

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: P322728

Luminaire Tested: **GLEON-SA4C-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16101 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

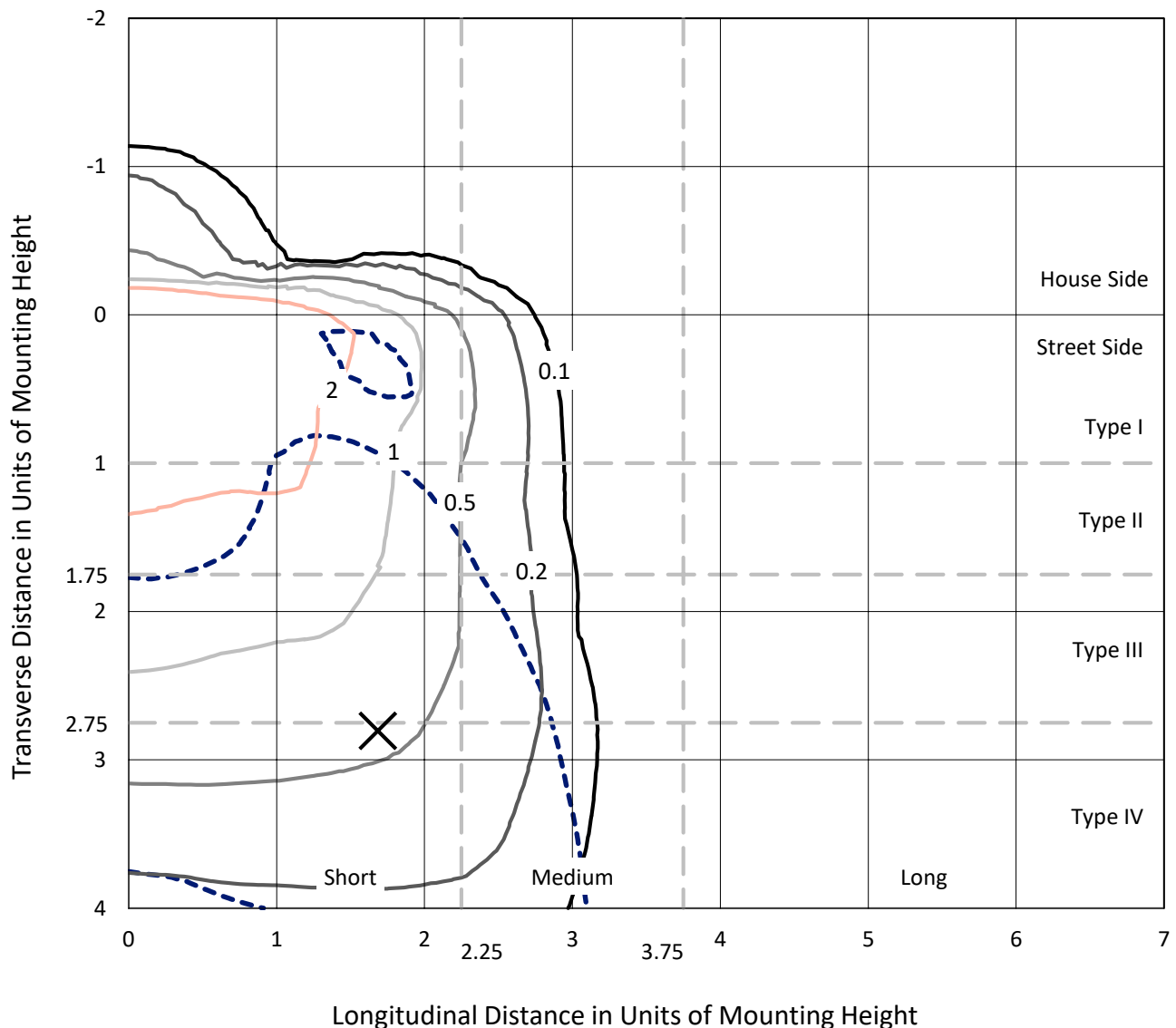
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

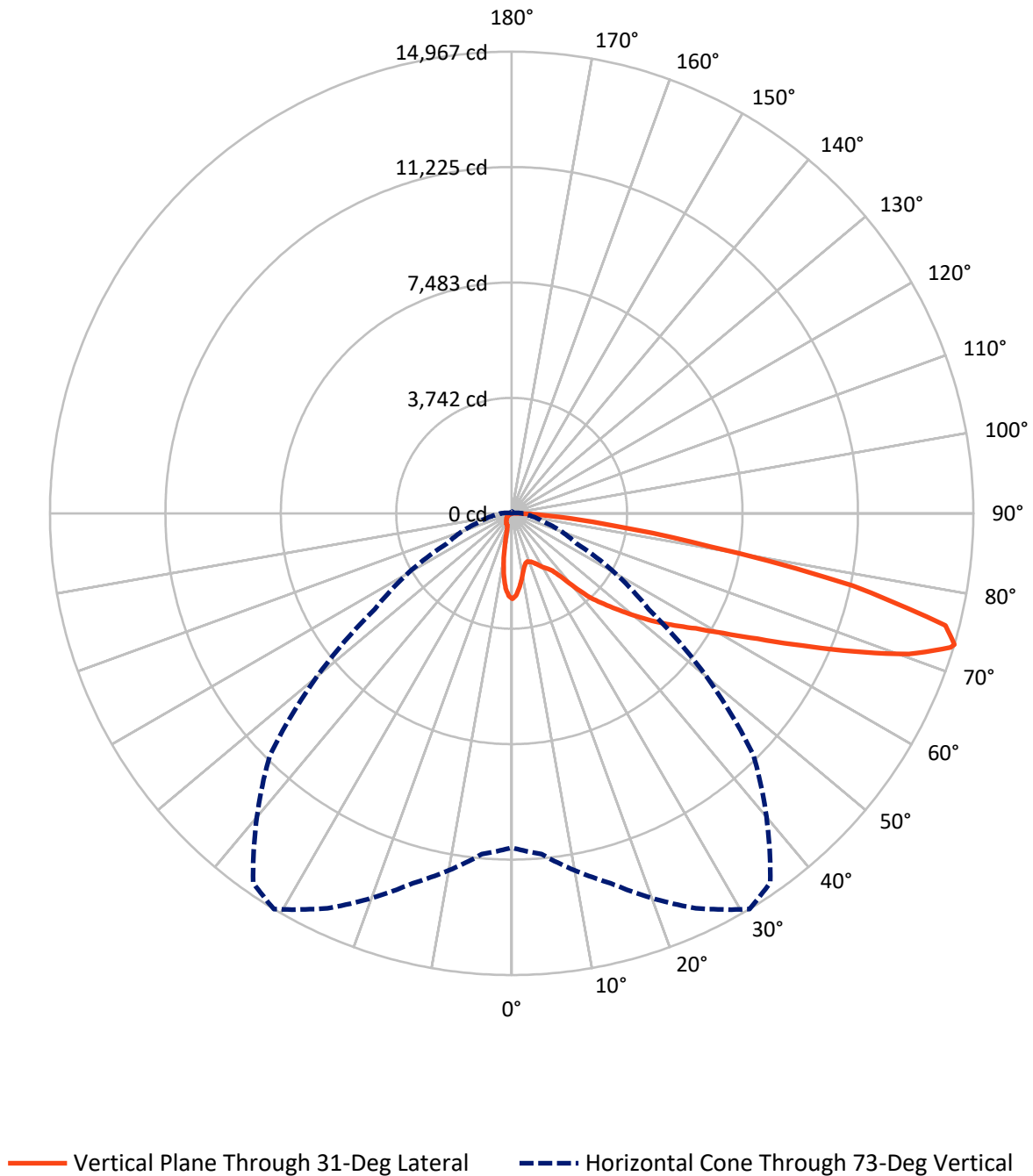
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1467.7	0.0	1467.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	14633.3	0.0	14633.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	16101.0	0.0	16101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	1.4
10°-20°	498.7	3.1
20°-30°	747.2	4.6
30°-40°	1188.8	7.4
40°-50°	2122.9	13.2
50°-60°	3294.2	20.5
60°-70°	4379.2	27.2
70°-80°	3294.0	20.5
80°-90°	346.1	2.1
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°	16101.0	100.0
0°-180°	16101.0	100.0

Coefficient of Utilization



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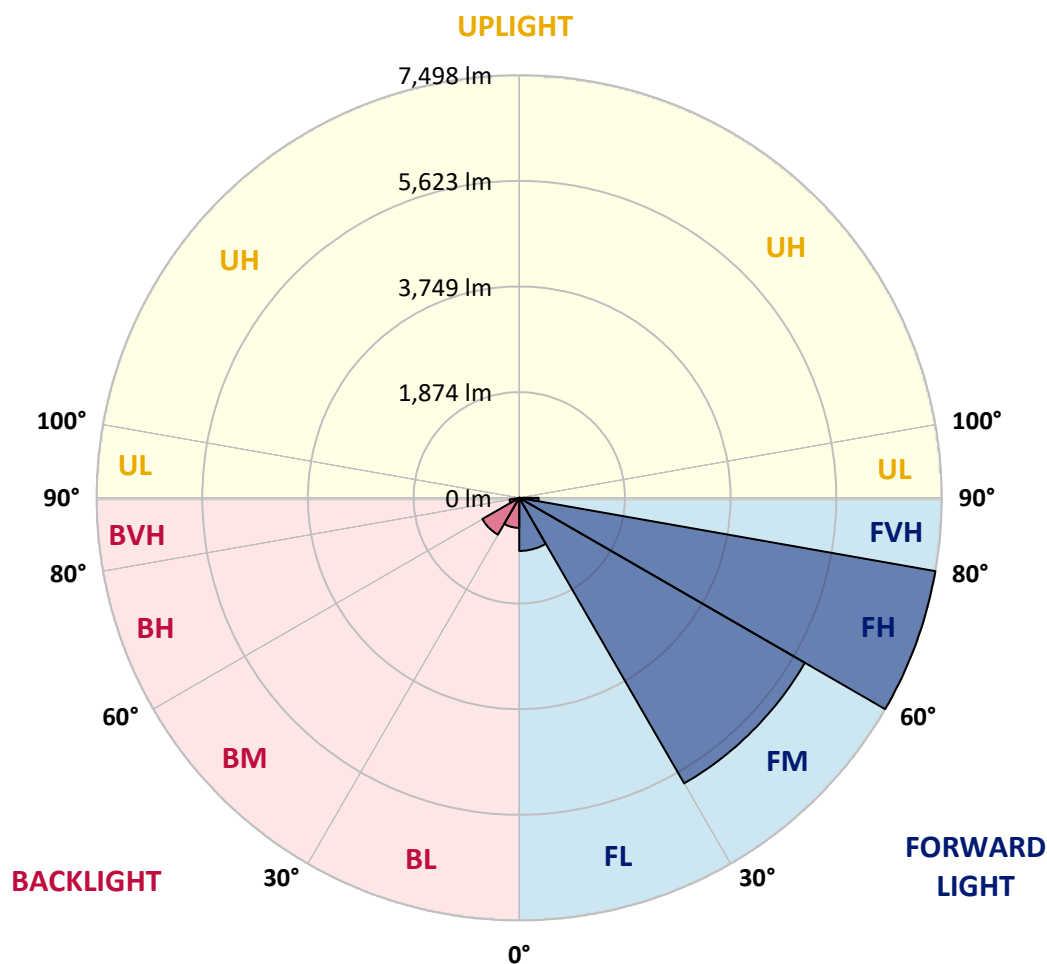
CATALOG NUMBER: GLEON-SA4C-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.9	5.9			
FM	(30°-60°)	5850.5	36.3			
FH	(60°-80°)	7497.6	46.6			G3/7500
FVH	(80°-90°)	343.2	2.1			G3/500
BL	(0°-30°)	533.7	3.3	B2/1000		
BM	(30°-60°)	755.4	4.7	B1/1000		
BH	(60°-80°)	175.6	1.1	B1/500		G1/500
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2
2.5°	2625.2	2636.3	2648.1	2650.5	2670.1	2670.9	2699.3	2720.6	2741.8	2762.3	2769.4
