

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: P319862

Luminaire Tested: **GLEON-SA8D-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49418 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

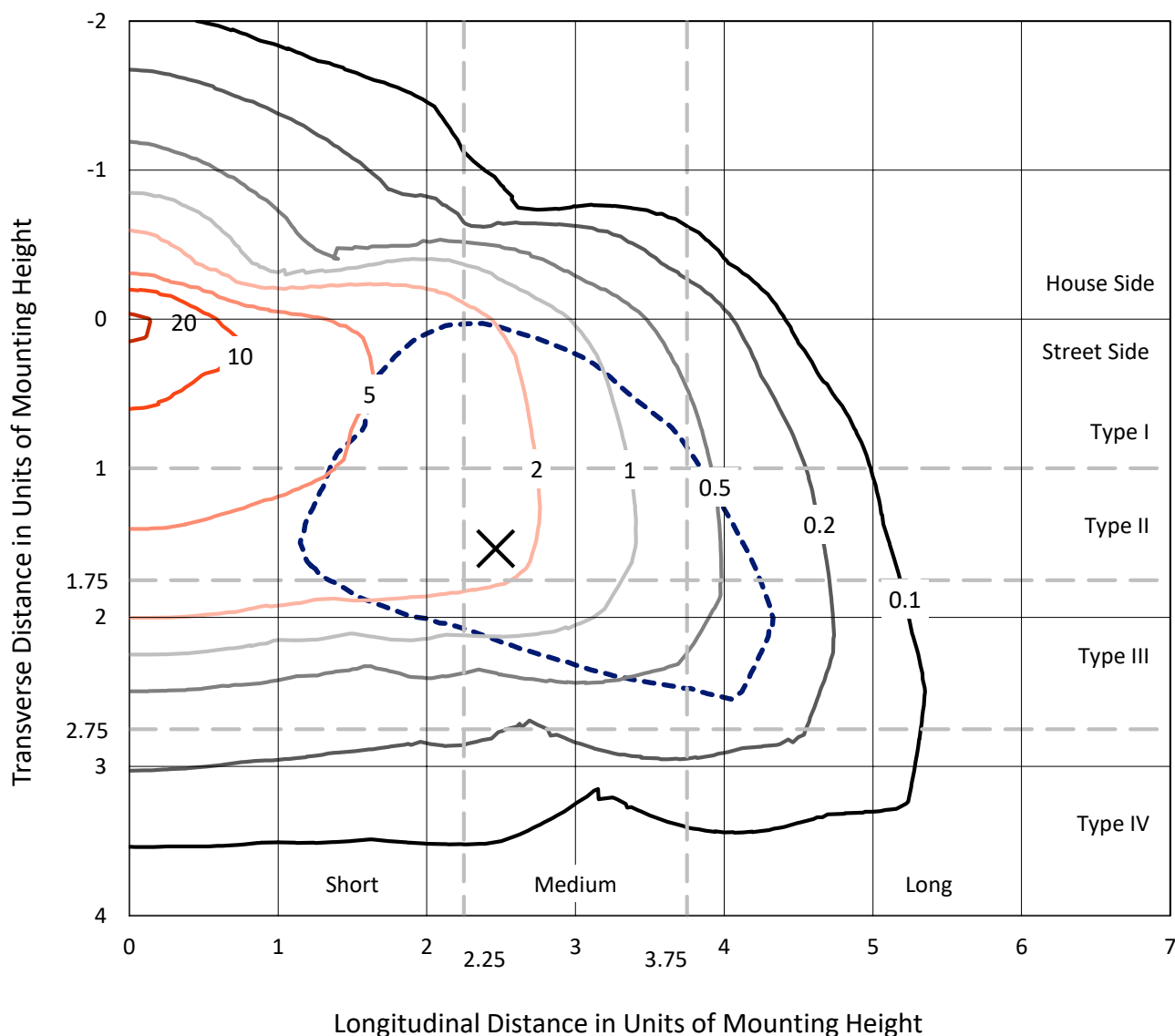
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA8D-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

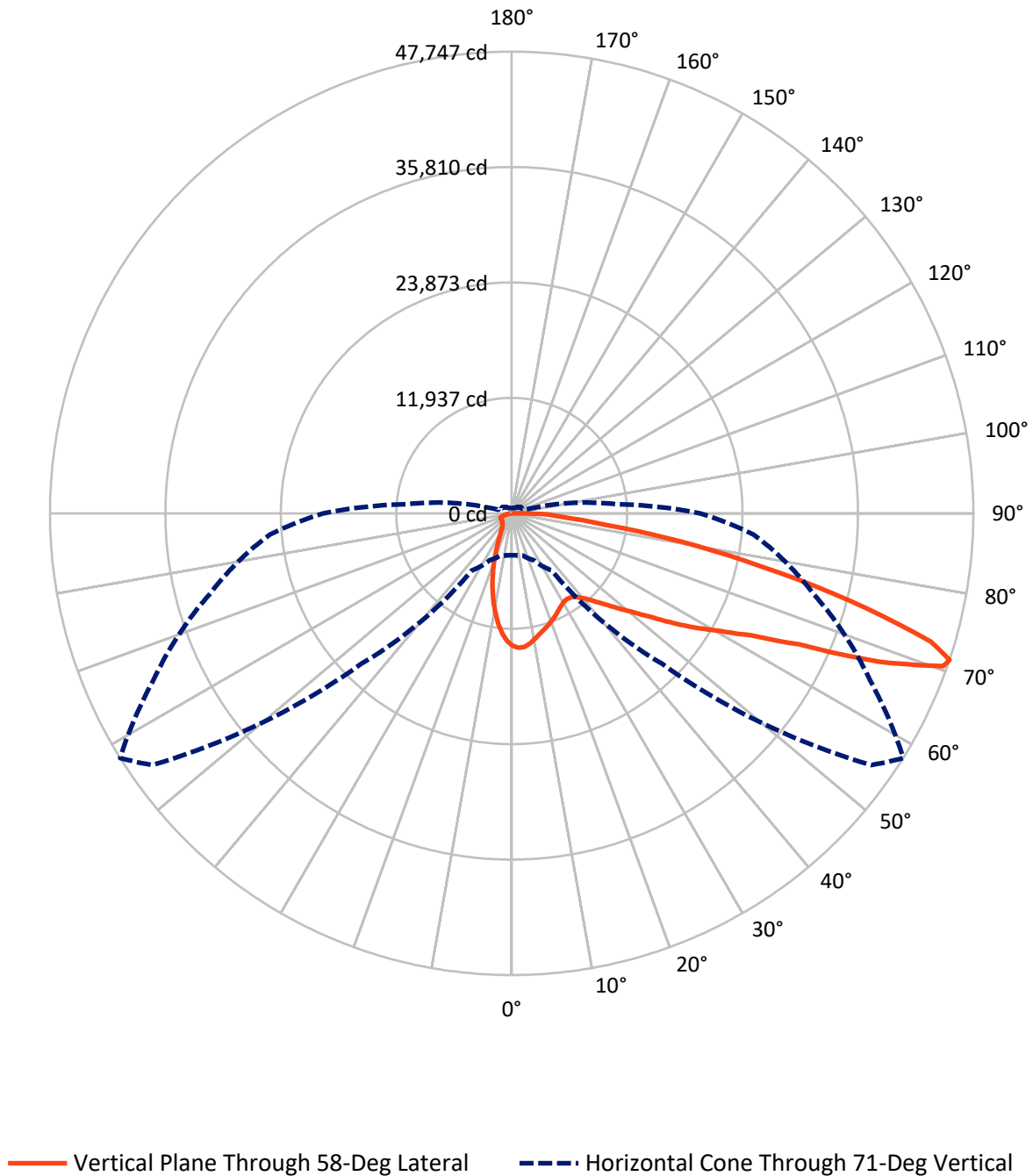
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA8D-830-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7388.3	0.0	7388.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	42029.7	0.0	42029.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	49418.0	0.0	49418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1181.2	2.4
10°-20°	2626.6	5.3
20°-30°	3338.1	6.8
30°-40°	4252.1	8.6
40°-50°	6029.7	12.2
50°-60°	9331.1	18.9
60°-70°	12703.1	25.7
70°-80°	8474.5	17.1
80°-90°	1481.6	3.0
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°	49418.0	100.0
0°-180°	49418.0	100.0

Coefficient of Utilization



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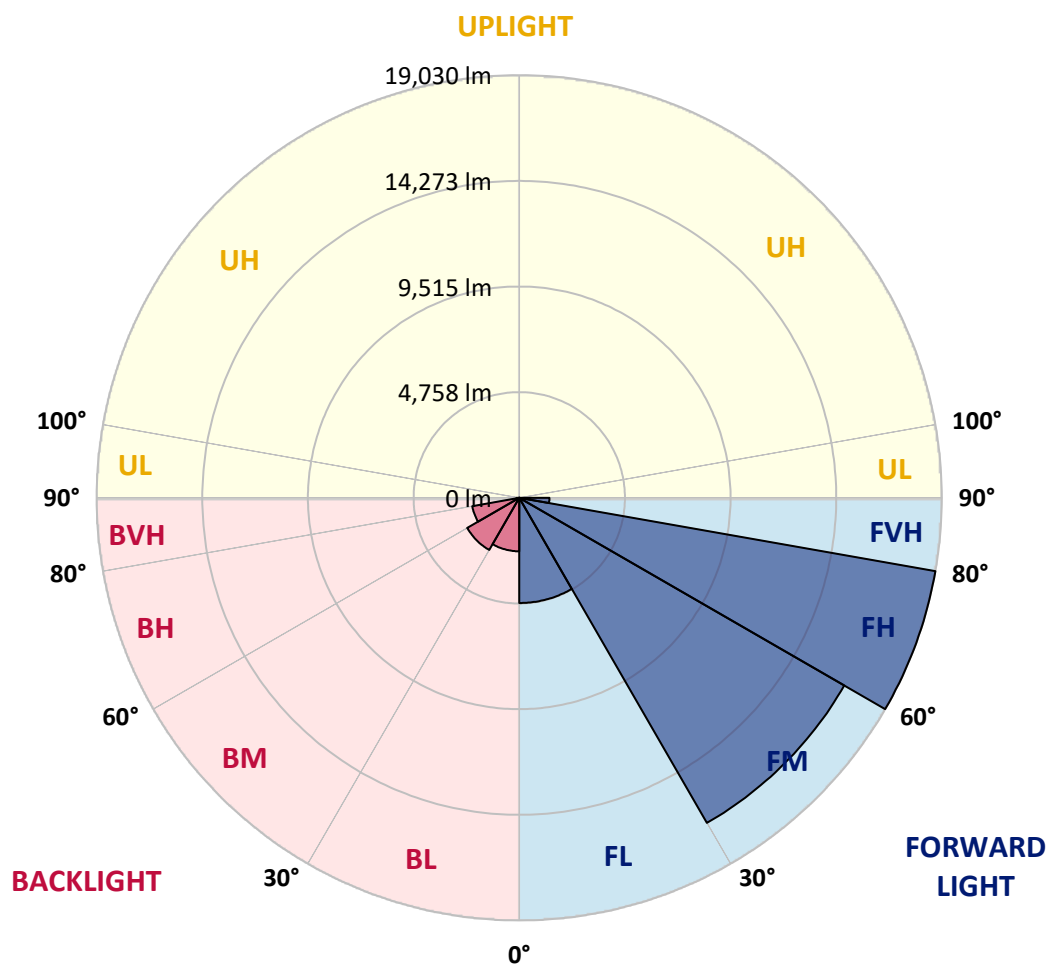
CATALOG NUMBER: GLEON-SA8D-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4737.5	9.6			
FM	(30°-60°)	16903.3	34.2			
FH	(60°-80°)	19030.3	38.5			G5
FVH	(80°-90°)	1358.5	2.7			G5
BL	(0°-30°)	2408.4	4.9	B3/2500		
BM	(30°-60°)	2709.5	5.5	B3/5000		
BH	(60°-80°)	2147.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	123.1	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1
2.5°	14055.3	14036.4	14043.3	14029.5	13996.8	13964.1	13915.9	13924.5	13857.3	13757.5	13633.6
