

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: P633551

Luminaire Tested: GWS-SA2E-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10162.2 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

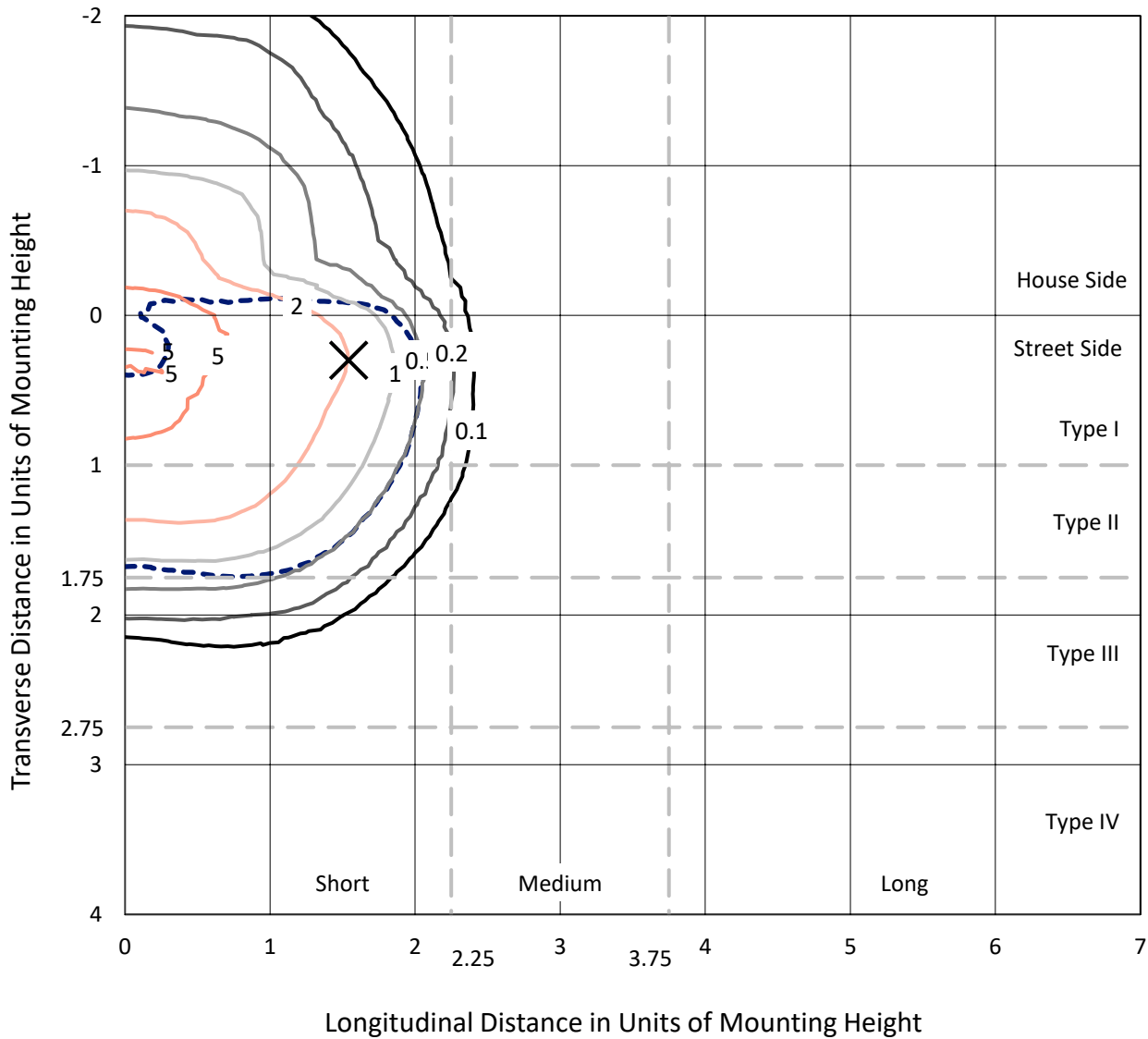
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633551
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Iso-Footcandle Lines of Horizontal Illumination

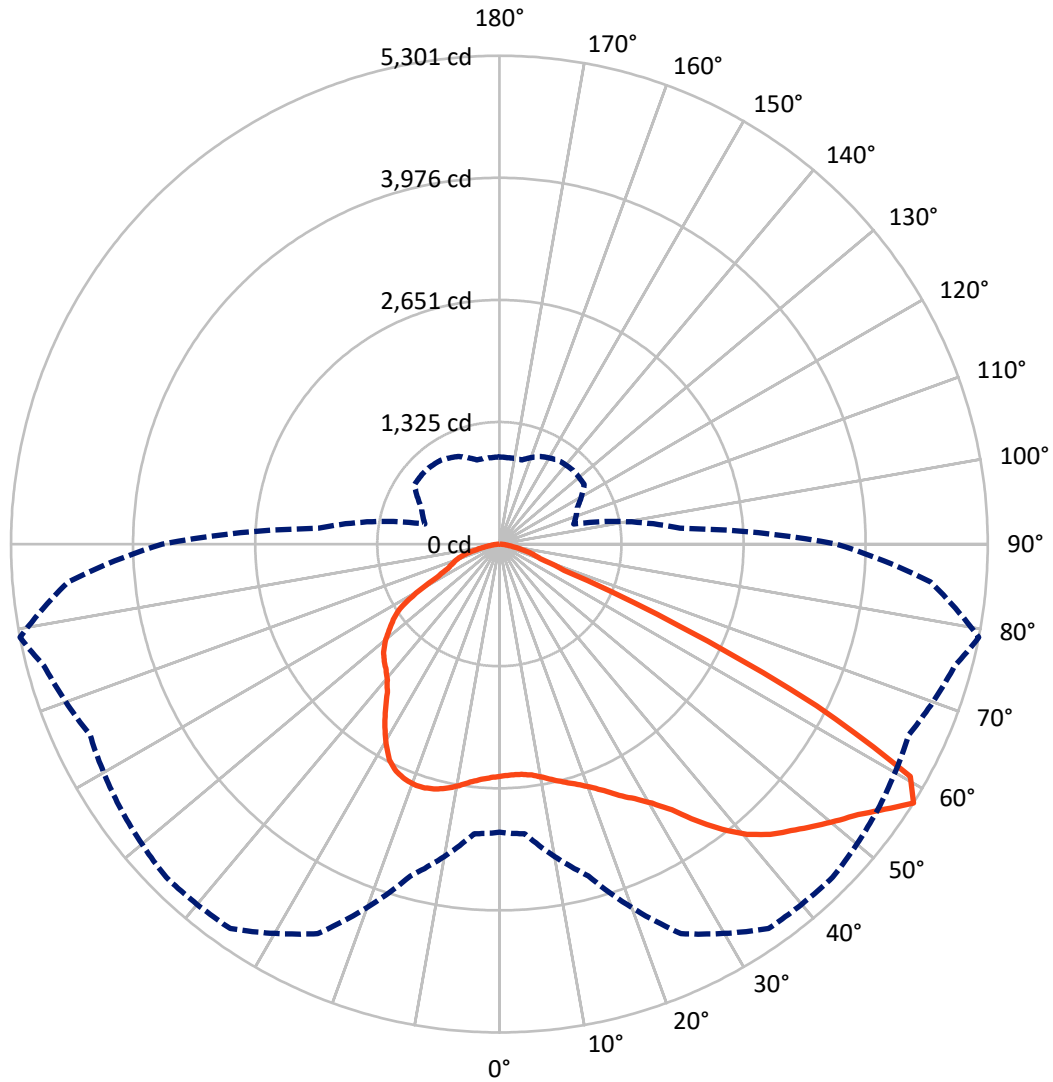
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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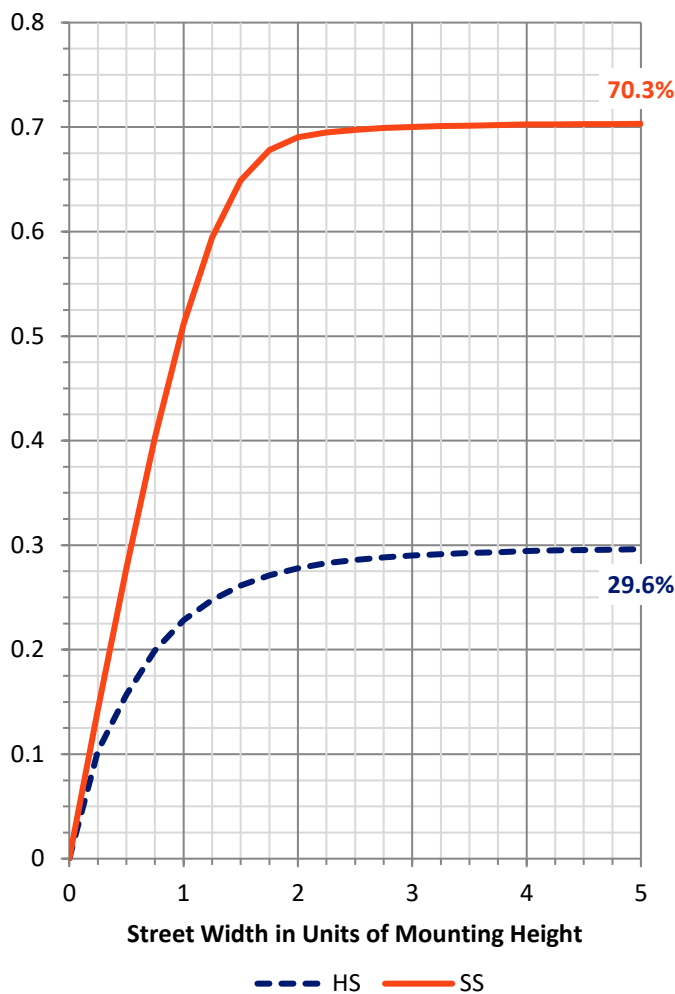
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3020.8	0.0	3020.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	7141.4	0.0	7141.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	10162.2	0.0	10162.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	2.3
10°-20°	648.1	6.4
20°-30°	1098.6	10.8
30°-40°	1681.6	16.5
40°-50°	2242.2	22.1
50°-60°	2589.6	25.5
60°-70°	1345.7	13.2
70°-80°	286.0	2.8
80°-90°	37.0	0.4
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°	10162.2	100.0
0°-180°	10162.2	100.0

Coefficient of Utilization



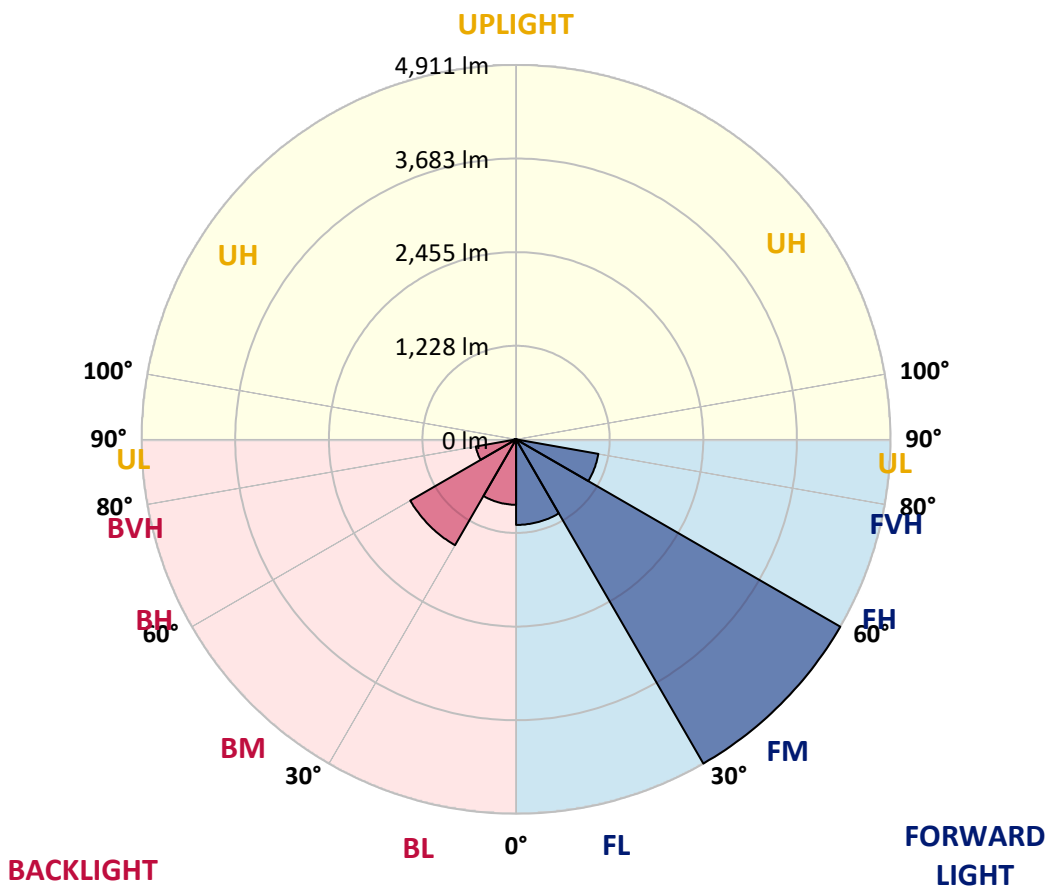
REPORT NUMBER: P633551

