

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: P318891

Luminaire Tested: **GLEON-SA7C-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39994 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

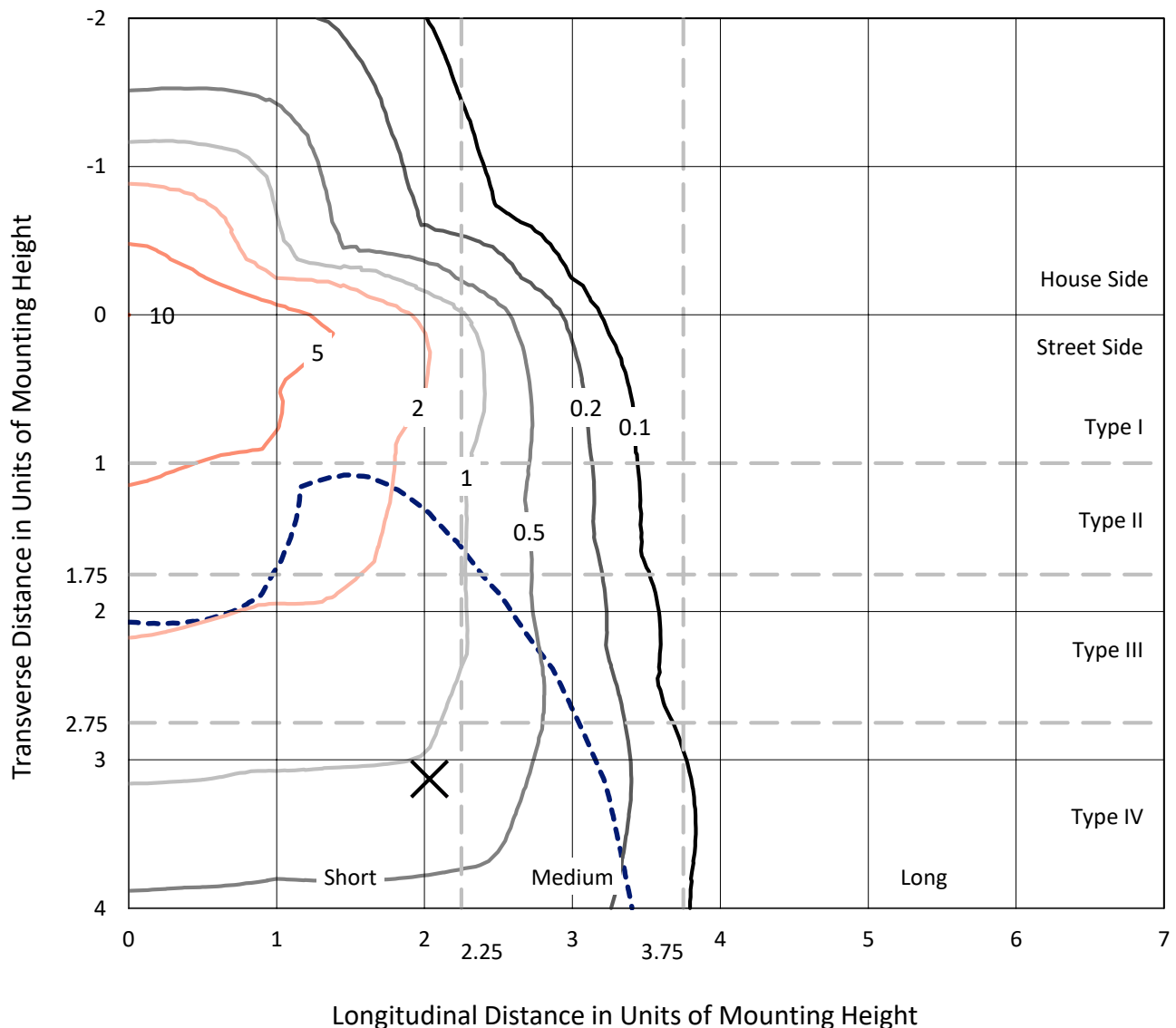
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

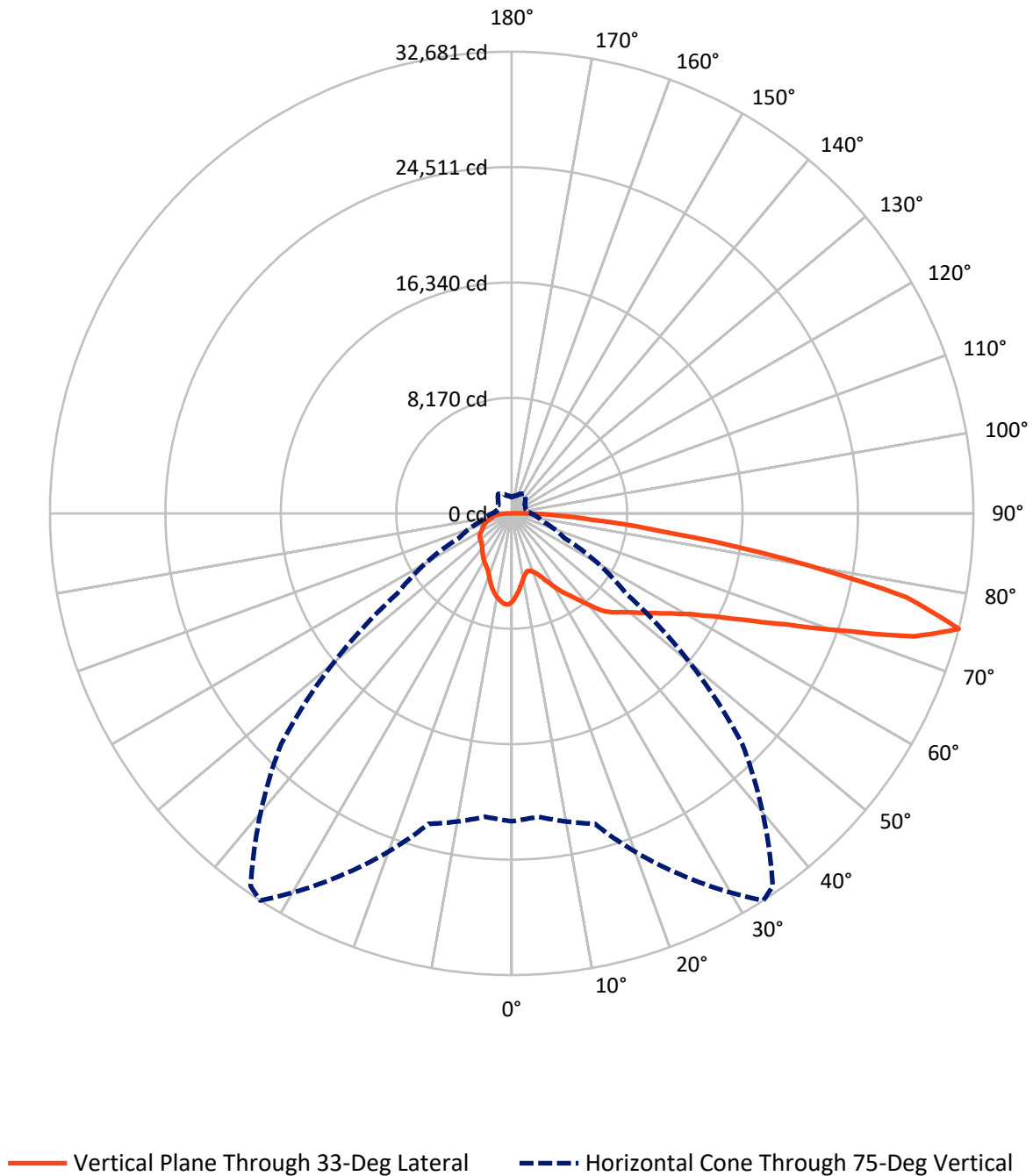
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA7C-830-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8587.8	0.0	8587.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	31406.2	0.0	31406.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	39994.0	0.0	39994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.3	1.4
10°-20°	1531.2	3.8
20°-30°	2500.7	6.3
30°-40°	3724.1	9.3
40°-50°	5341.4	13.4
50°-60°	7332.9	18.3
60°-70°	9180.5	23.0
70°-80°	8305.1	20.8
80°-90°	1512.8	3.8
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°	39994.0	100.0
0°-180°	39994.0	100.0

Coefficient of Utilization



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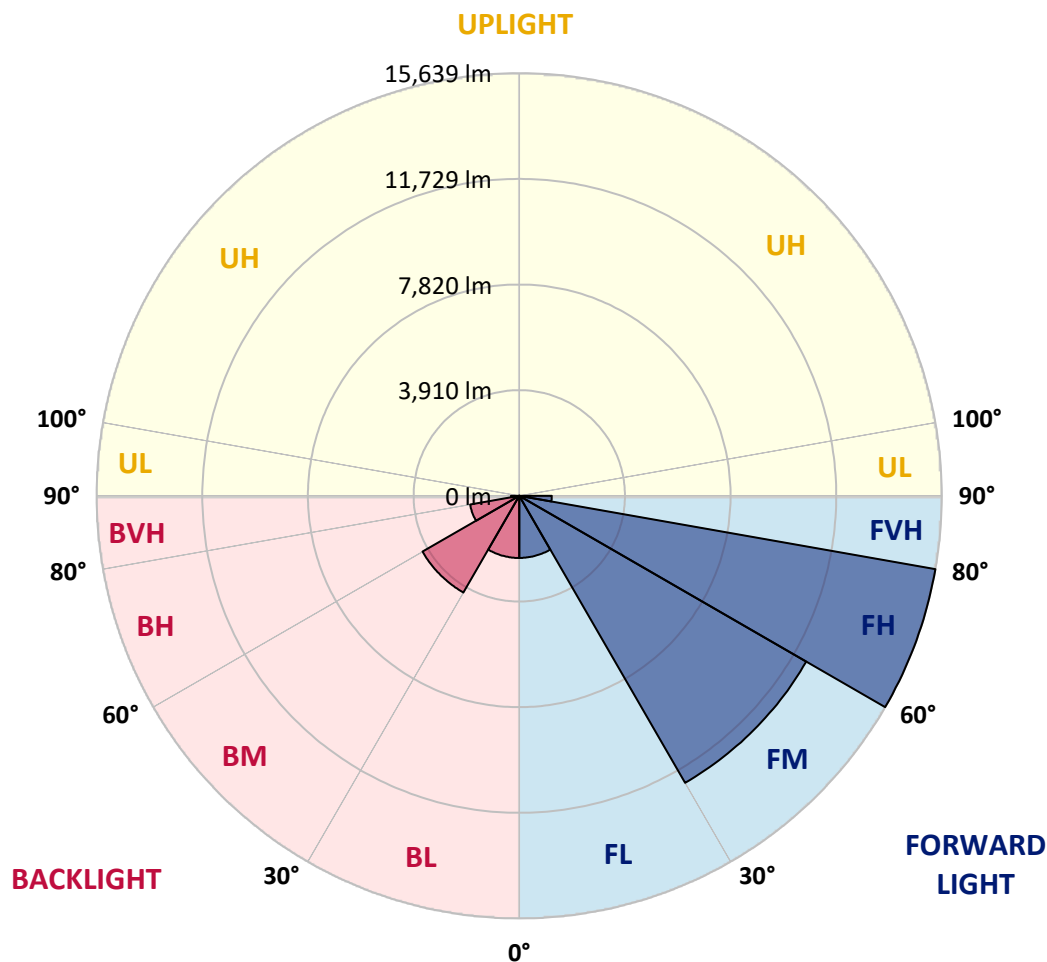
CATALOG NUMBER: GLEON-SA7C-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2297.0	5.7			
FM	(30°-60°)	12265.3	30.7			
FH	(60°-80°)	15639.0	39.1			G5
FVH	(80°-90°)	1204.8	3.0			G5
BL	(0°-30°)	2300.2	5.8	B3/2500		
BM	(30°-60°)	4133.0	10.3	B3/5000		
BH	(60°-80°)	1846.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	308.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3
2.5°	5805.1	5783.0	5824.4	5829.9	5865.8	5879.7	5929.4	6006.8	6070.3	6143.5	6209.8
