

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P319213

Luminaire Tested: **GLEON-SA9C-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49897 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

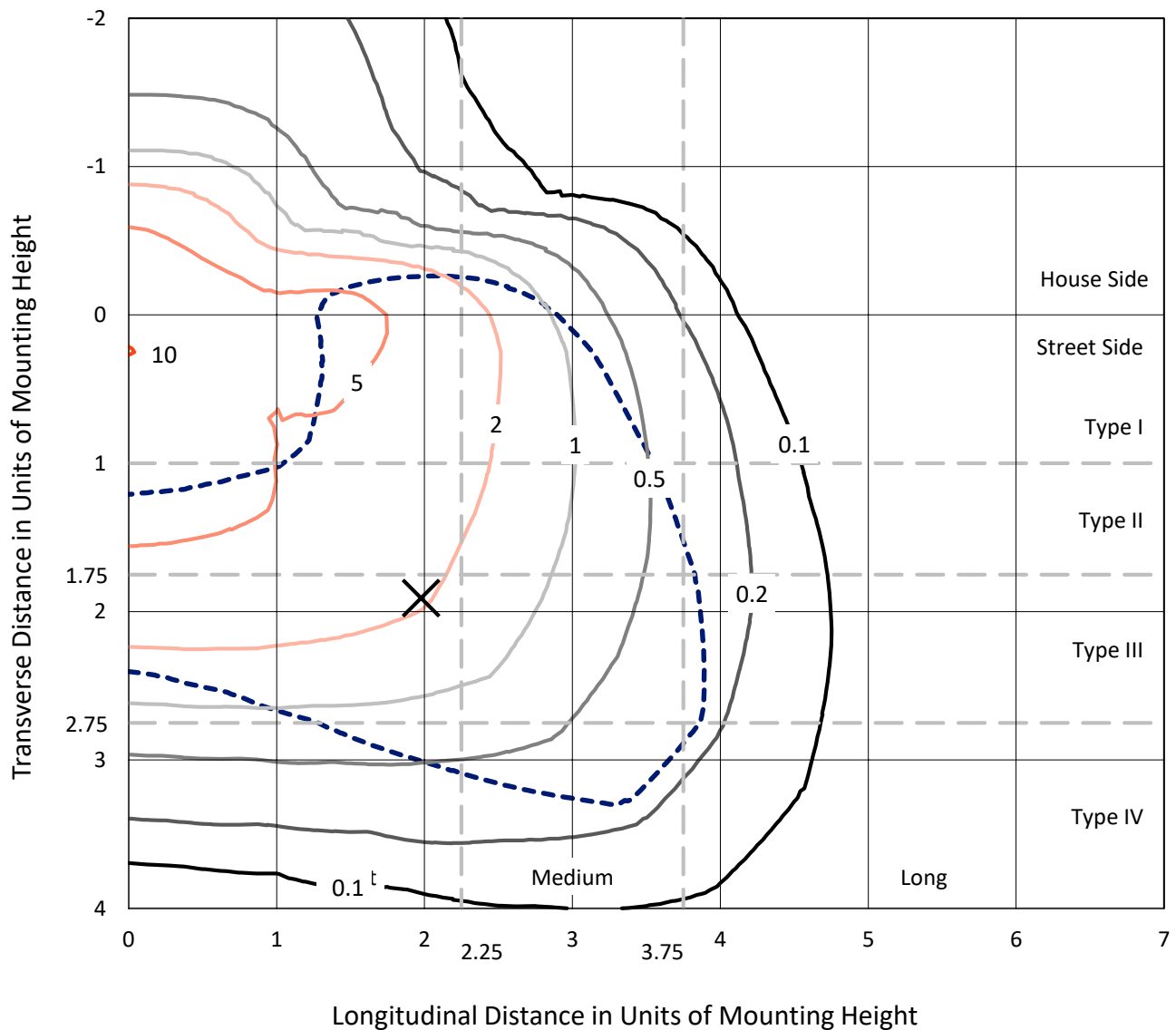
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA9C-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

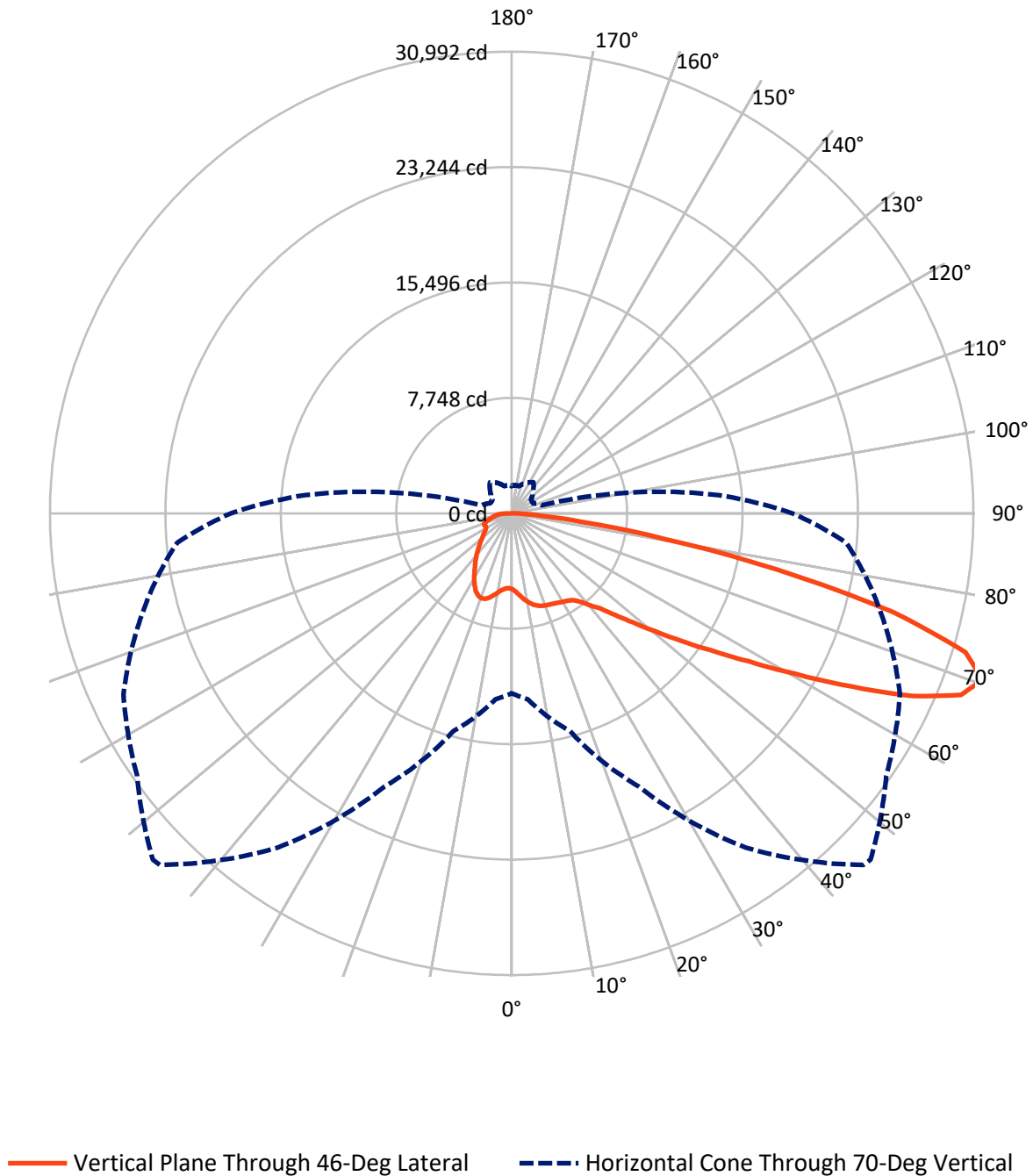
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA9C-830-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11436.2	0.0	11436.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	38460.8	0.0	38460.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	49897.0	0.0	49897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.2	1.0
10°-20°	1726.6	3.5
20°-30°	2878.9	5.8
30°-40°	4085.3	8.2
40°-50°	6009.3	12.0
50°-60°	10176.7	20.4
60°-70°	14445.6	29.0
70°-80°	8775.8	17.6
80°-90°	1280.7	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°	49897.0	100.0
0°-180°	49897.0	100.0

Coefficient of Utilization



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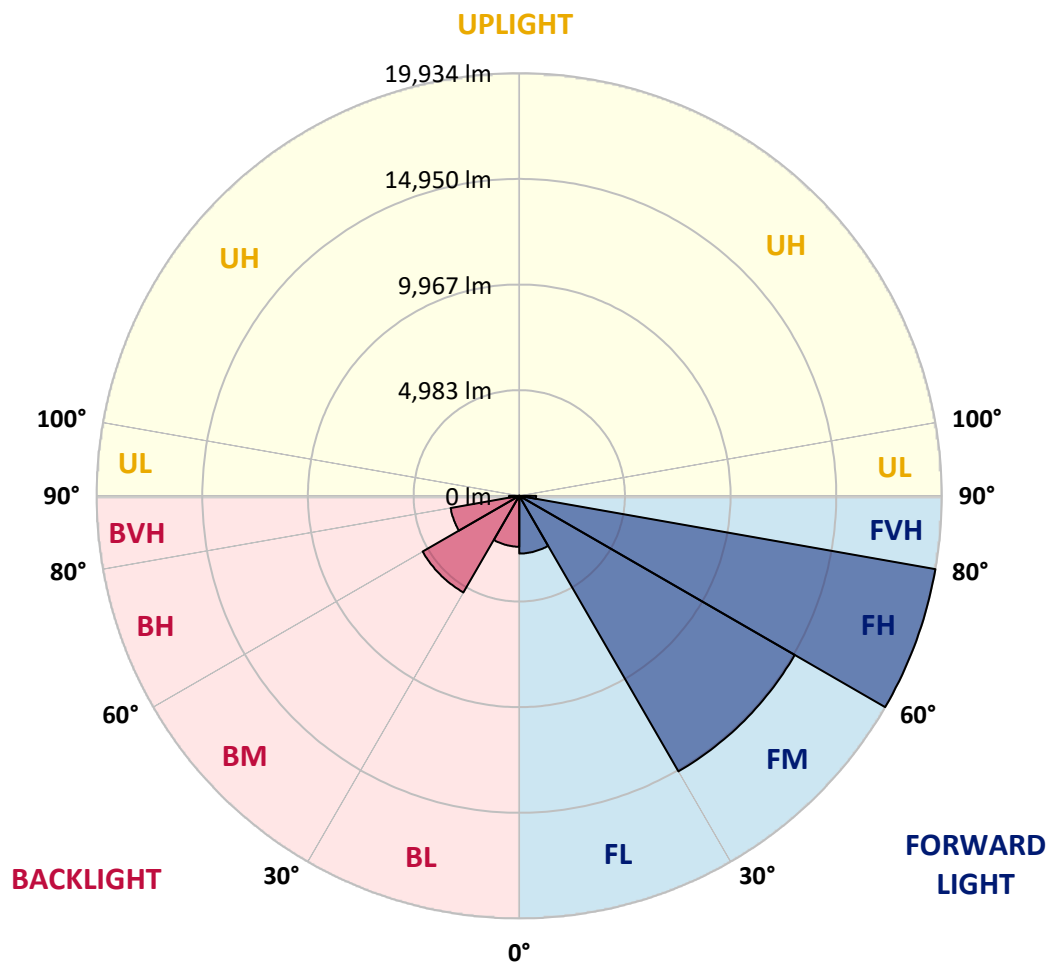
CATALOG NUMBER: GLEON-SA9C-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2722.6	5.5			
FM	(30°-60°)	15006.8	30.1			
FH	(60°-80°)	19933.6	39.9			G5
FVH	(80°-90°)	797.8	1.6			G5
BL	(0°-30°)	2401.1	4.8	B3/2500		
BM	(30°-60°)	5264.4	10.6	B4/8500		
BH	(60°-80°)	3287.8	6.6	B4/5000		G4/5000
BVH	(80°-90°)	482.9	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5
2.5°	5338.0	5341.4	5348.2	5331.1	5283.3	5269.7	5264.5	5215.0	5182.6	5134.8	5093.8