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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°)	1122.1	11.0			
FM (30°-60°)	4910.7	48.3			
FH (60°-80°)	1095.7	10.8			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	857.9	8.4	B2/1000		
BM (30°-60°)	1602.8	15.8	B2/2500		
BH (60°-80°)	536.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	24.1	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4
2.5°	2403.8	2398.8	2400.4	2407.1	2432.0	2450.3	2469.4	2486.9	2503.5	2508.5	2512.6
5°	2318.2	2309.0	2311.5	2322.3	2351.4	2382.2	2416.2	2457.8	2497.7	2511.0	2528.4
7.5°	2257.5	2255.9	2260.0	2276.6	2307.4	2336.5	2380.5	2439.5	2508.5	2530.9	2561.6
10°	2176.9	2173.6	2190.2	2224.3	2275.0	2321.5	2373.9	2443.6	2540.0	2573.3	2620.6
12.5°	2113.0	2111.3	2128.7	2176.1	2240.9	2314.9	2387.1	2465.3	2582.4	2628.1	2686.3
15°	2150.3	2142.9	2143.7	2176.9	2235.1	2322.3	2420.4	2504.3	2624.8	2682.9	2757.7
17.5°	2259.2	2245.9	2235.9	2241.7	2275.0	2365.5	2471.1	2556.6	2673.8	2741.9	2833.3
20°	2409.6	2402.1	2374.7	2356.4	2363.9	2443.6	2550.8	2630.6	2737.8	2814.2	2912.3
22.5°	2611.5	2593.2	2555.8	2526.7	2504.3	2566.6	2665.5	2734.5	2826.7	2906.5	3008.7
25°	2861.6	2835.0	2776.0	2730.3	2682.1	2746.1	2834.2	2886.5	2948.8	3022.8	3120.0
