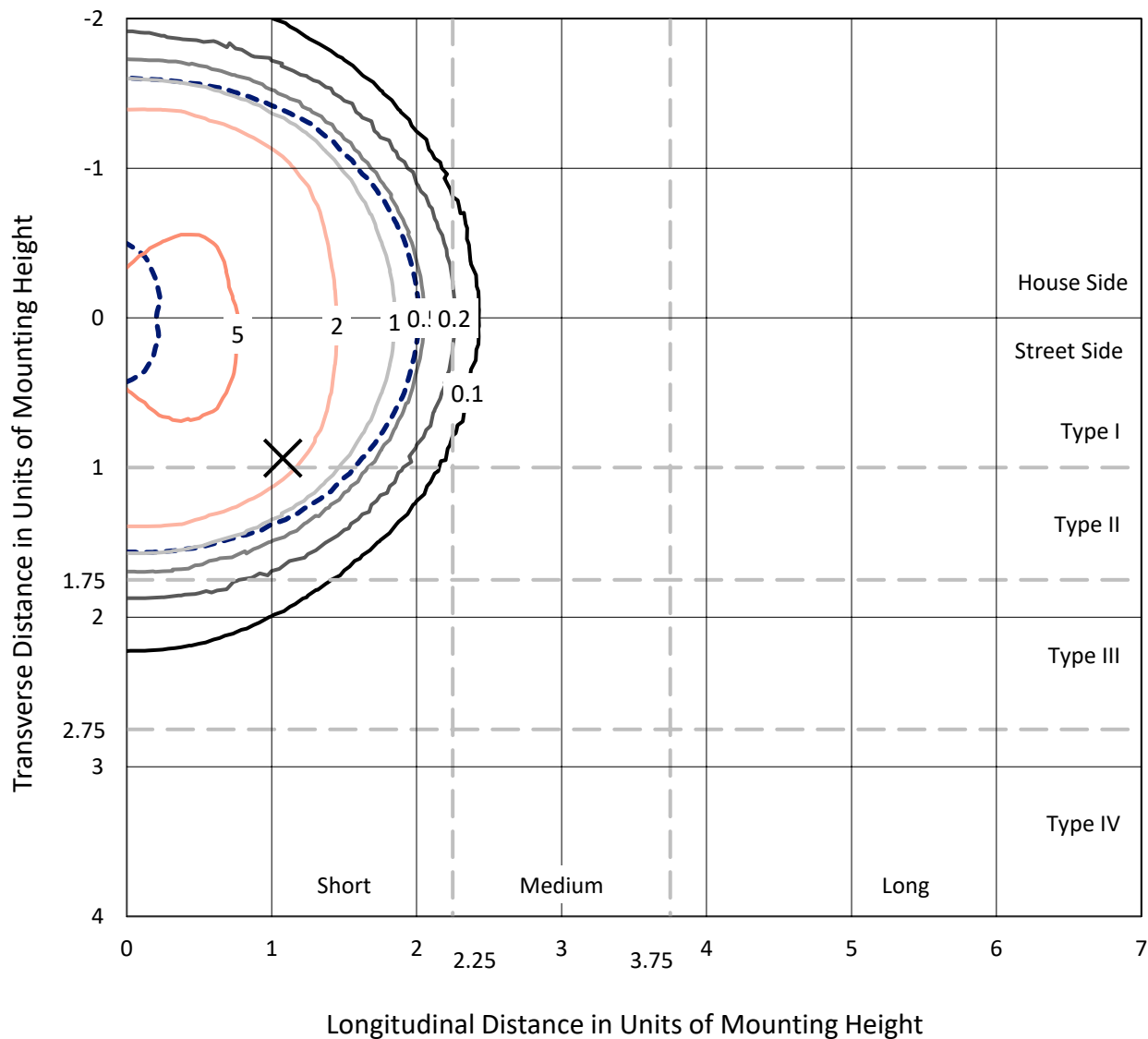
REPORT NUMBER: P637477

CATALOG NUMBER: GWS-SA4C-830-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

