

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P386735

Luminaire Tested: **GPC-SA2B-830-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GPC-SA2B-830-U-T3  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9479 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

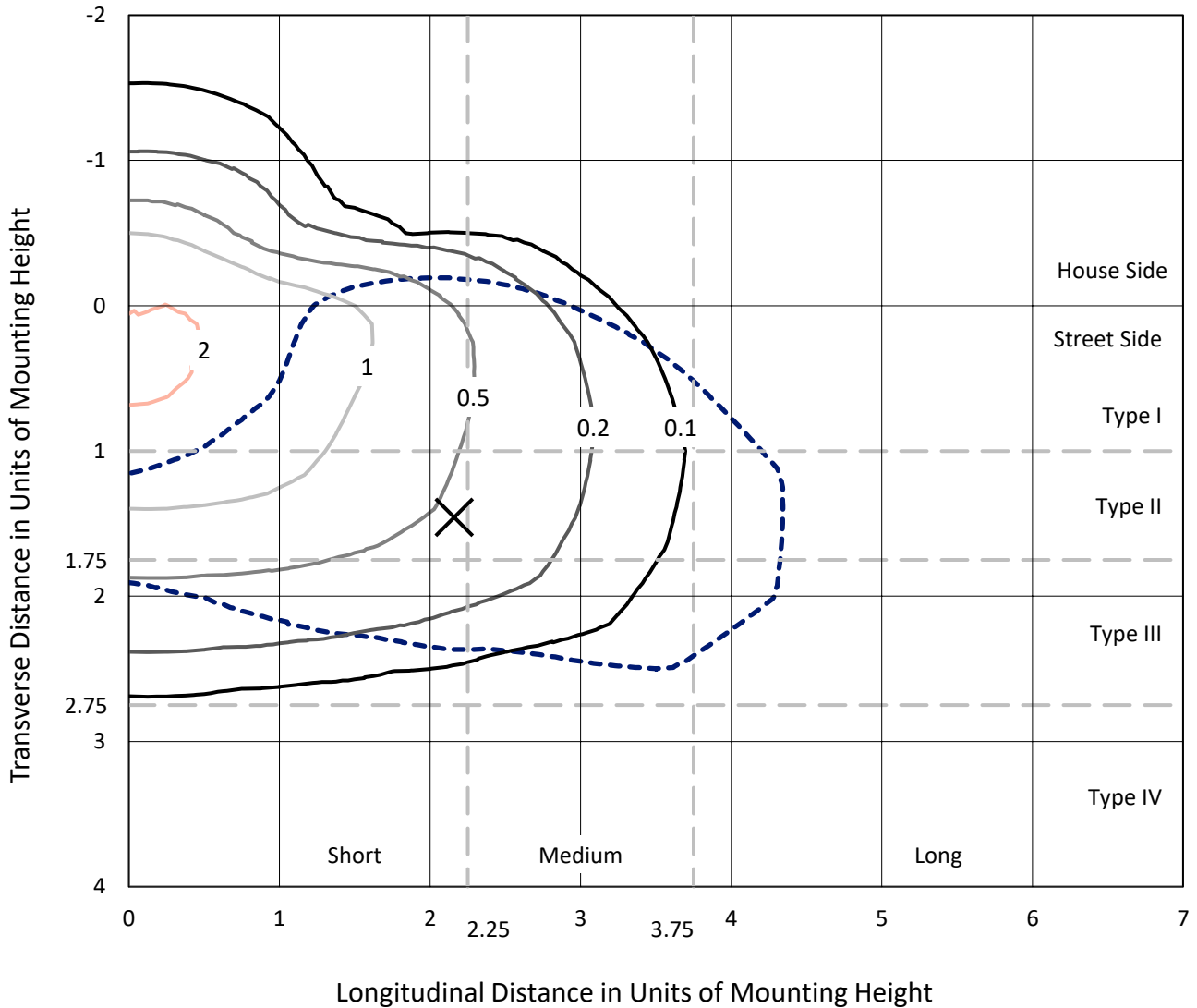
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

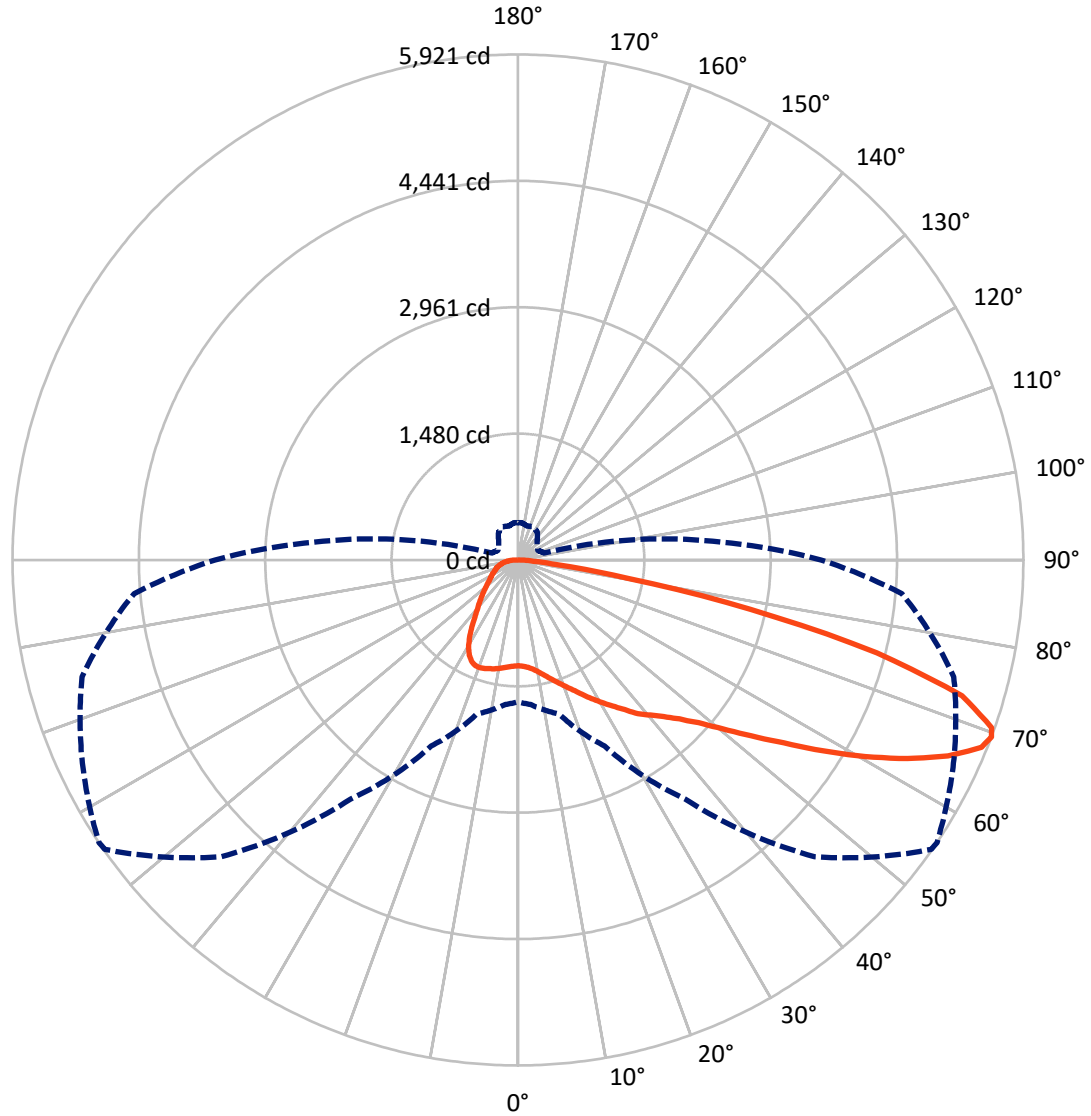
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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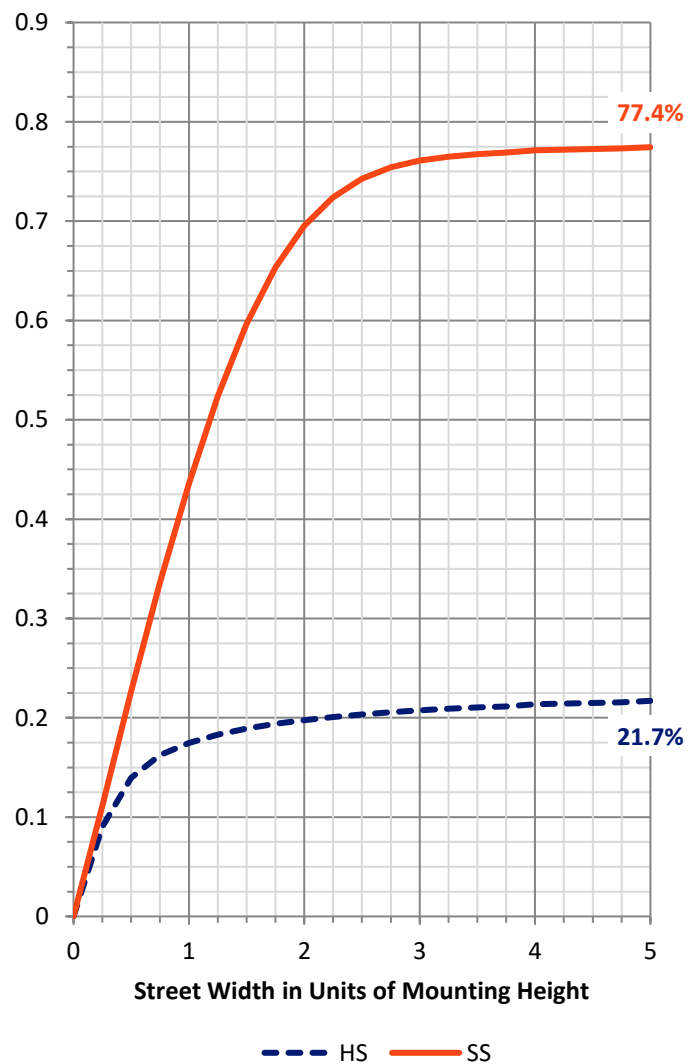
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2111.0	0.0	2111.0
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	7368.0	0.0	7368.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	9479.0	0.0	9479.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	1.3
10°-20°	391.4	4.1
20°-30°	683.2	7.2
30°-40°	981.4	10.4
40°-50°	1358.2	14.3
50°-60°	1989.9	21.0
60°-70°	2426.1	25.6
70°-80°	1341.3	14.2
80°-90°	185.8	2.0
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°	9479.0	100.0
0°-180°	9479.0	100.0

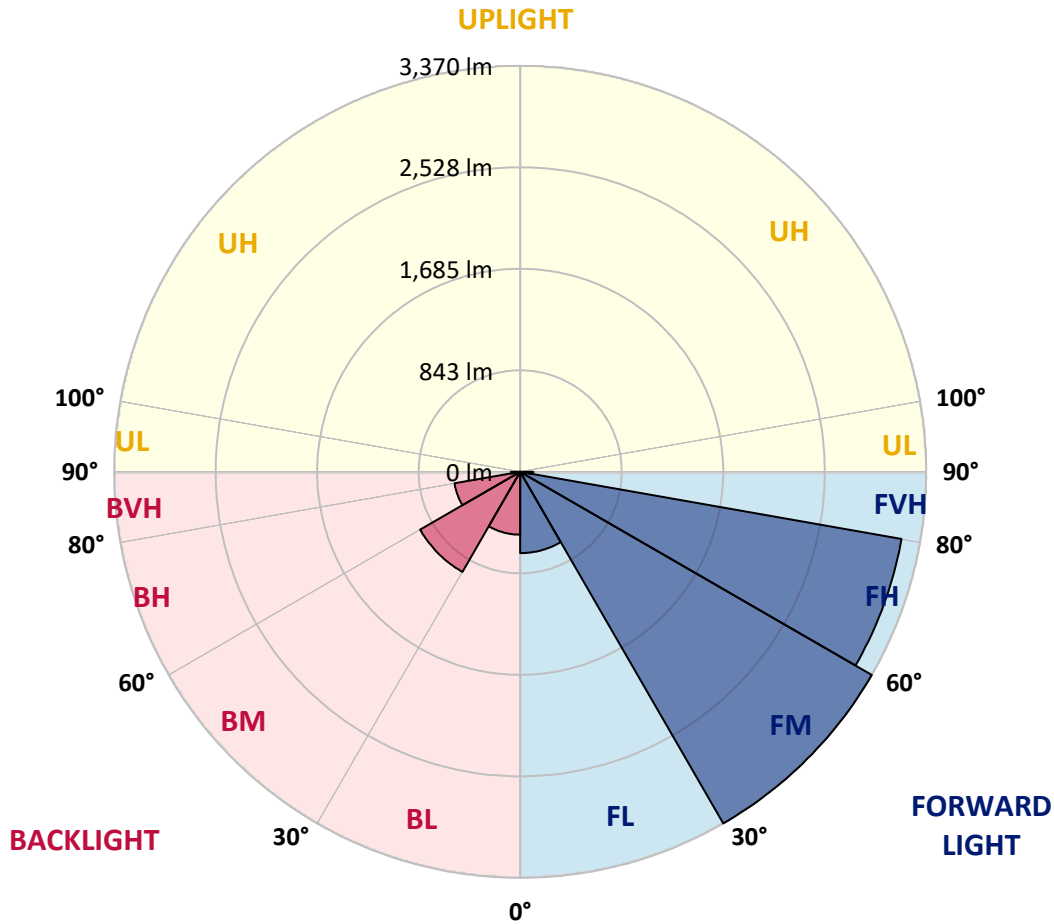


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	674.6	7.1			
FM (30°-60°)	3370.1	35.6			
FH (60°-80°)	3213.9	33.9			G2/5000
