

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: P323058

Luminaire Tested: **GLEON-SA4D-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18026 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

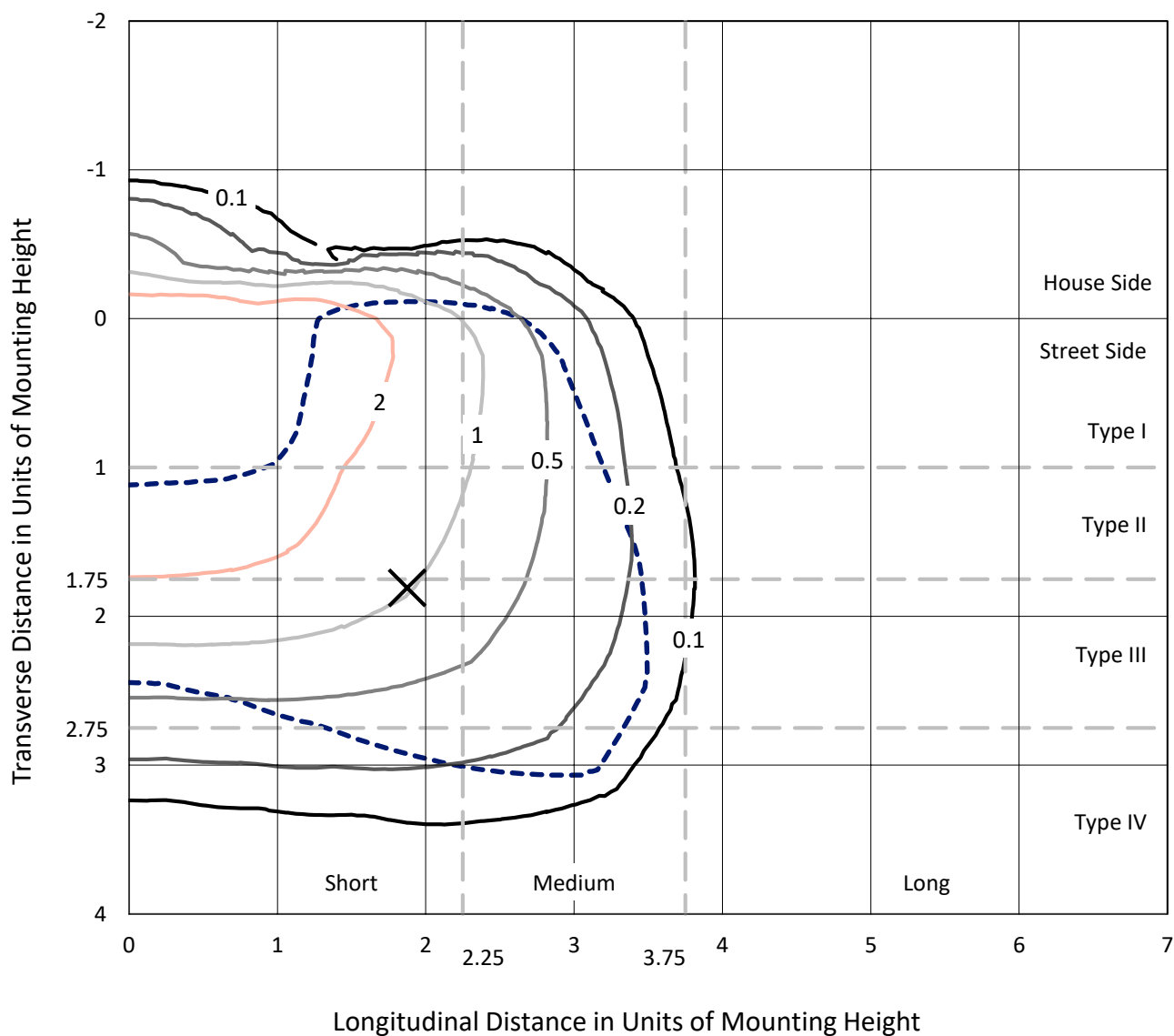
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

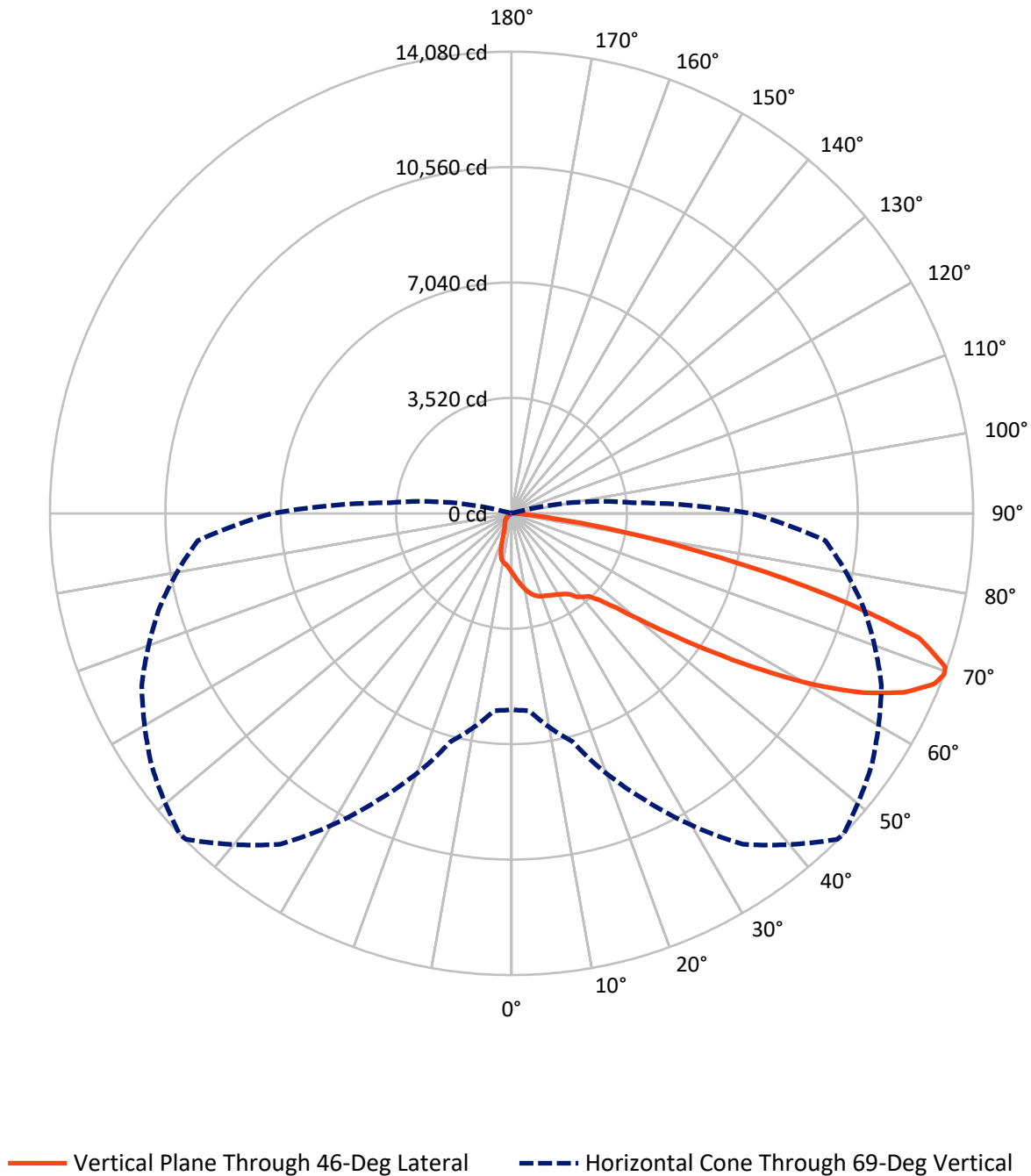
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1850.0	0.0	1850.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16176.0	0.0	16176.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	18026.0	0.0	18026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	1.0
10°-20°	545.4	3.0
20°-30°	857.7	4.8
30°-40°	1230.0	6.8
40°-50°	2125.8	11.8
50°-60°	4199.8	23.3
60°-70°	5869.6	32.6
70°-80°	2835.6	15.7
80°-90°	182.3	1.0
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°	18026.0	100.0
0°-180°	18026.0	100.0

Coefficient of Utilization



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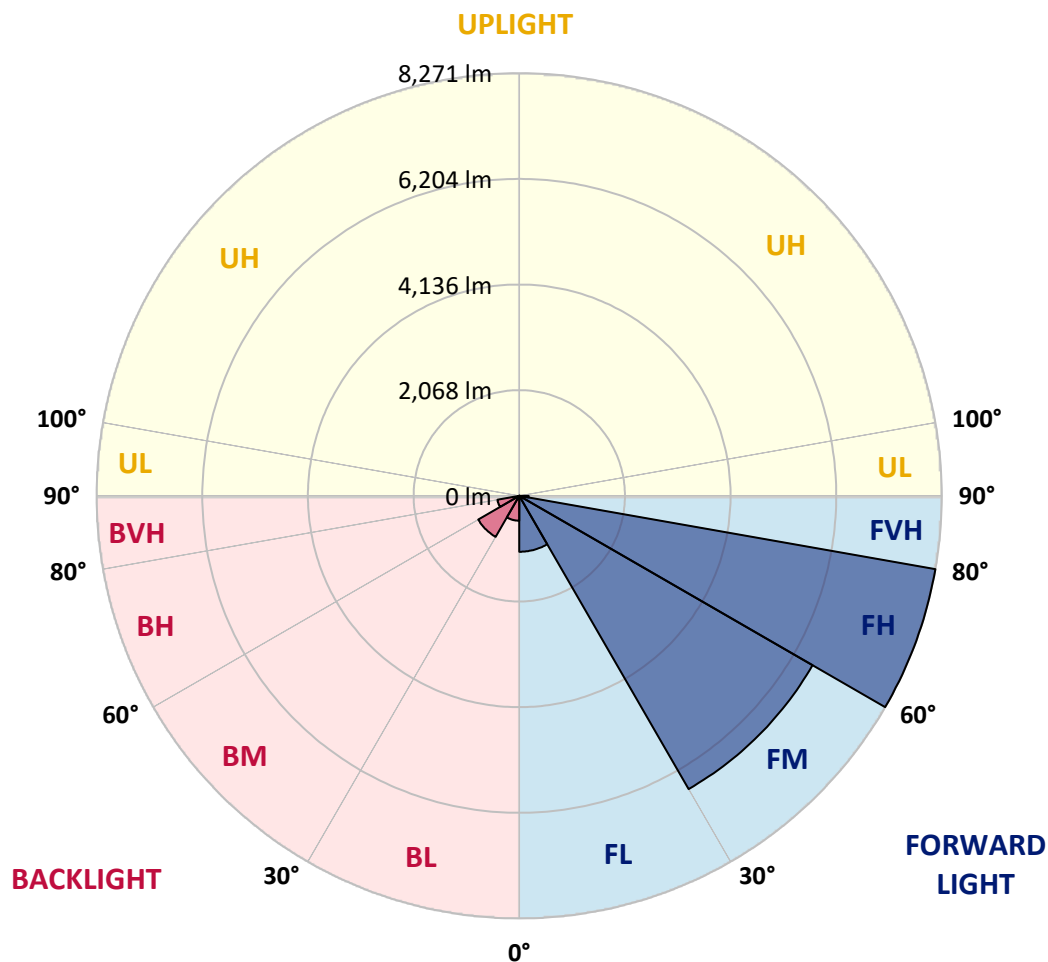
CATALOG NUMBER: GLEON-SA4D-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1095.3	6.1			
FM	(30°-60°)	6628.6	36.8			
FH	(60°-80°)	8271.5	45.9			G4/12000
FVH	(80°-90°)	180.7	1.0			G2/225
BL	(0°-30°)	487.6	2.7	B1/500		
BM	(30°-60°)	927.1	5.1	B1/1000		
BH	(60°-80°)	433.8	2.4	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P323058

CATALOG NUMBER: GLEON-SA4D-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1