5°	5278.7	5263.5	5321.5	5363.0	5441.7	5474.9	5592.3	5756.7	5903.1	6068.9	6219.5
7.5°	4778.6	4770.3	4835.2	4929.2	5020.4	5066.0	5269.0	5508.0	5752.6	6020.6	6251.3
10°	4357.3	4354.5	4416.7	4509.2	4643.2	4694.3	4956.8	5271.8	5614.4	5983.3	6305.2
12.5°	4121.0	4130.7	4159.7	4237.1	4361.4	4412.5	4704.0	5074.2	5498.4	5970.8	6383.9
15°	4179.0	4194.2	4144.5	4141.7	4230.2	4270.2	4543.8	4933.3	5415.5	5991.6	6498.6
17.5°	4426.3	4429.1	4297.8	4215.0	4268.8	4289.6	4494.0	4853.2	5367.1	6038.5	6642.3
20°	4774.5	4767.6	4535.5	4397.3	4426.3	4431.9	4564.5	4854.6	5363.0	6120.0	6828.8
22.5°	5235.9	5184.8	4872.5	4684.7	4677.8	4669.5	4745.5	4956.8	5423.8	6252.7	7051.2
25°	5838.2	5789.9	5360.2	5103.3	5048.0	5027.3	5038.3	5175.1	5544.0	6395.0	7299.8
27.5°	6508.2	6424.0	6009.5	5646.2	5531.5	5502.5	5436.2	5483.2	5675.2	6531.7	7595.5
30°	7069.1	7023.5	6661.6	6230.6	6095.2	6053.7	5879.7	5828.5	5864.5	6718.2	7968.5
32.5°	7382.7	7352.3	7132.7	6784.5	6658.8	6600.8	6354.9	6252.7	6168.4	7012.5	8474.1
35°	7762.6	7743.3	7610.7	7357.9	7171.4	7110.6	6919.9	6813.6	6596.7	7417.3	9127.6
37.5°	8246.2	8225.4	8228.2	8023.8	7801.3	7744.7	7619.0	7507.1	7152.0	7949.1	9837.7
40°	8793.2	8753.2	8738.0	8728.3	8587.4	8555.6	8489.3	8337.4	7848.3	8584.6	10538.1
42.5°	9616.6	9474.3	9170.4	9285.1	9424.6	9408.0	9461.9	9243.6	8621.9	9336.2	11221.9
45°	10411.0	10177.5	9652.5	9677.4	9982.7	10075.3	10478.7	10323.9	9460.5	10159.5	11929.3
47.5°	10772.9	10596.1	10149.9	10151.3	10453.8	10645.8	11530.0	11419.5	10341.9	11094.8	12792.7