FVH (80°-90°)	109.4	1.2			G2/225
BL (0°-30°)	521.7	5.5	B2/1000		
BM (30°-60°)	959.4	10.1	B1/1000		
BH (60°-80°)	553.6	5.8	B2/1000		G2/1000
BVH (80°-90°)	76.3	0.8			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1247.1	1248.4	1247.4	1250.0	1247.1	1249.0	1247.4	1247.4	1246.4	1243.5	1240.2
5°	1266.7	1269.3	1267.6	1270.3	1266.7	1267.3	1264.4	1264.4	1261.4	1255.2	1248.7
7.5°	1297.4	1300.3	1299.0	1301.6	1296.7	1296.7	1292.8	1292.5	1286.6	1276.5	1269.0
10°	1333.9	1337.9	1336.5	1340.5	1336.5	1337.9	1333.9	1333.9	1326.1	1311.7	1302.3
12.5°	1387.2	1392.1	1388.5	1388.1	1386.5	1389.1	1385.9	1385.2	1378.0	1358.4	1345.4
15°	1458.3	1463.6	1456.1	1455.4	1446.3	1445.3	1445.3	1444.3	1439.7	1416.2	1394.7
17.5°	1540.3	1541.9	1535.4	1525.0	1513.2	1505.7	1504.7	1507.3	1507.3	1479.9	1445.6
20°	1620.6	1623.6	1618.4	1606.6	1591.6	1580.5	1572.6	1577.9	1577.5	1544.9	1496.2
22.5°	1708.2	1715.0	1707.2	1692.2	1674.5	1662.1	1648.4	1653.0	1653.3	1613.1	1545.9
25°	1821.5	1815.3	1810.4	1789.1	1764.0	1751.3	1738.5	1743.1	1741.8	1686.6	1597.1
27.5°	1921.7	1923.0	1916.5	1894.0	1864.9	1836.8	1836.2	1839.1	1834.2	1763.0	1645.5
30°	2038.3	2038.9	2029.8	2009.6	1977.9	1941.6	1933.1	1938.0	1927.6	1835.5	1696.4
32.5°	2154.2	2157.5	2147.4	2122.9	2097.4	2053.3	2036.3	2039.6	2013.5	1909.6	1749.0
