

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: P317907

Luminaire Tested: **GLEON-SA3A-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11560 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

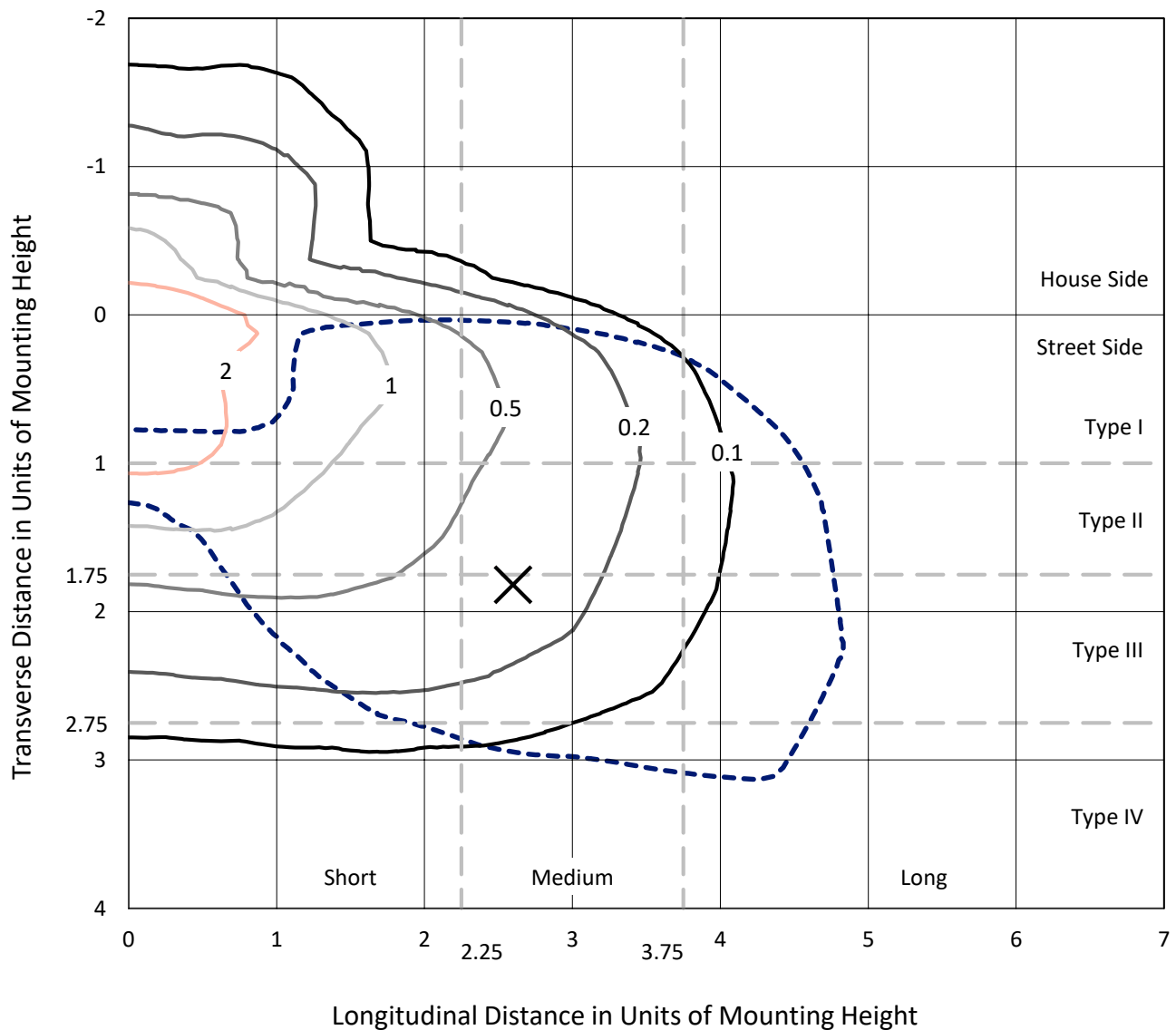
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

