

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: P322409

Luminaire Tested: **GLEON-SA5C-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20471 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

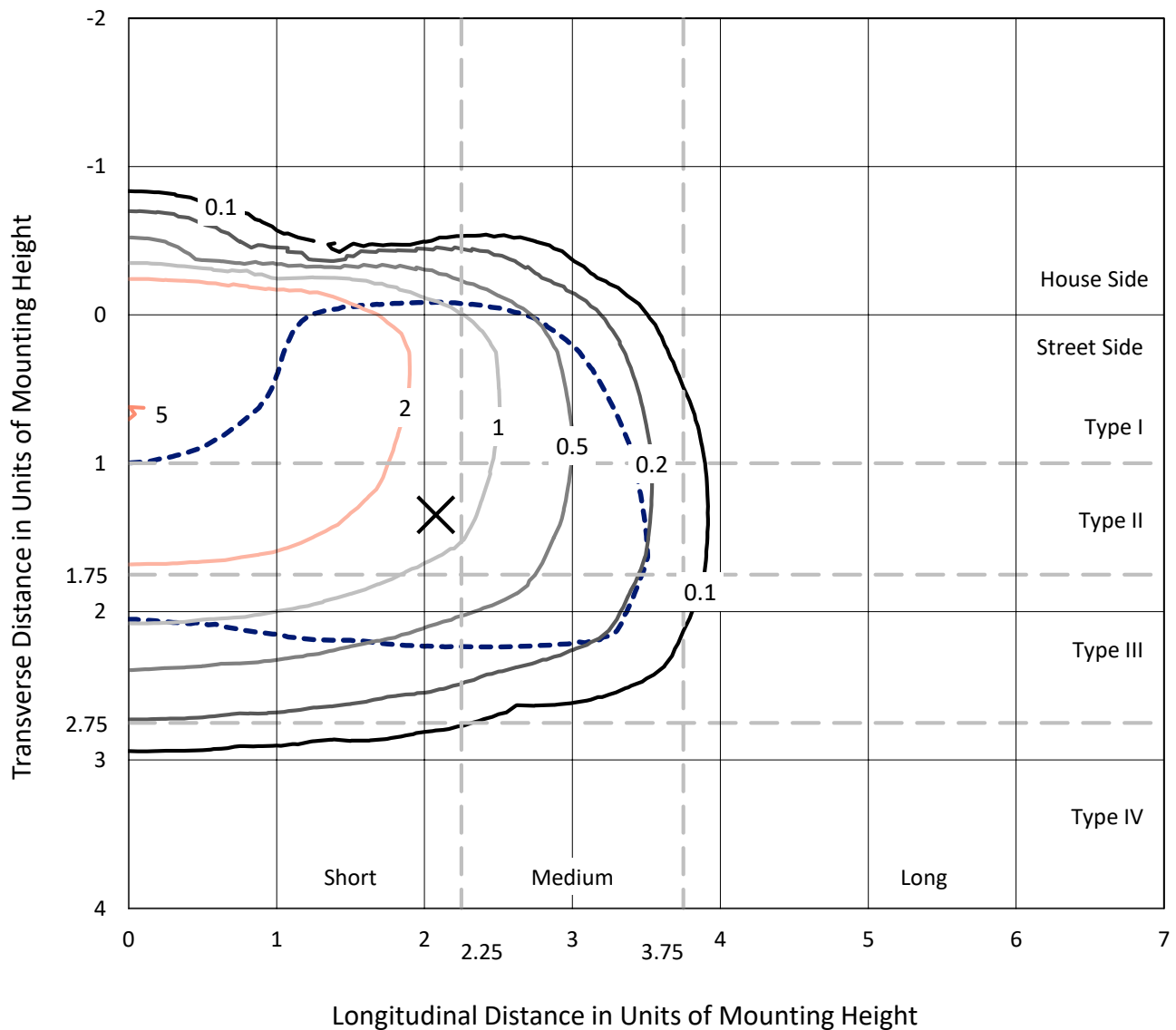
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

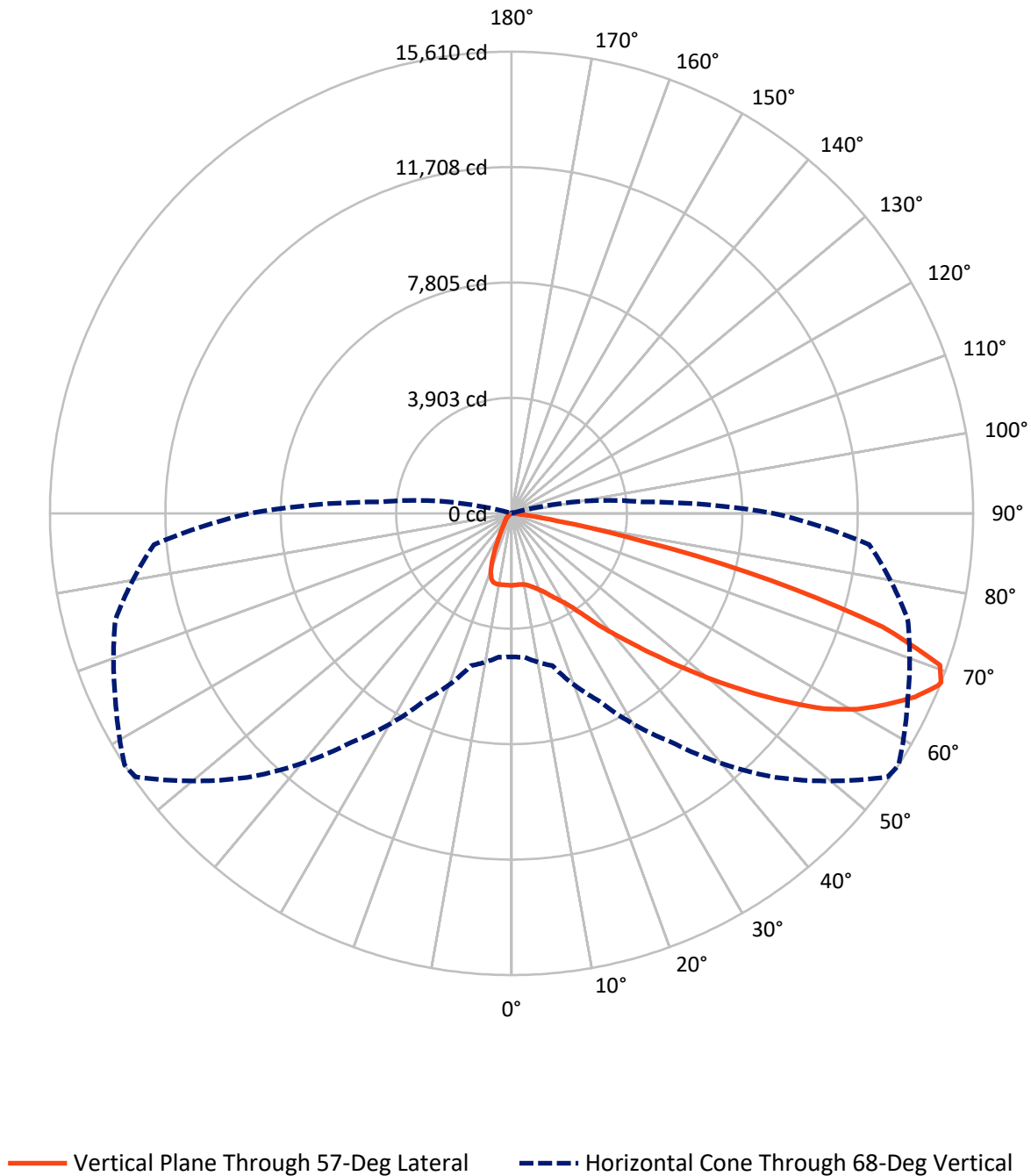
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA5C-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2244.8	0.0	2244.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	18226.2	0.0	18226.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	20471.0	0.0	20471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	1.1
10°-20°	630.8	3.1
20°-30°	1088.2	5.3
30°-40°	1878.2	9.2
40°-50°	3212.8	15.7
50°-60°	5140.1	25.1
60°-70°	5938.8	29.0
70°-80°	2269.3	11.1
80°-90°	85.1	0.4
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°	20471.0	100.0
0°-180°	20471.0	100.0

Coefficient of Utilization



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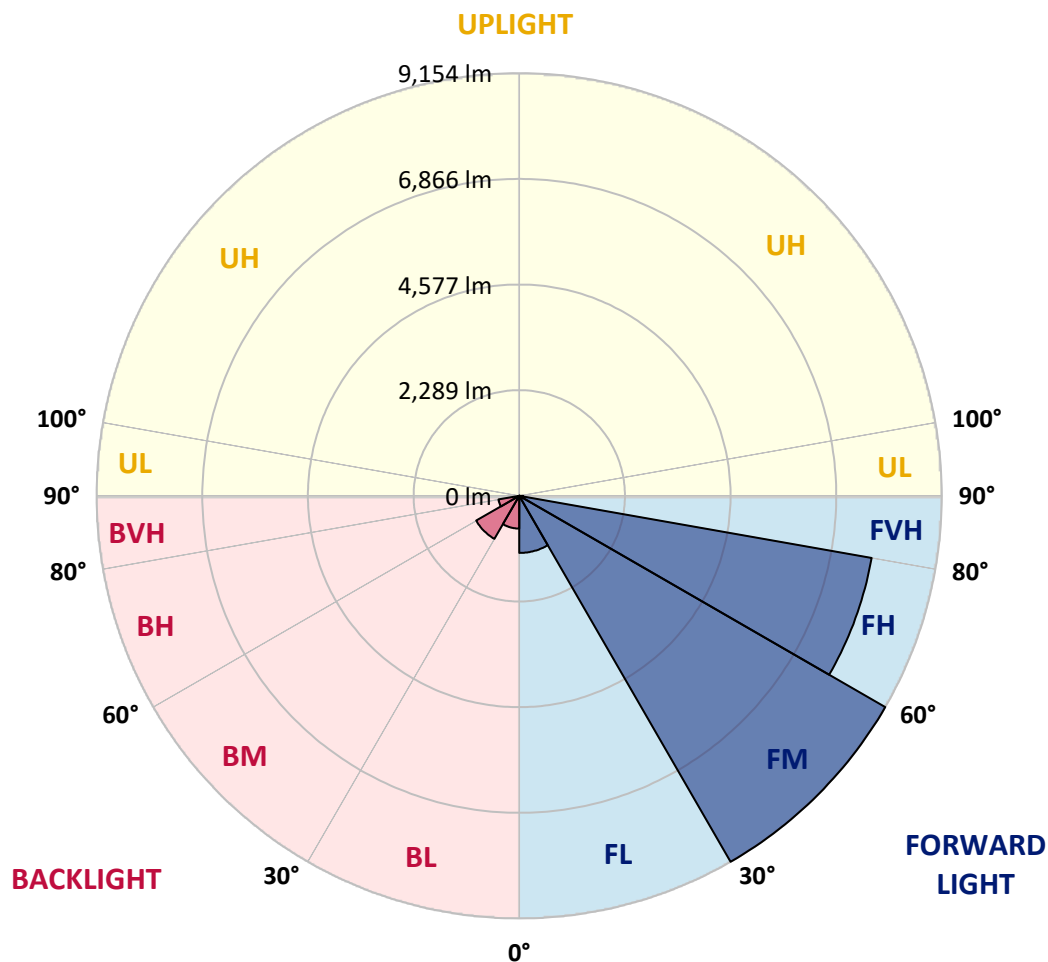
CATALOG NUMBER: GLEON-SA5C-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1237.3	6.0			
FM	(30°-60°)	9154.5	44.7			
FH	(60°-80°)	7751.0	37.9			G4/12000