35°	2255.8	2260.3	2257.1	2240.7	2213.0	2175.1	2154.9	2152.9	2120.6	2000.4	1818.5
37.5°	2359.3	2363.5	2359.9	2346.2	2335.1	2295.0	2284.2	2284.2	2228.0	2093.2	1907.0
40°	2465.7	2472.3	2468.0	2449.1	2439.6	2421.3	2395.5	2389.3	2328.6	2204.5	2051.4
42.5°	2564.7	2573.2	2590.2	2579.0	2559.8	2562.4	2510.5	2507.2	2462.8	2369.1	2232.6
45°	2705.1	2717.5	2746.2	2737.7	2733.8	2719.5	2657.7	2654.8	2637.8	2590.5	2457.6
47.5°	2858.2	2875.2	2927.1	2928.8	2970.9	2943.8	2859.9	2849.8	2853.7	2855.6	2732.2
50°	2999.3	3017.9	3103.2	3143.3	3242.6	3248.5	3114.3	3105.1	3120.5	3165.5	3052.2
52.5°	3112.0	3135.5	3241.9	3366.0	3536.2	3584.5	3427.4	3420.6	3432.0	3509.7	3414.0
55°	3194.6	3220.1	3336.0	3561.9	3833.6	3918.9	3787.9	3781.4	3788.6	3887.5	3807.5
57.5°	3213.9	3220.1	3388.2	3693.9	4084.7	4289.5	4229.1	4216.0	4180.7	4267.0	4241.8
60°	3123.4	3148.2	3345.1	3740.2	4279.0	4654.9	4690.2	4673.8	4574.9	4645.4	4625.2
62.5°	2939.9	2984.3	3184.1	3669.7	4355.1	4953.4	5142.4	5122.8	4952.4	4998.1	4900.8
65°	2640.1	2659.1	2869.0	3426.4	4258.5	5144.4	5545.7	5535.9	5321.4	5249.9	4951.7
67.5°	2103.9	2139.5	2317.8	2918.0	3863.0	5121.9	5857.6	5856.6	5562.4	5343.2	4771.1
69°	1662.1	1699.0	1868.8	2403.7	3418.3	4915.8	5909.8	5921.2	5630.3	5286.4	4513.2
