

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: P322391

Luminaire Tested: **GLEON-SA7A-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322391
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-SA7A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 19088 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

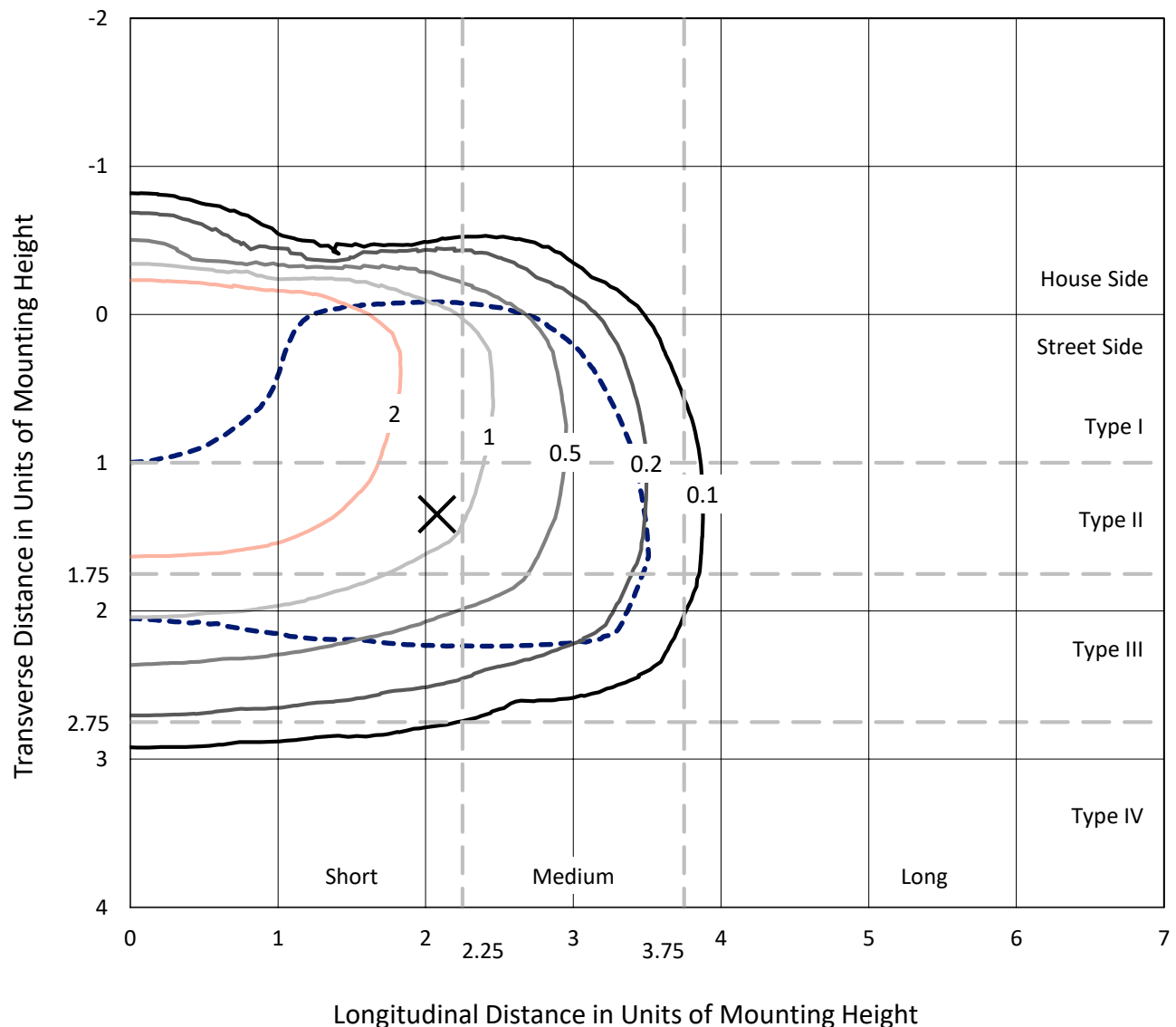
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

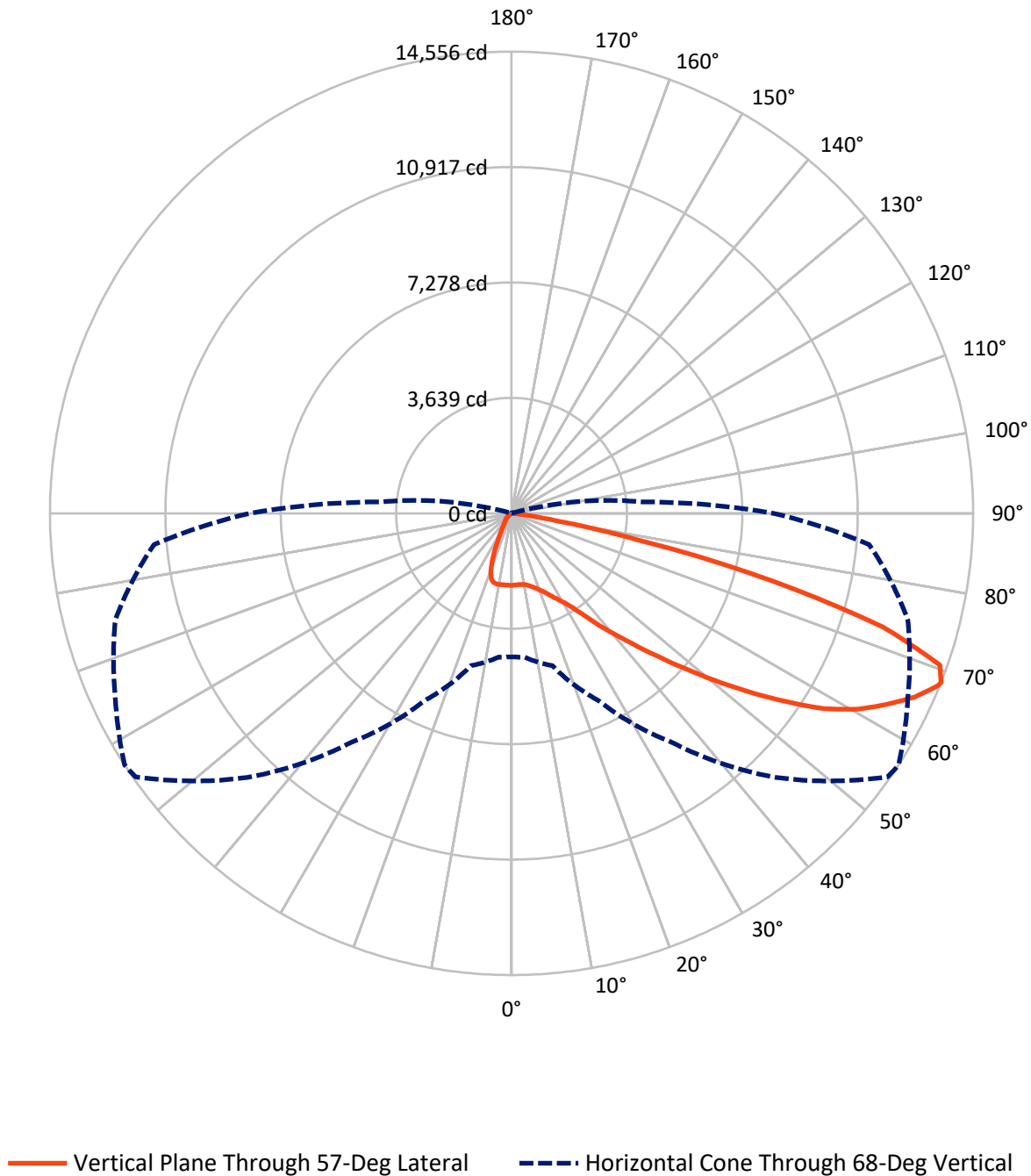
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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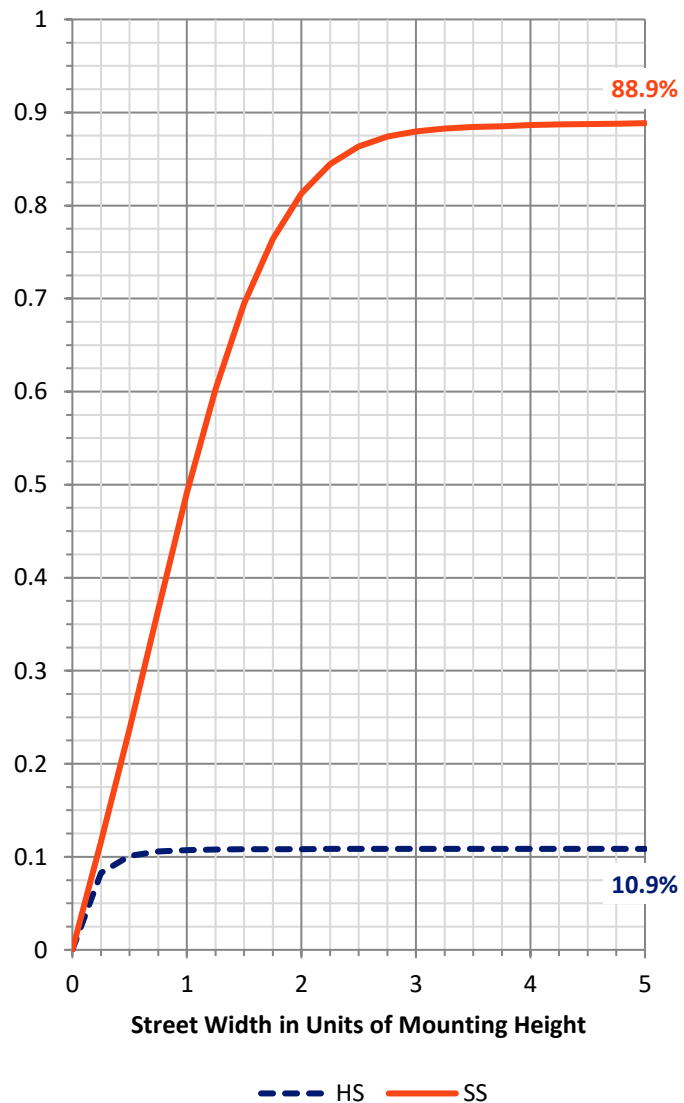
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2093.1	0.0	2093.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	16994.9	0.0	16994.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	19088.0	0.0	19088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.1
10°-20°	588.2	3.1
20°-30°	1014.7	5.3
30°-40°	1751.3	9.2
40°-50°	2995.7	15.7
50°-60°	4792.8	25.1
60°-70°	5537.6	29.0
70°-80°	2116.0	11.1
80°-90°	79.3	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°	19088.0	100.0
0°-180°	19088.0	100.0

Coefficient of Utilization



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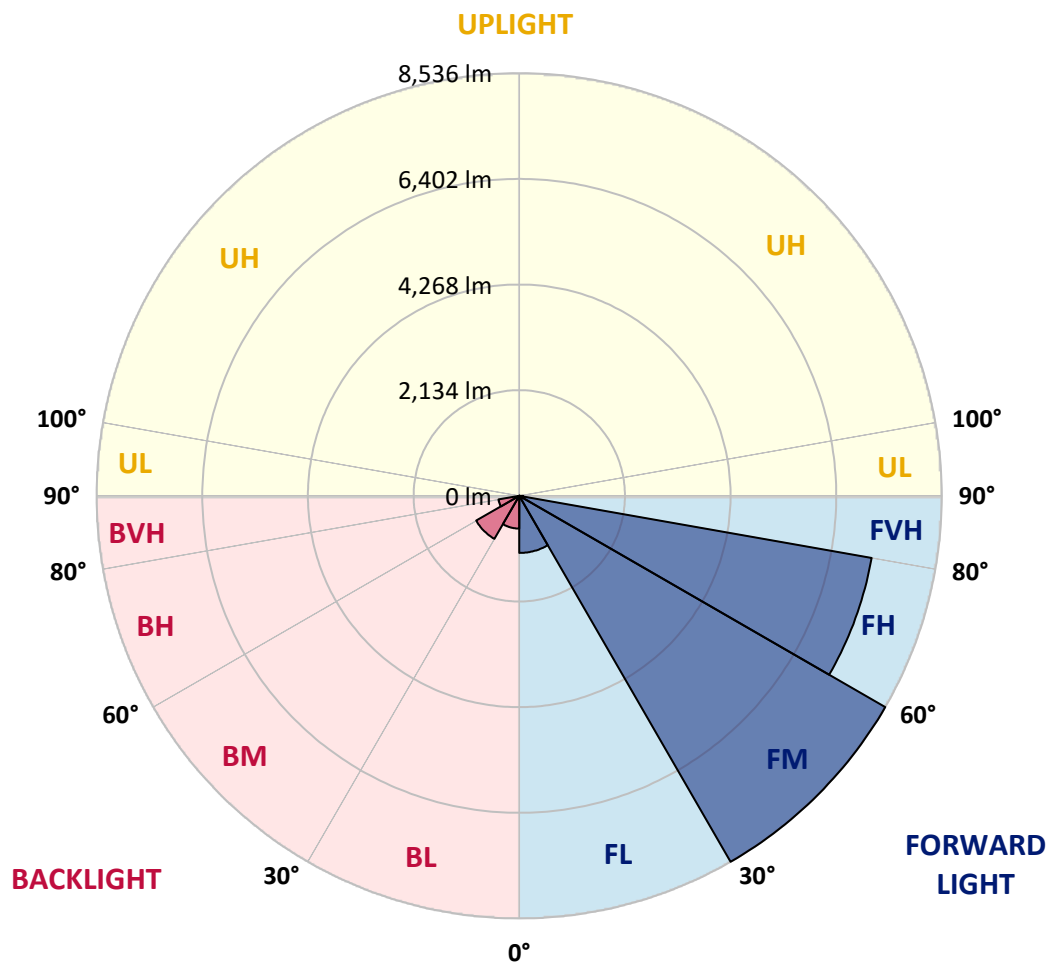