5°	2355.8	2373.9	2395.2	2416.4	2458.2	2474.8	2544.1	2615.0	2682.8	2747.4	2778.9
7.5°	2068.2	2088.7	2118.6	2171.4	2217.9	2250.2	2359.7	2485.8	2611.8	2730.8	2799.4
10°	1805.8	1824.7	1856.3	1912.2	1983.9	2028.0	2175.4	2350.3	2535.4	2715.8	2830.1
12.5°	1638.8	1649.0	1666.4	1726.3	1790.9	1840.5	2013.8	2230.5	2472.4	2715.1	2879.7
15°	1608.1	1611.2	1597.0	1623.8	1674.3	1722.3	1898.0	2133.6	2424.3	2727.7	2944.3
17.5°	1656.9	1655.4	1608.1	1604.9	1645.1	1684.5	1841.3	2066.6	2390.4	2756.8	3027.8
20°	1731.0	1725.5	1643.5	1628.6	1671.1	1708.1	1837.4	2041.4	2377.8	2805.7	3129.5
22.5°	1829.5	1820.0	1691.6	1675.8	1721.5	1760.1	1886.2	2065.8	2388.9	2871.1	3247.7
25°	1951.6	1937.4	1774.3	1757.0	1803.5	1842.1	1973.7	2136.0	2422.0	2950.6	3397.4
27.5°	2089.5	2069.0	1906.7	1861.8	1914.6	1954.7	2090.3	2243.1	2474.0	3034.9	3580.9
30°	2219.5	2192.7	2046.1	1972.1	2036.7	2081.6	2216.3	2370.8	2557.5	3164.9	3832.3
32.5°	2350.3	2320.3	2170.6	2082.4	2140.7	2189.5	2346.3	2546.5	2714.3	3363.5	4166.3
35°	2651.2	2619.7	2436.1	2290.4	2289.6	2317.2	2528.3	2786.8	2921.5	3640.0	4565.0
37.5°	3157.9	3139.7	2964.8	2688.3	2614.2	2583.5	2776.5	3073.5	3219.3	4020.6	5014.9
40°	3712.5	3696.8	3500.6	3250.0	3137.4	3061.7	3132.6	3473.0	3640.0	4485.4	5474.2
42.5°	4338.9	4264.0	3914.2	3839.4	3738.5	3681.0	3617.2	3965.4	4156.9	4991.3	5929.6
45°	4907.7	4781.7	4327.9	4214.4	4191.6	4205.7	4241.2	4627.3	4738.4	5592.4	6383.5
