

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: P632533

Luminaire Tested: GWS-SA2C-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4300.3 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

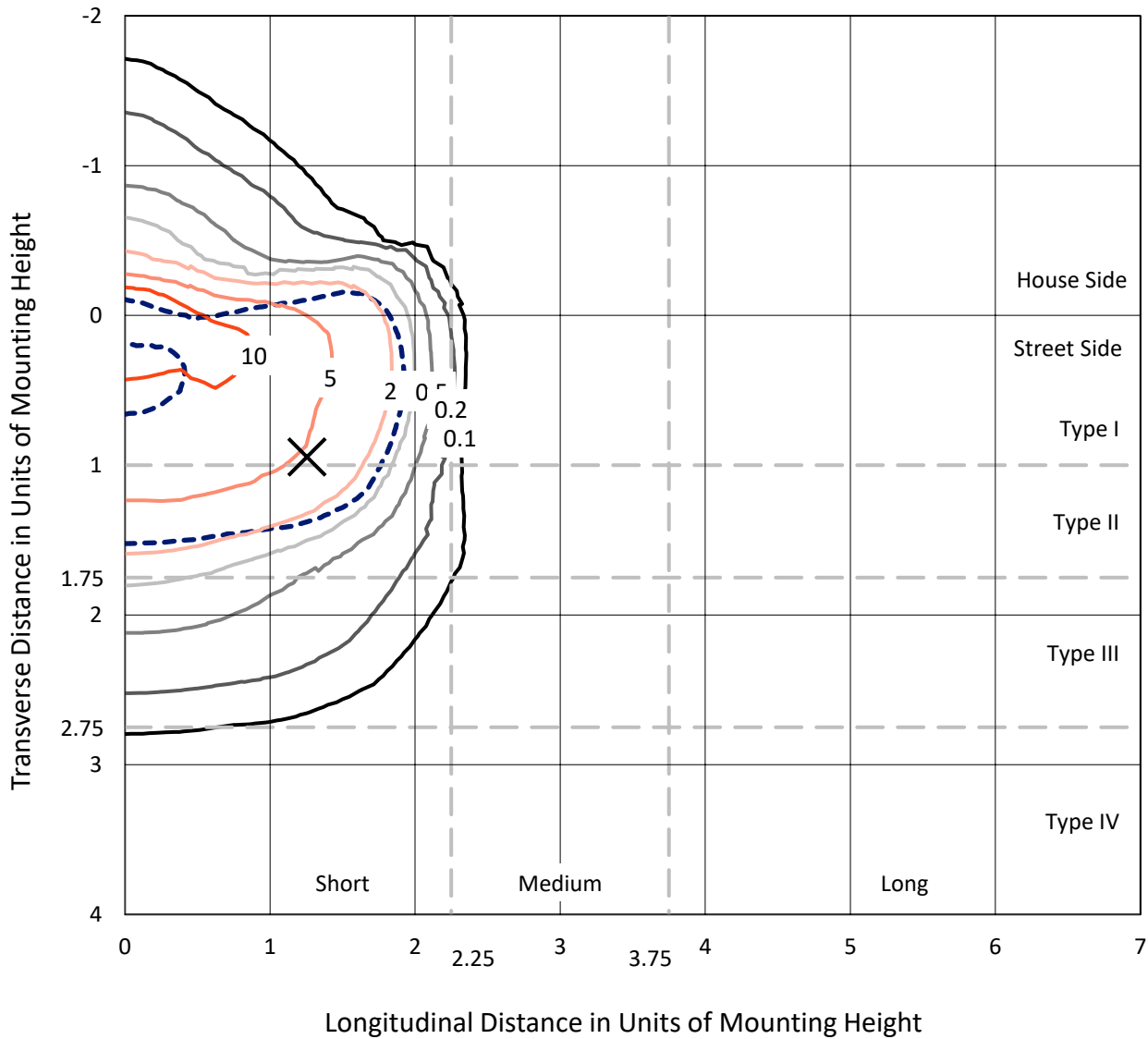
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

