

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: P323667

Luminaire Tested: **GLEON-SA3A-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9659 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

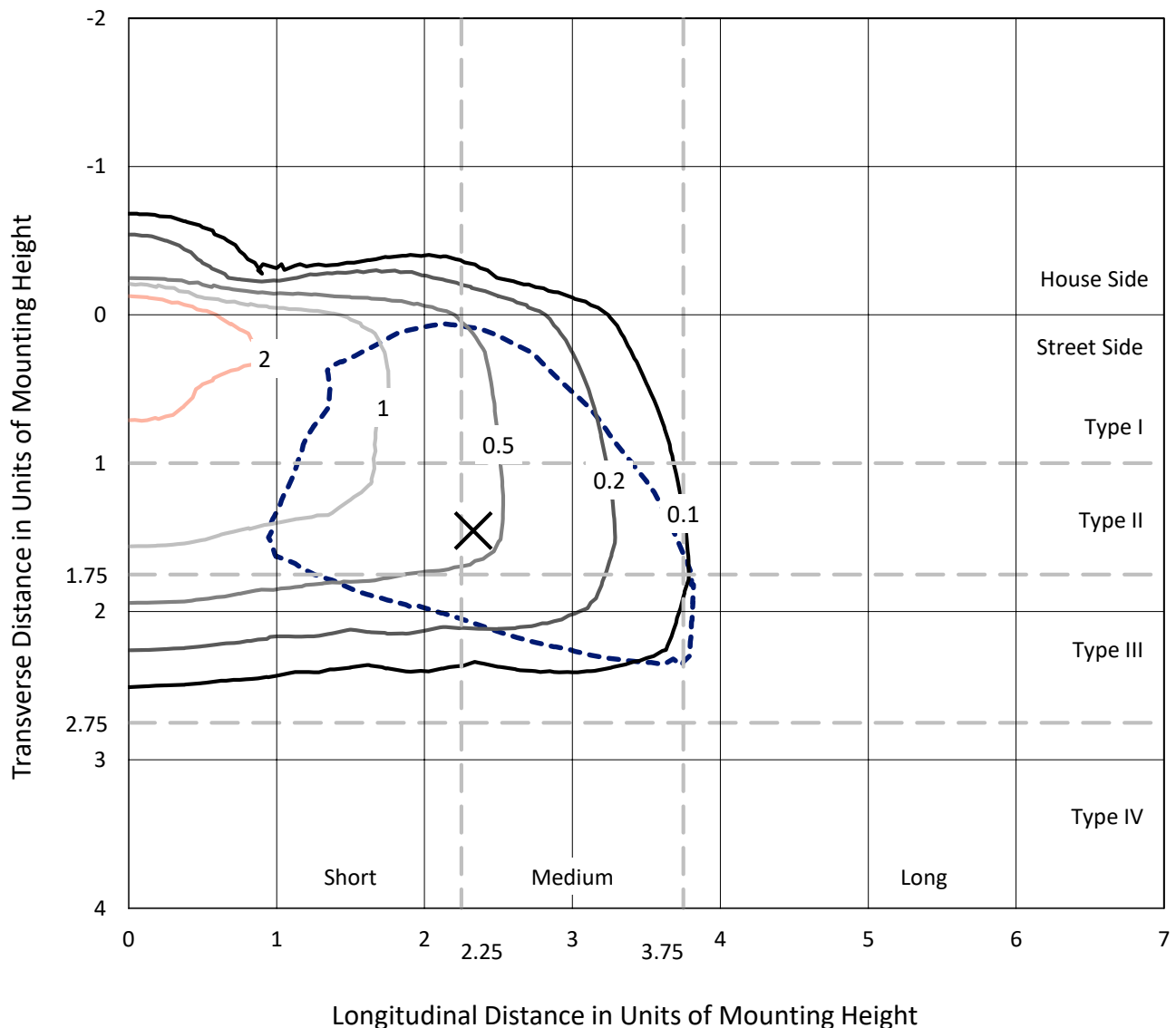
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

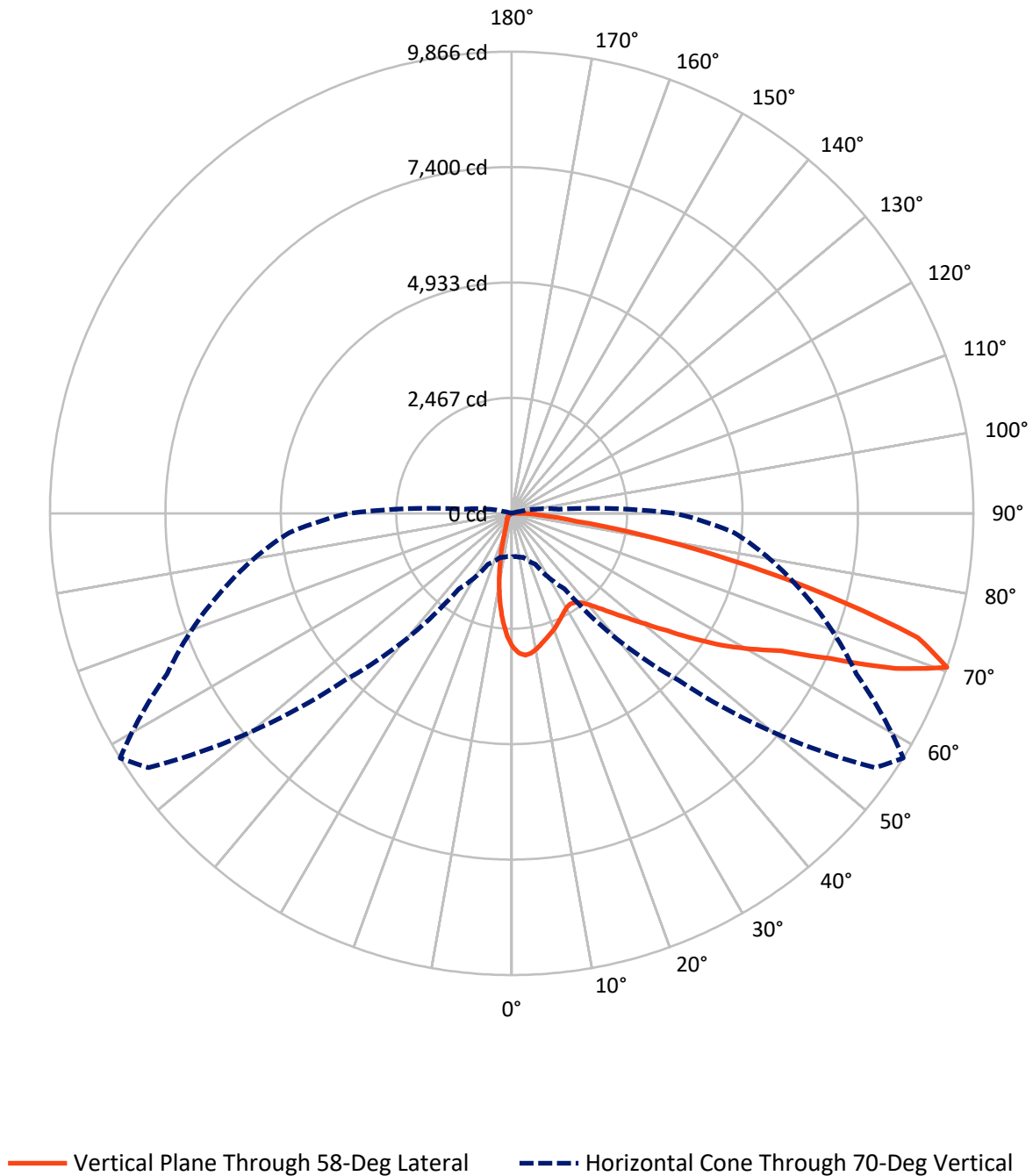
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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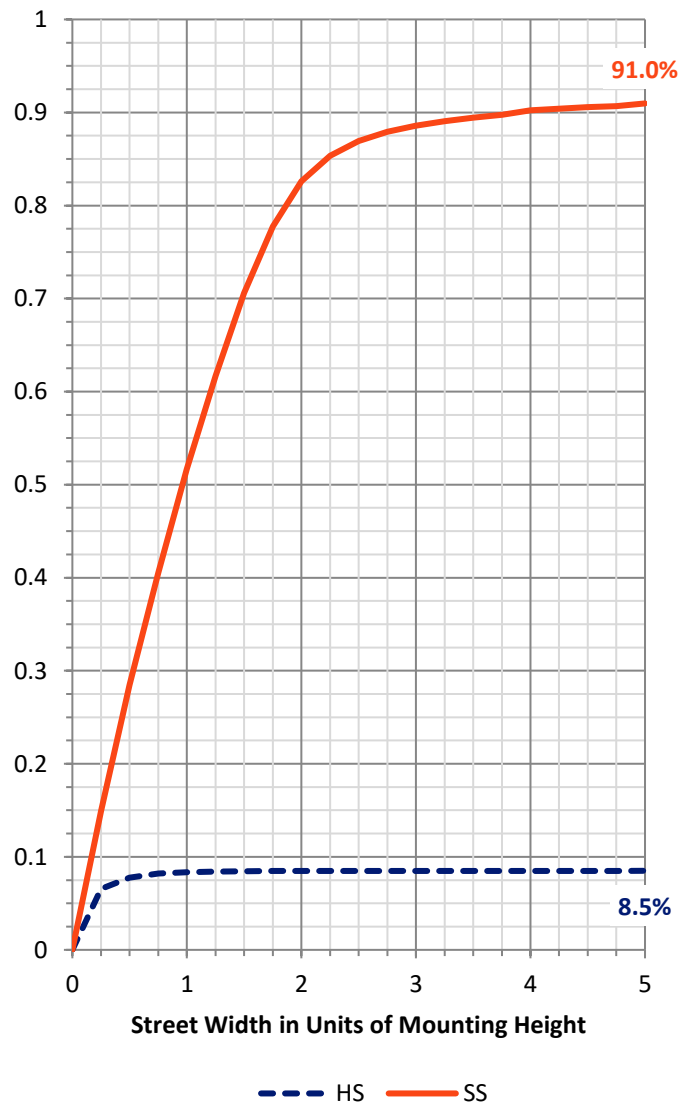
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	826.6	0.0	826.6
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	8832.4	0.0	8832.4
	% Fixture	91.4	0.0	91.4
Total	Lumens	9659.0	0.0	9659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	2.4