50°	11177.7	11000.9	10600.2	10750.8	11014.7	11219.2	12545.4	12488.8	11180.5	12118.5	13827.4
52.5°	11619.8	11320.0	11065.8	11335.2	11705.4	11943.1	13562.2	13407.5	11950.0	13149.1	15016.9
55°	11625.3	11543.8	11737.2	11934.8	12488.8	12780.3	14627.3	14218.4	12577.2	14161.8	15985.3
57.5°	12287.1	12154.4	12564.7	12655.9	13379.8	13708.6	15686.9	14924.3	13215.4	14938.2	16507.5
60°	13162.9	13049.6	13385.4	13625.7	14482.3	14921.6	16818.4	15649.6	13716.9	15523.9	16482.7
62.5°	14675.7	14547.2	14543.0	14880.1	16033.7	16544.8	18088.0	16361.1	13915.8	15640.0	15779.5
65°	16890.2	16685.8	16300.3	16460.6	18176.4	18686.2	19506.8	16876.4	13653.4	15018.3	13968.3
67.5°	19045.4	19038.4	18564.6	18893.4	21005.7	21414.6	21123.1	16927.5	12834.1	12853.5	10755.0
70°	21193.6	21221.2	21141.1	22285.0	24828.3	25253.8	22844.5	16240.9	10992.6	9282.3	6443.3
72.5°	22895.6	22888.7	23292.1	26241.6	29789.3	29694.0	24295.1	14160.4	7892.5	5010.7	3079.4
75°	21793.2	21552.8	22754.7	28200.6	32680.8	32215.2	23061.4	9877.7	4096.1	2280.9	1657.8
77.5°	14214.3	14442.2	16206.4	23296.2	28586.0	28019.6	16919.2	4608.7	1930.0	1496.2	1201.9
80°	5147.5	5387.8	7588.6	13196.1	19694.7	19602.1	8331.8	1894.0	1305.5	1130.1	875.9
82.5°	1771.1	1859.5	2993.7	5860.3	11119.7	11534.1	3134.6	1076.2	949.1	801.3	599.6
85°	694.9	795.7	1369.1	2819.6	5608.9	5650.3	1269.6	643.8	660.4	525.0	328.8
87.5°	263.9	320.5	654.8	1309.7	2561.3	2352.7	454.5	306.7	375.8	312.2	156.1
