

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: P632524

Luminaire Tested: GWS-SA2C-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-830-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6165.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

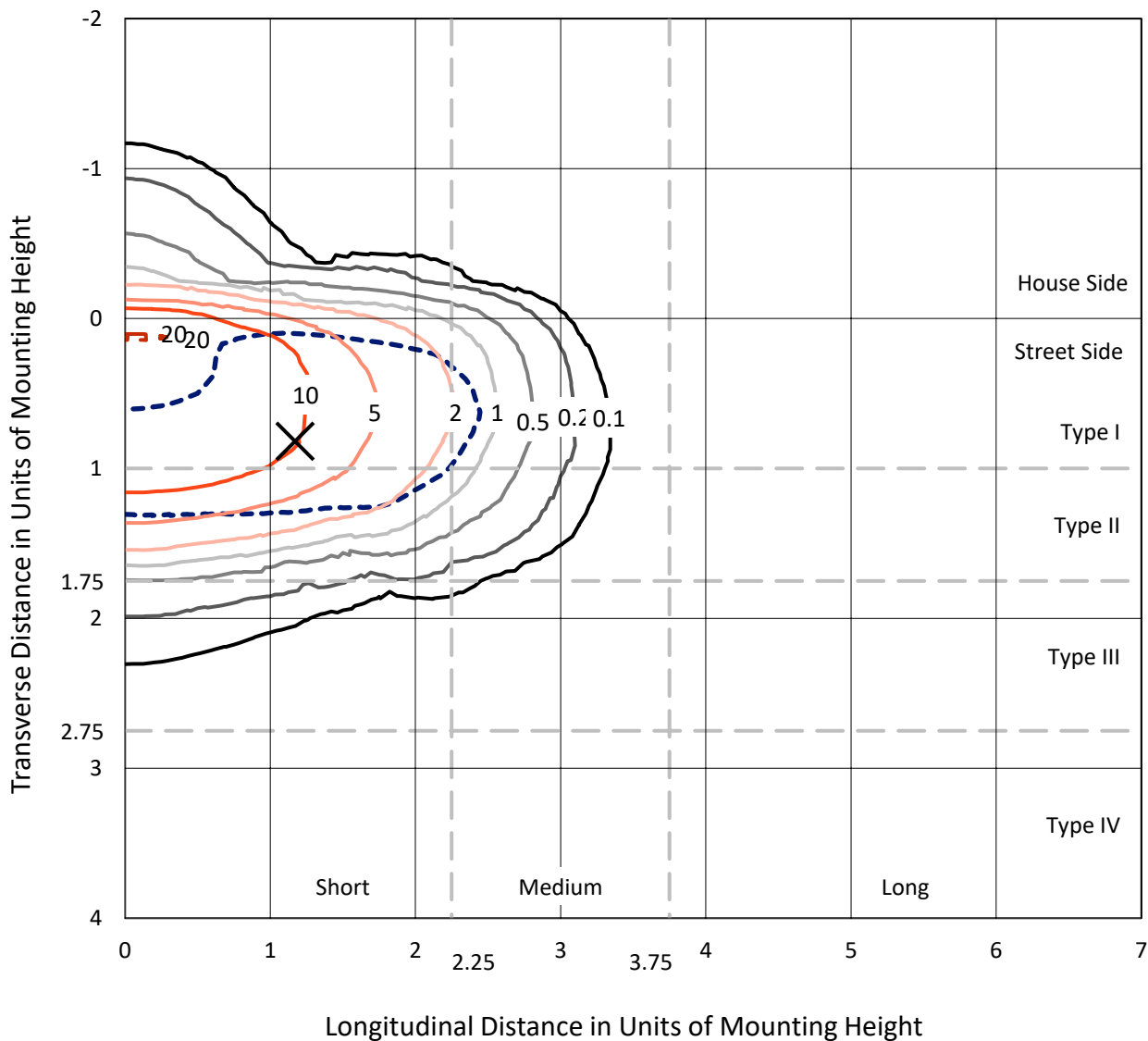
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

