

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: P320146

Luminaire Tested: **GLEON-SA2A-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7199 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 66
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: 24 FT

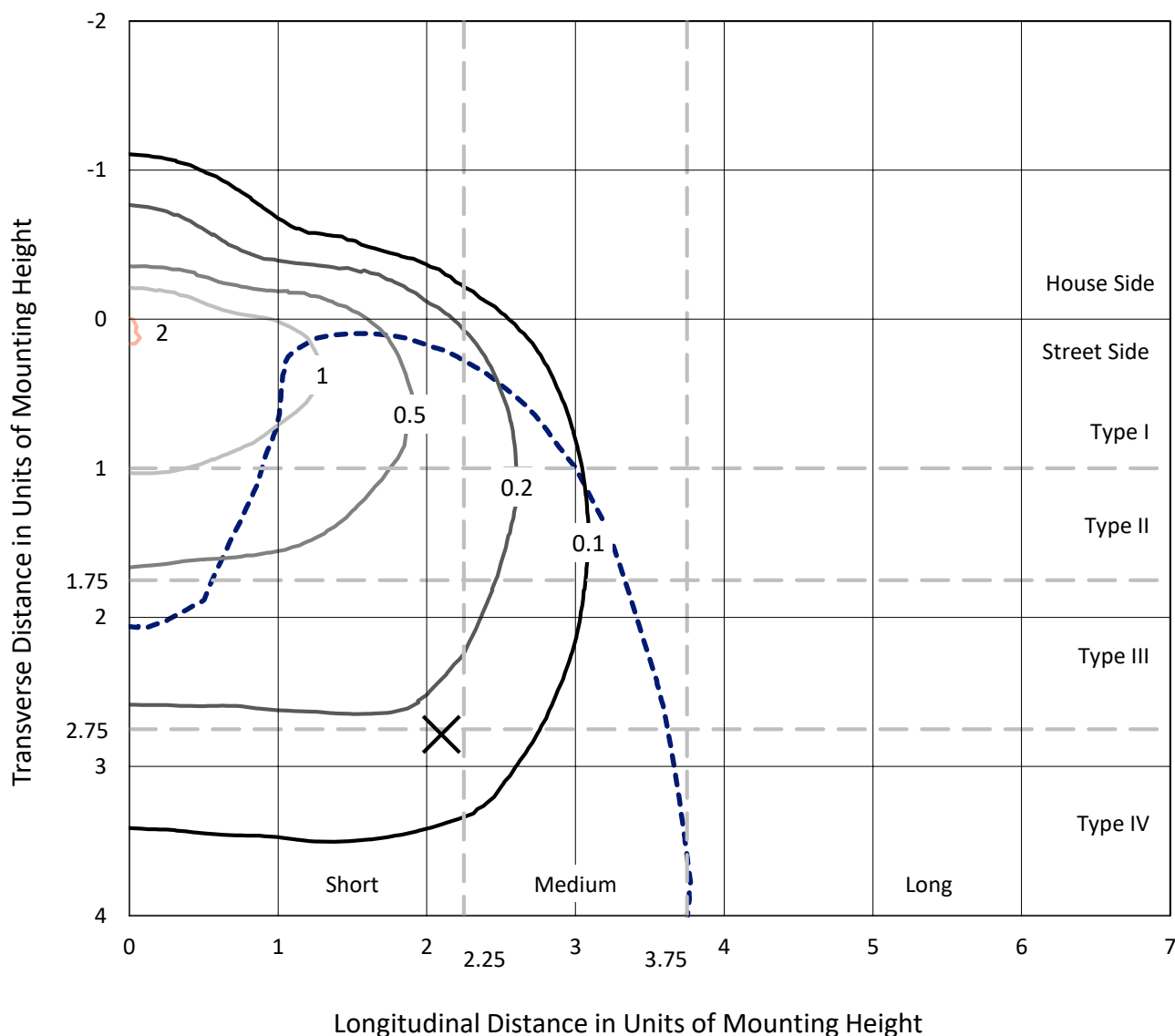


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

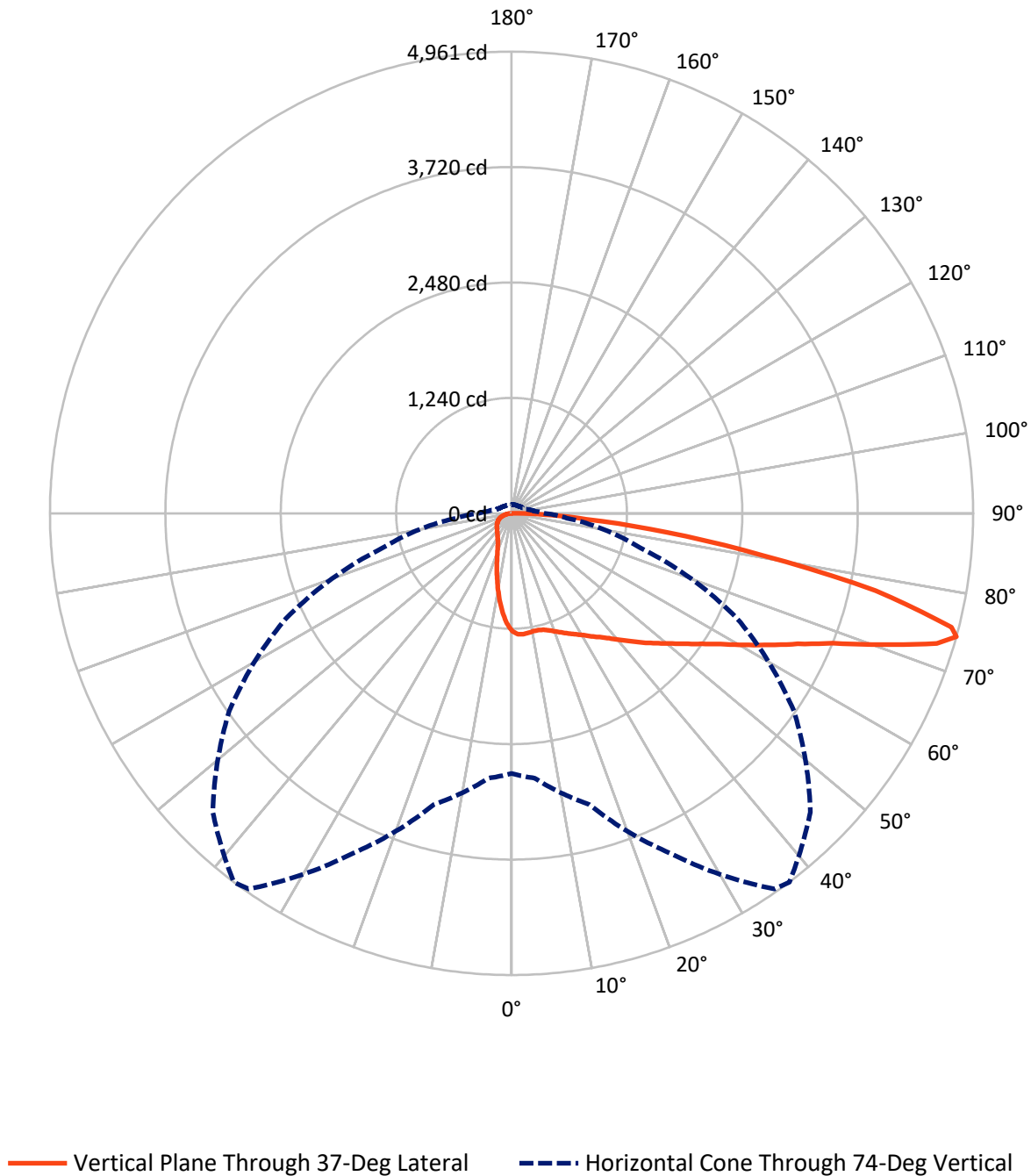
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA2A-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	990.5	0.0	990.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	6208.5	0.0	6208.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	7199.0	0.0	7199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	1.6
10°-20°	286.3	4.0
20°-30°	441.2	6.1
30°-40°	641.5	8.9
40°-50°	944.2	13.1
50°-60°	1325.9	18.4
60°-70°	1678.2	23.3
70°-80°	1477.8	20.5
80°-90°	292.2	4.1
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°	7199.0	100.0
0°-180°	7199.0	100.0

Coefficient of Utilization



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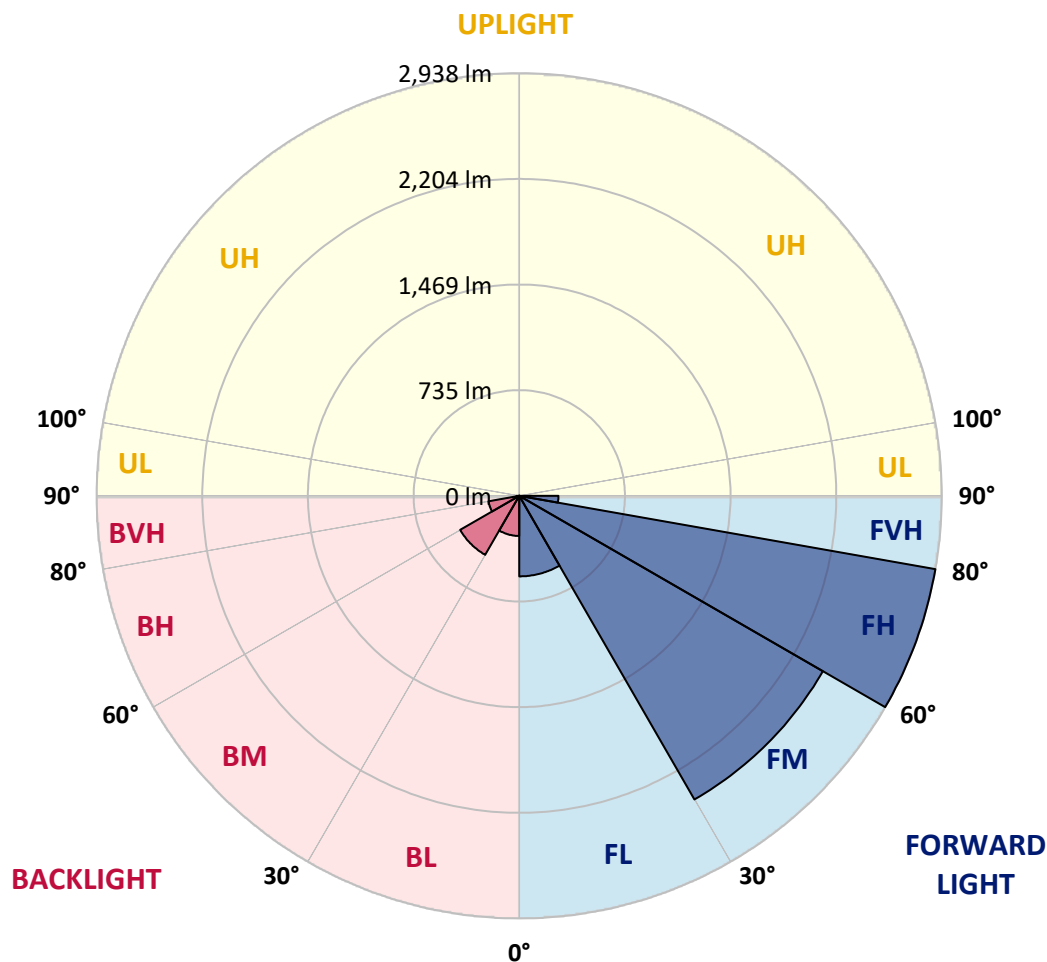
CATALOG NUMBER: GLEON-SA2A-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.2	7.8			
FM	(30°-60°)	2437.6	33.9			
FH	(60°-80°)	2938.3	40.8			G2/5000
FVH	(80°-90°)	272.4	3.8			G3/500
BL	(0°-30°)	279.0	3.9	B1/500		
BM	(30°-60°)	474.0	6.6	B1/1000		
BH	(60°-80°)	217.7	3.0	B1/500		G1/500
BVH	(80°-90°)	19.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4
