

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: P636022

Luminaire Tested: GWS-SA3E-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-830-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14910.6 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

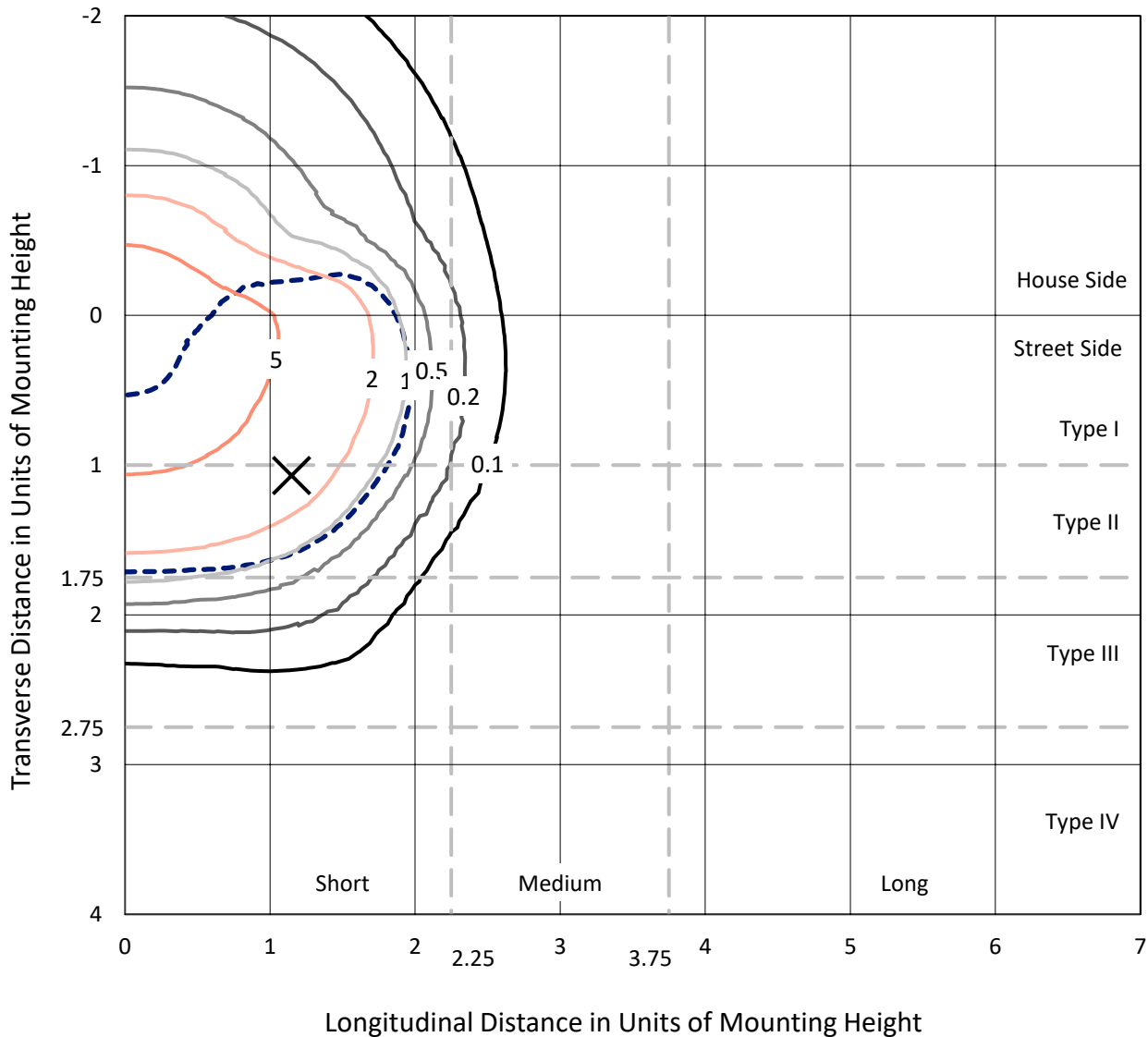
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636022
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Iso-Footcandle Lines of Horizontal Illumination