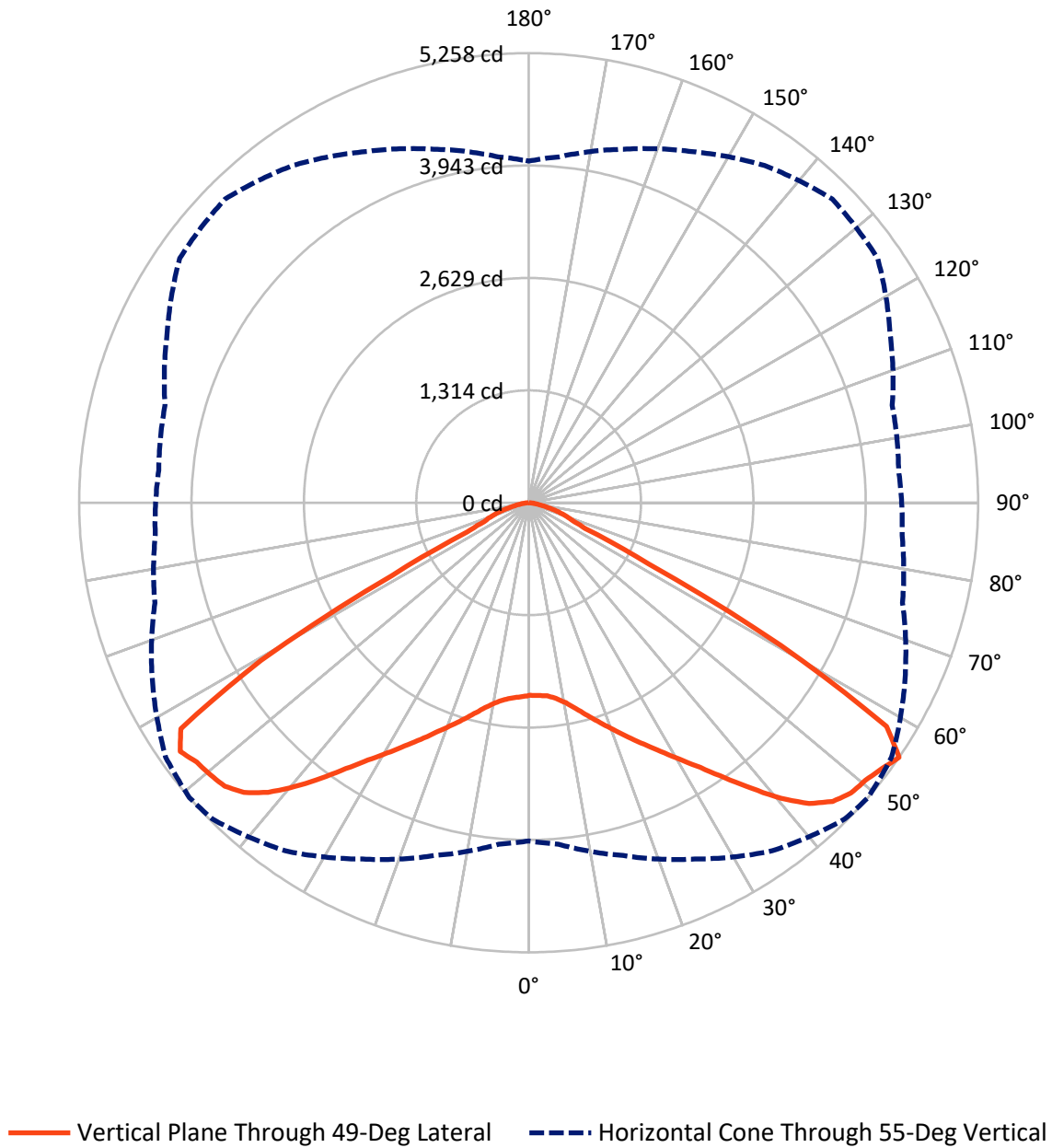


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

REPORT NUMBER: P637477

CATALOG NUMBER: GWS-SA4C-830-U-RW-W-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P637477

