

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: P634512

Luminaire Tested: GWS-SA3B-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3B-830-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8119.8 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 68.3
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

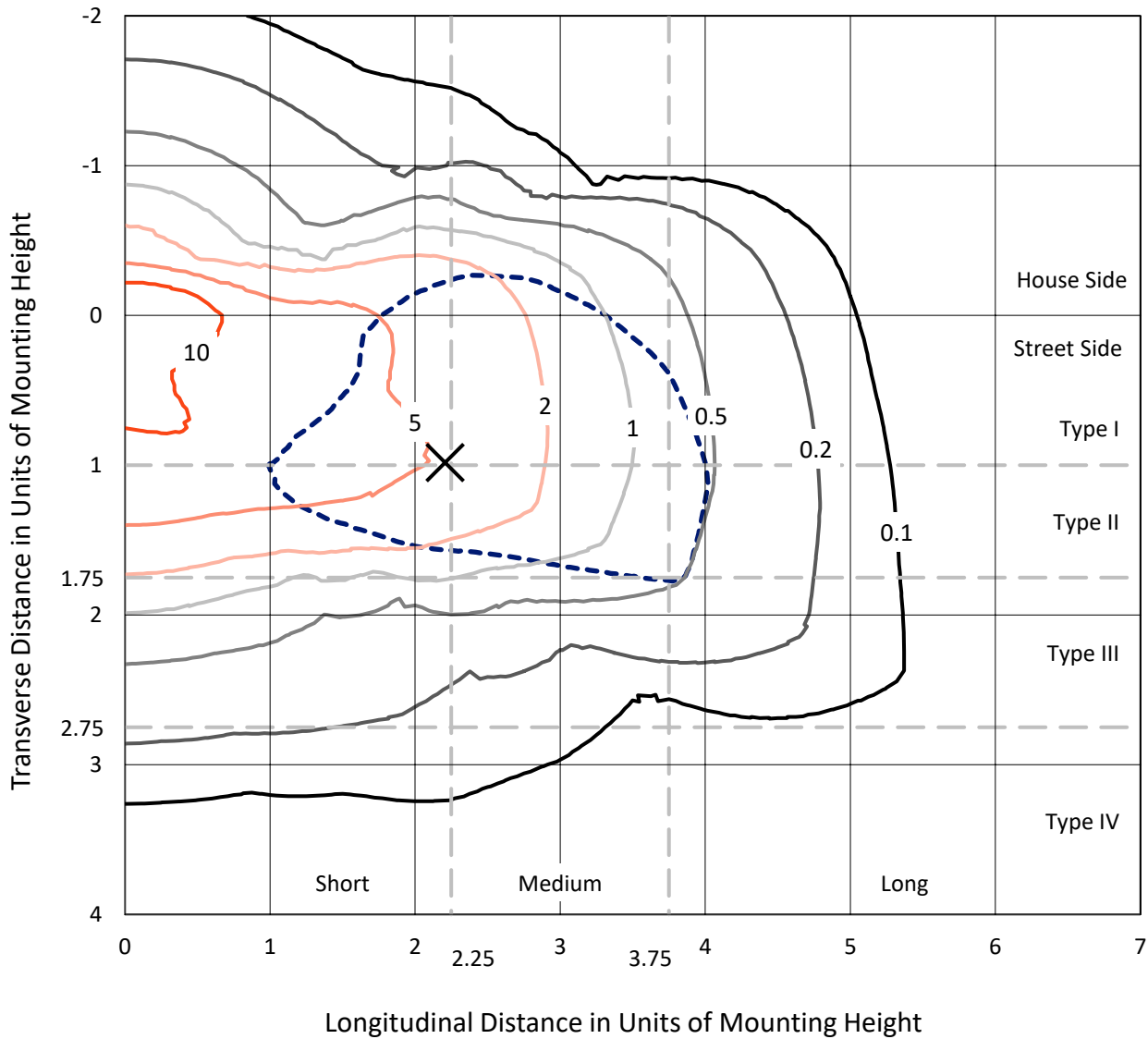


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Iso-Footcandle Lines of Horizontal Illumination

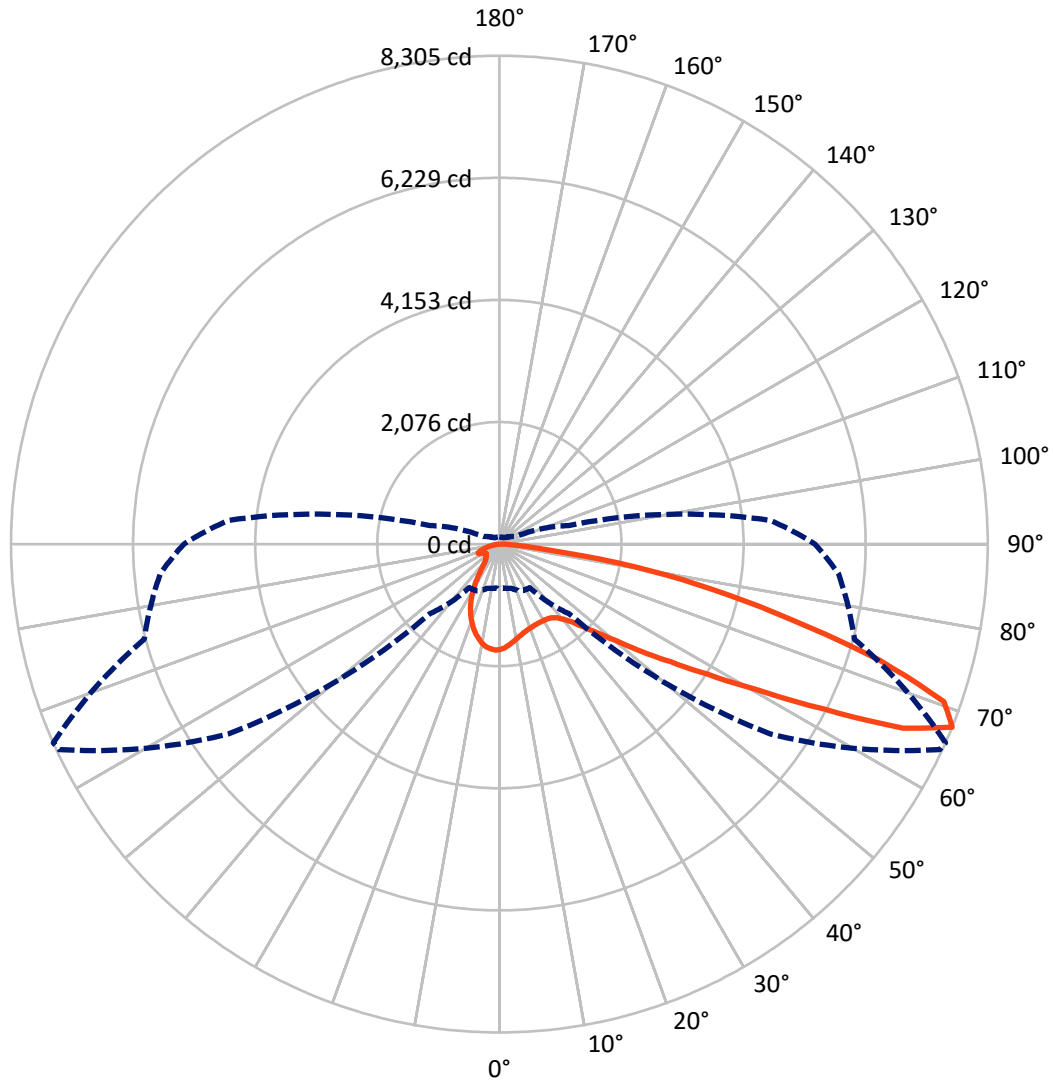
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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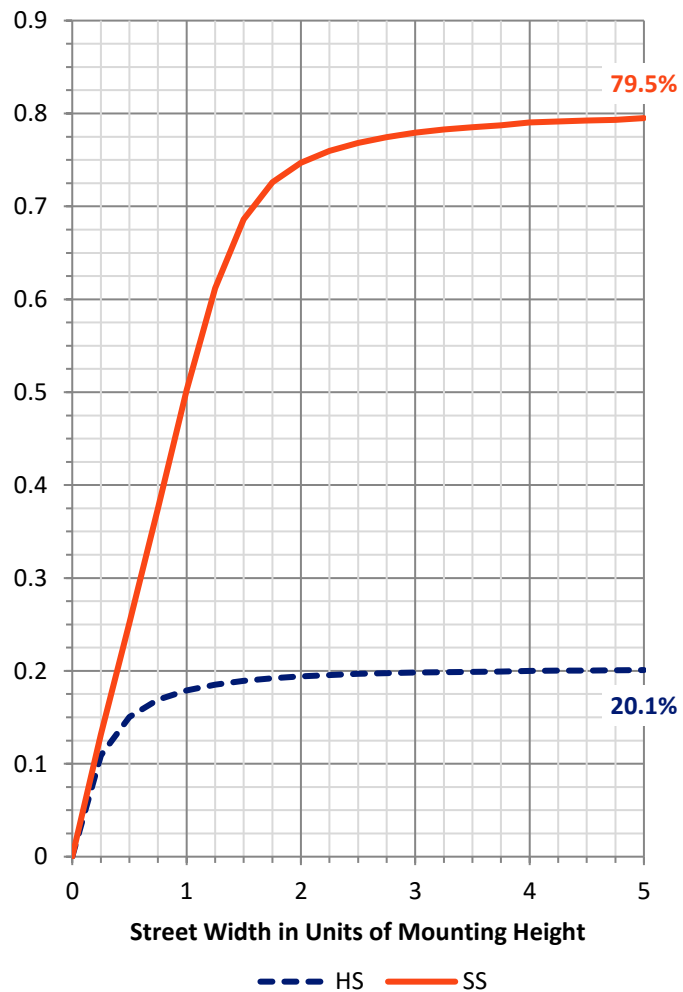
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1647.7	0.0	1647.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6472.1	0.0	6472.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	8119.8	0.0	8119.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	1.9
10°-20°	387.0	4.8
20°-30°	531.9	6.6
30°-40°	727.2	9.0
40°-50°	1102.0	13.6
50°-60°	1713.0	21.1
60°-70°	2085.6	25.7
70°-80°	1270.4	15.6
80°-90°	145.1	1.8
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°	8119.8	100.0
0°-180°	8119.8	100.0

Coefficient of Utilization