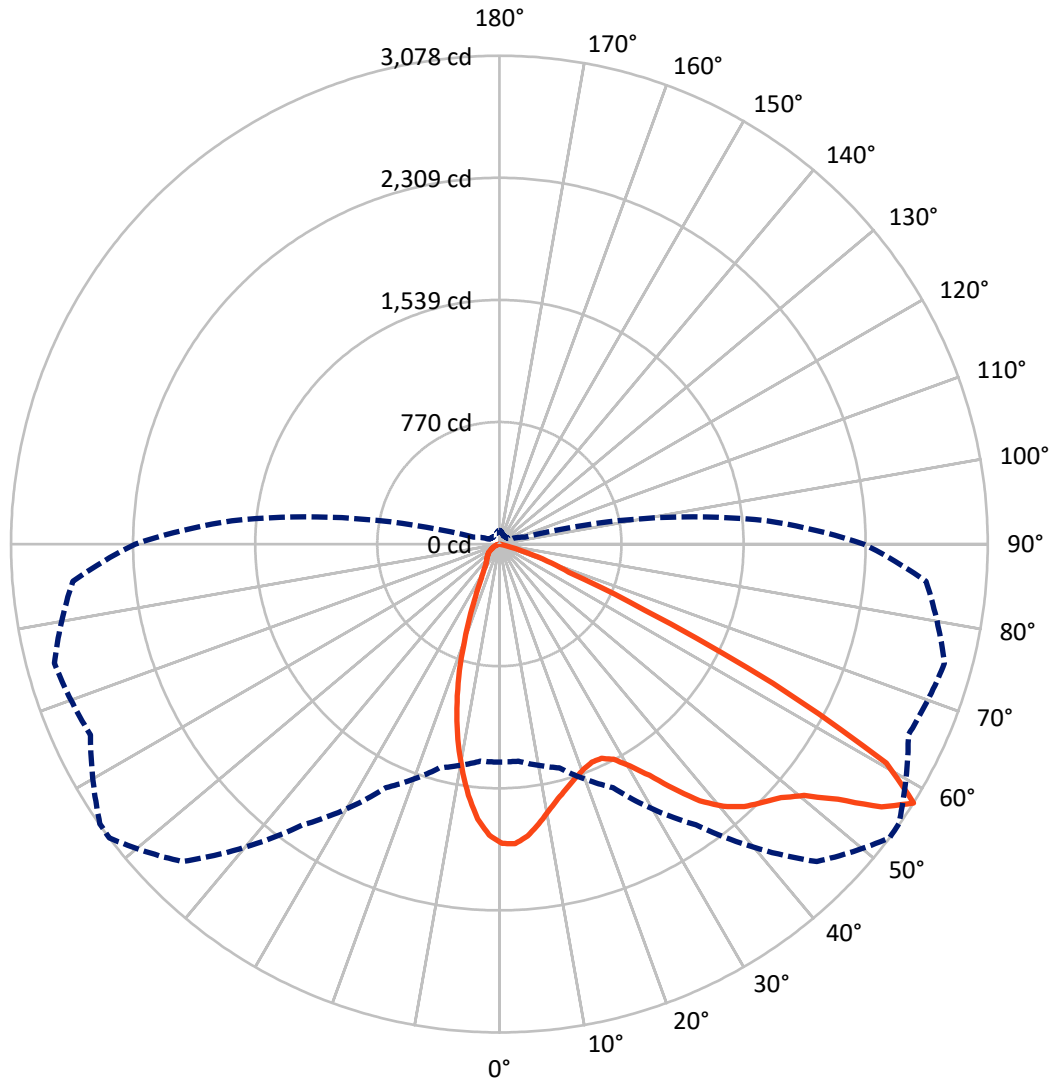
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	710.4	0.0	710.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3589.9	0.0	3589.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	4300.3	0.0	4300.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	3.8
10°-20°	354.3	8.2
20°-30°	461.6	10.7
30°-40°	669.5	15.6
40°-50°	966.1	22.5
50°-60°	1168.4	27.2
60°-70°	476.2	11.1
70°-80°	42.8	1.0
80°-90°	0.0	0.0
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°	4300.3	100.0
0°-180°	4300.3	100.0