5°	13790.2	13783.3	13835.0	13864.2	13888.3	13869.4	13855.6	13872.8	13774.7	13637.0	13421.8
7.5°	13234.2	13158.5	13223.9	13322.0	13414.9	13485.5	13578.5	13590.5	13528.6	13384.0	13101.6
10°	12444.1	12371.8	12468.2	12621.4	12807.3	12976.0	13163.6	13198.0	13210.1	13079.3	12736.7
12.5°	11624.7	11569.6	11666.0	11881.2	12189.3	12449.2	12748.8	12800.4	12907.1	12819.3	12399.3
15°	10891.4	10870.7	10987.8	11199.5	11554.1	11951.7	12383.8	12478.5	12659.2	12630.0	12135.9
17.5°	10257.9	10252.7	10342.2	10564.3	10956.8	11459.4	12020.6	12180.7	12449.2	12483.7	11919.0
20°	9786.2	9775.9	9837.9	10001.4	10405.9	10975.7	11628.1	11848.5	12235.8	12356.3	11695.3
22.5°	9533.2	9531.4	9533.2	9610.6	9941.1	10471.3	11246.0	11514.5	12027.5	12254.7	11447.4
25°	9490.1	9485.0	9447.1	9438.5	9626.1	10049.6	10867.3	11163.3	11829.5	12184.1	11211.5
27.5°	9602.0	9608.9	9559.0	9478.1	9516.0	9772.4	10538.5	10855.2	11671.2	12170.4	11048.0
30°	9834.4	9831.0	9787.9	9703.6	9629.6	9669.2	10304.4	10621.1	11564.4	12230.6	10936.1
32.5°	10090.9	10109.8	10101.2	10054.8	9944.6	9786.2	10233.8	10543.6	11533.4	12375.2	10887.9
35°	10399.0	10419.7	10481.7	10517.8	10388.7	10133.9	10385.3	10653.8	11623.0	12647.2	10965.4
37.5°	10691.7	10745.0	10918.9	11072.1	10961.9	10677.9	10788.1	10979.1	11900.1	13075.8	11173.7
40°	11029.1	11075.5	11359.6	11684.9	11667.7	11373.4	11437.0	11564.4	12389.0	13690.4	11550.7
42.5°	11361.3	11454.3	11865.7	12327.0	12459.6	12199.6	12301.2	12368.3	13077.5	14504.6	12208.2
45°	11803.7	11903.5	12475.1	13031.1	13340.9	13194.6	13356.4	13382.2	13943.4	15613.2	13163.6
47.5°	12473.3	12586.9	13253.1	13836.7	14310.1	14325.6	14592.4	14582.1	15024.5	16881.9	14366.9