47.5°	5246.5	5147.3	4799.0	4690.3	4684.0	4777.7	5045.6	5375.0	5317.4	6116.4	6782.9
50°	5568.8	5479.0	5189.8	5216.6	5245.8	5373.4	5958.8	6143.9	5846.1	6591.5	7149.3
52.5°	5829.6	5692.5	5541.2	5691.7	5835.1	6040.7	6901.1	6834.1	6221.2	6969.6	7462.9
55°	5980.1	5917.8	5991.1	6142.4	6411.8	6745.9	7790.6	7408.5	6495.3	7314.7	7671.7
57.5°	6531.6	6409.5	6555.2	6686.0	7037.4	7504.6	8552.5	7836.3	6693.1	7528.3	7719.7
60°	7198.9	7100.4	7186.3	7403.8	7878.1	8427.2	9264.8	8185.4	6796.3	7665.4	7595.2
62.5°	8261.0	8131.0	8077.4	8320.9	8949.6	9549.2	9805.3	8427.2	6773.5	7604.7	7168.2
65°	9683.9	9549.2	9309.7	9530.3	10330.0	10753.1	10409.6	8478.5	6615.9	7113.8	6088.8
67.5°	11141.5	11043.8	10839.0	11210.8	11932.5	12068.9	11048.5	8354.0	6108.5	5768.1	4301.9
70°	12104.3	12062.5	12195.7	13018.3	13662.0	13622.6	11634.7	7685.0	4761.2	3547.1	2128.1
72.5°	11410.2	11610.3	12593.6	14085.1	14871.4	14549.9	11333.8	5901.3	2721.4	1364.6	615.3
73°	10835.0	11091.1	12414.7	14125.2	14966.7	14614.5	11080.8	5416.7	2319.5	1077.0	466.4
75°	7537.7	7852.1	10278.0	13155.3	14520.8	13924.3	9236.4	3315.4	1074.7	477.5	188.3
77.5°	3659.7	3892.2	5659.4	9505.1	11292.8	10879.1	5750.0	1235.4	485.3	298.6	86.7
80°	1366.2	1519.0	2456.6	4837.6	6526.1	6697.0	2529.1	467.2	323.0	240.3	44.1
82.5°	357.7	398.7	906.1	2157.2	3344.6	3500.6	797.3	235.6	236.4	197.8	26.8
85°	114.2	130.8	282.9	968.3	1575.8	1383.5	208.0	114.2	171.8	147.3	15.0