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-SA7C-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3	6251.3
2.5°	6261.0	6290.0	6350.8	6392.2	6436.4	6448.8	6454.4	6465.4	6476.5	6472.3	6473.7
5°	6299.6	6356.3	6454.4	6495.8	6515.2	6493.0	6450.2	6415.7	6390.8	6377.0	6372.9
7.5°	6363.2	6443.3	6548.3	6541.4	6497.2	6399.1	6288.6	6205.7	6136.6	6111.8	6097.9
10°	6447.5	6541.4	6614.6	6535.9	6407.4	6237.5	6071.7	5943.2	5839.6	5799.5	5792.6
12.5°	6555.2	6650.5	6664.4	6497.2	6284.4	6052.4	5827.2	5657.2	5502.5	5452.8	5441.7
15°	6694.7	6784.5	6698.9	6429.5	6132.5	5820.3	5528.8	5298.1	5135.0	5074.2	5052.1
17.5°	6841.2	6926.8	6705.8	6317.6	5933.5	5545.3	5179.2	4943.0	4756.5	4686.0	4677.8
20°	7016.6	7055.3	6676.8	6157.3	5660.0	5188.9	4803.5	4581.1	4481.6	4431.9	4426.3
22.5°	7233.5	7192.1	6610.5	5940.4	5313.2	4777.2	4463.6	4360.0	4335.1	4324.1	4328.2
25°	7462.9	7335.8	6512.4	5657.2	4875.3	4365.5	4215.0	4244.0	4277.1	4273.0	4273.0
27.5°	7715.7	7482.2	6361.8	5281.5	4390.4	4028.5	4046.4	4152.8	4202.5	4201.1	4199.8
30°	8040.3	7648.0	6169.8	4829.7	3937.3	3790.8	3900.0	4029.8	4097.5	4094.8	4096.1
32.5°	8439.6	7830.3	5908.7	4325.5	3609.9	3615.4	3741.1	3869.6	3948.3	3941.4	3942.8
35°	8906.5	8034.8	5555.0	3828.1	3393.0	3475.9	3575.3	3665.1	3739.7	3730.0	3720.4
37.5°	9414.9	8235.1	5085.3	3383.3	3216.1	3346.0	3428.9	3444.1	3478.6	3453.7	3435.8
40°	9898.4	8388.5	4480.2	3018.6	3037.9	3235.5	3289.4	3228.6	3166.4	3158.1	3133.2
42.5°	10319.8	8439.6	3868.2	2727.1	2850.0	3119.4	3152.6	3025.5	2913.6	2861.1	2839.0
