

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: P635002

Luminaire Tested: GWS-SA3C-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635002
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-SA3C-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 9768.6 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

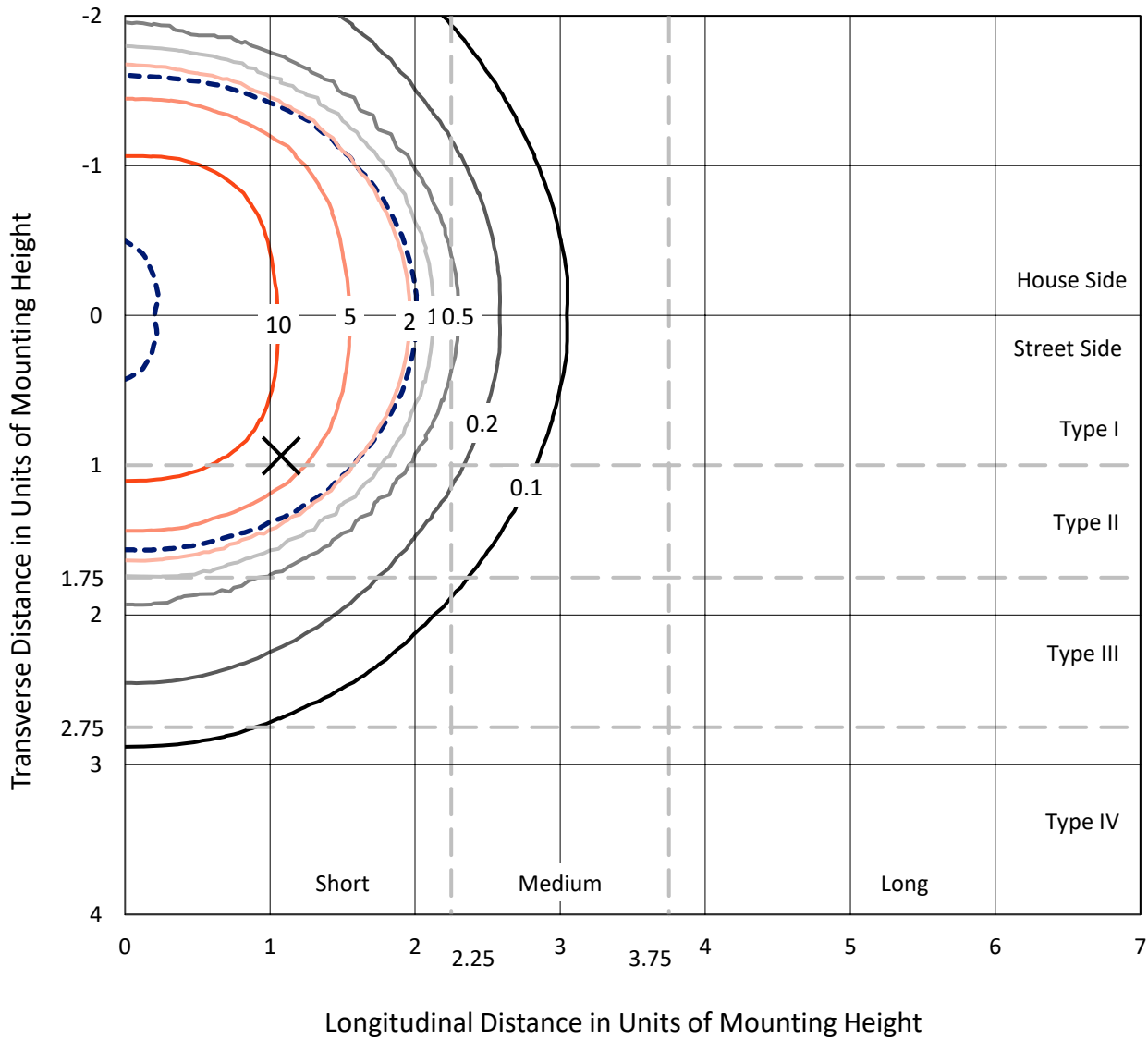
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P635002
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Iso-Footcandle Lines of Horizontal Illumination

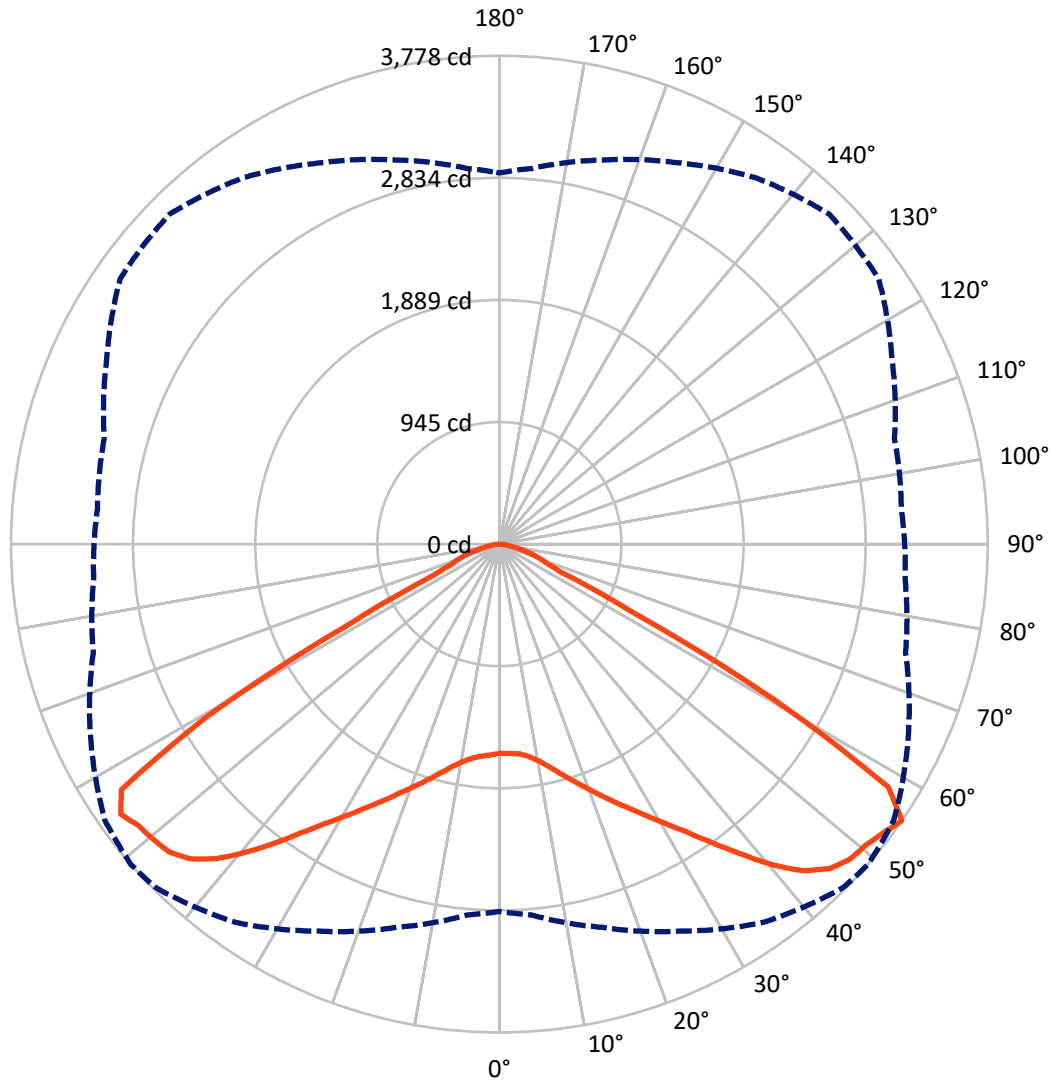
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 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	4836.4	0.0	4836.4
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	4932.2	0.0	4932.2
	% Fixture	50.5	0.0	50.5
Total	Lumens	9768.6	0.0	9768.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.6
10°-20°	520.7	5.3
20°-30°	991.8	10.2
30°-40°	1681.2	17.2
40°-50°	2530.1	25.9
50°-60°	2769.5	28.4
60°-70°	875.7	9.0
70°-80°	210.2	2.2
80°-90°	31.5	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°	9768.6	100.0
0°-180°	9768.6	100.0

Coefficient of Utilization



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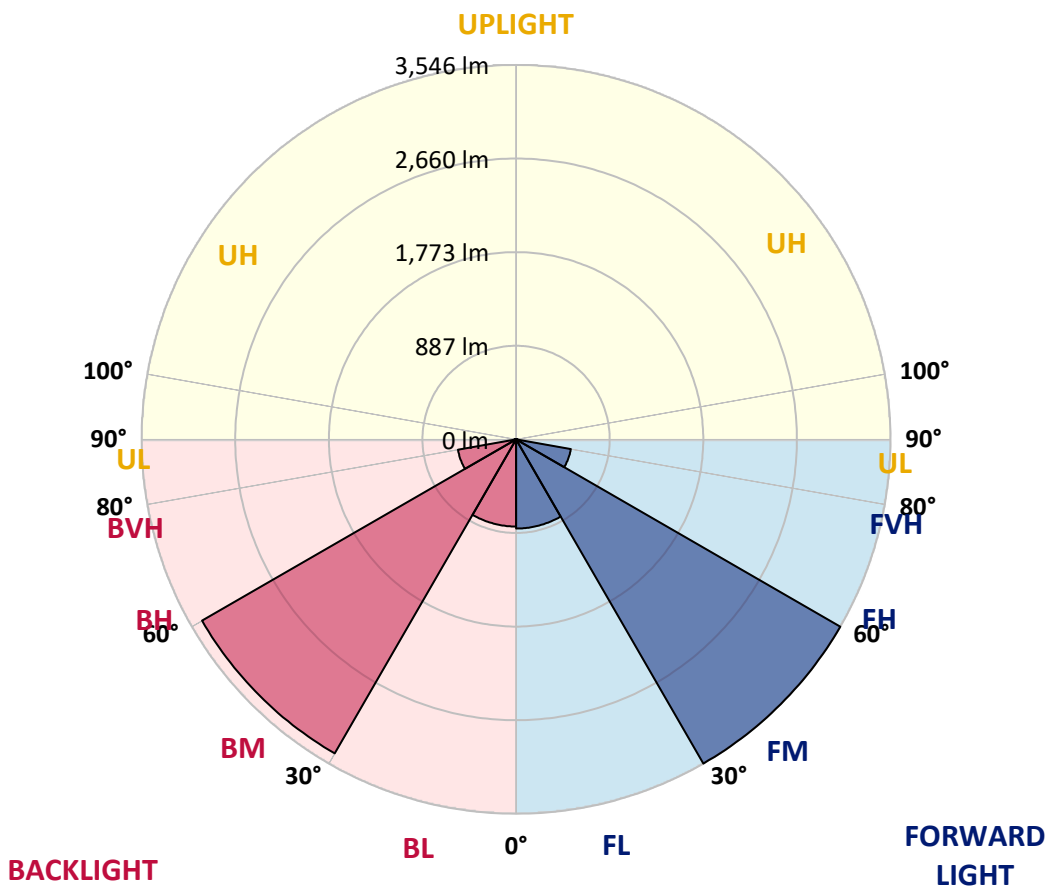
CATALOG NUMBER: GWS-SA3C-830-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.6	8.6			
FM (30°-60°)	3546.3	36.3			
FH (60°-80°)	526.8	5.4			G0/660
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	825.7	8.5	B2/1000		
BM (30°-60°)	3434.6	35.2	B3/5000		