2.5°	2006.4	2003.9	1992.1	1987.0	1958.3	1941.4	1934.6	1913.5	1883.0	1852.6	1818.8
5°	2234.6	2233.8	2211.8	2190.7	2136.6	2085.9	2076.6	2027.6	1959.1	1894.9	1830.6
7.5°	2467.9	2456.9	2434.9	2394.4	2315.8	2234.6	2227.0	2157.7	2060.5	1967.6	1875.4
10°	2665.7	2658.9	2630.2	2568.5	2476.4	2384.2	2374.9	2289.6	2179.7	2065.6	1948.1
12.5°	2819.5	2814.4	2776.4	2699.5	2601.4	2505.9	2493.3	2417.2	2299.7	2172.1	2033.5
15°	2913.3	2910.8	2864.3	2782.3	2686.0	2603.1	2592.2	2525.4	2416.4	2282.8	2126.5
17.5°	2935.3	2936.1	2888.0	2805.1	2725.7	2666.5	2658.1	2607.4	2516.1	2383.4	2219.4
20°	2886.3	2896.4	2853.3	2781.5	2732.4	2701.2	2694.4	2664.0	2587.1	2462.0	2293.8
22.5°	2817.0	2822.0	2792.5	2744.3	2724.0	2729.9	2726.5	2709.6	2644.6	2529.6	2367.3
25°	2774.7	2774.7	2757.0	2716.4	2729.9	2766.3	2767.1	2763.7	2712.2	2612.4	2456.9
27.5°	2773.0	2767.9	2747.7	2717.2	2754.4	2810.2	2813.6	2836.4	2804.3	2713.0	2568.5
30°	2840.6	2834.7	2791.6	2751.9	2799.2	2859.2	2867.7	2917.5	2901.5	2822.0	2692.7
32.5°	2998.7	2977.5	2882.0	2817.0	2852.5	2924.3	2935.3	3014.7	3040.1	2956.4	2812.7
35°	3215.0	3148.3	3010.5	2940.4	2943.7	3019.0	3029.1	3145.7	3221.0	3079.8	2905.7
37.5°	3513.4	3480.4	3256.5	3068.8	3084.0	3198.1	3227.7	3354.5	3333.4	3147.4	3011.4
40°	4167.6	4116.0	3877.7	3428.9	3218.4	3343.5	3352.8	3420.4	3422.1	3300.4	3231.1
42.5°	5058.4	5037.2	4786.2	4082.2	3483.0	3440.7	3457.6	3571.7	3699.3	3623.3	3619.9
45°	6044.7	6033.7	5767.5	4949.3	4018.0	3759.3	3780.5	3933.4	4177.7	4194.6	4301.9