50°	13516.5	13680.0	14225.7	14771.4	15346.4	15666.5	16022.9	15973.0	16320.7	18233.2	15752.6
52.5°	14883.3	14959.0	15363.6	15766.4	16480.8	17198.6	17709.9	17665.1	17790.8	19622.3	17326.0
55°	16300.0	16356.8	16523.8	16744.1	17704.7	18875.3	19956.3	19885.7	19567.3	21064.9	18880.4
57.5°	17573.9	17689.2	17804.5	17895.8	18937.2	20627.6	22254.4	22259.5	21495.2	22621.0	20486.5
60°	17771.8	17873.4	18636.0	19355.5	21046.0	22965.3	24714.3	24662.6	23490.4	24309.7	22276.8
62.5°	15709.6	15938.5	17212.4	19126.6	23077.2	27241.3	27852.4	27788.7	25876.2	26390.9	24361.4
65°	11258.0	11517.9	13055.2	15931.6	22092.6	31952.8	33515.8	32658.6	29129.7	28950.7	26802.3
67.5°	6494.9	6556.8	7223.0	9533.2	16821.6	32199.0	42155.6	40955.8	34182.0	31854.7	27997.0
70°	4802.7	4801.0	4959.4	5866.6	9102.8	26279.0	46264.6	47340.5	39501.2	32810.1	26308.3
71°	4343.1	4348.3	4525.6	5339.8	7209.3	21996.2	45391.8	47746.7	40902.4	32338.4	25086.1
72.5°	3714.8	3732.0	3978.2	4789.0	6064.5	15169.1	41632.3	45309.2	41566.9	31174.7	23173.6
75°	2817.9	2857.5	3198.4	4036.7	5542.9	7693.0	30555.0	36180.6	36926.0	27508.1	17219.3
77.5°	2010.6	2055.4	2441.0	3394.6	5269.2	5797.7	20462.4	26390.9	27174.2	17629.0	7767.0
80°	1270.4	1323.8	1614.7	2700.9	4950.8	5505.1	12858.9	17739.1	14817.9	5641.1	1976.2
82.5°	745.4	786.7	1001.9	1764.4	4043.6	5301.9	7565.6	9832.7	5766.7	1704.2	898.6
85°	432.1	451.0	624.9	1124.1	2936.7	5004.1	5558.4	5496.5	2502.9	833.2	425.2
87.5°	201.4	223.8	370.1	587.0	1630.2	3627.0	4393.0	3795.7	1556.2	390.8	199.7
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-SA8D-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1	13692.1
