

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: P317620

Luminaire Tested: **GLEON-SA6D-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38419 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

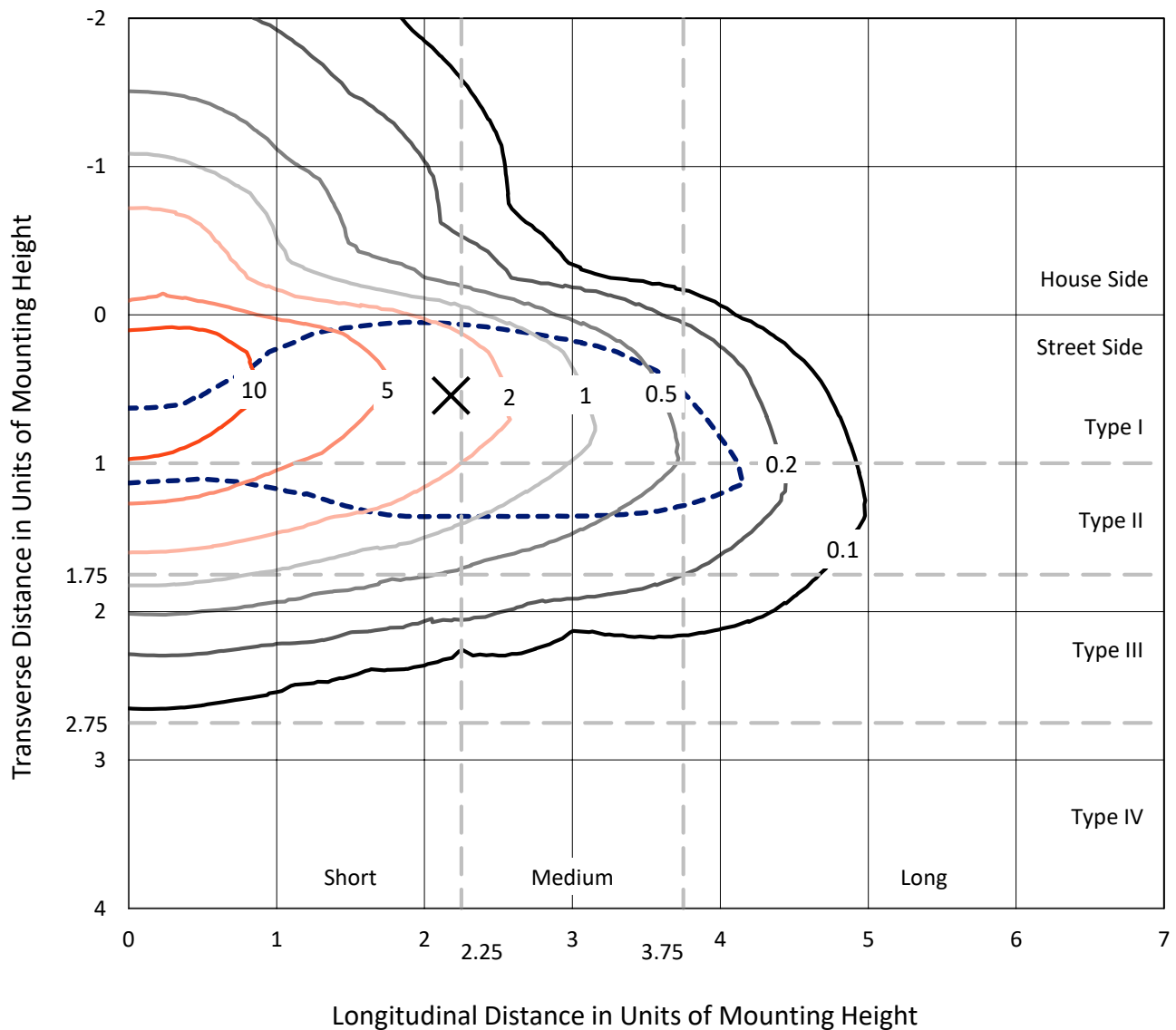
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

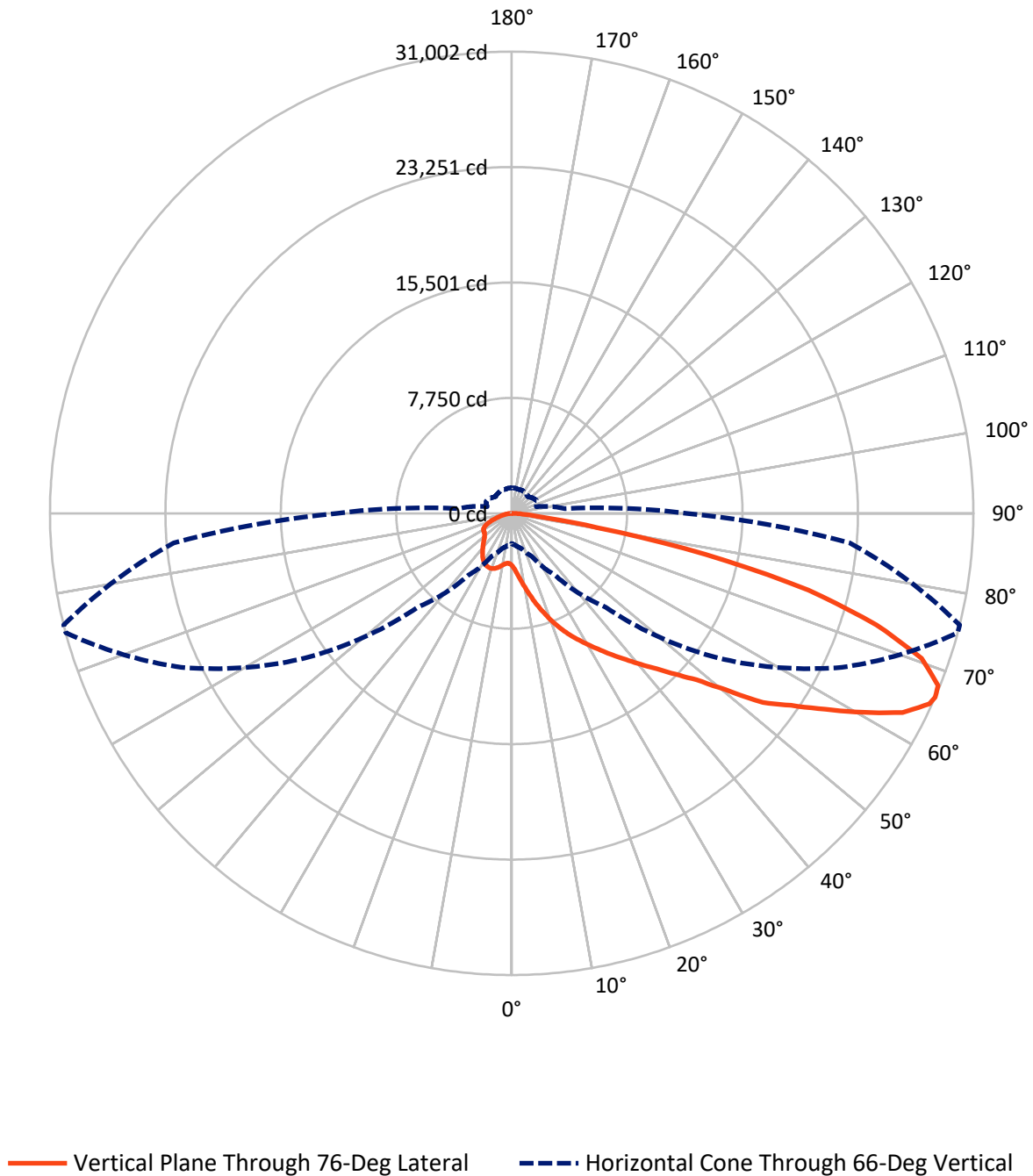
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA6D-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6464.6	0.0	6464.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	31954.4	0.0	31954.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	38419.0	0.0	38419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.3	1.1
10°-20°	1675.4	4.4
20°-30°	3255.8	8.5
30°-40°	5314.2	13.8
40°-50°	7260.4	18.9
50°-60°	8456.9	22.0
60°-70°	7581.8	19.7
70°-80°	3831.5	10.0
80°-90°	618.7	1.6
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°	38419.0	100.0
0°-180°	38419.0	100.0

Coefficient of Utilization



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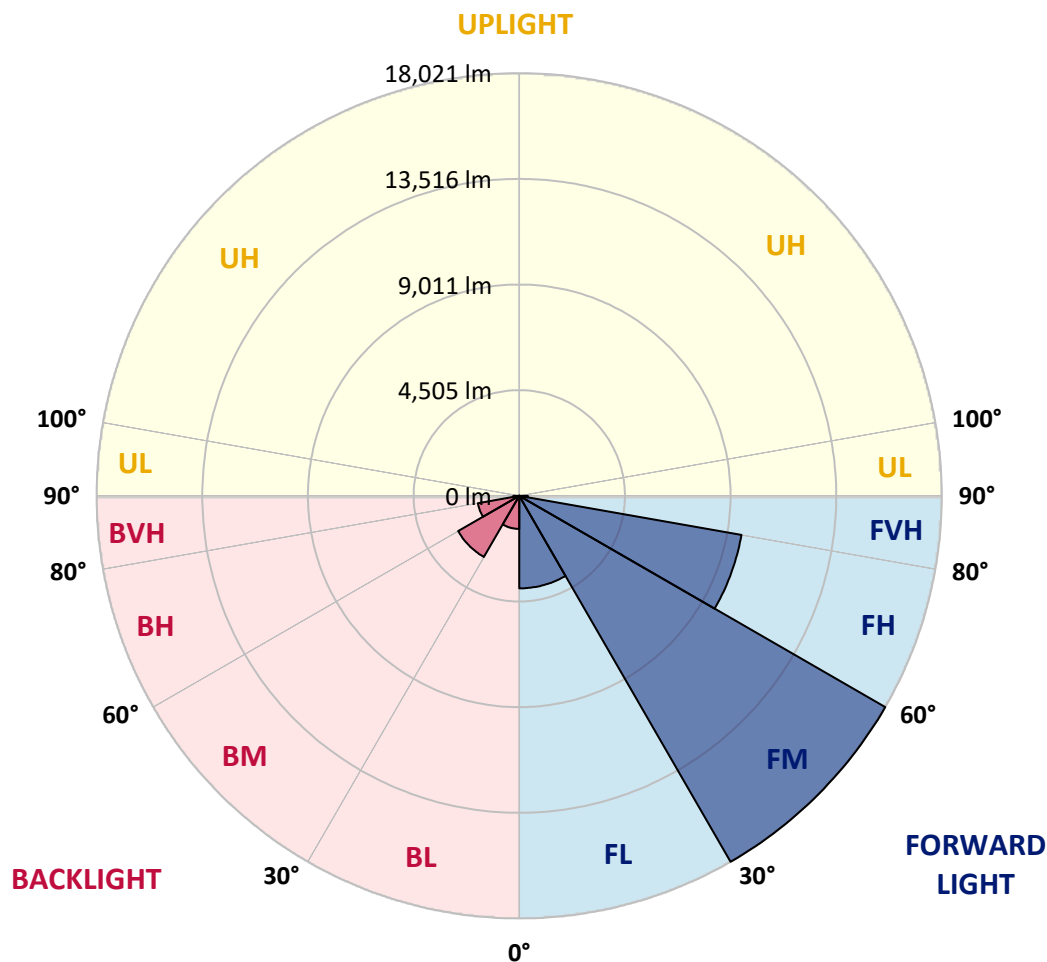
CATALOG NUMBER: GLEON-SA6D-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3945.5	10.3			
FM	(30°-60°)	18021.2	46.9			
FH	(60°-80°)	9622.3	25.0			G4/12000
FVH	(80°-90°)	365.4	1.0			G3/500
BL	(0°-30°)	1410.0	3.7	B3/2500		
BM	(30°-60°)	3010.3	7.8	B3/5000		
BH	(60°-80°)	1791.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	253.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5
2.5°	4657.6	4587.2	4580.6	4477.6	4454.1	4257.2	4112.4	3961.1	3788.9	3755.0	3619.4