2.5°	1311.8	1312.1	1311.8	1309.8	1305.0	1300.9	1297.6	1292.8	1282.1	1274.0	1261.8
5°	1324.2	1322.7	1321.7	1317.9	1310.3	1305.7	1299.4	1290.2	1272.7	1256.5	1236.7
7.5°	1318.4	1316.6	1314.3	1309.8	1301.1	1297.3	1288.5	1276.6	1255.5	1234.2	1205.8
10°	1300.4	1299.9	1298.9	1297.9	1290.5	1287.5	1279.3	1266.7	1245.9	1220.0	1186.8
12.5°	1280.4	1281.6	1285.7	1291.0	1287.7	1286.2	1281.1	1272.5	1251.2	1223.3	1183.2
15°	1267.7	1271.2	1282.1	1296.1	1298.9	1298.4	1297.1	1291.5	1268.9	1238.0	1191.3
17.5°	1263.4	1269.2	1290.0	1313.1	1321.2	1323.0	1323.5	1313.8	1288.7	1256.0	1199.7
20°	1271.2	1278.6	1309.0	1340.7	1353.6	1354.7	1352.4	1335.6	1307.5	1271.5	1204.3
22.5°	1295.1	1301.7	1339.7	1375.4	1390.2	1391.7	1384.8	1359.5	1327.3	1289.7	1210.6
25°	1341.0	1349.1	1387.1	1422.9	1430.5	1430.7	1420.8	1389.4	1353.1	1315.3	1224.3
27.5°	1400.8	1408.9	1443.2	1478.2	1474.1	1471.8	1458.4	1426.9	1386.9	1350.6	1248.7
30°	1467.5	1476.4	1508.8	1533.7	1524.1	1519.5	1508.6	1468.0	1433.8	1398.8	1285.9
32.5°	1536.5	1544.6	1573.0	1590.0	1577.8	1575.8	1559.3	1522.3	1494.9	1472.3	1346.3
35°	1607.2	1613.1	1641.0	1650.6	1634.4	1633.9	1629.3	1595.3	1578.1	1588.7	1434.0
37.5°	1679.5	1681.0	1704.9	1705.4	1700.5	1702.6	1707.4	1686.1	1690.9	1724.1	1548.1
40°	1743.9	1748.0	1765.2	1770.5	1778.9	1786.0	1810.1	1796.1	1833.4	1892.3	1690.1
42.5°	1791.6	1799.4	1827.1	1840.8	1867.9	1879.1	1913.1	1926.0	2001.0	2089.3	1859.0
45°	1831.9	1844.1	1888.5	1916.6	1962.5	1982.0	2030.7	2074.1	2190.5	2303.1	2036.8
47.5°	1875.5	1891.0	1946.5	2000.3	2062.7	2084.7	2173.2	2238.1	2392.6	2518.1	2204.4