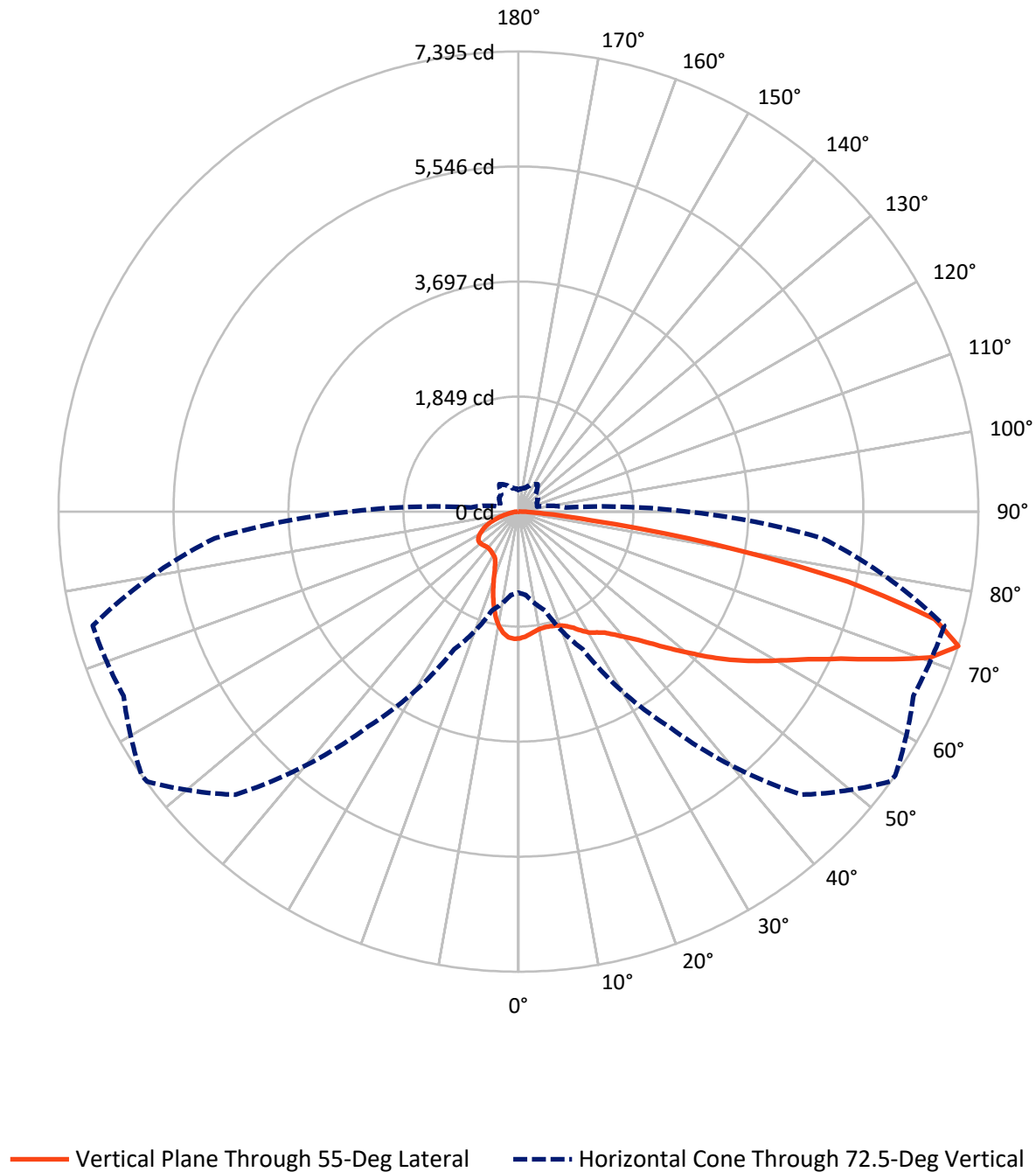
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2148.6	0.0	2148.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9411.4	0.0	9411.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	11560.0	0.0	11560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	1.6
10°-20°	491.2	4.2
20°-30°	809.9	7.0
30°-40°	1198.0	10.4
40°-50°	1672.2	14.5
50°-60°	2177.2	18.8
60°-70°	2675.7	23.1
70°-80°	2097.5	18.1
80°-90°	253.8	2.2
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°	11560.0	100.0
0°-180°	11560.0	100.0