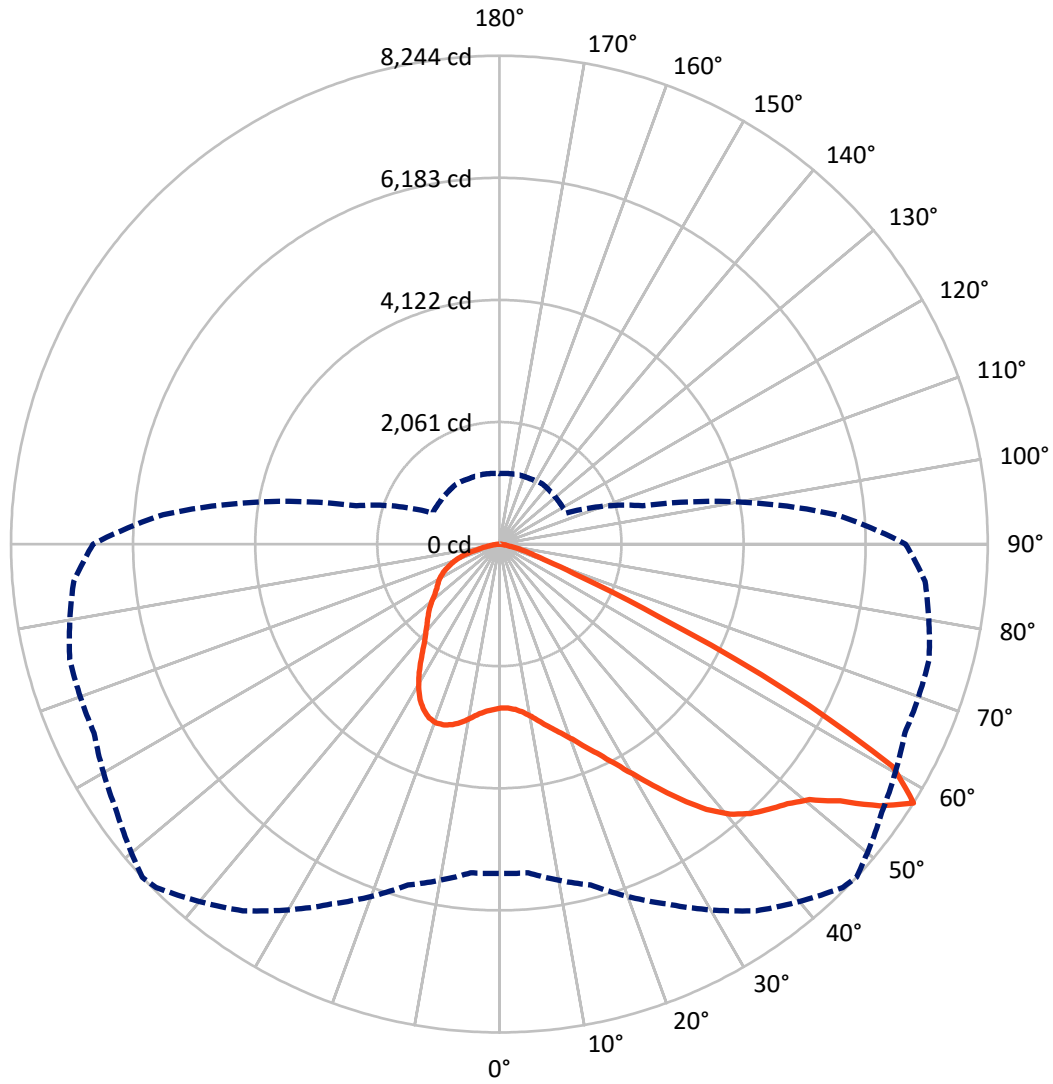
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4719.2	0.0	4719.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10191.4	0.0	10191.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	14910.6	0.0	14910.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.8
10°-20°	897.0	6.0
20°-30°	1615.2	10.8
30°-40°	2439.6	16.4
40°-50°	3285.2	22.0
50°-60°	3947.6	26.5
60°-70°	1922.6	12.9
70°-80°	473.7	3.2
80°-90°	56.9	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°	14910.6	100.0
0°-180°	14910.6	100.0