Coefficient of Utilization



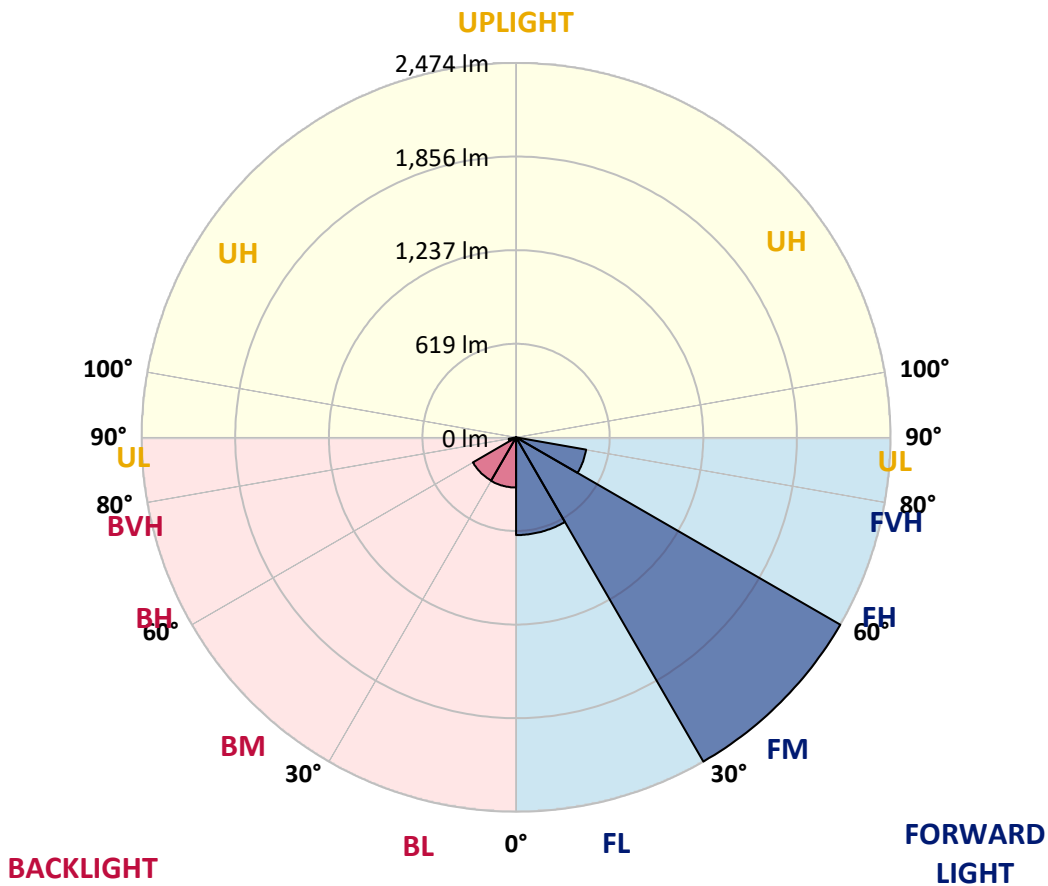
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.8	15.0			
FM (30°-60°)	2474.3	57.5			
FH (60°-80°)	469.9	10.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	331.5	7.7	B1/500		
BM (30°-60°)	329.7	7.7	B1/1000		
BH (60°-80°)	49.1	1.1	B0/110		G0/110
BVH (80°-90°)	0.0	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-G0
 Type II Short