Coefficient of Utilization



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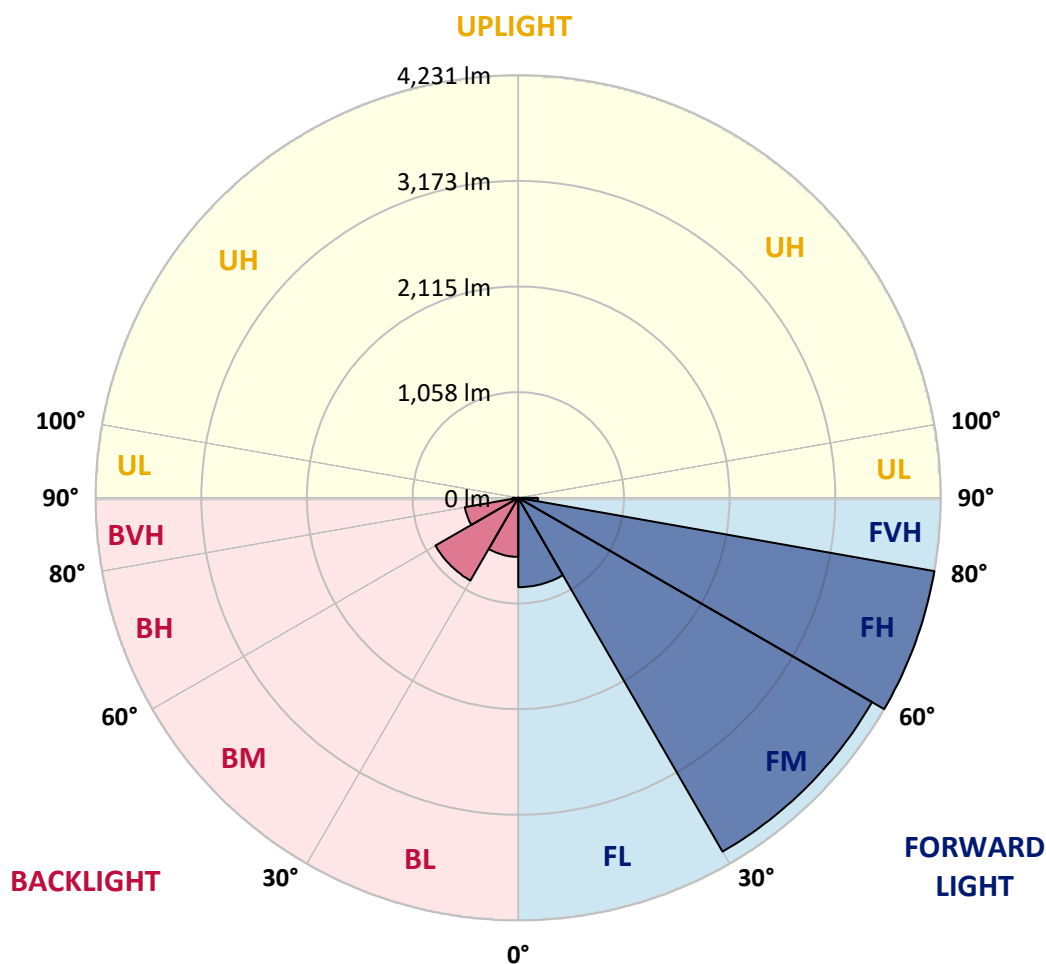
CATALOG NUMBER: GLEON-SA3A-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	894.4	7.7			
FM	(30°-60°)	4090.2	35.4			
FH	(60°-80°)	4230.6	36.6			G2/5000
FVH	(80°-90°)	196.2	1.7			G2/225
BL	(0°-30°)	591.2	5.1	B2/1000		
BM	(30°-60°)	957.2	8.3	B1/1000		
BH	(60°-80°)	542.6	4.7	B2/1000		G2/1000
BVH	(80°-90°)	57.6	0.5			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 IV Medium