CATALOG NUMBER: GWS-SA4C-830-U-RW-W-GRSWH

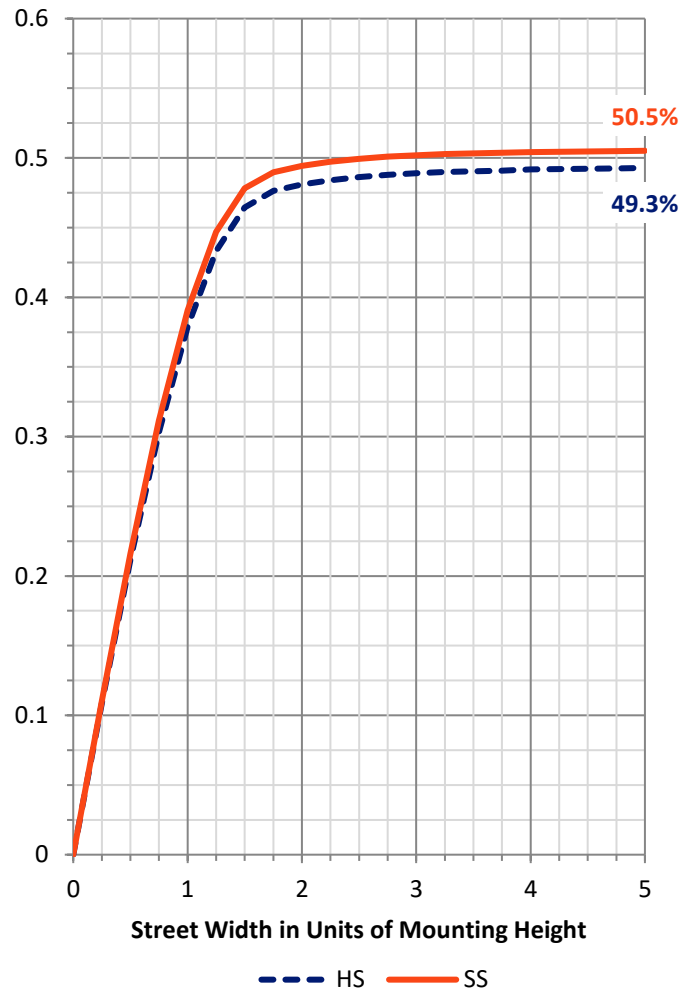
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6730.1	0.0	6730.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	6863.5	0.0	6863.5
	% Fixture	50.5	0.0	50.5
Total	Lumens	13593.6	0.0	13593.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	1.6
10°-20°	724.6	5.3
20°-30°	1380.1	10.2
30°-40°	2339.5	17.2
40°-50°	3520.8	25.9
50°-60°	3853.9	28.4
60°-70°	1218.6	9.0
70°-80°	292.5	2.2
80°-90°	43.9	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°	13593.6	100.0
0°-180°	13593.6	100.0