BH (60°-80°)	559.1	5.7	B2/1000		G0/660
BVH (80°-90°)	16.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CATALOG NUMBER: GWS-SA3C-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2
2.5°	1594.4	1596.0	1599.2	1604.7	1610.3	1618.2	1621.4	1625.4	1624.6	1629.3	1629.3
5°	1586.5	1588.8	1593.6	1601.5	1611.1	1626.2	1630.1	1639.7	1649.2	1661.1	1665.1
7.5°	1596.0	1599.2	1604.7	1617.4	1631.7	1651.6	1659.5	1675.4	1693.7	1715.1	1723.9
10°	1614.3	1618.2	1627.8	1648.4	1671.5	1701.6	1708.8	1728.7	1758.0	1787.4	1804.9
12.5°	1634.9	1641.3	1658.7	1691.3	1725.5	1765.2	1776.3	1800.9	1832.7	1870.9	1894.7
15°	1658.7	1664.3	1691.3	1737.4	1790.6	1843.0	1855.8	1879.6	1915.3	1952.7	1986.0
17.5°	1708.8	1718.3	1750.1	1803.3	1865.3	1927.3	1941.6	1968.6	1997.2	2026.6	2058.3
20°	1777.1	1785.1	1825.6	1891.5	1964.6	2021.0	2035.3	2059.1	2072.6	2087.7	2114.7
22.5°	1845.4	1856.6	1902.6	1980.5	2066.3	2127.4	2138.6	2160.8	2151.3	2146.5	2164.0
25°	1930.4	1945.5	1990.8	2075.8	2163.2	2238.7	2247.4	2266.5	2250.6	2226.0	2225.2
27.5°	2036.1	2049.6	2096.5	2183.9	2270.4	2349.1	2365.8	2391.2	2356.2	2326.1	2304.6
30°	2161.6	2170.3	2222.0	2314.9	2403.9	2478.6	2500.0	2525.5	2499.2	2449.2	2427.7
32.5°	2307.8	2319.7	2379.3	2477.0	2556.4	2631.1	2652.6	2684.3	2655.7	2599.3	2572.3
35°	2483.3	2495.3	2558.0	2664.5	2745.5	2822.6	2837.7	2863.9	2828.1	2763.0	2741.5
37.5°	2674.0	2689.1	2768.5	2869.4	2954.4	3044.2	3045.0	3052.9	3002.1	2921.1	2897.2
40°	2888.5	2908.4	2987.8	3092.7	3195.1	3268.2	3267.4	3245.2	3159.4	3033.9	2997.3