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CATALOG NUMBER: GLEON-SA3A-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9
2.5°	1972.6	1967.9	1973.7	1981.9	1990.9	2003.0	2010.0	2013.2	2025.3	2030.0	2040.1
5°	1881.2	1878.9	1888.6	1902.7	1922.6	1950.7	1973.3	1977.6	2009.7	2032.3	2053.0
7.5°	1814.8	1814.8	1826.1	1842.9	1865.2	1903.1	1935.1	1940.9	1995.2	2044.0	2082.3
10°	1762.1	1764.1	1777.3	1797.2	1823.4	1863.6	1906.2	1912.8	1991.3	2071.3	2132.3
12.5°	1727.0	1731.7	1743.8	1761.7	1794.1	1842.9	1896.8	1905.8	1999.5	2110.4	2192.4
15°	1749.2	1757.0	1758.2	1765.6	1783.6	1836.7	1902.3	1911.6	2017.1	2150.2	2260.7
17.5°	1846.8	1849.6	1837.5	1821.8	1813.3	1847.2	1918.7	1928.4	2038.2	2189.6	2326.3
20°	1995.2	1993.6	1967.5	1925.3	1881.6	1887.0	1945.6	1955.8	2066.7	2224.4	2391.9
22.5°	2182.6	2177.2	2136.9	2059.2	1984.7	1953.4	1992.9	2001.5	2109.6	2274.0	2462.2
25°	2409.9	2397.8	2344.7	2240.4	2130.7	2050.3	2063.9	2072.1	2172.1	2329.4	2526.6
27.5°	2649.6	2637.5	2569.9	2443.8	2297.8	2172.5	2161.9	2169.0	2243.1	2370.4	2574.2
30°	2900.3	2887.4	2825.7	2684.4	2475.1	2299.0	2253.3	2256.0	2293.1	2392.7	2613.3
32.5°	3152.1	3140.0	3070.9	2906.9	2667.6	2434.9	2319.3	2315.8	2323.2	2415.7	2657.4
35°	3407.5	3412.2	3331.3	3149.8	2880.7	2586.0	2397.4	2390.0	2373.6	2463.0	2719.9
37.5°	3680.8	3677.7	3573.0	3383.3	3103.7	2749.9	2509.4	2508.3	2451.6	2552.4	2817.9
40°	3863.5	3865.5	3801.8	3622.2	3329.0	2931.5	2653.1	2650.4	2576.2	2686.3	2946.3
42.5°	3935.0	3947.9	3964.2	3850.2	3564.8	3142.0	2824.5	2820.6	2749.9	2878.4	3097.4
45°	3940.0	3965.8	4067.3	4052.9	3803.8	3382.9	3043.6	3032.6	2981.9	3133.8	3277.8
47.5°	3896.3	3922.9	4091.5	4173.5	4017.4	3637.1	3299.7	3291.1	3247.4	3453.1	3473.1
50°	3800.7	3826.0	4041.6	4232.5	4193.1	3881.5	3594.9	3572.2	3548.8	3822.1	3696.4
52.5°	3621.4	3670.2	3974.8	4246.5	4298.1	4098.6	3905.3	3890.5	3903.3	4211.4	3920.1
55°	3197.0	3251.7	3802.6	4234.8	4375.8	4280.9	4215.7	4214.9	4281.7	4619.8	4160.3
57.5°	2959.2	2997.9	3452.0	4214.9	4467.9	4462.1	4523.0	4530.4	4660.4	5064.5	4411.7
60°	2824.9	2865.5	3274.3	4141.1	4610.8	4696.3	4836.5	4851.4	5045.4	5556.9	4714.3
62.5°	2702.7	2747.2	3164.2	3990.8	4779.1	5031.4	5212.1	5225.4	5453.0	6062.9	5006.8
65°	2493.8	2544.2	3003.0	3892.0	4932.2	5468.3	5689.7	5698.6	5921.2	6593.2	5230.5
67.5°	2198.6	2244.7	2698.8	3673.8	5045.4	5998.9	6324.5	6329.6	6385.4	6967.6	5344.9
70°	1853.9	1871.4	2265.4	3223.2	4911.5	6495.2	7020.3	7021.5	6808.7	7207.3	5326.1
72.5°	1302.5	1343.9	1644.6	2439.9	4220.8	6434.6	7381.5	7394.8	7005.5	7086.3	4900.6
75°	798.9	842.6	1031.6	1478.6	2677.7	5060.6	6820.0	6912.2	6636.5	6318.3	4003.3
77.5°	534.1	550.5	673.1	862.1	1213.1	2911.6	5243.4	5416.7	5513.2	4607.7	2560.2
80°	297.9	329.2	446.3	535.7	539.6	1156.9	3143.9	3184.5	3067.4	1834.7	789.9
82.5°	157.7	174.9	297.9	314.7	294.4	387.3	1171.7	1172.9	980.0	492.0	234.7
85°	122.2	136.7	204.2	192.1	150.3	171.8	386.5	407.6	333.4	201.5	76.5
87.5°	60.9	75.7	138.6	121.8	59.0	49.2	138.2	147.6	131.6	78.9	27.7