CATALOG NUMBER: GLEON-SA7A-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1153.7	6.0			
FM	(30°-60°)	8536.0	44.7			
FH	(60°-80°)	7227.3	37.9			G3/7500
FVH	(80°-90°)	77.9	0.4			G1/100
BL	(0°-30°)	661.5	3.5	B2/1000		
BM	(30°-60°)	1003.9	5.3	B2/2500		
BH	(60°-80°)	426.3	2.2	B1/500		G1/500
BVH	(80°-90°)	1.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2
2.5°	2214.9	2224.8	2232.1	2236.6	2242.0	2253.7	2257.3	2262.7	2265.4	2265.4	2271.8
5°	2127.4	2138.2	2153.5	2166.2	2191.4	2223.9	2247.4	2256.4	2272.7	2287.1	2295.2
7.5°	2046.1	2058.8	2076.8	2106.6	2149.9	2202.3	2251.0	2263.6	2295.2	2325.9	2341.3
10°	1993.8	2003.7	2027.2	2069.6	2126.5	2199.6	2268.2	2283.5	2337.7	2389.1	2418.0
12.5°	1975.7	1984.8	2009.1	2057.0	2127.4	2213.1	2307.9	2330.4	2409.9	2484.8	2525.4
15°	2001.9	2003.7	2029.9	2075.0	2144.5	2246.5	2373.8	2400.8	2501.0	2598.5	2649.0
17.5°	2103.0	2094.9	2108.4	2128.3	2183.3	2290.7	2443.3	2483.9	2617.5	2732.1	2779.9
20°	2355.7	2355.7	2325.0	2270.9	2271.8	2359.3	2537.1	2583.2	2746.5	2879.2	2922.5
22.5°	2788.0	2779.9	2718.5	2585.9	2464.0	2477.6	2651.7	2711.3	2901.8	3043.5	3057.9
25°	3307.9	3298.0	3203.2	3016.4	2805.2	2668.9	2807.0	2875.6	3086.8	3212.2	3182.5