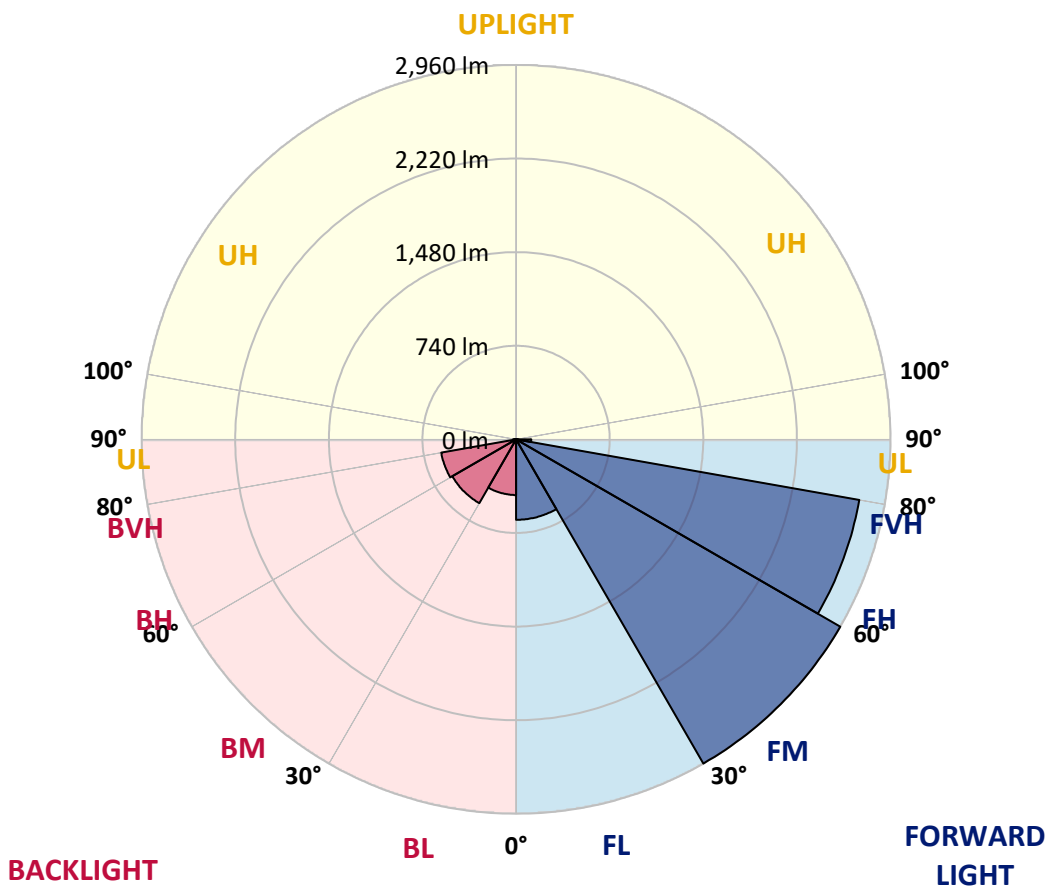
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.2	7.8			
FM (30°-60°)	2960.0	36.5			
FH (60°-80°)	2755.3	33.9			G2/5000
FVH (80°-90°)	120.7	1.5			G2/225
BL (0°-30°)	440.2	5.4	B1/500		
BM (30°-60°)	582.3	7.2	B1/1000		
BH (60°-80°)	600.8	7.4	B2/1000		G2/1000
BVH (80°-90°)	24.5	0.3			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°	66°	75°	85°
0°	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2
2.5°	1680.5	1686.4	1682.9	1705.4	1706.6	1735.0	1751.0	1764.6	1765.8	1783.6	1795.4
5°	1565.6	1569.2	1569.2	1590.5	1604.7	1642.6	1679.3	1718.4	1721.4	1764.0	1796.6
7.5°	1472.6	1476.2	1473.8	1502.2	1520.6	1562.6	1609.4	1669.3	1675.2	1743.9	1800.8
10°	1399.7	1398.6	1404.5	1430.5	1454.2	1504.6	1556.7	1624.8	1633.7	1720.8	1805.5
12.5°	1350.0	1351.2	1354.7	1382.0	1407.4	1457.2	1511.1	1585.1	1594.6	1694.1	1803.1
15°	1326.3	1323.9	1326.9	1351.8	1376.0	1419.9	1475.6	1552.0	1561.4	1670.4	1803.7
17.5°	1321.0	1319.2	1318.6	1336.4	1354.7	1395.6	1448.9	1526.5	1536.6	1655.0	1807.3
20°	1337.5	1335.2	1328.7	1336.4	1344.1	1378.4	1429.9	1508.1	1519.4	1645.0	1814.4
22.5°	1383.2	1379.0	1368.9	1359.5	1349.4	1370.1	1418.1	1494.5	1505.8	1638.5	1821.5