5°	5764.9	5768.3	5758.0	5710.2	5604.3	5525.8	5519.0	5406.3	5303.8	5194.5	5112.6
7.5°	6210.5	6215.7	6183.2	6092.7	5944.2	5807.6	5799.0	5645.3	5489.9	5324.3	5201.4
10°	6605.0	6584.5	6531.6	6405.2	6229.3	6062.0	6055.2	5894.6	5715.3	5515.6	5351.6
12.5°	6868.0	6850.9	6782.6	6628.9	6435.9	6282.3	6268.6	6120.0	5945.9	5727.3	5530.9
15°	7013.1	7025.1	6932.9	6758.7	6570.8	6441.1	6429.1	6323.2	6167.9	5947.6	5722.2
17.5°	7031.9	7042.1	6953.4	6780.9	6627.2	6538.4	6533.3	6463.3	6350.6	6138.8	5903.2
20°	6922.6	6929.4	6856.0	6714.3	6613.5	6586.2	6584.5	6553.8	6470.1	6282.3	6053.4
22.5°	6763.8	6768.9	6716.0	6613.5	6579.4	6622.1	6634.0	6622.1	6562.3	6386.4	6171.3
25°	6724.5	6721.1	6666.5	6562.3	6591.3	6681.8	6697.2	6702.3	6661.4	6507.7	6321.5
27.5°	6914.1	6902.1	6798.0	6630.6	6649.4	6758.7	6779.2	6828.7	6803.1	6668.2	6492.3
30°	7462.2	7441.7	7228.3	6890.2	6798.0	6854.3	6879.9	6958.5	6963.6	6850.9	6719.4
32.5°	8387.7	8362.1	7979.6	7375.1	7049.0	6951.6	6975.5	7093.4	7156.6	7069.5	6927.7
35°	9557.4	9528.4	9026.4	8199.9	7469.0	7137.8	7154.8	7248.8	7375.1	7252.2	7064.3
37.5°	10776.7	10706.7	10223.4	9169.8	8136.7	7535.6	7535.6	7547.6	7607.4	7351.2	7224.9
40°	11989.1	11919.1	11481.9	10310.5	9000.8	8162.3	8123.1	7858.4	7810.6	7590.3	7547.6
42.5°	13116.1	13095.6	12837.7	11599.7	10015.1	8778.8	8724.1	8275.0	8285.3	8148.7	8150.4
45°	14314.8	14314.8	14104.8	12900.9	11196.7	9769.2	9714.5	9053.7	9156.2	9093.0	9245.0
47.5°	15293.3	15324.0	15295.0	14256.8	12571.4	11027.7	10928.6	10132.9	10419.8	10636.6	11078.9