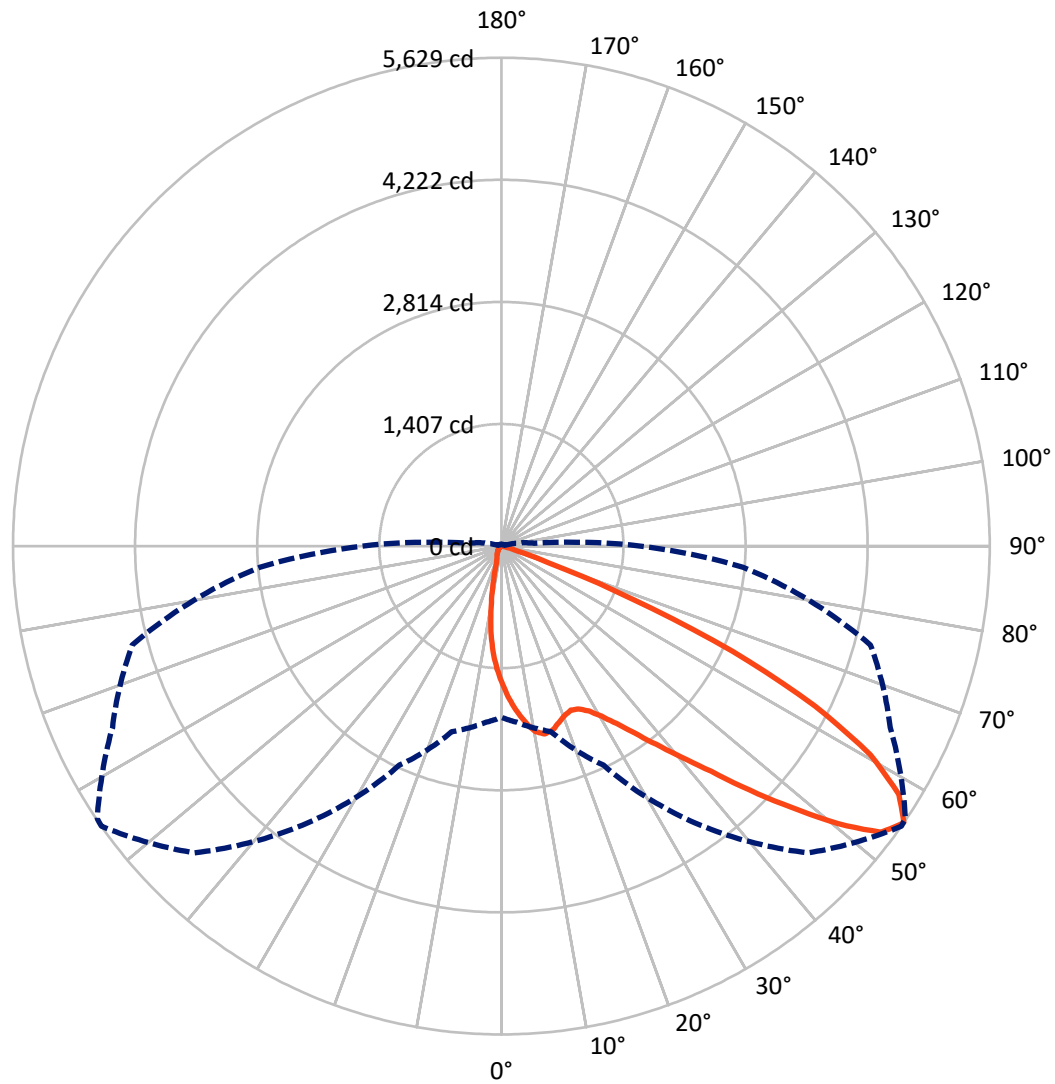


Based on 10 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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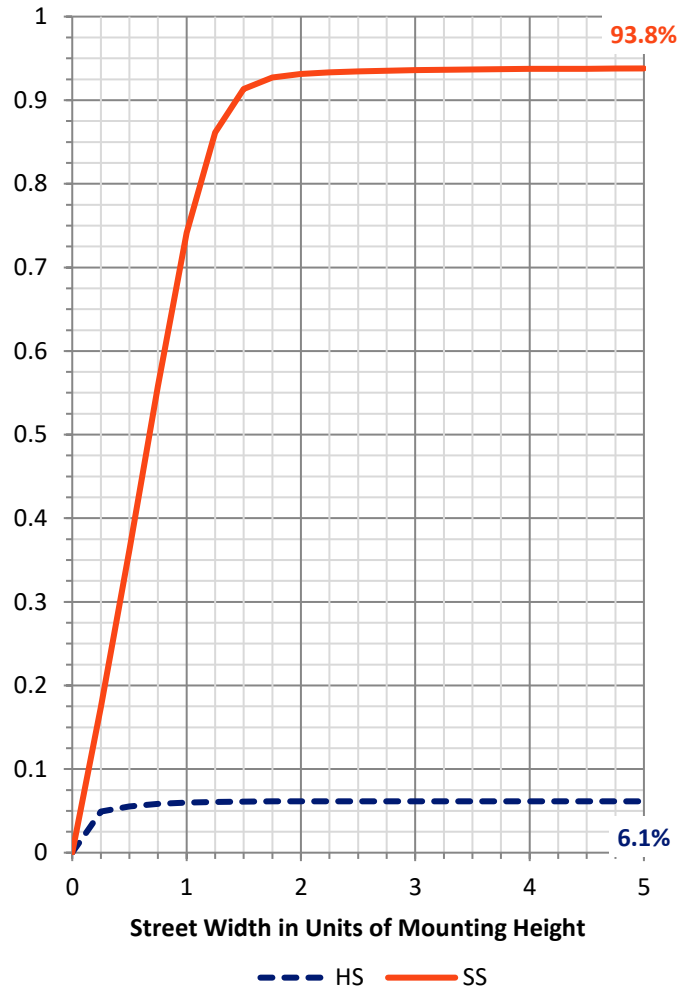
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	380.4	0.0	380.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	5785.2	0.0	5785.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	6165.6	0.0	6165.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	2.3
10°-20°	339.4	5.5
20°-30°	565.2	9.2
30°-40°	963.1	15.6
40°-50°	1572.1	25.5
50°-60°	1646.0	26.7
60°-70°	830.2	13.5
70°-80°	104.9	1.7
80°-90°	4.0	0.1
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°	6165.6	100.0
0°-180°	6165.6	100.0