10°-20°	489.7	5.1
20°-30°	643.8	6.7
30°-40°	852.6	8.8
40°-50°	1274.4	13.2
50°-60°	2041.5	21.1
60°-70°	2573.3	26.6
70°-80°	1388.0	14.4
80°-90°	162.5	1.7
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°	9659.0	100.0
0°-180°	9659.0	100.0

Coefficient of Utilization



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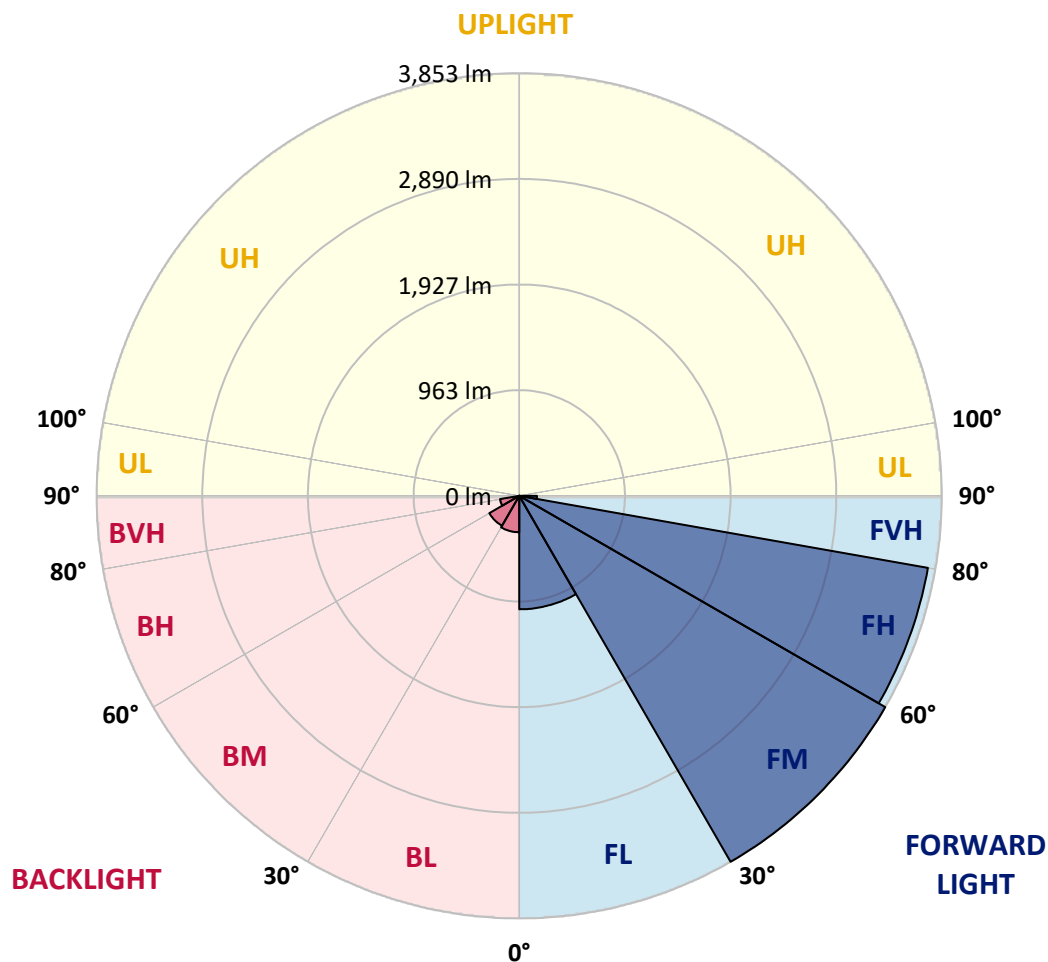
CATALOG NUMBER: GLEON-SA3A-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.7	10.7			
FM	(30°-60°)	3853.1	39.9			
FH	(60°-80°)	3783.5	39.2			G2/5000
FVH	(80°-90°)	161.1	1.7			G2/225
BL	(0°-30°)	332.1	3.4	B1/500		
BM	(30°-60°)	315.3	3.3	B1/1000		
BH	(60°-80°)	177.8	1.8	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: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2