5°	5982.7	5976.2	5886.2	5718.0	5586.2	5249.7	4917.1	4565.0	4178.9	4116.3	3811.1
7.5°	7174.9	7164.4	7095.3	6914.0	6723.6	6310.1	5835.4	5295.4	4669.3	4576.7	4070.7
10°	8080.0	8076.1	8052.6	7919.6	7757.9	7361.4	6837.1	6100.1	5239.3	5112.8	4395.4
12.5°	8779.1	8787.0	8802.6	8755.7	8678.7	8340.9	7803.5	6953.1	5847.1	5721.9	4756.7
15°	9252.6	9276.1	9356.9	9423.4	9463.9	9256.5	8736.1	7825.7	6527.9	6377.9	5157.1
17.5°	9491.3	9517.4	9656.9	9857.8	10043.0	10022.1	9608.7	8657.8	7181.4	7036.6	5587.5
20°	9697.3	9716.9	9873.4	10114.7	10442.1	10586.9	10354.7	9458.7	7897.4	7725.3	6044.0
22.5°	10294.7	10319.5	10366.4	10503.4	10792.9	11059.0	10946.8	10216.4	8553.5	8393.1	6477.1
25°	11447.7	11477.7	11376.0	11259.9	11314.7	11499.9	11520.7	10907.7	9218.7	9037.4	6942.7
27.5°	12836.8	12879.8	12706.3	12407.6	12146.8	12075.1	12050.3	11473.8	9853.9	9643.9	7403.1
30°	14197.1	14271.5	14045.8	13658.5	13179.8	12843.3	12594.2	12028.1	10479.9	10279.1	7837.4
32.5°	15526.2	15496.2	15168.8	14790.6	14229.7	13808.4	13205.9	12622.9	11184.2	10953.4	8269.2
35°	16436.6	16447.0	16143.1	15694.4	15159.7	14836.2	14025.0	13264.6	11902.9	11690.3	8759.6
37.5°	17211.3	17163.1	16818.7	16400.1	15939.6	15801.4	14983.6	13971.5	12681.5	12449.4	9281.3
40°	17469.6	17413.5	17187.8	16886.6	16517.4	16505.7	16041.4	14772.3	13561.9	13332.4	9869.5
42.5°	17313.1	17241.3	17148.7	17066.5	16953.1	17005.2	17035.2	15711.4	14529.7	14272.8	10550.3
45°	16735.3	16627.0	16692.2	16870.9	17117.4	17412.2	17932.6	16750.9	15613.6	15398.4	11349.9