47.5°	6838.3	6833.2	6680.3	5917.1	4836.9	4299.4	4306.2	4468.4	4897.8	5109.9	5281.5
50°	7561.8	7586.3	7465.4	6964.2	5952.6	5145.4	5129.4	5237.5	5927.2	6274.6	6487.6
52.5°	8567.5	8602.2	8263.3	7941.3	7123.1	6195.1	6182.5	6295.7	7164.5	7424.9	7462.9
55°	9455.8	9396.6	9128.7	9035.8	8550.6	7491.6	7488.2	7588.0	8361.3	8472.0	8542.2
57.5°	9848.0	9825.2	9954.5	10167.4	10045.7	9023.9	9016.3	8940.3	9432.1	9444.0	9659.5
60°	10095.6	10123.5	10519.9	11176.6	11480.0	10672.9	10623.8	10159.8	10454.8	10428.6	10659.3
62.5°	9909.7	9964.6	10677.9	11772.4	12553.4	12112.2	12042.9	11277.2	11328.7	11238.3	11453.0
65°	8922.5	9007.9	10176.7	11660.0	13085.8	13237.1	13167.0	12263.5	12022.6	11873.9	11754.7
67.5°	7244.8	7295.5	8516.0	10682.2	12845.8	13908.2	13893.8	13128.1	12546.6	11766.5	10841.9
69°	5987.2	6037.1	7211.9	9652.7	12317.6	14051.9	14079.8	13405.3	12446.9	11114.0	9606.3
70°	5071.0	5124.3	6218.8	8770.4	11704.8	13985.1	14035.0	13379.1	12161.2	10358.5	8521.9
72.5°	2659.8	2705.4	3828.6	6042.2	9542.0	12841.6	12992.9	12248.3	10308.6	7522.9	5038.9
75°	835.9	862.1	1495.1	3158.4	6533.2	9984.9	10019.5	9607.9	7320.1	4138.0	2098.6
77.5°	318.6	311.0	497.8	1163.8	3302.9	6287.3	6499.4	6004.1	3841.3	1463.0	484.3
80°	171.6	172.4	258.6	481.7	1413.1	3231.1	3410.3	2909.9	1365.0	456.4	111.6
82.5°	74.4	77.8	145.4	255.2	649.1	1191.7	1281.3	1066.6	521.5	306.8	41.4
85°	16.1	17.7	70.1	138.6	264.5	334.7	350.7	345.7	332.2	238.3	16.1