25°	1452.5	1448.9	1438.2	1416.9	1380.2	1376.6	1415.7	1488.6	1499.8	1633.7	1824.5
27.5°	1547.8	1542.5	1531.8	1501.0	1441.2	1400.9	1424.6	1488.0	1498.7	1628.4	1821.5
30°	1661.0	1657.4	1651.5	1614.2	1534.2	1452.5	1444.8	1492.7	1501.0	1625.4	1815.6
32.5°	1775.9	1772.3	1777.1	1759.3	1661.0	1537.8	1488.6	1505.8	1511.7	1624.8	1810.2
35°	1877.2	1881.3	1915.7	1918.6	1822.1	1653.3	1557.9	1536.0	1537.2	1636.7	1812.6
37.5°	1983.2	1999.2	2044.2	2082.7	2002.2	1806.1	1661.0	1592.8	1591.7	1666.9	1827.4
40°	2123.6	2130.7	2188.2	2260.4	2210.1	2015.8	1807.3	1685.8	1677.6	1728.5	1867.1
42.5°	2260.4	2277.6	2369.4	2452.4	2435.8	2252.1	1991.5	1825.0	1810.2	1837.5	1948.9
45°	2434.6	2451.2	2554.2	2660.9	2691.1	2519.3	2227.3	2022.9	2008.1	2001.6	2098.7
47.5°	2608.7	2625.9	2718.3	2872.3	2978.4	2853.4	2534.1	2284.1	2259.8	2234.4	2325.0
50°	2726.0	2746.2	2834.4	3019.2	3268.0	3270.4	2897.8	2626.5	2595.7	2555.4	2643.7
52.5°	2721.9	2734.9	2819.0	3032.3	3476.5	3749.6	3384.7	3062.5	3037.6	2949.9	3026.9
55°	2508.0	2527.6	2612.3	2878.8	3499.0	4203.9	4100.3	3576.6	3532.2	3375.2	3459.9
57.5°	2078.6	2095.2	2180.5	2509.2	3299.4	4436.7	5009.0	4231.8	4170.8	3838.5	3936.2
60°	1569.2	1549.0	1589.3	1877.2	2822.0	4442.7	5811.0	5120.3	5018.4	4333.7	4415.4