Coefficient of Utilization



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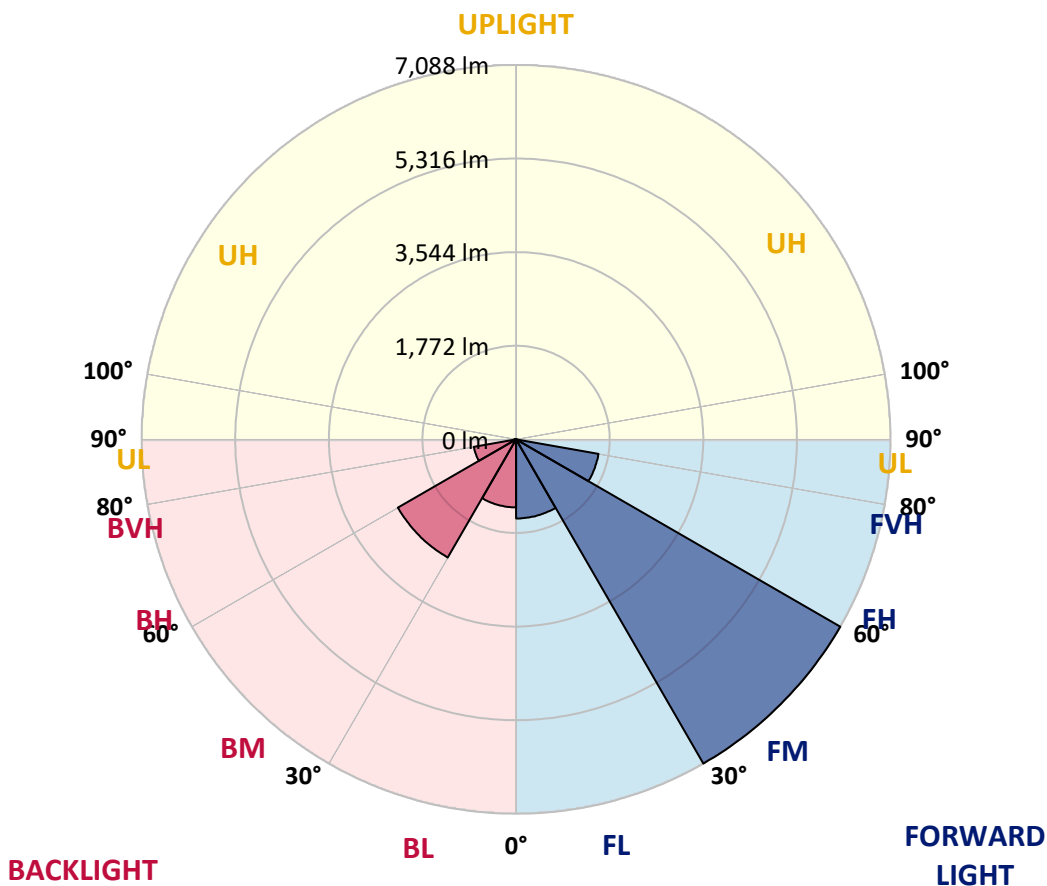
CATALOG NUMBER: GWS-SA3E-830-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1497.7	10.0			
FM (30°-60°)	7087.8	47.5			
FH (60°-80°)	1584.5	10.6			G1/1800
FVH (80°-90°)	21.4	0.1			G1/100
BL (0°-30°)	1287.3	8.6	B3/2500		
BM (30°-60°)	2584.7	17.3	B3/5000		
BH (60°-80°)	811.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	35.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2
2.5°	2760.2	2758.9	2758.9	2766.4	2766.4	2768.9	2772.7	2776.5	2777.7	2771.5	2757.7
5°	2790.2	2790.2	2790.2	2796.5	2796.5	2799.0	2804.0	2805.3	2804.0	2794.0	2780.2
7.5°	2837.8	2837.8	2839.1	2846.6	2852.9	2856.6	2865.4	2864.1	2860.4	2844.1	2826.6
10°	2915.5	2919.2	2923.0	2931.8	2944.3	2953.0	2959.3	2959.3	2954.3	2929.3	2906.7
12.5°	3025.7	3030.7	3034.4	3042.0	3052.0	3067.0	3080.8	3080.8	3074.5	3043.2	3009.4
15°	3154.7	3159.7	3158.4	3160.9	3179.7	3201.0	3212.3	3219.8	3222.3	3178.5	3125.9
17.5°	3302.5	3307.5	3302.5	3294.9	3297.4	3331.3	3351.3	3378.8	3395.1	3336.3	3252.4
20°	3436.5	3431.4	3431.4	3436.5	3444.0	3485.3	3515.4	3560.4	3580.5	3509.1	3378.8
22.5°	3578.0	3589.2	3584.2	3584.2	3614.3	3683.2	3719.5	3778.3	3799.6	3707.0	3531.6
25°	3760.8	3770.8	3768.3	3770.8	3805.9	3903.6	3939.9	4048.9	4070.1	3937.4	3700.7
27.5°	3961.2	3977.5	3985.0	3982.5	4038.8	4166.6	4211.7	4363.2	4402.0	4195.4	3881.0
30°	4221.7	4239.2	4245.5	4243.0	4309.3	4483.4	4534.8	4707.6	4762.7	4501.0	4110.2
32.5°	4523.5	4541.0	4559.8	4567.3	4652.5	4830.3	4904.2	5083.3	5162.2	4854.1	4387.0
35°	4822.8	4837.8	4874.2	4933.0	5049.5	5231.1	5296.2	5472.8	5549.2	5221.1	4721.4
37.5°	5153.4	5163.4	5194.8	5276.2	5444.0	5616.8	5681.9	5851.0	5859.8	5575.5	5099.6
40°	5515.4	5515.4	5509.1	5589.2	5764.6	5938.7	5995.0	6092.7	6041.3	5848.5	5467.8
42.5°	5822.2	5817.2	5822.2	5897.3	6027.6	6169.1	6217.9	6199.1	6134.0	6057.6	5800.9
45°	6099.0	6102.7	6147.8	6205.4	6273.0	6356.9	6385.7	6279.3	6220.4	6225.4	6067.6
47.5°	6286.8	6290.6	6395.8	6492.2	6533.5	6559.8	6547.3	6399.5	6369.5	6425.8	6273.0
50°	6311.9	6331.9	6513.5	6711.4	6814.0	6817.8	6782.7	6602.4	6593.6	6657.5	6383.2
