

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: P318229

Luminaire Tested: **GLEON-SA5A-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18162 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

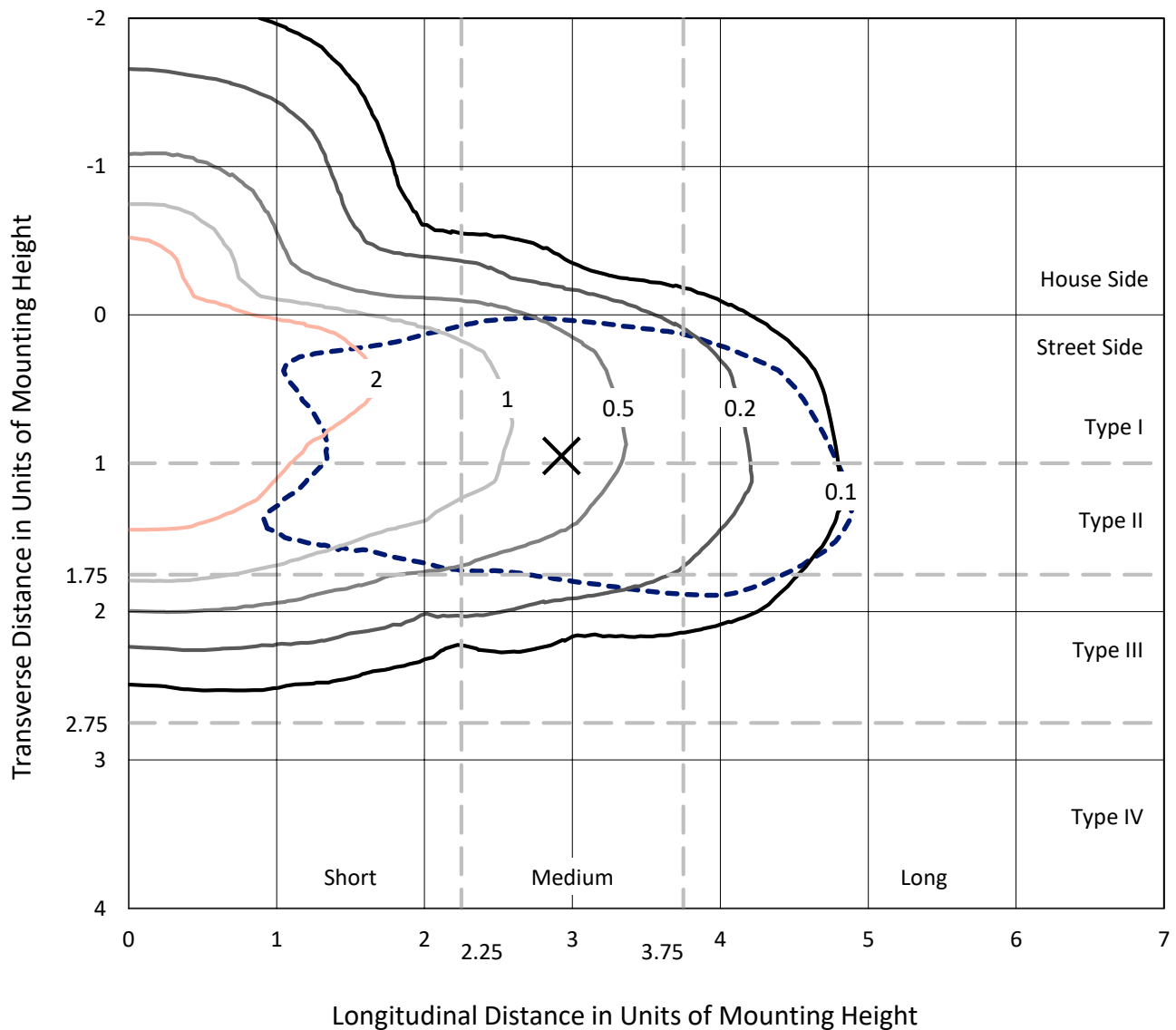


REPORT NUMBER: P318229

CATALOG NUMBER: GLEON-SA5A-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

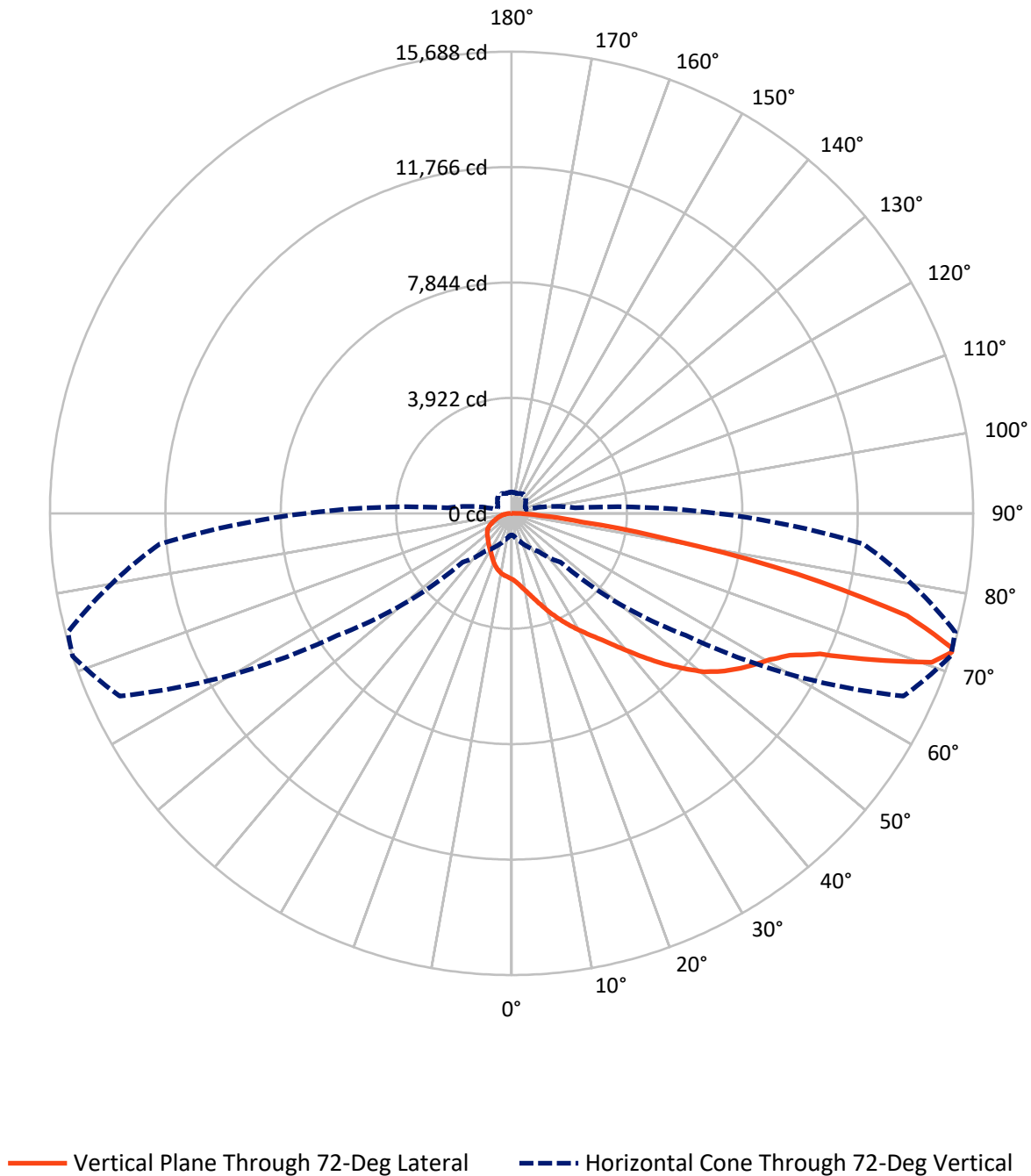
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P318229
CATALOG NUMBER: GLEON-SA5A-830-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P318229

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3369.2	0.0	3369.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14792.8	0.0	14792.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	18162.0	0.0	18162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	1.2
10°-20°	723.5	4.0
20°-30°	1267.8	7.0
30°-40°	1879.8	10.4
40°-50°	2749.3	15.1
50°-60°	3783.1	20.8
60°-70°	4211.7	23.2
70°-80°	2853.8	15.7
80°-90°	469.1	2.6
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°	18162.0	100.0
0°-180°	18162.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318229