50°	1939.7	1951.6	2005.9	2090.3	2168.2	2196.6	2319.0	2412.1	2598.0	2723.0	2349.7
52.5°	2029.2	2024.6	2070.5	2189.0	2293.4	2328.4	2474.7	2597.2	2806.2	2908.4	2472.5
55°	2119.2	2111.6	2143.8	2292.2	2439.5	2476.3	2646.2	2783.1	3004.2	3075.2	2566.5
57.5°	2219.4	2204.9	2232.1	2408.6	2605.8	2649.7	2838.1	2980.6	3199.0	3210.1	2626.4
60°	2322.6	2303.1	2333.5	2552.8	2817.1	2868.8	3062.8	3173.4	3382.6	3318.2	2645.7
62.5°	2412.9	2399.2	2446.1	2713.9	3055.2	3112.0	3283.4	3378.3	3563.6	3363.1	2576.2
65°	2491.7	2494.0	2575.2	2894.9	3320.7	3381.3	3536.5	3630.8	3706.2	3336.4	2413.6
67.5°	2585.8	2598.7	2737.2	3133.3	3654.9	3721.4	3904.7	3906.2	3785.8	3180.2	2093.6
70°	2723.0	2749.6	2960.1	3464.0	4130.2	4221.4	4362.9	4068.0	3674.0	2756.7	1647.3
72.5°	2844.7	2894.4	3197.2	3842.3	4709.3	4778.6	4631.0	3974.7	3206.6	2066.0	1026.3
74°	2795.3	2856.9	3240.3	4028.7	4927.4	4960.6	4540.5	3702.4	2673.6	1430.7	596.4
75°	2688.8	2755.7	3177.4	4026.9	4899.8	4881.3	4321.9	3391.2	2201.9	975.8	396.9
77.5°	2169.9	2240.7	2677.4	3451.3	4017.6	4000.1	3319.9	2274.9	964.4	320.0	201.6
80°	1261.6	1315.6	1662.0	2191.7	2709.1	2740.8	2183.4	1125.7	379.4	179.8	136.7
82.5°	560.4	597.7	802.9	1118.8	1634.9	1675.7	1143.4	589.8	234.3	109.3	82.2
85°	367.7	395.3	487.4	532.8	778.5	806.4	559.7	459.2	154.7	60.1	60.4
87.5°	264.5	291.1	362.1	316.2	357.3	338.3	304.6	425.0	62.1	34.2	20.3
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: GLEON-SA2A-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4