27.5°	3116.7	3094.2	3028.6	2967.1	2907.3	2947.2	3051.9	3081.8	3075.1	3129.1	3212.2
30°	3388.4	3360.1	3297.8	3231.3	3154.1	3179.8	3273.7	3288.7	3218.0	3262.9	3319.4
32.5°	3675.0	3647.6	3593.6	3516.3	3429.1	3439.1	3464.8	3478.9	3411.6	3437.4	3480.6
35°	3966.7	3940.9	3886.1	3809.6	3745.7	3685.0	3620.2	3676.7	3637.6	3687.5	3684.2
37.5°	4233.4	4207.6	4173.6	4114.6	4004.9	3885.2	3735.7	3805.5	3866.1	3929.3	3918.5
40°	4413.7	4396.2	4404.5	4395.4	4254.2	4017.4	3792.2	3868.6	4034.0	4142.0	4136.2
42.5°	4569.1	4551.6	4599.8	4634.7	4468.5	4139.5	3819.6	3892.7	4141.2	4309.8	4301.5
45°	4638.0	4633.0	4712.8	4823.3	4664.6	4269.1	3890.2	3942.6	4222.6	4438.6	4407.0
47.5°	4555.8	4573.2	4730.3	4917.2	4827.5	4422.8	4034.8	4048.1	4328.9	4578.2	4489.3
50°	4392.1	4430.3	4642.2	4919.7	4946.3	4596.5	4235.0	4201.8	4471.9	4726.9	4532.5
52.5°	4153.6	4193.5	4539.2	4900.6	5014.4	4797.6	4501.8	4454.4	4652.2	4875.7	4540.0
55°	3606.1	3660.1	4303.2	4857.4	5080.9	4980.4	4802.5	4706.2	4884.8	5080.1	4613.9
57.5°	3128.3	3156.6	3728.2	4665.4	5094.2	5115.0	5016.9	4902.3	5115.8	5301.1	4697.0
60°	2295.7	2302.4	2816.7	3860.3	4686.2	5036.9	4999.5	4829.1	5006.1	5124.1	4316.5
62.5°	1297.0	1297.9	1708.3	2576.6	3500.5	4105.4	4128.7	3978.3	3829.6	3864.5	3004.5