47.5°	15847.0	15749.2	15952.7	16334.8	17005.2	17751.3	18781.7	17898.7	16907.4	16693.5	12488.5
50°	14597.5	14626.2	14917.1	15612.3	16625.7	17907.8	19827.7	19418.2	18788.2	18588.6	14041.9
52.5°	12547.2	12552.4	13371.5	14512.8	15952.7	17826.9	20408.1	21360.2	21356.3	21115.0	15521.0
55°	10642.9	10759.0	11407.3	12924.1	14862.3	17503.5	20813.7	22304.5	23042.8	22759.7	16899.6
57.5°	8783.0	8850.9	9465.2	10988.6	13306.3	16641.3	21229.8	23438.0	24986.1	24807.5	18613.4
60°	6667.5	6771.8	7407.0	8814.3	11316.0	15111.4	21268.9	24620.9	27309.1	27129.1	20526.8
62.5°	4327.6	4507.6	5102.4	6421.0	8908.3	12911.1	20361.2	25394.4	29510.7	29446.8	22225.0
65°	2487.3	2622.9	3036.4	4053.7	6145.8	10148.6	18202.6	25097.0	30865.9	30829.3	22860.2
66°	2032.1	2116.9	2433.8	3168.1	5071.1	8912.2	16947.9	24469.7	31000.2	31001.5	22787.1
67.5°	1625.1	1663.0	1805.1	2268.1	3742.0	7064.0	14705.8	23085.8	30833.2	30878.9	22316.3
70°	1344.7	1364.3	1408.6	1520.8	2042.5	4259.8	10438.2	19489.9	29157.2	29192.5	20478.5
72.5°	1206.5	1218.2	1235.2	1250.8	1441.2	2380.3	6375.3	15591.4	25563.9	25609.6	17678.3
75°	1093.0	1099.5	1096.9	1098.2	1209.1	1516.9	3294.6	11640.7	20670.3	20579.0	13542.4
77.5°	960.0	966.5	953.4	956.0	1069.5	1166.0	1639.5	8149.2	13949.3	13305.0	7630.1
80°	811.3	816.5	811.3	820.4	931.3	880.4	953.4	4584.6	6168.0	5834.1	2712.9
82.5°	613.0	635.2	650.8	687.4	766.9	626.1	637.8	1785.6	1878.2	1788.2	832.1
85°	268.7	327.4	490.4	525.6	576.5	375.6	418.7	727.8	764.3	740.8	302.6
87.5°	70.4	77.0	242.6	305.2	319.5	169.6	217.8	331.3	349.5	331.3	100.4