FVH	(80°-90°)	83.5	0.4			G1/100
BL	(0°-30°)	709.4	3.5	B2/1000		
BM	(30°-60°)	1076.6	5.3	B2/2500		
BH	(60°-80°)	457.2	2.2	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5
2.5°	2375.4	2386.0	2393.8	2398.6	2404.4	2417.0	2420.9	2426.7	2429.6	2429.6	2436.4
5°	2281.5	2293.1	2309.6	2323.1	2350.2	2385.1	2410.2	2419.9	2437.3	2452.8	2461.5
7.5°	2194.4	2207.9	2227.3	2259.2	2305.7	2361.8	2414.1	2427.7	2461.5	2494.4	2510.9
10°	2138.2	2148.9	2174.0	2219.5	2280.5	2358.9	2432.5	2448.9	2507.0	2562.2	2593.2
12.5°	2118.9	2128.6	2154.7	2206.0	2281.5	2373.4	2475.1	2499.3	2584.5	2664.8	2708.4
15°	2146.9	2148.9	2177.0	2225.4	2299.9	2409.3	2545.7	2574.8	2682.2	2786.8	2841.0
17.5°	2255.4	2246.6	2261.2	2282.5	2341.5	2456.7	2620.3	2663.8	2807.1	2930.0	2981.3
20°	2526.4	2526.4	2493.5	2435.4	2436.4	2530.3	2720.9	2770.3	2945.5	3087.8	3134.3
22.5°	2990.0	2981.3	2915.5	2773.2	2642.5	2657.1	2843.9	2907.8	3112.0	3264.0	3279.5
25°	3547.6	3536.9	3435.3	3234.9	3008.4	2862.3	3010.4	3083.9	3310.4	3445.0	3413.0
27.5°	4138.0	4129.3	4028.7	3779.9	3457.6	3189.4	3208.8	3278.5	3512.7	3645.4	3543.7
30°	4710.1	4713.0	4613.3	4357.8	3992.9	3606.6	3460.5	3501.1	3709.2	3843.8	3698.6