65°	486.9	532.6	780.2	1266.3	2018.2	2423.7	2520.1	2555.0	2307.4	2153.7	1611.1
67.5°	325.7	336.5	455.3	651.4	898.2	1037.0	1159.9	1163.2	850.8	758.6	634.8
70°	248.4	259.2	358.1	466.1	455.3	420.4	454.5	442.0	457.0	469.5	482.7
72.5°	185.3	196.1	277.5	329.0	273.4	269.2	304.9	339.0	370.6	383.9	404.6
75°	123.0	131.3	187.0	176.1	151.2	178.6	222.7	256.7	275.0	290.8	306.6
77.5°	78.1	83.9	99.7	80.6	83.9	104.7	129.6	160.4	177.8	193.6	201.9
80°	35.7	34.9	34.1	38.2	47.4	61.5	78.1	96.4	109.7	116.3	121.3
82.5°	14.1	15.8	17.4	20.8	25.8	33.2	44.0	56.5	67.3	69.0	73.1
85°	5.8	6.6	7.5	9.1	11.6	15.0	18.3	25.8	32.4	34.9	37.4
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	2.5	4.2	7.5	8.3	9.1
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4	2518.4
2.5°	2535.0	2524.2	2542.5	2555.0	2566.6	2554.2	2550.0	2539.2	2537.5	2537.5	2543.4
5°	2558.3	2550.8	2569.9	2577.4	2576.6	2549.2	2532.6	2511.0	2500.1	2500.1	2501.8
7.5°	2599.9	2595.7	2606.5	2594.9	2568.3	2512.6	2457.8	2412.1	2381.3	2365.5	2370.5
10°	2668.8	2663.8	2654.7	2611.5	2535.0	2419.6	2307.4	2224.3	2174.4	2146.2	2147.9
12.5°	2736.1	2727.8	2695.4	2599.9	2442.8	2259.2	2112.1	2019.1	1964.2	1931.0	1923.5