62.5°	1177.6	1157.5	1166.3	1247.5	1913.3	4083.7	6268.3	6335.8	6167.6	4892.9	4876.9
65°	930.6	919.3	944.8	1000.5	1115.4	3109.9	6271.9	7650.3	7544.2	5540.9	5350.2
67.5°	758.2	751.1	777.2	880.2	904.5	1671.0	5623.8	8264.0	8305.4	6250.5	5789.1
70°	610.7	600.1	640.9	776.6	841.1	1011.2	4028.6	7951.2	8018.1	6673.5	5665.3
72.5°	421.8	422.3	443.1	629.1	812.1	873.1	2278.8	6620.8	6765.9	6290.2	4980.5
75°	284.3	286.7	292.6	415.2	748.1	847.1	1214.3	5012.5	5115.0	5199.1	4116.9
77.5°	171.8	173.0	186.6	251.2	515.9	790.8	822.8	3633.5	3714.1	3427.4	2551.9
80°	99.5	103.7	116.1	168.2	348.3	594.1	636.8	2227.8	2319.1	1523.5	810.9
82.5°	43.8	46.8	63.4	97.7	203.2	505.3	497.0	880.2	867.2	424.7	281.4
85°	7.7	9.5	13.6	30.8	74.6	266.6	385.6	388.6	365.5	161.1	116.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	58.1	104.3	103.7	45.6	40.3
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-SA3B-830-U-SL2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2	1794.2
2.5°	1803.1	1787.1	1801.4	1803.1	1800.2	1797.8	1780.0	1764.6	1762.9	1746.3	1746.3
5°	1809.6	1794.8	1801.9	1788.3	1767.0	1745.1	1707.2	1681.1	1669.3	1647.9	1647.9
7.5°	1818.5	1803.1	1794.8	1761.1	1711.3	1663.3	1602.3	1551.4	1530.6	1500.4	1499.3