32.5°	5254.1	5258.0	5171.8	4886.3	4545.6	4091.6	3808.9	3798.3	3937.7	4070.3	3903.8
35°	5739.1	5748.7	5689.7	5468.0	5107.0	4631.7	4261.0	4235.8	4261.9	4412.0	4218.4
37.5°	6206.6	6212.4	6167.9	5981.1	5679.0	5225.1	4832.1	4796.3	4740.1	4855.3	4633.6
40°	6718.6	6704.1	6652.8	6483.4	6224.0	5880.4	5445.8	5383.8	5286.1	5388.7	5179.6
42.5°	7194.9	7178.4	7187.1	6995.5	6776.7	6554.1	6161.1	6054.6	5997.5	6115.6	5849.4
45°	7790.2	7781.5	7810.5	7644.0	7466.9	7305.2	6981.0	6864.8	6839.6	6978.1	6659.6
47.5°	8377.7	8399.0	8489.0	8418.4	8346.8	8204.5	7849.2	7797.0	7812.4	7979.9	7514.3
50°	8867.5	8892.7	9139.5	9220.8	9324.4	9241.2	8884.9	8853.0	8914.0	9065.0	8433.9
52.5°	9221.8	9273.1	9579.9	9954.5	10332.1	10388.2	10033.0	10003.9	10086.2	10109.4	9144.4
55°	9467.7	9513.2	9860.7	10546.0	11314.5	11556.5	11335.8	11223.5	11208.1	10978.7	9891.6
57.5°	9511.2	9506.4	10005.8	10928.3	12085.0	12709.4	12570.0	12459.6	12142.1	11782.1	10748.3
60°	9265.4	9293.4	9873.2	11060.9	12569.0	13581.5	13592.2	13448.9	12954.3	12563.2	11578.8
62.5°	8508.4	8622.6	9208.2	10713.4	12563.2	13932.9	14341.4	14232.0	13640.6	13203.0	12420.9
65°	7281.0	7321.7	7880.2	9522.8	11714.3	13785.7	15016.0	14975.4	14259.1	13824.5	12853.6