15°	2810.1	2788.5	2718.7	2540.0	2292.4	2063.1	1909.4	1808.8	1749.9	1729.9	1729.1
17.5°	2880.7	2842.5	2716.2	2433.7	2112.1	1857.9	1703.3	1641.0	1631.0	1640.2	1642.7
20°	2952.2	2890.7	2688.8	2286.6	1897.8	1653.5	1573.7	1599.5	1636.9	1661.8	1667.6
22.5°	3026.1	2930.5	2626.4	2097.2	1671.8	1515.5	1548.8	1605.3	1651.8	1685.0	1688.4
25°	3109.2	2967.9	2533.4	1865.3	1490.6	1477.3	1543.0	1602.8	1652.6	1690.9	1697.5
27.5°	3156.6	2968.8	2402.9	1626.9	1407.5	1462.4	1528.8	1585.3	1635.2	1676.7	1684.2
30°	3203.1	2946.3	2196.0	1433.3	1383.4	1444.9	1504.7	1557.1	1604.4	1645.2	1654.3
32.5°	3268.7	2925.6	1957.6	1321.9	1369.3	1428.3	1477.3	1523.9	1560.4	1578.7	1583.7
35°	3350.1	2899.0	1704.2	1273.8	1360.2	1415.0	1458.2	1483.1	1435.8	1425.8	1436.6
37.5°	3464.0	2874.0	1451.6	1253.0	1354.4	1410.0	1448.2	1384.3	1326.1	1302.8	1311.1
40°	3587.0	2859.9	1280.4	1236.4	1356.8	1415.0	1406.7	1312.0	1228.1	1179.0	1177.4
42.5°	3691.6	2838.3	1170.7	1225.6	1363.5	1434.1	1350.2	1248.0	1123.4	1094.3	1095.1
45°	3762.3	2783.5	1112.6	1213.9	1369.3	1438.3	1323.6	1159.9	1071.0	1052.7	1051.9
47.5°	3791.4	2683.8	1075.2	1195.7	1368.5	1404.2	1269.6	1123.4	1034.5	1029.5	1032.8
50°	3772.2	2520.1	1037.0	1159.9	1348.5	1368.5	1207.3	1091.0	1009.5	1037.0	1056.9