50°	16292.2	16340.0	16345.2	15744.1	14232.9	12523.5	12410.8	11565.6	12205.9	12827.5	13696.7
52.5°	17742.0	17849.6	17420.9	17228.0	16268.3	14299.4	14188.5	13408.1	14477.0	15349.6	16847.2
55°	19085.9	18991.9	18686.3	18805.8	18447.2	16321.2	16237.6	15552.8	17007.7	18141.6	20086.5
57.5°	19813.3	19806.5	20113.8	20626.1	20796.9	18814.3	18744.3	18078.4	19861.1	20713.2	23127.7
60°	20667.1	20679.0	21440.6	22603.5	23307.0	21918.8	21888.0	21382.6	22632.5	23114.1	25513.3
62.5°	20786.6	21001.8	22313.2	24314.5	25656.7	25545.7	25614.0	24358.9	25112.0	25030.0	27294.3
65°	19412.0	19695.5	22069.0	24831.9	27992.7	29512.5	29575.6	27352.4	27067.2	26667.6	27931.2
67.5°	16594.5	17014.5	19593.0	23706.6	28762.8	32444.4	32533.2	29673.0	28689.4	27222.6	26397.8
70°	12076.2	12542.3	15137.9	20247.0	27389.9	33381.9	33482.6	30699.2	28750.9	25643.0	22535.2
72.5°	7294.9	7660.3	9799.9	14905.6	23117.5	31674.3	31853.6	29398.1	26249.2	21720.7	16640.6
75°	3203.5	3442.5	4738.6	8589.2	16550.1	26206.5	26430.2	25163.2	21327.9	15785.1	9835.8
77.5°	1364.4	1432.7	1943.2	3731.1	9355.9	17907.6	18215.0	18385.7	14470.2	8589.2	4156.3
80°	850.4	877.7	1099.7	1688.8	4378.3	10057.8	10389.0	10817.7	7185.6	3157.4	1451.5
82.5°	517.4	548.1	730.9	1021.1	2279.6	4559.3	4718.1	5020.3	2788.5	1364.4	751.3
85°	310.8	333.0	447.4	645.5	1297.8	1793.0	1791.3	1980.8	1313.1	877.7	396.2
87.5°	148.6	165.6	239.1	334.7	654.0	672.8	630.1	713.8	797.4	575.5	199.8
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-SA9C-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5	5083.5