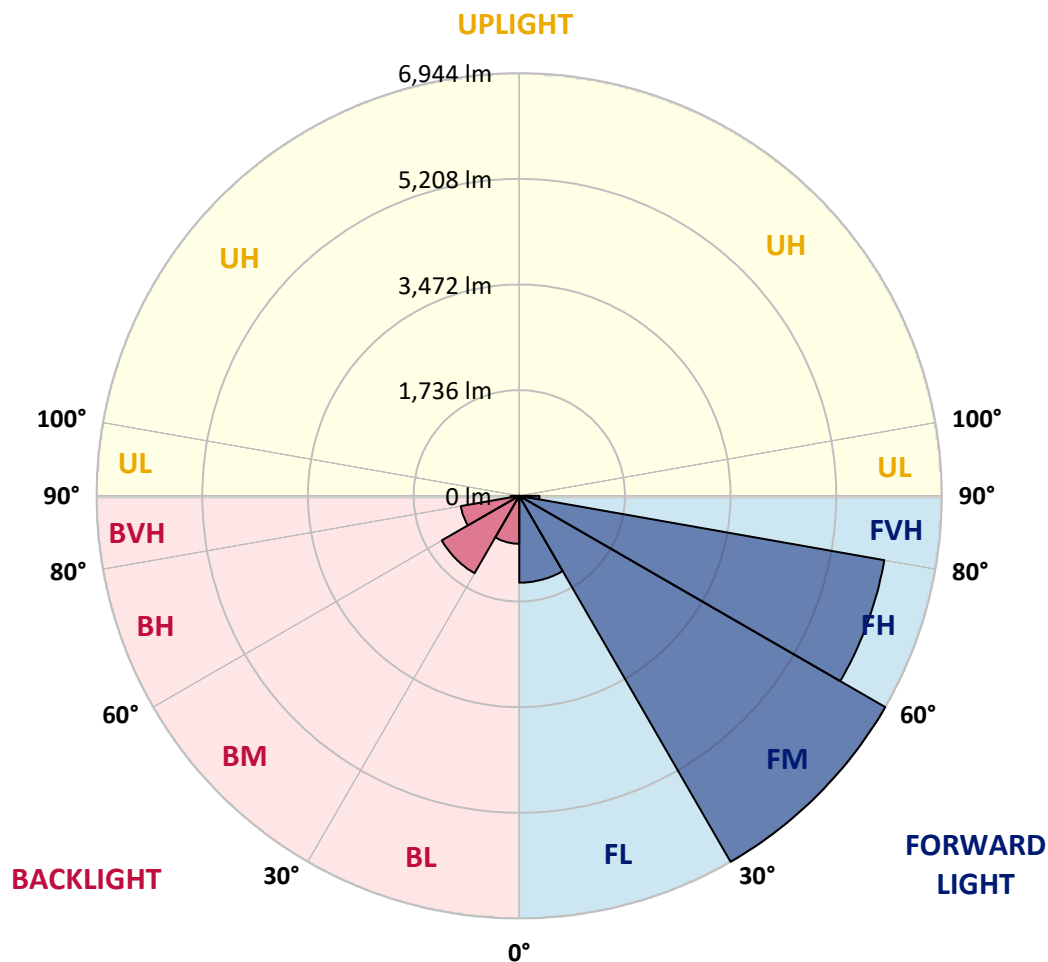
CATALOG NUMBER: GLEON-SA5A-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1427.6	7.9			
FM	(30°-60°)	6943.6	38.2			
FH	(60°-80°)	6090.8	33.5			G3/7500
FVH	(80°-90°)	330.9	1.8			G3/500
BL	(0°-30°)	787.6	4.3	B2/1000		
BM	(30°-60°)	1468.6	8.1	B2/2500		
BH	(60°-80°)	974.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	138.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P318229