52.5°	6316.9	6336.9	6563.6	6920.5	7187.2	7243.6	7203.5	7015.7	6924.3	6860.4	6518.5
55°	6298.1	6320.6	6571.1	7060.8	7571.7	7797.1	7800.9	7535.4	7243.6	7201.0	6904.2
57.5°	5560.4	5569.2	5957.4	6703.8	7556.7	8195.4	8244.2	7883.6	7550.4	7510.4	7213.5
60°	3873.5	3908.6	4330.6	5316.2	6348.2	7474.0	7631.8	7526.6	7303.7	7011.9	6189.1
62.5°	1939.9	1969.9	2393.2	3325.0	4378.2	5267.4	5436.5	5547.9	5600.5	5287.4	4214.2
65°	835.3	857.9	1120.9	1737.0	2478.4	2908.0	2966.8	3100.8	3428.9	3059.5	2270.5
67.5°	558.5	573.6	707.6	1059.5	1460.2	1487.8	1479.0	1507.8	1579.2	1303.7	1025.7
70°	428.3	440.8	531.0	776.5	1049.5	897.9	850.3	771.4	837.8	854.1	831.6
72.5°	310.6	320.6	388.2	529.7	657.5	573.6	566.1	606.1	696.3	721.4	707.6
75°	200.4	205.4	246.7	290.5	339.4	368.2	383.2	455.9	547.3	566.1	549.8
77.5°	134.0	137.8	161.6	186.6	192.9	194.1	199.1	231.7	294.3	329.4	325.6
80°	70.1	70.1	78.9	78.9	90.2	107.7	112.7	134.0	162.8	180.3	181.6
82.5°	27.6	28.8	33.8	37.6	45.1	55.1	58.9	70.1	85.2	97.7	109.0
85°	11.3	12.5	13.8	16.3	20.0	25.0	26.3	30.1	40.1	50.1	56.4
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	3.8	5.0	6.3	11.3	15.0
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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CATALOG NUMBER: GWS-SA3E-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2	2765.2
2.5°	2774.0	2757.7	2774.0	2779.0	2792.7	2797.8	2789.0	2787.7	2787.7	2775.2	2771.5
5°	2792.7	2777.7	2794.0	2801.5	2821.5	2834.1	2836.6	2846.6	2852.9	2847.8	2846.6
7.5°	2839.1	2820.3	2837.8	2849.1	2875.4	2895.4	2904.2	2926.7	2943.0	2940.5	2939.3
10°	2920.5	2895.4	2915.5	2934.3	2963.1	2986.9	2988.1	3000.6	3016.9	3011.9	3009.4
12.5°	3014.4	2990.6	3013.2	3031.9	3065.8	3075.8	3059.5	3054.5	3057.0	3050.7	3045.7
15°	3129.6	3095.8	3115.9	3137.1	3155.9	3144.7	3109.6	3095.8	3094.6	3085.8	3080.8
17.5°	3244.8	3202.3	3217.3	3228.6	3219.8	3184.7	3140.9	3117.1	3105.8	3088.3	3083.3
20°	3358.8	3305.0	3302.5	3293.7	3253.6	3189.7	3130.9	3083.3	3054.5	3030.7	3021.9
22.5°	3489.1	3413.9	3376.3	3336.3	3248.6	3144.7	3055.7	2988.1	2941.8	2911.7	2901.7
25°	3629.3	3522.9	3445.2	3365.1	3198.5	3048.2	2924.2	2831.6	2776.5	2743.9	2732.6