2.5°	13573.3	13544.0	13421.8	13313.4	13199.8	13051.7	12888.2	12867.5	12767.7	12786.6	12752.2
5°	13304.8	13230.8	12936.4	12669.6	12354.6	12072.2	11765.8	11624.7	11421.6	11407.8	11356.1
7.5°	12920.9	12783.2	12327.0	11820.9	11314.8	10832.8	10356.0	10042.7	9722.5	9586.5	9574.5
10°	12488.8	12254.7	11583.4	10834.6	10104.7	9400.6	8718.9	8214.6	7760.1	7544.9	7536.3
12.5°	12079.1	11733.1	10812.2	9793.1	8794.7	7882.3	6947.6	6284.9	5715.1	5524.0	5443.1
15°	11731.4	11244.2	10061.6	8758.5	7546.7	6279.7	5215.9	4518.7	3991.9	3809.5	3775.1
17.5°	11394.0	10767.4	9292.2	7713.6	6248.7	4856.1	3790.5	3272.4	2991.8	2917.8	2916.1
20°	11058.3	10276.8	8488.3	6644.6	4993.8	3632.2	2914.3	2682.0	2587.3	2578.7	2564.9
22.5°	10677.9	9756.9	7643.1	5572.2	3897.3	2855.8	2477.1	2384.2	2372.1	2403.1	2403.1
25°	10321.6	9240.5	6785.8	4522.1	3031.4	2382.4	2212.0	2193.1	2225.8	2280.9	2286.0
27.5°	9989.3	8743.0	5949.2	3589.1	2428.9	2098.4	2027.8	2050.2	2108.7	2172.4	2174.1
30°	9715.6	8273.1	5136.7	2828.3	2051.9	1886.7	1874.6	1919.4	1983.1	2033.0	2045.0
32.5°	9503.9	7872.0	4351.7	2274.0	1805.8	1728.3	1738.6	1776.5	1816.1	1843.6	1862.6
35°	9405.8	7527.7	3627.0	1917.6	1649.1	1606.1	1619.8	1640.5	1657.7	1678.4	1693.9
37.5°	9423.0	7260.9	2979.8	1695.6	1544.1	1521.7	1521.7	1521.7	1521.7	1532.1	1533.8
40°	9583.1	7107.7	2453.0	1554.4	1473.5	1449.4	1430.5	1413.3	1399.5	1406.4	1402.9
42.5°	9992.8	7093.9	2067.4	1464.9	1416.7	1377.1	1339.3	1315.2	1297.9	1304.8	1308.3
45°	10688.2	7266.1	1807.5	1401.2	1363.4	1303.1	1254.9	1229.1	1217.0	1239.4	1242.9