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-SA3A-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9	2038.9
2.5°	2044.0	2047.5	2051.8	2047.1	2045.6	2039.3	2028.8	2026.4	2021.0	2021.4	2024.5
5°	2062.0	2067.8	2065.5	2047.5	2026.1	1996.0	1964.7	1938.2	1920.6	1919.5	1918.3
7.5°	2096.3	2100.2	2081.9	2030.7	1970.6	1901.1	1835.5	1778.1	1743.4	1734.8	1732.8
10°	2150.2	2149.4	2099.1	1996.0	1876.1	1752.0	1646.5	1566.9	1520.4	1506.8	1503.2
12.5°	2210.3	2201.4	2104.9	1932.7	1742.6	1570.4	1436.9	1348.2	1299.8	1284.2	1280.3
15°	2272.4	2250.2	2090.5	1838.2	1578.6	1374.8	1234.6	1152.6	1126.5	1117.9	1116.3
17.5°	2330.2	2287.3	2049.1	1710.2	1391.6	1179.9	1070.6	1037.8	1044.1	1055.4	1055.8
20°	2386.8	2312.3	1982.7	1548.5	1194.4	1019.5	982.4	1006.6	1036.3	1059.3	1062.4
22.5°	2442.7	2329.8	1897.2	1361.9	1017.9	929.3	955.4	999.6	1033.5	1058.5	1062.8
25°	2489.5	2334.1	1779.3	1162.8	895.3	895.3	942.5	984.3	1017.9	1042.5	1046.8
27.5°	2506.7	2305.2	1613.0	978.5	833.6	879.7	924.6	959.3	987.8	1014.0	1018.7
30°	2513.3	2251.7	1420.9	830.5	808.2	862.9	900.4	930.1	957.0	981.6	985.9
32.5°	2514.5	2187.3	1217.0	746.5	790.7	845.3	870.3	896.5	925.4	935.1	936.7
35°	2521.9	2111.2	1002.3	703.6	774.3	828.9	848.8	867.6	820.7	824.2	827.4
37.5°	2543.4	2035.8	822.7	679.4	763.7	820.3	844.2	776.2	739.5	730.9	729.8
40°	2583.6	1955.4	689.5	659.9	759.8	824.6	814.1	724.7	661.4	614.2	607.2
42.5°	2639.4	1868.7	604.4	647.0	762.6	845.3	772.3	675.1	570.1	539.6	535.7
45°	2702.3	1777.7	558.3	638.0	771.9	861.3	763.7	609.1	527.5	504.5	502.5
47.5°	2763.2	1666.4	534.5	634.1	784.8	848.5	727.4	588.8	507.2	495.1	496.3
50°	2833.1	1566.1	520.1	629.8	796.1	840.3	686.4	578.3	499.4	514.2	529.8
52.5°	2892.1	1462.2	507.2	621.2	800.4	825.8	675.9	580.2	499.4	527.9	542.7
55°	2962.0	1383.8	492.4	603.2	792.2	784.8	668.5	591.9	505.2	487.3	488.8
57.5°	3052.2	1358.0	476.0	575.1	764.9	725.1	664.9	603.2	501.7	490.4	494.3
60°	3177.1	1385.3	469.3	538.4	722.3	678.2	665.3	597.4	477.1	457.6	458.0
62.5°	3296.2	1415.8	468.9	515.4	670.0	636.4	656.3	578.3	464.6	453.3	457.6
65°	3335.2	1384.9	450.2	489.6	611.1	586.5	639.9	558.0	455.3	438.1	437.3
67.5°	3282.9	1289.3	412.3	447.8	543.5	528.3	618.5	533.7	440.4	426.4	424.0
70°	3127.5	1075.7	365.5	392.8	466.6	462.7	584.5	505.6	420.5	408.4	398.3
72.5°	2709.3	766.5	308.1	326.8	379.9	392.4	537.7	468.9	392.4	366.2	350.6
75°	2225.2	567.3	253.0	256.9	288.5	322.5	473.2	426.0	359.2	314.7	302.6
77.5°	1362.7	347.1	201.5	203.0	206.9	257.3	389.7	378.0	317.0	262.4	253.8
80°	441.2	189.4	145.6	153.1	141.3	188.6	301.4	321.7	272.1	219.4	210.1
82.5°	167.9	110.5	98.4	103.5	98.0	126.5	219.8	257.7	222.9	180.4	146.8
85°	81.2	62.5	58.2	65.2	60.5	64.8	140.6	189.8	169.1	117.5	109.3
87.5°	28.9	27.7	22.3	30.1	25.8	23.0	42.9	95.7	111.7	80.8	72.2
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 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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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

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



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)