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-SA6D-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5	3508.5
2.5°	3547.6	3483.7	3369.0	3267.2	3190.3	3138.1	3085.9	3059.8	3044.2	3028.5	3031.2
5°	3661.1	3532.0	3335.1	3195.5	3117.2	3067.7	3041.6	3031.2	3024.6	3009.0	3009.0
7.5°	3832.0	3649.4	3378.1	3234.6	3173.3	3135.5	3119.8	3114.6	3106.8	3088.5	3091.2
10°	4047.2	3791.6	3468.1	3328.5	3272.4	3230.7	3208.5	3200.7	3186.4	3165.5	3168.1
12.5°	4300.2	3967.6	3586.8	3440.7	3372.9	3316.8	3280.3	3258.1	3233.3	3205.9	3207.2
15°	4576.7	4159.4	3714.6	3541.1	3448.5	3370.3	3311.6	3273.8	3234.6	3200.7	3199.4
17.5°	4857.1	4344.6	3812.4	3595.9	3470.7	3367.7	3288.1	3229.4	3181.1	3139.4	3135.5
20°	5159.7	4511.5	3867.2	3590.7	3429.0	3306.4	3200.7	3127.7	3074.2	3032.5	3025.9
22.5°	5467.6	4668.0	3876.3	3537.2	3336.4	3186.4	3075.5	2994.6	2939.9	2896.8	2881.2
25°	5749.3	4789.3	3838.5	3434.2	3207.2	3045.5	2937.2	2855.1	2810.7	2759.9	2744.2
27.5°	6006.2	4874.1	3762.9	3302.4	3062.5	2903.3	2801.6	2731.2	2682.9	2643.8	2630.7
30°	6237.1	4919.8	3638.9	3145.9	2913.8	2769.0	2682.9	2634.7	2592.9	2543.4	2534.2
32.5°	6456.2	4919.8	3479.8	2975.1	2766.4	2650.3	2599.4	2569.4	2522.5	2474.2	2461.2
35°	6675.3	4889.8	3292.0	2796.4	2630.7	2565.5	2562.9	2527.7	2456.0	2390.8	2373.8
37.5°	6906.2	4828.5	3080.7	2629.4	2519.9	2527.7	2549.9	2471.6	2369.9	2277.3	2252.5
40°	7167.0	4743.7	2861.6	2484.7	2427.3	2510.7	2514.7	2390.8	2192.5	2107.7	2085.5
42.5°	7473.5	4658.9	2658.1	2356.8	2354.2	2459.9	2448.1	2216.0	2097.3	2054.2	2042.5
45°	7876.6	4610.6	2465.1	2235.5	2296.8	2377.7	2334.7	2119.5	2069.9	2045.1	2034.7