10°	1826.8	1807.3	1778.8	1713.1	1633.7	1557.3	1468.4	1396.2	1347.0	1310.9	1310.9
12.5°	1826.2	1800.8	1744.5	1647.3	1537.8	1427.0	1308.5	1199.5	1134.4	1078.1	1074.5
15°	1825.0	1790.1	1700.7	1570.9	1425.8	1272.4	1111.3	969.1	872.5	817.5	812.7
17.5°	1823.9	1776.5	1651.5	1483.9	1289.6	1080.5	867.8	713.8	633.2	599.5	600.6
20°	1823.9	1761.1	1598.8	1383.7	1132.6	850.6	636.8	524.8	504.7	506.5	508.2
22.5°	1818.5	1742.1	1540.1	1274.7	957.8	625.5	469.7	431.8	442.5	459.1	461.4
25°	1806.1	1710.7	1472.0	1153.9	749.9	455.5	383.3	376.1	395.7	416.4	422.3
27.5°	1786.5	1674.6	1395.6	1012.3	552.1	366.1	337.1	336.5	351.9	367.3	372.6
30°	1765.8	1634.3	1315.0	854.8	399.8	318.7	307.4	307.4	315.1	324.6	323.4
32.5°	1741.5	1593.4	1228.5	690.7	325.8	292.0	288.5	286.7	287.9	291.4	291.4
35°	1720.8	1557.3	1139.7	517.1	292.0	277.2	273.7	269.5	267.7	265.4	266.6
37.5°	1713.1	1528.9	1047.9	389.8	275.4	266.6	260.6	254.7	250.6	249.4	248.8
40°	1725.5	1517.0	956.1	321.1	263.6	255.3	248.8	241.1	237.5	237.5	237.5
42.5°	1774.1	1525.9	862.5	290.3	255.3	245.8	236.3	229.2	228.1	229.2	229.8
45°	1863.0	1560.3	765.3	274.9	248.2	236.3	225.1	219.8	219.8	220.9	220.9