CATALOG NUMBER: GLEON-SA5A-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4
2.5°	2468.3	2464.5	2451.4	2451.4	2426.4	2405.1	2365.1	2338.2	2306.3	2295.1	2257.5
5°	2707.2	2708.4	2692.2	2680.9	2644.0	2599.0	2530.8	2468.9	2407.0	2382.0	2305.1
7.5°	2907.9	2905.4	2901.0	2891.6	2857.3	2811.0	2719.1	2627.1	2535.8	2498.3	2365.7
10°	3036.7	3042.4	3046.1	3050.5	3036.1	3003.0	2916.0	2804.1	2684.7	2633.4	2438.3
12.5°	3101.8	3111.8	3129.3	3159.3	3183.1	3179.3	3116.2	2997.3	2855.4	2791.0	2528.9
15°	3139.9	3153.0	3180.6	3234.3	3301.3	3339.4	3322.5	3215.0	3056.7	2977.3	2639.6
17.5°	3163.7	3174.3	3216.8	3288.8	3388.2	3489.5	3533.9	3443.8	3284.4	3193.7	2766.6
20°	3179.9	3188.1	3241.2	3325.6	3454.5	3615.8	3739.6	3717.1	3535.1	3417.6	2899.2
22.5°	3216.2	3223.1	3273.7	3358.8	3501.4	3709.6	3937.9	3971.6	3799.7	3666.5	3041.1
25°	3317.5	3317.5	3360.0	3419.5	3553.3	3790.9	4105.5	4254.9	4069.8	3914.7	3172.4
27.5°	3510.8	3508.9	3524.5	3545.1	3646.5	3873.5	4254.9	4505.1	4350.0	4180.5	3300.0
30°	3739.6	3752.1	3754.0	3744.0	3791.5	3976.6	4393.1	4769.0	4632.0	4449.4	3430.7
32.5°	4034.2	4042.3	4032.9	3999.8	3992.9	4123.0	4528.8	5045.4	4937.2	4730.2	3550.2
35°	4408.1	4392.5	4363.1	4295.6	4231.2	4318.7	4683.9	5321.8	5279.9	5069.8	3714.6
37.5°	4809.0	4809.6	4773.3	4620.1	4531.3	4568.9	4897.8	5635.1	5694.5	5473.7	3925.4
40°	5130.4	5147.3	5169.8	4968.5	4853.4	4905.3	5169.8	5998.4	6184.8	5952.8	4199.9
42.5°	5354.9	5374.3	5438.1	5311.8	5192.3	5288.6	5490.0	6386.1	6735.1	6505.6	4521.3
45°	5592.6	5603.2	5648.2	5593.8	5517.5	5734.5	5850.8	6787.6	7317.3	7094.7	4880.9
47.5°	5842.7	5854.0	5900.2	5864.0	5823.9	6151.0	6227.3	7166.0	7875.1	7741.9	5264.9
50°	6151.6	6159.1	6202.9	6137.3	6149.8	6464.9	6563.7	7513.0	8459.8	8323.5	5650.1
52.5°	6573.1	6575.0	6635.7	6576.3	6517.5	6695.1	6853.3	7840.1	8918.2	8853.8	6035.3
55°	6903.3	6923.3	7122.2	7109.7	7075.9	6903.9	7095.3	8151.5	9327.2	9357.8	6444.3
57.5°	6692.6	6770.7	7173.5	7457.4	7733.8	7423.6	7422.4	8502.4	9707.4	9852.5	6893.9
60°	5861.5	5967.8	6561.2	7191.0	8055.8	8327.9	8101.5	8930.7	10091.4	10342.8	7457.4
62.5°	4186.1	4361.2	5165.4	6171.0	7614.3	8927.0	9483.5	9610.5	10613.6	10910.6	8189.7
65°	2116.2	2248.8	2922.9	4134.2	6083.5	8535.5	10985.6	11098.8	11520.9	11784.8	9317.2
67.5°	1285.7	1335.8	1664.7	2299.4	3729.6	6648.8	11475.9	13579.6	13277.0	13417.0	10925.0
70°	947.4	984.3	1189.4	1527.1	2145.0	3901.6	9971.3	15350.0	15151.1	15135.5	12113.2
72°	737.9	764.8	946.2	1233.8	1568.4	2340.7	7227.2	14696.5	15687.7	15608.9	12004.3
72.5°	699.8	723.5	888.6	1161.3	1482.1	2121.8	6498.1	14255.6	15648.9	15613.3	11863.6
75°	550.9	567.8	657.9	898.0	1160.0	1203.8	3560.8	11047.6	13882.3	14459.5	10670.5
77.5°	455.9	458.4	505.9	653.5	904.3	851.1	1749.1	7665.0	9940.7	10575.4	7558.7
80°	371.5	374.6	397.1	458.4	684.1	629.7	830.5	4407.5	5565.7	5572.6	3594.6
82.5°	295.8	296.4	321.4	335.2	491.5	450.3	475.9	2069.3	2432.0	2339.5	1292.0
85°	208.2	203.9	313.9	275.2	321.4	288.9	262.6	819.2	1005.6	961.8	404.6
87.5°	69.4	71.9	139.5	178.2	187.6	163.8	116.9	313.9	379.6	376.5	128.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318229