70°	1325.1	1367.9	1484.5	2024.6	3023.5	4644.1	5866.4	5886.9	5617.2	5192.7	4275.1
72.5°	563.9	598.6	681.5	1043.6	1842.7	3467.9	5363.8	5441.5	5314.5	4752.5	3533.2
75°	246.2	257.0	294.5	425.5	818.0	1887.4	4202.0	4345.7	4544.2	4017.2	2631.9
77.5°	180.3	184.8	205.4	249.8	367.0	712.8	2702.2	2785.8	3277.2	2923.2	1614.4
80°	139.4	142.7	158.7	183.5	239.7	288.3	1232.4	1304.2	1842.7	1501.5	672.4
82.5°	111.0	113.3	124.4	135.2	165.6	174.7	409.2	453.9	680.2	414.7	178.0
85°	103.2	105.8	109.7	98.6	106.1	102.5	177.0	185.2	205.4	162.9	74.5
87.5°	46.7	55.2	108.7	76.7	56.5	45.1	72.5	75.8	85.2	85.6	33.0
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1242.2	1241.2	1242.8	1238.9	1243.8	1243.5	1241.8	1242.5	1245.8	1245.4	1245.8
5°	1249.7	1249.0	1251.0	1248.1	1253.9	1255.9	1256.2	1259.2	1262.7	1263.7	1263.7
7.5°	1268.6	1268.6	1269.6	1265.7	1269.6	1269.3	1267.6	1270.6	1274.2	1274.5	1274.2
10°	1301.3	1301.6	1300.0	1289.9	1286.6	1277.8	1269.6	1269.9	1274.5	1278.1	1279.1
12.5°	1342.4	1341.1	1333.9	1315.3	1301.6	1283.6	1275.2	1274.8	1279.4	1282.3	1283.3
15°	1389.4	1385.9	1367.2	1336.9	1312.7	1295.1	1281.4	1278.1	1275.5	1272.2	1272.5
17.5°	1433.9	1425.7	1394.7	1352.5	1327.1	1303.6	1277.1	1255.9	1241.2	1232.7	1230.1