67.5°	5317.0	5228.9	5815.5	7498.8	9917.8	12928.1	15500.0	15551.3	14736.3	13952.2	12392.8
68°	4852.4	4878.5	5335.4	6998.4	9447.3	12625.2	15532.0	15610.4	14783.7	13869.0	12141.2
70°	2892.3	2942.6	3350.1	4818.5	7187.1	10910.9	15187.4	15366.4	14501.1	13010.4	10501.4
72.5°	738.6	798.6	1183.8	2156.6	4105.1	7687.6	12820.7	13123.7	12590.3	10554.7	7089.4
75°	303.9	319.4	423.0	710.5	1529.4	3463.4	8450.3	9098.9	8728.1	6318.9	3204.0
77.5°	210.0	220.7	272.0	394.0	662.1	1174.1	4142.9	4611.4	4154.5	2156.6	698.9
80°	151.0	159.7	194.6	262.3	380.4	419.1	1350.3	1561.3	1240.0	473.3	173.3
82.5°	90.0	96.8	145.2	186.8	231.3	200.4	335.9	381.4	359.1	235.2	77.4
85°	44.5	52.3	97.8	133.6	124.9	84.2	102.6	114.2	141.3	143.3	41.6
87.5°	2.9	5.8	57.1	80.3	34.8	19.4	30.0	36.8	50.3	70.7	17.4
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-SA5C-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5	2432.5
2.5°	2439.3	2440.2	2433.5	2430.6	2432.5	2420.9	2416.0	2418.0	2418.0	2420.9	2416.0
5°	2463.5	2463.5	2451.9	2436.4	2427.7	2405.4	2390.9	2387.0	2384.1	2382.2	2378.3
7.5°	2515.7	2509.9	2489.6	2455.7	2426.7	2378.3	2341.5	2322.1	2312.5	2308.6	2305.7
10°	2600.0	2589.3	2555.4	2492.5	2425.7	2339.6	2259.2	2202.1	2154.7	2135.3	2123.7