Coefficient of Utilization



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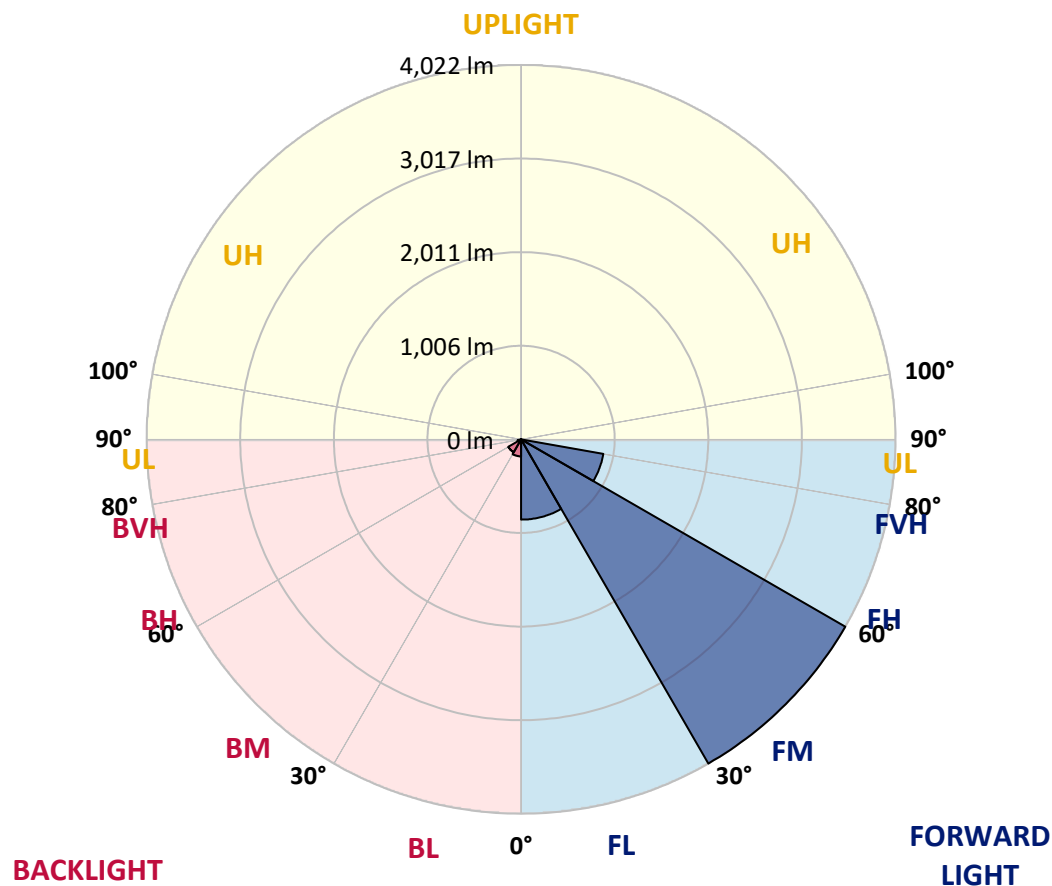
CATALOG NUMBER: GWS-SA2C-830-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	862.5	14.0			
FM	(30°-60°)	4022.2	65.2			
FH	(60°-80°)	896.9	14.5			G1/1800
FVH	(80°-90°)	3.6	0.1			G0/10
BL	(0°-30°)	182.9	3.0	B1/500		
BM	(30°-60°)	159.1	2.6	B0/220		
BH	(60°-80°)	38.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8
2.5°	1856.9	1847.9	1861.6	1845.8	1818.9	1796.3	1766.8	1756.2	1708.8	1664.0	1620.8
5°	2082.5	2085.1	2080.9	2058.8	2020.8	1978.7	1919.1	1905.9	1823.2	1737.8	1645.5
7.5°	2138.4	2136.8	2145.7	2154.2	2147.8	2126.8	2061.9	2048.8	1946.0	1817.9	1683.5
10°	1966.0	1967.1	1985.5	2042.4	2113.1	2186.3	2176.3	2168.9	2068.3	1908.5	1725.7
12.5°	1722.5	1732.0	1751.5	1832.7	1952.3	2118.9	2222.2	2229.5	2180.5	2008.2	1775.2
15°	1617.1	1619.2	1635.0	1684.0	1773.1	1978.7	2202.7	2223.2	2274.3	2108.3	1829.0
17.5°	1614.4	1617.1	1623.9	1645.5	1703.5	1868.5	2139.9	2175.8	2345.0	2215.8	1893.3
20°	1713.5	1711.9	1707.2	1695.6	1720.9	1832.1	2082.0	2121.5	2383.4	2320.7	1958.1
22.5°	1893.3	1891.2	1870.1	1822.1	1801.6	1865.3	2053.5	2089.3	2406.6	2414.0	2011.3
25°	2100.4	2115.2	2075.6	2002.9	1952.3	1950.2	2078.8	2104.1	2426.7	2496.8	2047.7
27.5°	2327.6	2332.3	2298.6	2216.9	2143.6	2086.2	2152.1	2171.0	2448.8	2570.6	2068.3
30°	2576.9	2575.3	2536.8	2442.0	2352.9	2270.1	2275.4	2282.8	2500.5	2654.9	2090.9
32.5°	2888.4	2895.2	2826.7	2697.6	2590.6	2476.2	2436.7	2437.7	2593.8	2763.5	2125.2
35°	3311.6	3294.8	3204.1	3020.2	2837.8	2714.5	2647.0	2641.2	2737.6	2909.5	2184.7
37.5°	3714.8	3716.4	3621.6	3419.2	3188.8	2994.3	2898.9	2883.1	2940.0	3111.9	2283.8
40°	3994.7	4000.0	3960.5	3854.5	3610.5	3335.4	3195.1	3178.8	3202.5	3368.0	2413.5
42.5°	4142.8	4157.6	4168.7	4193.4	4008.4	3761.2	3545.7	3544.1	3519.3	3660.0	2563.7
45°	4148.6	4170.8	4238.2	4407.4	4428.5	4247.2	4012.6	3977.3	3881.9	3972.6	2698.1
47.5°	3919.4	3970.5	4113.8	4449.1	4670.4	4730.5	4498.1	4476.5	4208.7	4219.8	2798.8