2.5°	1256.5	1252.5	1243.3	1226.1	1216.5	1208.3	1194.9	1187.0	1183.5	1183.2	1184.8
5°	1225.3	1215.9	1192.4	1163.5	1140.4	1119.3	1093.2	1077.5	1066.3	1059.7	1061.5
7.5°	1189.1	1174.4	1137.3	1091.2	1054.2	1013.3	973.0	948.9	930.2	916.2	918.7
10°	1164.2	1143.9	1089.9	1023.5	961.9	902.5	847.0	813.8	787.4	767.1	768.6
12.5°	1155.8	1128.5	1053.6	964.9	878.4	797.3	724.7	673.8	646.6	623.6	625.3
15°	1157.1	1120.3	1023.2	912.1	803.4	701.2	613.2	553.6	516.8	500.8	501.1
17.5°	1158.1	1111.0	991.3	855.6	729.1	611.4	515.8	455.4	420.7	406.0	406.2
20°	1154.8	1095.7	951.7	790.7	651.5	529.0	436.4	385.2	358.8	347.4	347.4
22.5°	1150.5	1077.7	907.1	725.5	574.9	457.5	379.6	340.6	325.4	317.7	317.5
25°	1152.5	1064.3	861.4	658.6	504.4	400.4	341.8	316.0	305.8	301.0	300.8
27.5°	1163.5	1058.0	819.3	591.9	442.8	357.6	316.5	298.2	291.6	288.6	288.6
30°	1183.2	1058.0	775.5	535.1	391.5	325.9	296.9	284.5	280.0	277.9	277.9
32.5°	1217.7	1063.8	733.1	478.8	350.7	301.0	280.7	272.4	268.8	267.8	267.8
35°	1277.1	1083.6	691.8	425.5	317.7	280.7	265.3	260.4	257.9	257.6	258.4
37.5°	1360.5	1123.9	653.0	386.2	294.4	264.2	252.3	248.5	247.0	248.3	249.3
40°	1465.5	1178.7	617.7	350.7	276.7	251.0	240.4	237.9	237.1	238.9	240.4
42.5°	1592.3	1252.7	588.8	325.1	263.0	239.9	230.3	227.2	226.5	228.5	230.5
45°	1729.5	1332.3	568.5	306.1	252.3	231.5	221.4	218.1	216.6	217.6	219.9
47.5°	1854.2	1407.7	560.4	292.6	242.2	224.4	213.5	209.5	206.9	206.4	208.2
50°	1959.5	1463.7	564.2	284.5	234.1	216.6	205.9	201.3	197.5	195.3	196.5