12.5°	2713.2	2697.7	2640.6	2536.1	2418.9	2260.2	2086.0	1918.5	1762.7	1698.8	1666.8
15°	2843.9	2821.6	2731.6	2572.8	2379.3	2081.1	1702.6	1409.4	1193.5	1112.2	1077.3
17.5°	2976.5	2947.5	2811.0	2596.1	2260.2	1710.4	1194.5	902.1	757.9	719.2	705.6
20°	3110.1	3067.5	2879.7	2578.7	1991.1	1233.2	787.9	659.2	617.6	605.9	602.1
22.5°	3236.9	3171.1	2941.6	2510.9	1576.8	827.6	623.4	582.7	569.2	562.4	560.5
25°	3347.2	3255.3	2995.8	2301.8	1116.1	625.3	561.4	547.9	530.4	517.9	518.8
27.5°	3450.8	3339.5	3028.8	1957.2	744.4	534.3	519.8	501.4	469.5	451.1	451.1
30°	3575.7	3451.8	3053.0	1506.2	547.9	472.4	460.8	432.7	389.1	364.9	364.9
32.5°	3763.4	3622.1	3037.5	1057.0	454.0	415.3	388.2	349.4	302.0	278.8	277.8
35°	4050.9	3885.4	2927.1	693.1	400.7	361.1	317.5	270.1	228.4	209.1	208.1
37.5°	4438.1	4237.7	2679.3	495.6	359.1	310.7	258.4	206.2	175.2	162.6	161.7
40°	4940.5	4647.2	2325.1	401.7	320.4	262.3	199.4	159.7	138.4	128.7	129.7
42.5°	5543.5	5085.7	1900.1	346.5	282.6	215.9	155.8	125.8	112.3	105.5	103.6
45°	6213.4	5518.4	1454.9	308.8	244.9	174.2	122.0	99.7	89.1	85.2	85.2
47.5°	6950.0	5939.4	1064.8	275.9	204.2	134.5	97.8	81.3	72.6	69.7	68.7
50°	7618.8	6231.8	767.6	241.0	167.5	106.5	79.4	67.8	61.9	58.1	58.1