CATALOG NUMBER: GLEON-SA5A-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4	2234.4
2.5°	2245.7	2225.6	2196.3	2163.7	2138.1	2111.8	2092.4	2082.4	2071.2	2061.8	2073.1
5°	2269.4	2231.9	2169.4	2108.1	2063.1	2023.0	1994.3	1979.3	1965.5	1956.1	1957.4
7.5°	2308.2	2247.5	2142.5	2053.0	1990.5	1947.4	1918.0	1908.0	1899.2	1896.7	1899.8
10°	2349.5	2260.0	2106.8	1988.0	1916.7	1881.1	1867.9	1874.8	1881.1	1886.7	1893.0
12.5°	2396.4	2271.3	2054.9	1911.7	1851.1	1837.3	1850.4	1880.4	1902.3	1915.5	1923.6
15°	2457.7	2281.3	1994.9	1835.4	1794.8	1810.4	1854.8	1906.7	1944.9	1969.2	1973.0
17.5°	2513.9	2280.7	1918.0	1758.5	1749.1	1794.8	1861.7	1934.9	1986.1	2020.5	2027.4
20°	2572.1	2263.8	1828.5	1683.5	1702.8	1777.9	1864.8	1953.0	2014.9	2054.9	2064.3
22.5°	2626.5	2234.4	1730.4	1615.3	1664.1	1755.4	1852.9	1942.4	2004.3	2036.8	2046.8
25°	2663.4	2183.1	1630.9	1557.8	1629.7	1727.9	1814.2	1886.1	1932.4	1948.6	1951.1
27.5°	2682.2	2116.2	1537.1	1507.7	1594.0	1682.8	1742.2	1777.9	1791.0	1789.8	1787.3
30°	2684.7	2028.0	1456.5	1467.1	1552.8	1616.5	1644.7	1637.8	1620.9	1592.2	1594.7
32.5°	2676.5	1928.6	1388.9	1428.3	1500.2	1535.9	1537.1	1504.0	1459.0	1413.3	1400.8
35°	2679.0	1831.0	1329.5	1384.5	1436.4	1452.1	1437.7	1388.9	1327.6	1268.8	1256.3
37.5°	2706.5	1746.0	1278.2	1333.9	1365.8	1369.5	1348.9	1297.6	1252.6	1195.1	1190.1
40°	2772.2	1685.3	1229.5	1277.0	1295.1	1297.0	1267.6	1231.3	1235.1	1204.4	1203.8
42.5°	2890.4	1659.1	1186.3	1217.6	1228.8	1232.6	1210.1	1186.9	1219.4	1199.4	1192.6
45°	3043.0	1665.3	1150.0	1159.4	1180.0	1197.6	1183.8	1155.7	1168.2	1081.2	1052.5
47.5°	3219.3	1705.3	1121.3	1109.4	1145.0	1178.2	1156.9	1114.4	1070.0	983.7	967.4
50°	3425.7	1767.3	1095.0	1060.0	1106.9	1151.9	1130.6	1070.0	1003.1	961.2	955.5
52.5°	3640.8	1842.9	1068.7	1005.6	1058.7	1131.9	1121.3	1060.0	977.4	936.2	928.7
55°	3884.7	1919.2	1035.6	942.4	1006.8	1122.5	1116.9	1023.7	958.0	934.9	929.3
57.5°	4188.0	2006.1	991.8	876.8	958.0	1088.7	1071.2	1001.8	938.0	920.5	918.6
60°	4583.2	2134.3	928.7	806.7	898.6	1036.8	1033.1	969.9	906.1	893.6	891.1
62.5°	5176.1	2346.3	841.7	736.7	832.3	948.7	983.1	926.8	872.4	871.7	873.0
65°	6095.4	2665.3	747.3	675.4	765.4	874.2	924.9	882.4	838.0	850.5	852.4
67.5°	7161.0	2929.8	654.7	615.4	697.3	803.6	872.4	838.0	792.3	824.8	825.5
70°	7515.5	2693.4	573.5	555.9	626.6	735.4	815.5	789.2	742.9	775.4	772.3
72°	6994.0	2174.4	520.9	510.9	573.5	679.1	764.8	743.5	697.9	719.8	711.7
72.5°	6829.5	2073.1	507.8	499.7	559.1	664.8	751.7	732.3	686.6	705.4	697.9
75°	6092.2	1800.4	436.5	438.4	487.8	594.7	677.9	671.6	624.7	626.6	624.1
77.5°	4418.8	1320.1	367.7	380.2	415.2	522.8	603.5	599.7	548.4	539.1	537.2
80°	2050.5	673.5	299.5	305.2	341.4	437.1	514.7	509.7	468.4	456.5	449.6
82.5°	702.3	320.2	225.1	228.9	264.5	352.1	446.5	443.4	409.0	385.8	371.5
85°	250.8	159.5	157.6	153.8	188.9	277.0	389.0	372.1	321.4	273.9	272.7
87.5°	81.3	68.2	81.3	80.7	110.1	187.6	282.7	240.8	233.3	193.9	190.1
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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

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			

REPORT NUMBER: SP1-2408-195-9

TM-30-18

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)