20°	1478.9	1462.9	1418.2	1367.2	1334.9	1292.1	1241.2	1198.1	1171.3	1158.9	1156.6
22.5°	1520.1	1494.3	1440.1	1382.6	1328.7	1253.6	1173.6	1110.9	1073.7	1057.0	1058.3
25°	1560.2	1524.3	1462.9	1393.4	1297.4	1185.7	1079.6	1002.5	959.4	940.8	940.1
27.5°	1595.5	1554.7	1487.7	1384.5	1238.9	1089.0	968.2	893.1	857.2	841.2	838.6
30°	1636.0	1592.9	1520.7	1350.9	1153.4	977.3	859.5	806.6	781.1	765.1	762.2
32.5°	1685.3	1644.8	1547.8	1289.9	1044.0	860.8	774.6	737.7	714.5	696.5	693.3
35°	1757.1	1713.4	1554.7	1202.3	923.8	768.7	712.2	674.3	643.0	619.8	617.5
37.5°	1847.3	1799.3	1539.0	1089.0	807.2	708.9	660.3	613.6	572.8	540.1	534.9
40°	1977.2	1904.7	1495.6	958.4	721.3	662.9	609.7	556.4	505.8	467.6	460.1
42.5°	2133.3	2028.5	1429.0	828.4	658.3	616.2	559.4	493.4	445.1	418.0	414.1
45°	2331.9	2157.2	1336.5	714.8	596.3	569.5	505.2	444.4	414.4	394.5	391.2
47.5°	2558.5	2301.5	1239.6	622.4	543.7	525.7	461.7	422.5	398.7	383.0	380.1
50°	2837.0	2464.4	1136.7	546.6	490.8	473.2	441.2	410.5	391.5	379.4	376.5
52.5°	3151.2	2648.3	1062.6	486.9	447.0	434.3	430.4	403.9	388.6	379.4	376.5
55°	3489.5	2835.4	982.6	436.6	409.2	412.8	423.2	404.6	394.1	383.0	378.8
57.5°	3828.1	3028.7	893.4	394.1	379.1	396.8	418.3	405.9	397.1	386.3	382.4
60°	4095.8	3151.2	755.3	358.5	355.3	379.1	406.5	396.1	384.7	385.0	384.3