52.5°	8176.4	6323.7	565.3	203.3	135.5	85.2	65.8	58.1	52.3	49.4	49.4
55°	8667.2	6286.0	420.1	167.5	109.4	69.7	56.1	49.4	44.5	41.6	41.6
57.5°	9137.6	6164.0	313.6	136.5	88.1	56.1	47.4	41.6	36.8	34.8	34.8
60°	9521.9	5960.7	233.3	110.3	70.7	45.5	39.7	33.9	30.0	27.1	27.1
62.5°	9833.6	5736.2	171.3	91.0	56.1	35.8	31.0	28.1	22.3	19.4	19.4
65°	9835.5	5363.5	128.7	75.5	43.6	28.1	23.2	22.3	14.5	11.6	10.6
67.5°	9124.0	4624.0	98.7	64.9	33.9	21.3	17.4	18.4	7.7	4.8	3.9
68°	8865.6	4436.2	92.9	63.9	31.9	20.3	16.5	18.4	6.8	3.9	2.9
70°	7474.6	3529.2	74.5	61.9	28.1	15.5	13.6	18.4	5.8	2.9	1.9
72.5°	4780.8	2048.2	55.2	49.4	21.3	11.6	8.7	16.5	5.8	1.9	1.0
75°	2034.7	635.0	37.8	34.8	12.6	8.7	5.8	10.6	3.9	1.0	0.0
77.5°	428.8	143.3	22.3	21.3	8.7	5.8	3.9	2.9	1.0	0.0	0.0
80°	110.3	41.6	11.6	10.6	4.8	2.9	1.9	0.0	0.0	0.0	0.0
82.5°	34.8	16.5	6.8	4.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.4	9.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	2.9	1.0	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
 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

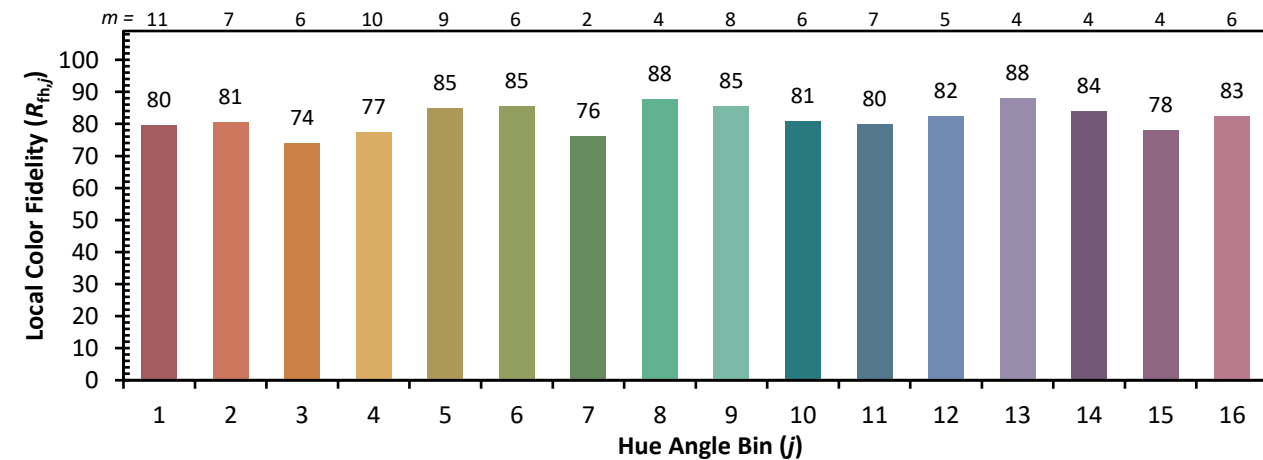


Individual Sample Fidelity Index ($R_{f,i}$)

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)