27.5°	3858.5	3850.4	3756.5	3524.5	3224.0	2974.0	2992.0	3057.0	3275.4	3399.1	3304.3
30°	4391.9	4394.6	4301.6	4063.4	3723.1	3363.0	3226.7	3264.6	3458.6	3584.1	3448.7
32.5°	4899.1	4902.8	4822.4	4556.2	4238.5	3815.2	3551.6	3541.7	3671.7	3795.3	3640.1
35°	5351.3	5360.4	5305.3	5098.6	4762.0	4318.8	3973.1	3949.6	3974.0	4113.9	3933.4
37.5°	5787.3	5792.7	5751.2	5577.0	5295.4	4872.1	4505.6	4472.2	4419.9	4527.3	4320.6
40°	6264.7	6251.2	6203.4	6045.4	5803.5	5483.1	5077.9	5020.1	4928.9	5024.6	4829.7
42.5°	6708.8	6693.5	6701.6	6522.9	6318.9	6111.3	5744.9	5645.6	5592.3	5702.4	5454.2
45°	7263.9	7255.8	7282.8	7127.6	6962.4	6811.7	6509.3	6401.0	6377.6	6506.6	6209.7
47.5°	7811.7	7831.6	7915.5	7849.6	7782.9	7650.2	7318.9	7270.2	7284.6	7440.8	7006.6
50°	8268.4	8291.9	8522.1	8597.9	8694.5	8616.8	8284.7	8254.9	8311.8	8452.6	7864.1
52.5°	8598.8	8646.6	8932.7	9282.0	9634.0	9686.4	9355.1	9328.1	9404.8	9426.4	8526.6
55°	8828.0	8870.5	9194.5	9833.5	10550.1	10775.8	10570.0	10465.3	10450.9	10236.9	9223.4
57.5°	8868.6	8864.1	9329.9	10190.0	11268.6	11850.7	11720.8	11617.9	11321.8	10986.1	10022.1
60°	8639.4	8665.6	9206.2	10313.7	11719.9	12664.0	12673.9	12540.3	12079.1	11714.5	10796.5
62.5°	7933.6	8040.1	8586.1	9989.6	11714.5	12991.6	13372.5	13270.5	12719.0	12311.1	11581.8