Coefficient of Utilization



REPORT NUMBER: P637477

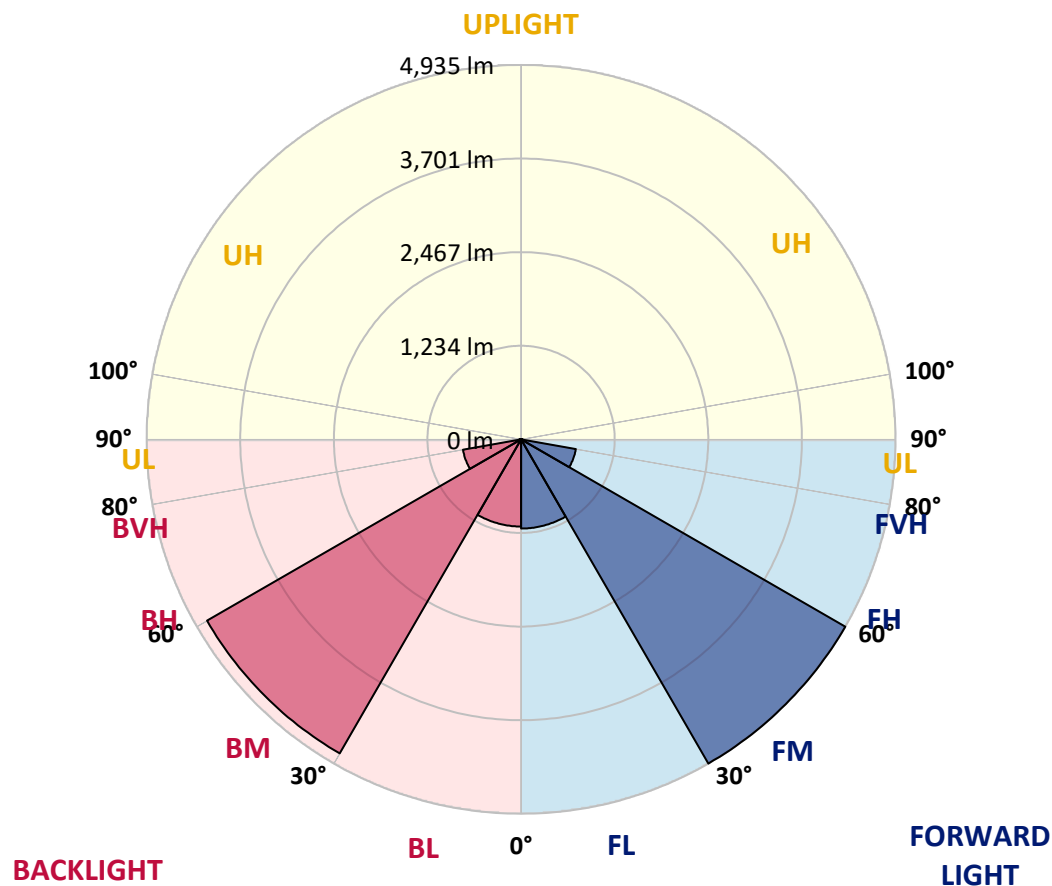
CATALOG NUMBER: GWS-SA4C-830-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1175.3	8.6			
FM	(30°-60°)	4934.9	36.3			
FH	(60°-80°)	733.0	5.4			G1/1800
FVH	(80°-90°)	20.3	0.1			G1/100
BL	(0°-30°)	1149.0	8.5	B3/2500		
BM	(30°-60°)	4779.4	35.2	B3/5000		
BH	(60°-80°)	778.1	5.7	B2/1000		G1/1800
BVH	(80°-90°)	23.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