27.5°	3768.3	3621.8	3505.3	3368.8	3098.3	2909.2	2742.6	2617.4	2562.3	2536.0	2527.2
30°	3956.2	3753.3	3576.7	3320.0	2966.8	2716.4	2508.5	2382.0	2345.7	2326.9	2319.4
32.5°	4172.8	3919.9	3671.9	3217.3	2799.0	2490.9	2271.8	2184.1	2159.1	2122.7	2121.5
35°	4458.4	4157.8	3762.1	3065.8	2587.4	2249.2	2090.2	2027.6	1982.5	1924.9	1919.9
37.5°	4791.5	4454.6	3810.9	2872.9	2340.6	2050.1	1954.9	1884.8	1812.2	1735.8	1725.7
40°	5135.9	4801.5	3814.7	2645.0	2098.9	1918.6	1838.5	1747.0	1656.9	1571.7	1560.4
42.5°	5497.8	5124.6	3748.3	2382.0	1901.1	1804.6	1723.2	1608.0	1506.6	1449.0	1442.7
45°	5820.9	5385.1	3598.0	2105.2	1754.5	1709.5	1605.5	1481.5	1427.7	1386.4	1377.6
47.5°	6075.2	5557.9	3395.1	1857.2	1635.6	1611.8	1476.5	1412.7	1371.3	1333.8	1325.0
50°	6200.4	5596.8	3130.9	1655.6	1525.4	1496.6	1403.9	1355.0	1327.5	1297.4	1289.9
52.5°	6355.7	5640.6	2903.0	1486.5	1417.7	1378.8	1343.8	1305.0	1284.9	1266.1	1259.9
55°	6712.6	5805.9	2782.7	1351.3	1315.0	1297.4	1292.4	1259.9	1253.6	1241.1	1229.8
57.5°	6857.9	5699.5	2498.4	1241.1	1233.6	1236.1	1248.6	1218.5	1212.3	1197.2	1189.7
60°	5515.4	4308.1	1691.9	1145.9	1165.9	1182.2	1194.7	1164.7	1155.9	1153.4	1143.4
62.5°	3534.1	2650.0	1181.0	1057.0	1087.0	1107.1	1114.6	1085.8	1079.5	1099.6	1100.8
65°	1839.7	1444.0	958.0	961.8	986.9	1016.9	1031.9	1021.9	1019.4	1040.7	1042.0
67.5°	939.3	882.9	835.3	849.1	869.1	908.0	943.0	986.9	1001.9	1004.4	1005.6
70°	800.3	775.2	751.4	760.2	781.5	802.8	836.6	857.9	832.8	826.6	824.0
72.5°	681.3	662.5	651.2	661.2	672.5	668.8	658.7	668.8	672.5	673.8	675.0
75°	529.7	516.0	507.2	508.5	508.5	494.7	475.9	464.6	452.1	442.1	442.1
77.5°	324.4	326.9	335.6	334.4	333.1	328.1	309.3	299.3	269.3	260.5	260.5
80°	185.3	189.1	197.9	200.4	200.4	194.1	175.3	164.1	150.3	144.0	142.8
82.5°	112.7	117.7	122.7	125.2	126.5	119.0	102.7	93.9	86.4	80.2	80.2
85°	58.9	61.4	66.4	67.6	63.9	56.4	47.6	43.8	36.3	35.1	35.1
87.5°	16.3	17.5	20.0	16.3	15.0	11.3	6.3	5.0	2.5	1.3	1.3
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



CCT = 3050K
 CIE x = 0.4383
 CIE y = 0.4131
 Duv = 0.0034

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			

REPORT NUMBER: SP1-2408-195-9

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)