45°	10764.6	8457.5	3297.6	2482.6	2669.1	3015.8	3051.7	2881.8	2724.3	2611.0	2573.7
47.5°	11346.3	8587.4	2854.2	2301.6	2530.9	2946.7	2997.9	2767.1	2562.7	2401.0	2366.5
50°	12107.5	8844.4	2493.6	2163.4	2441.1	2901.1	2959.2	2655.2	2430.1	2235.3	2200.7
52.5°	12952.9	9080.6	2202.1	2051.5	2354.1	2821.0	2909.4	2575.1	2305.7	2081.9	2044.6
55°	13544.2	8899.6	1967.3	1935.5	2240.8	2706.4	2840.4	2507.4	2127.5	1932.7	1899.6
57.5°	13657.5	8280.7	1789.0	1815.3	2104.0	2562.7	2734.0	2356.8	2030.8	1867.8	1833.3
60°	13348.1	7418.7	1656.4	1704.8	1957.6	2381.7	2535.1	2250.5	1938.2	1798.7	1769.7
62.5°	12570.3	6535.9	1558.3	1605.3	1820.8	2198.0	2410.7	2138.6	1844.3	1720.0	1691.0
65°	10999.5	5487.3	1464.4	1516.9	1693.7	2039.1	2298.8	2034.9	1751.7	1656.4	1628.8
67.5°	8302.8	4110.0	1376.0	1422.9	1580.4	1900.9	2177.2	1932.7	1661.9	1601.2	1568.0
70°	4889.1	2573.7	1275.1	1324.9	1461.6	1757.3	2047.4	1820.8	1550.0	1522.4	1479.6
72.5°	2275.3	1548.7	1160.5	1208.8	1312.4	1565.2	1880.2	1674.4	1417.4	1356.6	1298.6
75°	1358.0	1132.8	1025.1	1067.9	1141.1	1360.8	1670.2	1525.2	1291.7	1211.6	1150.8
77.5°	1015.4	866.2	875.9	921.5	980.9	1190.9	1479.6	1407.7	1195.0	1132.8	1091.4
80°	730.8	657.6	714.2	764.0	826.1	1083.1	1417.4	1301.4	1080.3	997.4	958.8
82.5°	487.7	472.5	537.4	588.5	649.3	947.7	1331.8	1139.7	922.8	817.8	732.2
85°	269.4	284.6	362.0	384.1	436.6	667.3	1091.4	915.9	694.9	559.5	534.6
87.5°	111.9	131.2	194.8	187.9	232.1	397.9	718.4	552.6	442.1	330.2	257.0
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)