52.5°	3701.6	2308.2	991.3	1110.9	1312.8	1327.8	1175.7	1071.0	991.3	1027.8	1043.6
55°	3683.3	2136.2	933.1	1046.9	1259.6	1255.5	1142.5	1061.0	978.8	964.7	967.2
57.5°	3659.2	1968.4	836.7	932.3	1125.0	1131.7	1110.9	1049.4	946.4	942.2	946.4
60°	3179.0	1508.9	746.1	804.3	923.9	959.7	1075.2	1027.8	894.0	876.6	875.8
62.5°	2076.4	914.0	663.9	701.3	752.8	794.3	980.5	965.5	836.7	825.9	833.4
65°	1116.7	651.4	604.1	626.5	654.7	686.3	812.6	860.0	756.1	717.9	718.7
67.5°	570.8	554.2	559.2	575.0	596.6	612.4	655.6	697.1	644.8	612.4	611.5
70°	488.6	501.9	509.3	518.5	532.6	530.1	534.3	541.7	537.6	521.8	521.0
72.5°	416.3	437.0	438.7	440.4	445.4	433.7	426.2	413.8	414.6	417.1	417.9
75°	316.6	336.5	341.5	339.0	344.0	329.0	319.1	306.6	291.6	289.1	290.8
77.5°	206.1	221.8	229.3	227.7	230.2	218.5	213.5	200.2	182.8	176.1	176.1
80°	124.6	133.8	139.6	141.3	143.7	135.4	127.1	115.5	108.0	100.5	100.5
82.5°	75.6	81.4	85.6	85.6	88.1	78.9	72.3	64.0	60.7	54.0	54.0
85°	38.2	42.4	44.0	43.2	41.5	34.1	31.6	27.4	25.8	22.4	22.4
87.5°	9.1	11.6	11.6	8.3	8.3	4.2	2.5	0.8	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

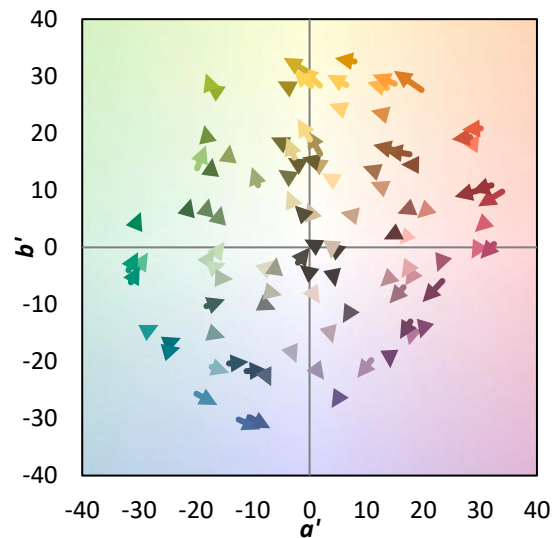
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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