87.5°	0.0	0.0	31.3	49.9	66.8	76.1	66.8	87.1	183.4	160.6	8.5
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-SA4D-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1	1806.1
2.5°	1807.8	1792.6	1766.4	1737.7	1717.4	1696.3	1679.4	1671.8	1663.3	1657.4	1665.0
5°	1804.4	1774.9	1724.2	1675.1	1639.6	1610.9	1587.2	1577.9	1568.6	1561.9	1561.0
7.5°	1834.0	1792.6	1714.9	1643.0	1588.1	1549.2	1517.1	1503.6	1492.6	1487.5	1483.3
10°	1890.7	1837.4	1733.5	1639.6	1568.6	1502.7	1433.4	1380.2	1345.5	1329.5	1323.5
12.5°	1964.2	1897.4	1769.0	1657.4	1554.3	1427.5	1280.4	1153.7	1071.7	1044.6	1028.6
15°	2050.4	1967.6	1815.4	1680.2	1501.9	1270.3	1021.0	855.3	779.3	764.0	747.1
17.5°	2133.2	2041.9	1871.2	1684.4	1386.9	1015.1	748.0	635.6	606.0	616.1	618.7
20°	2205.9	2115.5	1926.2	1647.2	1178.2	761.5	578.9	551.1	562.0	581.5	584.9
22.5°	2279.4	2186.5	1976.9	1549.2	911.1	578.1	521.5	528.2	539.2	558.7	562.0
25°	2369.0	2272.7	2024.2	1369.2	683.7	491.9	495.3	505.4	516.4	534.2	535.8
27.5°	2472.1	2381.7	2055.5	1135.1	507.1	452.2	463.2	478.4	489.4	506.3	509.6
30°	2609.1	2525.4	2065.6	892.5	425.1	416.7	421.7	440.3	456.4	471.6	474.1
32.5°	2737.5	2667.4	2031.8	673.6	393.9	383.7	383.7	394.7	413.3	427.7	431.0
35°	2855.8	2810.2	1923.6	492.7	370.2	353.3	344.8	344.8	356.7	368.5	371.9
37.5°	3012.2	3010.5	1748.7	393.0	347.4	327.9	310.2	296.7	292.4	295.0	296.7
40°	3280.1	3282.7	1520.5	352.4	327.9	301.7	274.7	250.2	227.4	219.7	218.9