2.5°	5080.1	5073.3	5051.1	5034.0	5030.6	5020.3	5011.8	5016.9	5023.8	5025.5	5025.5
5°	5078.4	5059.6	5030.6	5018.6	5034.0	5054.5	5080.1	5114.3	5134.8	5150.1	5160.4
7.5°	5160.4	5124.5	5092.1	5085.2	5116.0	5170.6	5228.7	5300.4	5349.9	5384.1	5390.9
10°	5297.0	5252.6	5220.1	5227.0	5281.6	5360.2	5442.1	5534.3	5609.5	5655.6	5659.0
12.5°	5454.1	5411.4	5380.7	5409.7	5500.2	5595.8	5681.2	5761.4	5829.7	5875.9	5875.9
15°	5635.1	5604.3	5568.5	5635.1	5758.0	5843.4	5879.3	5918.5	5956.1	5990.3	5983.4
17.5°	5809.3	5780.2	5761.4	5840.0	5968.1	6007.3	5983.4	5954.4	5954.4	5973.2	5976.6
20°	5959.5	5933.9	5945.9	6022.7	6089.3	6048.3	5959.5	5867.3	5829.7	5840.0	5850.2
22.5°	6091.0	6079.1	6114.9	6150.8	6103.0	5959.5	5795.6	5670.9	5624.8	5621.4	5624.8
25°	6244.7	6243.0	6287.4	6222.5	6010.8	5746.1	5525.8	5404.6	5378.9	5399.4	5433.6
27.5°	6435.9	6454.7	6476.9	6239.6	5822.9	5423.3	5199.6	5116.0	5141.6	5191.1	5223.6
30°	6680.1	6731.4	6683.5	6196.9	5553.1	5054.5	4841.0	4817.1	4887.2	4957.2	4991.3
32.5°	6917.5	6997.7	6881.6	6085.9	5204.8	4663.5	4497.8	4491.0	4576.4	4644.7	4692.5
35°	7108.7	7267.5	7030.2	5865.6	4801.8	4303.2	4181.9	4135.8	4166.5	4246.8	4301.4
37.5°	7358.1	7622.7	7132.6	5529.2	4364.6	4006.0	3864.3	3758.4	3731.1	3763.6	3790.9
40°	7814.0	8164.0	7180.5	5059.6	3937.7	3708.9	3565.5	3410.1	3302.5	3224.0	3225.7
42.5°	8558.5	8869.3	7149.7	4489.3	3543.3	3418.6	3256.4	3077.1	2902.9	2725.3	2711.7
45°	9767.5	9917.7	7057.5	3884.8	3196.6	3114.7	2962.7	2783.4	2551.2	2349.7	2330.9
47.5°	11702.2	11369.2	6914.1	3357.1	2891.0	2856.8	2716.8	2510.2	2264.3	2102.1	2088.4