52.5°	2036.0	1498.9	567.8	281.0	227.7	207.9	197.5	193.2	188.2	184.4	184.4
55°	2091.6	1507.1	559.9	278.2	222.9	198.6	188.2	184.1	179.0	174.7	174.2
57.5°	2113.4	1484.2	530.8	274.1	219.6	189.7	178.3	175.2	170.9	165.8	165.6
60°	2084.0	1413.7	474.5	265.5	215.3	182.3	168.4	166.4	164.3	159.5	159.3
62.5°	1965.8	1259.1	401.7	248.0	206.7	174.5	159.3	160.3	160.5	157.2	156.7
65°	1751.5	1046.5	330.7	225.2	193.7	165.1	149.9	154.7	157.5	157.0	156.2
67.5°	1440.1	814.5	280.2	201.1	176.7	152.2	139.7	145.3	147.6	149.4	148.9
70°	1068.9	574.4	231.8	175.7	156.2	136.9	126.5	129.3	127.8	129.8	130.6
72.5°	595.9	344.6	188.9	150.4	134.9	119.2	111.8	111.3	108.0	108.0	108.0
74°	357.6	252.8	166.1	134.7	122.0	107.5	101.2	98.9	95.9	96.1	95.9
75°	287.6	217.3	152.4	124.3	112.8	100.7	94.3	91.3	89.0	89.0	88.8
77.5°	181.6	165.1	122.7	98.9	90.3	82.9	78.6	74.6	74.6	74.3	74.0
80°	137.2	131.4	95.6	74.8	69.2	63.7	60.9	59.1	59.1	59.8	59.6
82.5°	94.1	98.9	67.2	52.2	49.4	45.4	44.9	45.1	44.4	43.4	43.1
85°	68.7	74.3	45.4	33.0	30.2	27.6	29.7	30.7	29.4	27.1	26.1
87.5°	26.4	48.7	24.3	13.7	12.7	10.9	12.7	13.2	14.2	11.2	11.4
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 $\text{W}^\wedge/\text{nm}$	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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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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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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)