65°	6789.1	6827.0	7347.8	8879.5	10922.9	12854.4	14001.6	13963.7	13295.8	12890.5	11985.2
67.5°	4957.8	4875.7	5422.6	6992.2	9247.7	12054.7	14452.8	14500.7	13740.7	13009.6	11555.6
68°	4524.6	4549.0	4975.0	6525.6	8809.1	11772.2	14482.6	14555.7	13784.9	12932.0	11320.9
70°	2696.9	2743.8	3123.8	4493.0	6701.6	10173.8	14161.3	14328.3	13521.4	12131.4	9792.0
72.5°	688.7	744.6	1103.8	2010.9	3827.8	7168.2	11954.5	12237.0	11739.7	9841.6	6610.4
75°	283.4	297.8	394.4	662.5	1426.1	3229.4	7879.4	8484.2	8138.5	5892.0	2987.5
77.5°	195.9	205.8	253.6	367.3	617.4	1094.8	3863.0	4299.8	3873.8	2010.9	651.7
80°	140.8	148.9	181.4	244.6	354.7	390.8	1259.1	1455.8	1156.2	441.4	161.6
82.5°	83.9	90.3	135.4	174.2	215.7	186.8	313.2	355.6	334.9	219.3	72.2
85°	41.5	48.7	91.2	124.6	116.4	78.5	95.7	106.5	131.8	133.6	38.8
87.5°	2.7	5.4	53.3	74.9	32.5	18.1	28.0	34.3	46.9	65.9	16.2
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2
2.5°	2274.5	2275.4	2269.1	2266.4	2268.2	2257.3	2252.8	2254.6	2254.6	2257.3	2252.8
5°	2297.0	2297.0	2286.2	2271.8	2263.6	2242.9	2229.3	2225.7	2223.0	2221.2	2217.6
7.5°	2345.8	2340.4	2321.4	2289.8	2262.7	2217.6	2183.3	2165.3	2156.2	2152.6	2149.9
10°	2424.3	2414.4	2382.8	2324.1	2261.8	2181.5	2106.6	2053.3	2009.1	1991.1	1980.2