47.5°	2021.7	1650.3	669.4	265.4	241.1	228.6	216.8	211.5	210.9	212.1	212.1
50°	2296.6	1812.6	582.9	258.9	235.8	222.7	210.9	203.8	202.0	201.4	201.4
52.5°	2643.1	2094.0	527.8	254.1	229.2	216.2	204.4	194.9	191.3	189.6	189.6
55°	3061.9	2468.9	527.8	250.6	220.9	208.5	194.9	185.4	180.1	177.7	177.7
57.5°	3536.4	2905.5	619.0	247.6	214.4	199.6	184.8	175.3	169.4	165.9	165.9
60°	4019.1	3366.9	844.7	243.5	208.5	188.4	173.6	164.7	157.0	152.8	152.2
62.5°	4519.7	3875.2	1142.1	245.8	204.4	177.7	161.7	151.6	145.1	141.0	140.4
65°	4978.2	4359.1	1402.1	264.2	205.0	168.2	148.1	139.2	133.9	128.5	127.9
67.5°	5367.3	4626.3	1219.7	301.5	217.4	157.0	134.5	125.6	120.8	117.3	116.7
70°	5094.9	4218.8	691.9	324.6	234.6	145.1	119.1	113.1	108.4	106.0	105.4
72.5°	4356.8	3571.9	462.6	286.7	213.8	129.7	104.8	100.1	96.6	93.6	93.0
75°	3529.3	2832.6	353.6	235.2	166.5	105.4	90.0	86.5	82.9	80.0	79.4
77.5°	2088.1	1636.7	260.6	186.0	117.3	82.3	74.6	71.7	68.1	65.8	65.2
80°	666.4	568.7	165.3	127.9	77.6	63.4	57.5	55.1	51.5	48.6	48.0
82.5°	254.1	219.8	87.7	65.2	51.5	43.2	38.5	36.1	33.8	30.8	30.2
85°	112.5	105.4	48.6	34.9	27.8	21.3	19.0	17.8	14.8	12.4	11.8
87.5°	39.7	39.7	20.7	10.1	5.9	3.0	1.8	0.6	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)