87.5°	14.2	18.1	89.8	227.7	347.5	193.0	32.3	33.9	73.3	81.9	8.7
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-SA4C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2	2770.2
2.5°	2776.5	2772.6	2773.4	2752.9	2739.5	2712.7	2685.1	2672.5	2659.1	2653.6	2659.1
5°	2790.7	2783.6	2763.1	2700.1	2633.1	2546.5	2465.3	2403.8	2326.6	2305.4	2327.4
7.5°	2812.8	2798.6	2738.7	2610.3	2461.4	2295.9	2110.0	1974.4	1863.4	1791.7	1817.7
10°	2845.1	2818.3	2697.7	2479.5	2213.2	1920.1	1656.1	1450.5	1304.7	1244.9	1242.5
12.5°	2899.4	2849.0	2647.3	2309.3	1909.8	1519.0	1173.2	950.2	832.0	755.6	754.0
15°	2959.3	2885.2	2583.5	2105.2	1556.9	1088.1	755.6	586.2	509.8	485.3	482.2
17.5°	3032.6	2927.0	2500.8	1853.9	1187.3	720.9	493.2	444.4	441.2	438.9	438.9
20°	3124.8	2976.6	2394.4	1566.3	842.3	481.4	419.2	422.3	423.9	420.7	421.5
22.5°	3231.9	3027.1	2267.5	1257.5	569.6	402.6	401.0	405.0	406.5	405.0	405.8
25°	3356.4	3085.4	2113.1	933.6	411.3	382.1	386.1	391.6	395.5	395.5	395.5
27.5°	3510.8	3156.3	1927.2	651.6	355.3	360.9	371.9	382.1	387.6	389.2	389.2
30°	3711.7	3244.5	1704.2	446.7	323.0	332.5	353.0	372.7	382.9	384.5	385.3
32.5°	3965.4	3343.8	1445.8	330.1	295.5	302.5	324.6	357.7	377.4	380.5	380.5
35°	4256.2	3458.8	1167.6	287.6	275.8	278.1	295.5	333.3	367.9	376.6	377.4
37.5°	4574.5	3572.3	887.9	268.7	259.2	259.2	271.8	304.1	345.1	371.9	375.0
40°	4871.5	3640.8	622.4	253.7	244.2	244.2	255.3	278.9	317.5	357.7	366.4