REPORT NUMBER: P637477

CATALOG NUMBER: GWS-SA4C-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9
2.5°	2218.7	2220.9	2225.3	2233.1	2240.8	2251.9	2256.3	2261.8	2260.7	2267.3	2267.3
5°	2207.6	2211.0	2217.6	2228.6	2241.9	2262.9	2268.4	2281.7	2295.0	2311.6	2317.1
7.5°	2220.9	2225.3	2233.1	2250.8	2270.7	2298.3	2309.3	2331.5	2356.9	2386.7	2398.9
10°	2246.3	2251.9	2265.1	2293.9	2325.9	2367.9	2377.9	2405.5	2446.4	2487.3	2511.7
12.5°	2275.1	2283.9	2308.2	2353.6	2401.1	2456.4	2471.9	2506.1	2550.3	2603.4	2636.6
15°	2308.2	2316.0	2353.6	2417.7	2491.8	2564.7	2582.4	2615.6	2665.3	2717.3	2763.7
17.5°	2377.9	2391.2	2435.4	2509.4	2595.7	2681.9	2701.8	2739.4	2779.2	2820.1	2864.3
20°	2473.0	2484.0	2540.4	2632.1	2733.9	2812.3	2832.2	2865.4	2884.2	2905.2	2942.8
22.5°	2568.0	2583.5	2647.6	2756.0	2875.4	2960.5	2976.0	3006.9	2993.6	2987.0	3011.3
25°	2686.3	2707.3	2770.3	2888.6	3010.2	3115.2	3127.4	3153.9	3131.8	3097.6	3096.4
27.5°	2833.3	2852.1	2917.4	3039.0	3159.5	3268.9	3292.1	3327.5	3278.9	3236.8	3207.0
30°	3008.0	3020.2	3092.0	3221.4	3345.2	3449.1	3478.9	3514.3	3477.8	3408.2	3378.3
32.5°	3211.4	3228.0	3310.9	3446.9	3557.4	3661.3	3691.2	3735.4	3695.6	3617.1	3579.5
35°	3455.7	3472.3	3559.6	3707.8	3820.5	3927.8	3948.8	3985.3	3935.5	3844.9	3815.0
37.5°	3721.0	3742.0	3852.6	3993.0	4111.3	4236.2	4237.3	4248.4	4177.6	4064.8	4031.7
40°	4019.5	4047.2	4157.7	4303.6	4446.2	4547.9	4546.8	4515.9	4396.5	4221.8	4171.0
42.5°	4314.7	4336.8	4448.5	4598.8	4741.4	4837.6	4808.8	4733.7	4561.2	4323.5	4256.1
45°	4528.0	4544.6	4661.8	4830.9	4975.8	5035.5	4983.5	4892.9	4659.6	4387.6	4288.2
47.5°	4628.6	4650.8	4769.0	4937.1	5100.7	5135.0	5073.0	4987.9	4717.1	4447.3	4313.6
50°	4574.5	4603.2	4737.0	4892.9	5077.5	5148.2	5104.0	5018.9	4777.9	4505.9	4358.9
52.5°	4434.1	4461.7	4630.9	4819.9	5028.8	5169.2	5168.1	5098.5	4847.5	4522.5	4361.1
55°	3954.3	4008.5	4271.6	4597.7	4969.1	5231.1	5257.7	5183.6	4858.6	4526.9	4384.3
57.5°	2573.6	2668.6	2918.5	3343.0	4088.1	4758.0	4937.1	4954.8	4779.0	4508.1	4388.8
60°	1074.5	1150.8	1348.7	1630.6	2246.3	3043.4	3390.5	3738.7	4158.8	4311.4	4347.9
62.5°	667.7	674.3	694.2	758.4	964.0	1353.1	1576.4	1902.5	2527.1	3058.9	3304.3
65°	602.5	605.8	610.2	605.8	615.8	663.3	723.0	836.8	1091.1	1355.3	1669.3
67.5°	530.6	535.1	538.4	535.1	538.4	540.6	547.2	557.2	603.6	641.2	669.9
70°	428.9	435.6	441.1	438.9	452.1	452.1	458.8	466.5	489.7	517.4	537.3
72.5°	327.2	321.7	328.3	330.5	342.7	349.3	359.3	368.1	394.7	411.2	436.7
75°	212.3	206.7	216.7	222.2	238.8	247.6	256.5	265.3	284.1	295.2	319.5
77.5°	115.0	113.9	123.8	131.6	149.2	160.3	166.9	173.6	189.0	192.4	207.8
80°	66.3	66.3	73.0	78.5	89.5	101.7	108.3	113.9	124.9	128.2	134.9
82.5°	36.5	36.5	39.8	43.1	52.0	58.6	64.1	68.5	78.5	81.8	85.1
85°	17.7	16.6	18.8	21.0	24.3	27.6	31.0	33.2	40.9	43.1	47.5
87.5°	2.2	2.2	2.2	3.3	4.4	6.6	7.7	7.7	12.2	14.4	16.6
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: P637477