50°	3384.9	3438.1	3702.2	4235.6	4731.6	5114.2	5031.0	4986.2	4481.7	4383.2	2847.3
52.5°	2836.7	2885.2	3064.4	3727.5	4478.1	5234.9	5480.0	5426.8	4726.8	4440.1	2827.2
55°	1973.9	2038.7	2213.7	2786.1	3894.1	4999.9	5628.7	5617.6	4945.6	4404.3	2796.1
57.5°	967.7	1032.0	1206.5	1717.7	2884.7	4365.3	5401.5	5460.0	5076.3	4365.8	2770.8
60°	404.3	430.6	490.7	753.7	1613.9	3299.0	4888.6	4969.8	4996.2	4313.6	2768.2
62.5°	234.5	238.8	245.1	312.6	627.7	1891.2	4055.3	4170.8	4575.0	4244.6	2726.6
65°	177.1	178.7	176.0	191.9	259.3	717.4	2930.0	3087.1	3818.7	3974.7	2562.1
67.5°	145.5	145.5	138.6	141.8	162.9	268.8	1617.6	1836.9	2825.7	3266.8	2115.7
70°	116.0	118.6	115.4	111.2	116.5	148.6	575.6	713.7	1645.5	1929.1	1233.9
72.5°	88.0	88.0	93.3	90.1	86.4	93.3	200.8	225.6	660.4	804.3	445.4
75°	68.0	70.1	73.8	70.6	65.4	55.3	96.5	102.3	199.2	187.1	99.6
77.5°	34.8	35.3	46.9	51.7	48.5	33.7	42.2	46.4	64.8	58.0	36.9
80°	21.1	22.1	26.4	40.6	32.2	17.9	17.4	18.4	30.6	26.4	15.3
82.5°	9.0	9.5	14.8	14.8	13.2	6.9	6.9	6.9	14.8	13.7	6.3
85°	0.0	0.0	2.6	2.1	2.1	2.6	2.6	2.6	3.7	5.3	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	1.6
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°	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8	1592.8
2.5°	1592.8	1559.1	1513.8	1472.7	1417.3	1386.2	1343.0	1307.7	1277.6	1268.1	1263.9
5°	1593.4	1535.4	1438.4	1341.4	1222.3	1128.5	1032.0	955.6	892.9	872.8	867.6
7.5°	1603.9	1518.5	1361.4	1185.4	986.2	821.7	674.7	542.9	481.7	461.2	457.0
10°	1618.1	1504.3	1272.4	998.3	712.1	500.7	354.7	270.4	230.3	208.2	211.4
12.5°	1636.6	1492.7	1173.8	795.9	471.2	275.1	195.0	163.4	155.0	150.7	148.6
15°	1661.4	1479.0	1051.5	595.1	288.8	177.1	150.2	141.8	138.6	136.5	136.0
17.5°	1686.6	1463.2	927.1	418.5	191.9	147.1	134.9	130.7	128.6	127.0	126.5
20°	1713.5	1436.3	781.1	288.3	151.3	132.3	124.4	119.6	117.0	114.4	113.8
22.5°	1725.1	1393.1	641.5	201.9	134.4	121.8	111.7	105.9	102.8	100.7	100.7
25°	1714.1	1323.0	497.0	153.4	122.3	110.2	100.1	93.8	91.2	89.1	89.1
27.5°	1684.5	1232.8	362.6	127.0	109.1	98.0	88.5	82.8	80.6	79.6	79.6
30°	1651.9	1119.0	255.6	109.1	94.3	85.4	77.5	73.8	73.3	72.2	72.2