50°	14340.4	13464.4	6844.1	2937.1	2621.2	2631.4	2517.0	2298.4	2066.2	1946.7	1933.0
52.5°	17496.1	15904.6	6979.0	2612.6	2404.3	2440.2	2354.8	2149.9	1955.2	1861.3	1847.6
55°	20769.5	18431.8	7124.1	2377.0	2199.4	2269.4	2240.4	2071.3	1895.4	1808.3	1796.4
57.5°	23571.7	20318.7	6833.8	2185.7	2016.7	2126.0	2151.6	2021.8	1864.7	1786.2	1772.5
60°	25335.7	21078.6	6072.2	2006.4	1871.5	2011.6	2100.3	2008.1	1876.7	1869.8	1859.6
62.5°	26172.4	21012.0	4929.8	1864.7	1781.0	1962.0	2137.9	2085.0	2013.3	2074.7	2079.9
65°	25796.7	20008.0	3671.3	1770.8	1716.1	1980.8	2250.6	2230.1	2052.5	2114.0	2122.5
67.5°	23324.1	17612.2	2718.5	1688.8	1644.4	2033.8	2455.5	2277.9	1975.7	2020.1	1992.8
70°	18851.9	13963.1	2096.9	1596.6	1571.0	2026.9	2547.7	2248.9	1892.0	1902.3	1828.8
72.5°	13000.0	9521.6	1705.9	1511.2	1465.1	1847.6	2482.9	2177.2	1822.0	1743.5	1646.1
75°	7069.5	5110.8	1449.8	1422.4	1279.0	1622.2	2363.3	2126.0	1758.8	1654.7	1600.0
77.5°	2781.7	2120.8	1258.5	1301.2	1118.5	1432.7	2230.1	2028.6	1671.7	1535.1	1507.8
80°	1135.6	1082.6	1043.3	1125.3	961.4	1253.4	2069.6	1914.2	1567.6	1424.1	1369.5
82.5°	643.8	672.8	811.1	888.0	780.4	1154.3	1992.8	1822.0	1442.9	1275.6	1210.7
85°	329.6	394.5	565.2	636.9	573.8	981.9	1835.7	1594.9	1157.8	976.7	981.9
87.5°	158.8	220.3	356.9	399.6	372.3	710.4	1371.2	1156.0	901.6	713.8	691.6
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
 Rf: 81.5
 Rg: 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

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



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)