47.5°	8511.8	4635.4	2287.7	2139.0	2239.5	2295.5	2123.4	2080.3	2045.1	2015.1	2004.7
50°	9307.4	4621.1	2144.2	2072.5	2174.2	2209.5	2028.2	2029.5	2011.2	1977.3	1961.6
52.5°	9906.0	4508.9	2051.6	2034.7	2116.9	2056.9	1968.2	1979.9	1970.8	1921.2	1904.3
55°	10483.8	4412.4	2004.7	2020.3	2075.1	1866.4	1897.7	1926.4	1917.3	1869.0	1861.2
57.5°	11202.5	4394.1	1976.0	2024.2	2039.9	1771.2	1829.9	1867.7	1861.2	1840.3	1836.4
60°	12082.9	4399.3	1949.9	2030.8	2000.8	1700.8	1766.0	1814.3	1818.2	1814.3	1811.6
62.5°	12566.8	4257.2	1884.7	2012.5	1931.6	1639.5	1699.5	1769.9	1771.2	1779.0	1777.7
65°	12155.9	3832.0	1763.4	1948.6	1815.6	1588.6	1642.1	1719.0	1699.5	1734.7	1734.7
66°	11756.8	3586.8	1703.4	1906.9	1766.0	1569.1	1623.8	1693.0	1668.2	1716.4	1716.4
67.5°	10941.6	3173.3	1595.1	1818.2	1695.6	1541.7	1603.0	1649.9	1616.0	1687.7	1682.5
70°	9452.1	2454.7	1377.3	1617.3	1579.5	1501.2	1574.3	1563.8	1514.3	1623.8	1603.0
72.5°	7969.2	1865.1	1106.0	1353.8	1403.4	1450.4	1533.8	1454.3	1391.7	1468.6	1423.0
75°	6183.6	1402.1	873.9	1052.6	1185.6	1370.8	1485.6	1327.8	1237.8	1229.9	1205.2
77.5°	3342.9	962.6	692.6	803.4	941.7	1271.7	1453.0	1192.1	1056.5	1025.2	1005.6
80°	1323.8	626.1	503.5	609.1	658.7	1128.2	1374.7	1034.3	871.3	840.0	810.0
82.5°	546.5	370.4	324.8	408.2	429.1	965.2	1233.9	847.8	673.0	931.3	988.6
85°	234.8	203.5	193.0	211.3	242.6	676.9	982.1	646.9	726.5	648.2	515.2
87.5°	70.4	86.1	82.2	80.9	88.7	161.7	523.0	360.0	533.5	202.2	151.3
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)