42.5°	3698.5	3660.5	1281.3	333.0	311.0	274.7	234.1	201.2	165.7	154.7	153.8
45°	4362.8	4137.1	1027.7	315.3	293.3	244.3	193.5	148.8	120.0	111.6	111.6
47.5°	5330.5	4763.4	796.2	295.8	269.6	209.6	146.2	107.3	87.9	83.7	84.5
50°	6331.2	5377.0	610.2	271.3	240.9	173.3	108.2	77.8	66.8	66.8	67.6
52.5°	7218.6	5826.6	475.8	245.1	205.4	136.1	82.0	60.9	55.8	54.9	55.8
55°	8049.4	6116.5	364.3	214.7	163.1	101.4	62.5	49.9	46.5	44.8	43.9
57.5°	8850.7	6260.2	273.0	173.3	118.3	73.5	49.9	42.3	38.9	36.3	35.5
60°	9384.0	6143.6	187.6	127.6	82.0	53.2	41.4	36.3	32.1	29.6	28.7
62.5°	9684.9	5824.9	120.9	92.1	58.3	39.7	33.0	30.4	24.5	22.0	22.0
65°	9563.1	5299.2	84.5	65.9	42.3	29.6	24.5	24.5	17.7	14.4	13.5
67.5°	8474.6	4476.9	64.2	49.0	30.4	22.0	18.6	21.1	11.0	6.8	6.8
69°	7291.3	3710.3	54.9	40.6	25.4	17.7	16.1	19.4	7.6	5.1	4.2
70°	6337.1	3200.7	49.9	35.5	21.1	15.2	14.4	18.6	7.6	4.2	3.4
72.5°	3791.5	1785.0	38.0	25.4	13.5	11.8	11.8	21.1	7.6	4.2	3.4
75°	1532.3	628.8	27.9	17.7	10.1	10.1	14.4	27.0	6.8	3.4	2.5
77.5°	347.4	137.8	16.1	11.0	6.8	10.1	16.9	21.1	4.2	1.7	0.0
80°	84.5	33.8	10.1	6.8	4.2	7.6	12.7	11.8	0.8	0.0	0.0
82.5°	27.9	11.8	4.2	3.4	0.8	2.5	5.9	3.4	0.0	0.0	0.0
85°	11.8	6.8	1.7	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
 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 W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/nm	Lumens (ϕ/nm)	λ (nm)	Power W/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)