REPORT NUMBER: P632533

CATALOG NUMBER: GWS-SA2C-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4
2.5°	1860.0	1864.2	1871.6	1881.1	1887.4	1890.6	1890.6	1899.5	1893.7	1889.0	1883.7
5°	1780.4	1784.6	1794.6	1809.9	1825.2	1836.3	1848.9	1858.4	1862.1	1862.1	1853.2
7.5°	1668.2	1674.0	1680.3	1701.4	1734.6	1759.3	1780.9	1794.6	1814.7	1821.0	1808.4
10°	1547.5	1553.3	1567.5	1596.5	1634.4	1671.3	1708.2	1725.6	1759.9	1777.8	1763.6
12.5°	1445.2	1447.8	1466.8	1501.6	1550.1	1600.7	1645.5	1663.4	1711.9	1738.8	1721.9
15°	1360.9	1362.5	1381.4	1419.9	1475.8	1538.0	1594.4	1612.8	1672.4	1713.0	1687.7
17.5°	1297.1	1297.6	1314.0	1355.6	1414.1	1483.2	1550.1	1572.8	1649.7	1698.7	1660.8
20°	1265.0	1263.4	1275.0	1311.3	1366.7	1435.7	1514.8	1542.7	1637.1	1696.6	1640.2
22.5°	1265.5	1261.8	1266.5	1292.4	1339.3	1404.1	1492.6	1524.3	1638.1	1705.6	1622.8
25°	1295.5	1290.2	1291.3	1305.0	1338.2	1397.2	1495.8	1529.5	1659.2	1735.6	1616.5
27.5°	1346.1	1340.3	1340.3	1347.2	1365.1	1418.9	1535.3	1573.8	1715.6	1794.1	1629.7
30°	1411.5	1405.7	1403.6	1410.4	1425.2	1474.7	1623.4	1663.4	1812.0	1890.0	1671.8
32.5°	1486.3	1479.5	1483.2	1492.6	1506.9	1575.4	1736.7	1789.9	1932.7	2019.2	1747.7
35°	1565.4	1559.6	1576.4	1597.0	1619.1	1715.1	1893.2	1939.6	2080.8	2179.9	1863.7
37.5°	1640.7	1638.1	1673.4	1716.6	1762.5	1882.7	2052.4	2088.2	2207.9	2354.9	2005.5
40°	1716.1	1715.6	1776.2	1852.1	1925.4	2049.7	2173.1	2202.6	2285.3	2490.9	2141.5
42.5°	1800.4	1800.4	1884.2	1985.4	2083.0	2191.0	2261.6	2274.8	2320.1	2569.4	2243.7
45°	1881.1	1885.8	1982.8	2100.3	2215.8	2301.2	2322.8	2323.8	2334.4	2615.8	2328.6
47.5°	1944.9	1949.1	2065.0	2200.5	2324.9	2385.0	2388.1	2383.4	2371.8	2660.1	2393.9
50°	1996.5	2002.8	2124.1	2267.4	2399.7	2465.6	2489.8	2485.1	2455.6	2707.5	2439.8
52.5°	2021.8	2030.8	2144.6	2300.6	2483.0	2603.7	2671.2	2682.2	2581.0	2733.9	2483.5
55°	1819.4	1832.6	1937.5	2150.9	2529.4	2817.1	2923.1	2921.0	2717.0	2812.4	2590.0
57.5°	1374.1	1373.0	1460.0	1693.5	2160.4	2829.3	3078.0	3073.8	2844.0	2903.6	2699.1
60°	935.5	929.2	952.4	1065.2	1510.6	2304.8	2801.3	2858.3	2753.9	2682.2	2291.7
62.5°	770.0	764.2	756.9	725.8	867.5	1435.7	1935.4	2021.8	2008.1	1864.2	1437.3
65°	630.4	635.1	655.7	642.5	603.5	736.3	1004.6	1055.7	965.1	812.2	502.3
67.5°	464.9	467.0	493.9	563.4	542.3	490.2	472.8	481.2	282.0	129.7	83.8
70°	274.6	276.2	301.0	394.2	440.1	376.3	319.4	314.7	111.7	34.8	37.9
72.5°	155.5	152.3	157.1	187.6	239.8	199.8	164.4	149.7	33.7	19.5	19.5
75°	73.8	71.7	61.7	58.0	52.7	33.7	21.1	17.9	8.4	7.9	7.9