32.5°	1623.9	1012.5	176.0	95.9	83.3	74.3	69.0	67.5	68.0	66.9	67.5
35°	1608.6	908.2	130.7	85.4	74.3	65.9	63.2	63.2	63.2	62.7	62.7
37.5°	1615.0	805.4	106.5	78.0	66.4	60.1	57.5	58.5	59.6	59.6	59.6
40°	1646.6	714.2	94.3	71.2	59.6	54.8	52.7	54.3	55.9	56.9	56.9
42.5°	1686.6	640.4	85.4	65.4	54.8	49.5	48.5	50.1	51.7	52.7	52.7
45°	1711.9	566.1	76.4	58.0	50.1	43.7	43.7	45.9	45.3	45.9	45.9
47.5°	1723.5	507.0	67.5	50.1	42.7	37.9	38.5	39.5	38.5	39.5	39.5
50°	1695.1	447.5	59.6	41.6	35.3	33.2	34.3	33.7	33.7	35.8	35.8
52.5°	1642.9	403.2	52.7	35.3	30.0	29.5	30.6	28.5	29.0	29.0	28.5
55°	1604.4	377.9	46.9	30.6	25.8	26.4	25.8	22.1	20.0	17.9	17.4
57.5°	1585.5	367.9	42.7	27.4	23.2	23.2	21.1	15.3	11.6	9.0	7.9
60°	1581.2	355.8	38.5	23.7	20.6	19.5	15.3	9.0	5.8	4.2	3.7
62.5°	1541.2	326.3	34.8	19.0	17.9	15.8	9.5	5.3	3.2	2.1	1.6
65°	1409.9	268.3	31.1	14.8	13.7	11.6	5.8	3.2	1.6	0.5	0.0
67.5°	1121.6	190.3	27.4	11.1	9.5	7.4	3.7	2.1	0.5	0.0	0.0
70°	646.7	102.8	22.7	7.9	6.3	4.7	2.6	1.1	0.0	0.0	0.0
72.5°	216.1	48.0	17.4	5.3	4.7	3.7	1.6	0.5	0.0	0.0	0.0
75°	47.4	28.5	11.6	3.7	3.2	2.6	1.1	0.0	0.0	0.0	0.0
77.5°	17.9	20.0	5.8	2.6	2.1	1.6	0.5	0.0	0.0	0.0	0.0
80°	6.9	13.2	2.6	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.7	5.3	1.6	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	2.6	1.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.5	0.5	0.5	0.0	0.0	0.0	0.0	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

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

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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 ^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			

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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 $\text{W}^{\wedge}/\text{nm}$	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			

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TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE\ R_a = 81.0$
 $R_g = 7.1$



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)