42.5°	3100.6	3116.5	3196.7	3304.8	3407.3	3476.4	3455.7	3401.7	3277.8	3107.0	3058.5
45°	3253.9	3265.8	3350.1	3471.6	3575.7	3618.6	3581.2	3516.1	3348.5	3153.0	3081.5
47.5°	3326.2	3342.1	3427.1	3547.9	3665.4	3690.1	3645.6	3584.4	3389.8	3195.9	3099.8
50°	3287.3	3308.0	3404.1	3516.1	3648.8	3699.6	3667.8	3606.7	3433.5	3238.0	3132.4
52.5°	3186.4	3206.3	3327.8	3463.7	3613.8	3714.7	3713.9	3663.9	3483.5	3250.0	3134.0
55°	2841.6	2880.6	3069.6	3304.0	3570.9	3759.2	3778.2	3725.0	3491.5	3253.1	3150.7
57.5°	1849.4	1917.7	2097.3	2402.3	2937.8	3419.2	3547.9	3560.6	3434.3	3239.6	3153.8
60°	772.2	827.0	969.2	1171.8	1614.3	2187.0	2436.5	2686.7	2988.6	3098.2	3124.4
62.5°	479.8	484.6	498.9	545.0	692.7	972.4	1132.8	1367.2	1816.0	2198.2	2374.5
65°	433.0	435.3	438.5	435.3	442.5	476.7	519.5	601.4	784.1	974.0	1199.6
67.5°	381.3	384.5	386.9	384.5	386.9	388.5	393.2	400.4	433.8	460.8	481.4
70°	308.2	313.0	317.0	315.4	324.9	324.9	329.7	335.2	351.9	371.8	386.1
72.5°	235.1	231.2	235.9	237.5	246.3	251.0	258.2	264.5	283.6	295.5	313.8
75°	152.5	148.6	155.7	159.7	171.6	177.9	184.3	190.7	204.2	212.1	229.6
77.5°	82.6	81.8	89.0	94.5	107.2	115.2	120.0	124.7	135.8	138.2	149.4
80°	47.7	47.7	52.4	56.4	64.3	73.1	77.9	81.8	89.8	92.2	96.9
82.5°	26.2	26.2	28.6	31.0	37.3	42.1	46.1	49.3	56.4	58.8	61.2
85°	12.7	11.9	13.5	15.1	17.5	19.9	22.2	23.8	29.4	31.0	34.2
87.5°	1.6	1.6	1.6	2.4	3.2	4.8	5.6	5.6	8.7	10.3	11.9
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-SA3C-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2