12.5°	2529.9	2515.5	2462.2	2364.7	2255.5	2107.5	1945.0	1788.9	1643.6	1584.0	1554.2
15°	2651.7	2631.0	2547.1	2399.0	2218.5	1940.5	1587.6	1314.1	1112.9	1037.1	1004.6
17.5°	2775.4	2748.3	2621.1	2420.7	2107.5	1594.8	1113.8	841.2	706.7	670.6	658.0
20°	2900.0	2860.2	2685.1	2404.4	1856.6	1149.9	734.7	614.6	575.8	565.0	561.4
22.5°	3018.2	2956.8	2742.9	2341.3	1470.3	771.7	581.3	543.3	530.7	524.4	522.6
25°	3121.1	3035.3	2793.5	2146.3	1040.7	583.1	523.5	510.9	494.6	482.9	483.8
27.5°	3217.7	3113.9	2824.1	1825.0	694.1	498.2	484.7	467.5	437.7	420.6	420.6
30°	3334.1	3218.6	2846.7	1404.4	510.9	440.5	429.6	403.4	362.8	340.3	340.3
32.5°	3509.2	3377.4	2832.3	985.6	423.3	387.2	361.9	325.8	281.6	259.9	259.0
35°	3777.3	3622.9	2729.4	646.2	373.7	336.7	296.0	251.8	213.0	195.0	194.1
37.5°	4138.3	3951.5	2498.3	462.1	334.9	289.7	241.0	192.2	163.4	151.6	150.7
40°	4606.7	4333.2	2168.0	374.6	298.8	244.6	185.9	148.9	129.1	120.0	120.9
42.5°	5169.0	4742.1	1771.7	323.1	263.6	201.3	145.3	117.3	104.7	98.4	96.6
45°	5793.6	5145.5	1356.6	287.9	228.4	162.5	113.7	93.0	83.0	79.4	79.4
47.5°	6480.5	5538.2	992.8	257.2	190.4	125.5	91.2	75.8	67.7	65.0	64.1
50°	7104.1	5810.7	715.7	224.7	156.1	99.3	74.0	63.2	57.8	54.2	54.2