CATALOG NUMBER: GWS-SA4C-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9	2251.9
2.5°	2274.0	2259.6	2268.4	2271.8	2271.8	2268.4	2254.1	2249.7	2243.0	2233.1	2233.1
5°	2324.8	2313.8	2316.0	2310.5	2297.2	2280.6	2254.1	2240.8	2229.8	2217.6	2216.5
7.5°	2412.2	2397.8	2395.6	2374.6	2339.2	2303.8	2264.0	2239.7	2223.1	2207.6	2206.5
10°	2526.0	2512.8	2496.2	2454.2	2402.2	2350.2	2296.1	2262.9	2238.6	2216.5	2215.4
12.5°	2653.2	2637.7	2606.7	2544.8	2479.6	2428.7	2366.8	2316.0	2279.5	2249.7	2244.1
15°	2791.3	2769.2	2716.2	2643.2	2579.1	2524.9	2458.6	2385.6	2330.4	2282.8	2277.3
17.5°	2897.5	2868.7	2811.2	2742.7	2689.6	2635.5	2549.2	2457.5	2377.9	2318.2	2309.3
20°	2970.4	2947.2	2882.0	2831.1	2800.2	2752.6	2652.0	2548.1	2458.6	2383.4	2379.0
22.5°	3037.9	3010.2	2946.1	2916.3	2916.3	2884.2	2788.0	2665.3	2560.3	2473.0	2461.9
25°	3114.1	3084.3	3035.6	3032.3	3047.8	3033.4	2917.4	2785.8	2663.1	2564.7	2547.0
27.5°	3220.3	3187.1	3158.4	3178.3	3200.4	3184.9	3055.5	2903.0	2773.6	2674.2	2658.7
30°	3389.4	3348.5	3322.0	3346.3	3389.4	3344.1	3203.7	3042.3	2911.8	2802.4	2794.7
32.5°	3586.2	3539.7	3512.1	3550.8	3589.5	3518.7	3379.5	3224.7	3087.6	2972.6	2959.4
35°	3822.7	3764.2	3723.3	3775.2	3815.0	3745.4	3607.2	3460.2	3307.6	3188.2	3170.5
37.5°	4032.8	3962.0	3934.4	4007.4	4060.4	4015.1	3864.8	3726.6	3559.6	3429.2	3421.5
40°	4185.3	4115.7	4095.8	4216.3	4309.2	4298.1	4163.2	4005.2	3848.2	3697.8	3683.5
42.5°	4251.7	4203.0	4207.5	4370.0	4513.7	4584.4	4463.9	4294.8	4143.3	3987.5	3977.5
45°	4266.0	4236.2	4271.6	4475.0	4664.0	4808.8	4706.0	4564.5	4393.2	4242.8	4238.4
47.5°	4281.5	4264.9	4319.1	4534.7	4759.1	4927.1	4869.6	4723.7	4550.2	4403.1	4392.1
50°	4318.0	4311.4	4372.2	4576.7	4804.4	4959.2	4894.0	4749.1	4571.2	4426.3	4399.8
52.5°	4329.1	4318.0	4405.3	4641.9	4879.6	4958.1	4817.7	4628.6	4449.6	4288.2	4260.5
55°	4363.3	4343.4	4403.1	4666.2	4983.5	5022.2	4813.3	4530.3	4280.4	4060.4	3995.2
57.5°	4372.2	4350.1	4388.8	4626.4	4870.7	4836.5	4230.7	3655.8	3184.9	2940.6	2968.2
60°	4324.6	4331.3	4264.9	4238.4	3906.8	3449.1	2590.1	2070.6	1626.2	1438.2	1479.1
62.5°	3292.1	3319.8	3093.1	2689.6	2068.4	1639.4	1084.5	842.4	713.0	679.9	685.4
65°	1661.5	1699.1	1463.7	1210.5	899.9	727.4	629.0	609.1	602.5	594.7	594.7
67.5°	657.8	668.8	660.0	618.0	574.8	559.4	555.0	552.7	545.0	540.6	541.7
70°	528.4	537.3	524.0	497.5	479.8	478.7	476.5	472.0	466.5	466.5	469.8
72.5°	431.1	440.0	421.2	404.6	391.3	381.4	375.9	372.5	364.8	364.8	368.1
75°	317.3	322.8	307.3	305.1	290.7	280.8	271.9	267.5	257.6	253.2	256.5
77.5°	211.1	210.0	202.3	202.3	196.8	184.6	174.7	164.7	151.5	142.6	144.8
80°	137.1	137.1	133.8	133.8	128.2	118.3	106.1	96.2	88.4	81.8	81.8
82.5°	87.3	86.2	85.1	84.0	81.8	71.9	63.0	56.4	50.9	46.4	47.5
85°	48.6	48.6	46.4	46.4	42.0	36.5	32.1	27.6	24.3	23.2	23.2
87.5°	16.6	16.6	15.5	15.5	13.3	9.9	7.7	6.6	5.5	4.4	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



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 $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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 ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /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 $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

TM-30-18

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)