42.5°	5145.7	3664.5	433.3	239.5	230.1	232.4	241.9	260.8	289.9	330.1	338.0
45°	5427.8	3660.5	315.9	223.0	215.9	223.0	230.1	244.2	265.5	288.4	289.9
47.5°	5640.5	3627.4	250.5	207.2	202.5	211.9	218.2	227.7	239.5	237.9	237.9
50°	5839.8	3547.1	201.7	185.9	189.1	200.1	203.3	206.4	207.2	192.2	190.7
52.5°	5991.1	3421.8	161.5	163.1	175.7	186.7	183.6	178.9	171.0	152.9	149.7
55°	6041.5	3180.7	126.8	134.7	156.0	170.2	158.4	148.1	133.2	118.2	115.0
57.5°	5950.1	2869.5	103.2	104.8	131.6	143.4	130.0	118.2	101.6	89.0	86.7
60°	5756.3	2523.6	85.1	78.8	101.6	111.9	103.2	91.4	76.4	67.0	66.2
62.5°	5371.8	2154.9	70.1	61.5	77.2	85.9	80.4	71.7	59.1	52.8	52.0
65°	4563.4	1723.9	56.7	49.6	59.9	67.0	62.2	55.9	46.5	41.8	41.0
67.5°	3185.4	1165.3	46.5	41.0	47.3	52.8	48.8	45.7	37.0	36.2	37.0
70°	1536.4	561.8	38.6	33.1	37.0	41.0	39.4	37.0	35.5	41.0	47.3
72.5°	440.4	188.3	30.7	27.6	29.9	32.3	33.9	33.1	38.6	49.6	57.5
73°	338.8	152.1	29.2	26.0	28.4	31.5	33.1	32.3	39.4	50.4	57.5
75°	145.0	73.3	22.1	21.3	23.6	27.6	29.2	29.2	39.4	51.2	55.2
77.5°	65.4	39.4	14.2	16.5	20.5	22.1	24.4	24.4	31.5	39.4	39.4
80°	37.0	21.3	11.0	12.6	15.0	15.0	15.0	13.4	14.2	15.8	17.3
82.5°	23.6	14.2	8.7	10.2	9.5	7.9	6.3	6.3	5.5	6.3	7.9
85°	13.4	7.9	7.9	6.3	3.9	3.2	3.9	3.2	0.8	0.0	0.8
87.5°	7.9	4.7	2.4	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
 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 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)