52.5°	7624.0	5896.5	527.1	189.5	126.4	79.4	61.4	54.2	48.7	46.0	46.0
55°	8081.6	5861.3	391.7	156.1	102.0	65.0	52.3	46.0	41.5	38.8	38.8
57.5°	8520.3	5747.6	292.4	127.3	82.1	52.3	44.2	38.8	34.3	32.5	32.5
60°	8878.6	5558.0	217.5	102.9	65.9	42.4	37.0	31.6	28.0	25.3	25.3
62.5°	9169.2	5348.6	159.8	84.8	52.3	33.4	28.9	26.2	20.8	18.1	18.1
65°	9171.0	5001.1	120.0	70.4	40.6	26.2	21.7	20.8	13.5	10.8	9.9
67.5°	8507.6	4311.6	92.1	60.5	31.6	19.9	16.2	17.1	7.2	4.5	3.6
68°	8266.6	4136.5	86.6	59.6	29.8	19.0	15.3	17.1	6.3	3.6	2.7
70°	6969.6	3290.8	69.5	57.8	26.2	14.4	12.6	17.1	5.4	2.7	1.8
72.5°	4457.8	1909.8	51.4	46.0	19.9	10.8	8.1	15.3	5.4	1.8	0.9
75°	1897.2	592.1	35.2	32.5	11.7	8.1	5.4	9.9	3.6	0.9	0.0
77.5°	399.8	133.6	20.8	19.9	8.1	5.4	3.6	2.7	0.9	0.0	0.0
80°	102.9	38.8	10.8	9.9	4.5	2.7	1.8	0.0	0.0	0.0	0.0
82.5°	32.5	15.3	6.3	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.2	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	2.7	0.9	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 $\text{W}^{\wedge}/\text{nm}$	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



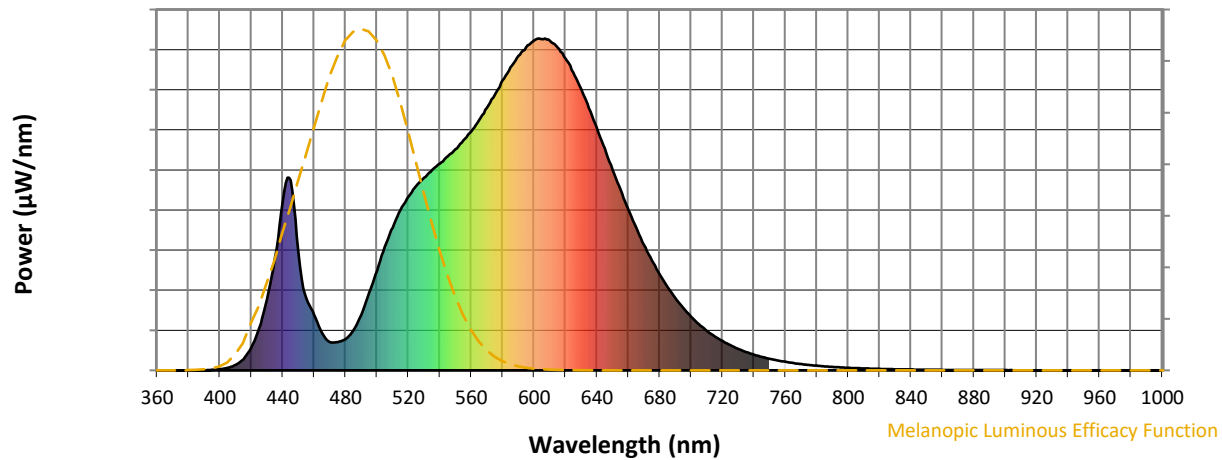
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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)