47.5°	11588.5	7641.3	1649.1	1354.7	1313.4	1234.3	1182.6	1158.5	1162.0	1194.7	1203.3
50°	12748.8	8250.7	1573.4	1325.5	1279.0	1175.7	1122.4	1101.7	1112.0	1158.5	1168.8
52.5°	14022.6	9128.6	1582.0	1316.9	1256.6	1132.7	1075.9	1051.8	1069.0	1112.0	1120.6
55°	15492.7	10183.9	1724.9	1328.9	1223.9	1105.1	1038.0	996.7	1010.5	1050.1	1056.9
57.5°	17126.3	11392.3	2012.3	1325.5	1182.6	1079.3	998.4	936.4	946.8	970.9	977.8
60°	18827.1	12852.0	2458.2	1335.8	1163.7	1048.3	945.1	867.6	864.1	884.8	888.2
62.5°	20868.6	14540.7	2967.7	1342.7	1175.7	1008.7	874.5	798.7	788.4	793.6	797.0
65°	22972.2	15762.9	2776.6	1315.2	1213.6	976.0	812.5	731.6	712.7	709.2	710.9
67.5°	23037.6	14453.0	1946.9	1260.1	1229.1	958.8	766.0	674.8	643.8	631.8	630.0
70°	20660.4	11741.7	1516.6	1201.5	1167.1	931.3	723.0	628.3	581.8	562.9	561.2
71°	19500.1	10808.7	1437.4	1172.3	1120.6	903.7	704.1	607.7	559.5	538.8	535.4
72.5°	17680.6	9689.8	1341.0	1125.8	1031.1	833.2	667.9	578.4	528.5	504.4	499.2
75°	12688.5	6336.5	1151.6	1003.6	853.8	664.5	585.3	519.9	476.8	447.6	444.1
77.5°	4888.8	2521.9	871.0	834.9	654.1	519.9	482.0	449.3	418.3	389.0	387.3
80°	1511.4	1127.5	635.2	628.3	473.4	387.3	375.3	366.7	354.6	323.6	316.7
82.5°	807.3	647.2	437.2	406.3	309.9	258.2	272.0	275.4	277.1	244.4	241.0
85°	385.6	342.6	246.2	230.7	180.7	144.6	167.0	180.7	182.5	149.8	139.4
87.5°	184.2	179.0	115.3	87.8	67.1	48.2	58.5	72.3	79.2	56.8	49.9
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 $\text{W}^\wedge/\text{nm}$	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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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)