62.5°	4220.9	3144.6	602.8	326.9	331.4	355.3	387.6	380.8	371.3	384.0	385.0
65°	4150.7	2987.9	469.2	298.1	306.0	330.5	368.0	373.2	376.5	401.0	404.3
67.5°	3856.2	2682.9	363.4	273.0	282.8	313.5	370.0	406.5	410.8	436.6	436.3
69°	3551.5	2396.8	315.8	259.9	271.4	317.7	395.4	427.8	411.8	439.2	435.3
70°	3296.1	2170.5	290.3	251.1	266.1	325.2	412.4	427.4	406.9	430.4	423.9
72.5°	2538.6	1561.5	246.2	234.8	248.5	311.2	417.3	418.0	395.4	400.0	388.9
75°	1741.1	986.8	214.9	212.6	221.7	280.5	401.6	399.4	365.7	359.2	350.1
77.5°	960.0	501.2	182.5	191.4	197.6	248.5	365.1	361.8	334.1	320.3	317.1
80°	370.3	219.4	154.1	170.1	174.0	215.2	320.0	317.1	293.9	276.3	271.4
82.5°	139.8	114.9	127.4	147.3	146.0	177.6	271.0	269.4	246.9	221.1	213.2
85°	64.7	68.9	100.9	121.5	112.0	131.6	216.8	219.8	192.3	161.6	161.6
87.5°	27.4	38.5	71.5	91.8	75.4	88.8	159.0	151.8	139.4	96.7	90.8
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**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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 <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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 <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /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)