2.5°	1634.1	1623.8	1630.1	1632.5	1632.5	1630.1	1619.8	1616.6	1611.9	1604.7	1604.7
5°	1670.7	1662.7	1664.3	1660.3	1650.8	1638.9	1619.8	1610.3	1602.3	1593.6	1592.8
7.5°	1733.4	1723.1	1721.5	1706.4	1681.0	1655.6	1627.0	1609.5	1597.6	1586.5	1585.7
10°	1815.2	1805.7	1793.8	1763.6	1726.3	1688.9	1650.0	1626.2	1608.7	1592.8	1592.0
12.5°	1906.6	1895.5	1873.2	1828.7	1781.9	1745.3	1700.8	1664.3	1638.1	1616.6	1612.7
15°	2005.9	1990.0	1951.9	1899.5	1853.4	1814.4	1766.8	1714.4	1674.6	1640.5	1636.5
17.5°	2082.2	2061.5	2020.2	1970.9	1932.8	1893.9	1831.9	1766.0	1708.8	1665.9	1659.5
20°	2134.6	2117.9	2071.0	2034.5	2012.3	1978.1	1905.8	1831.1	1766.8	1712.8	1709.6
22.5°	2183.1	2163.2	2117.1	2095.7	2095.7	2072.6	2003.5	1915.3	1839.9	1777.1	1769.2
25°	2237.9	2216.4	2181.5	2179.1	2190.2	2179.9	2096.5	2001.9	1913.8	1843.0	1830.3
27.5°	2314.1	2290.3	2269.6	2283.9	2299.8	2288.7	2195.8	2086.1	1993.2	1921.7	1910.6
30°	2435.7	2406.3	2387.2	2404.7	2435.7	2403.1	2302.2	2186.2	2092.5	2013.8	2008.3
32.5°	2577.1	2543.7	2523.9	2551.7	2579.5	2528.6	2428.5	2317.3	2218.8	2136.2	2126.7
35°	2747.1	2705.0	2675.6	2712.9	2741.5	2691.5	2592.2	2486.5	2376.9	2291.1	2278.4
37.5°	2898.0	2847.2	2827.3	2879.8	2917.9	2885.3	2777.3	2678.0	2558.0	2464.3	2458.7
40°	3007.7	2957.6	2943.3	3029.9	3096.6	3088.7	2991.8	2878.2	2765.4	2657.3	2647.0
42.5°	3055.3	3020.4	3023.6	3140.3	3243.6	3294.4	3207.9	3086.3	2977.5	2865.5	2858.3
45°	3065.7	3044.2	3069.6	3215.8	3351.6	3455.7	3381.8	3280.1	3157.0	3049.0	3045.8