77.5°	0.5	1.6	1.1	1.6	1.6	1.1	0.5	0.5	1.6	1.6	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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CATALOG NUMBER: GWS-SA2C-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4	1886.4
2.5°	1874.2	1858.4	1854.7	1853.7	1838.9	1823.1	1806.8	1800.4	1791.0	1785.2	1789.9
5°	1838.9	1816.3	1796.2	1777.8	1745.1	1709.3	1678.2	1658.1	1639.2	1626.5	1629.7
7.5°	1788.9	1759.3	1713.5	1666.6	1606.5	1552.7	1492.6	1455.7	1421.5	1402.5	1411.5
10°	1735.6	1696.6	1623.4	1543.8	1449.4	1365.1	1279.2	1209.1	1168.5	1130.0	1134.2
12.5°	1683.4	1631.8	1522.2	1401.5	1282.3	1158.0	1028.3	931.3	864.9	816.9	809.6
15°	1634.9	1568.5	1423.6	1264.4	1102.1	936.6	771.1	632.5	555.5	508.1	504.9
17.5°	1591.7	1509.5	1321.3	1121.1	917.6	705.7	515.5	411.6	367.4	346.8	344.7
20°	1550.1	1449.9	1217.0	975.6	716.3	495.4	355.8	307.8	293.6	285.1	286.2
22.5°	1510.0	1385.1	1107.4	814.3	537.1	347.9	275.7	257.2	255.6	256.7	257.2
25°	1476.3	1325.6	994.6	658.8	383.2	265.1	230.3	225.1	229.8	236.7	237.7
27.5°	1458.9	1277.1	884.4	502.3	277.2	215.6	199.8	201.9	210.3	217.7	218.7
30°	1463.7	1240.7	770.6	364.2	213.5	181.8	176.6	180.8	189.2	196.1	197.1
32.5°	1497.4	1222.3	654.1	265.1	175.5	158.6	156.5	159.7	167.1	172.3	172.9
35°	1564.3	1226.5	543.4	202.9	150.7	141.3	140.7	142.8	146.5	150.2	150.7
37.5°	1662.9	1260.7	434.3	168.7	136.5	129.7	127.5	127.5	130.2	131.8	132.8
40°	1768.8	1312.4	347.9	149.2	126.5	119.1	114.9	113.3	115.4	117.5	118.1
42.5°	1856.3	1364.0	282.5	135.5	118.6	108.6	103.3	102.3	104.9	108.6	109.6
45°	1923.3	1404.1	235.6	124.4	109.6	98.6	92.8	92.8	97.5	103.8	104.9
47.5°	1984.4	1436.2	200.8	114.4	101.2	89.6	83.8	84.9	92.8	101.2	102.8
50°	2026.0	1462.1	175.0	105.4	94.3	82.2	77.0	79.1	88.5	98.6	100.1
52.5°	2070.8	1493.7	158.1	97.5	88.0	76.4	71.7	73.3	83.8	94.9	97.0
55°	2194.7	1599.6	157.6	87.0	77.0	68.5	66.4	66.9	77.5	90.1	92.8
57.5°	2295.9	1692.9	168.1	73.3	64.3	60.1	59.0	59.6	69.0	83.3	86.4
60°	1899.5	1315.5	139.1	60.6	53.8	52.7	51.1	52.2	61.1	73.8	76.4
62.5°	1124.2	752.1	66.4	46.4	45.9	44.8	43.2	45.3	53.8	64.8	66.4
65°	384.2	222.9	42.2	37.9	39.0	37.4	35.8	37.9	45.3	51.7	52.2
67.5°	73.8	59.0	33.7	31.6	32.2	29.0	28.5	30.6	34.8	35.8	35.3
70°	38.5	34.3	25.8	25.8	24.8	20.6	20.6	22.7	22.7	21.1	20.6
72.5°	20.0	19.0	16.9	19.0	15.8	12.6	12.6	13.7	12.6	10.5	10.5
75°	7.9	7.9	7.4	9.5	6.9	5.8	5.3	6.3	4.7	3.7	3.7
77.5°	2.1	2.1	2.1	2.6	1.6	1.6	1.1	1.1	0.5	0.0	0.0
80°	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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

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)