47.5°	3076.8	3064.9	3103.8	3258.7	3420.0	3540.7	3499.4	3394.5	3269.8	3164.2	3156.2
50°	3103.0	3098.2	3141.9	3288.9	3452.5	3563.8	3516.9	3412.8	3284.9	3180.8	3161.8
52.5°	3110.9	3103.0	3165.8	3335.8	3506.6	3563.0	3462.1	3326.2	3197.5	3081.5	3061.7
55°	3135.6	3121.3	3164.2	3353.2	3581.2	3609.0	3458.9	3255.5	3076.0	2917.9	2871.0
57.5°	3141.9	3126.0	3153.8	3324.6	3500.2	3475.6	3040.2	2627.1	2288.7	2113.1	2133.0
60°	3107.8	3112.5	3064.9	3045.8	2807.5	2478.6	1861.3	1487.9	1168.6	1033.5	1062.9
62.5°	2365.8	2385.6	2222.8	1932.8	1486.4	1178.1	779.3	605.3	512.4	488.6	492.5
65°	1194.0	1221.0	1051.8	869.9	646.7	522.7	452.0	437.7	433.0	427.4	427.4
67.5°	472.7	480.6	474.3	444.1	413.1	402.0	398.8	397.2	391.6	388.5	389.3
70°	379.7	386.1	376.6	357.5	344.8	344.0	342.4	339.2	335.2	335.2	337.6
72.5°	309.8	316.2	302.7	290.8	281.2	274.1	270.1	267.7	262.2	262.2	264.5
75°	228.0	232.0	220.8	219.3	208.9	201.8	195.4	192.2	185.1	181.9	184.3
77.5°	151.7	150.9	145.4	145.4	141.4	132.7	125.5	118.4	108.8	102.5	104.1
80°	98.5	98.5	96.1	96.1	92.2	85.0	76.3	69.1	63.6	58.8	58.8
82.5°	62.8	62.0	61.2	60.4	58.8	51.6	45.3	40.5	36.5	33.4	34.2
85°	35.0	35.0	33.4	33.4	30.2	26.2	23.0	19.9	17.5	16.7	16.7
87.5°	11.9	11.9	11.1	11.1	9.5	7.1	5.6	4.8	4.0	3.2	4.0
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



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			

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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)