2.5°	3089.8	3082.2	3079.3	3074.5	3056.0	3038.0	3002.2	2992.2	2969.7	2916.3	2859.6
5°	3092.2	3091.8	3100.2	3098.2	3091.8	3083.4	3057.7	3044.4	3006.2	2929.9	2826.3
7.5°	2943.2	2950.8	2969.7	2985.0	3002.6	3025.5	3028.7	3015.9	2984.6	2902.2	2764.9
10°	2743.2	2755.2	2781.7	2811.9	2858.0	2903.8	2944.8	2943.2	2932.3	2851.2	2691.0
12.5°	2542.8	2556.8	2587.3	2631.9	2697.4	2772.1	2845.2	2855.2	2873.3	2805.4	2622.7
15°	2367.2	2379.3	2409.4	2464.0	2545.2	2645.6	2752.8	2771.3	2817.9	2769.7	2565.7
17.5°	2218.2	2225.9	2248.0	2308.6	2402.6	2524.3	2663.7	2699.8	2769.3	2741.6	2516.3
20°	2114.2	2115.4	2129.9	2172.4	2266.4	2402.6	2571.3	2623.1	2717.9	2717.5	2465.2
22.5°	2062.8	2058.8	2061.6	2086.1	2155.2	2286.5	2478.9	2540.3	2671.7	2697.0	2413.4
25°	2053.2	2050.0	2041.9	2045.1	2086.9	2184.9	2385.7	2456.8	2631.1	2684.5	2368.4
27.5°	2083.3	2086.5	2072.8	2058.4	2061.6	2119.0	2303.0	2385.3	2598.2	2684.5	2336.7
30°	2143.9	2145.5	2135.5	2116.6	2091.3	2100.6	2245.5	2327.9	2581.7	2703.0	2316.6
32.5°	2211.0	2219.8	2218.6	2203.4	2167.2	2129.9	2231.9	2307.0	2580.5	2744.0	2314.6
35°	2294.1	2304.2	2321.1	2317.8	2280.1	2218.6	2278.5	2337.5	2604.2	2811.5	2336.3
37.5°	2382.5	2397.8	2433.9	2451.2	2426.7	2357.2	2382.9	2425.1	2667.7	2920.7	2391.3
40°	2468.1	2485.3	2551.2	2619.1	2600.6	2529.1	2541.2	2574.9	2780.5	3077.7	2495.8
42.5°	2552.0	2577.7	2674.5	2786.1	2808.2	2751.2	2757.6	2784.5	2948.0	3293.8	2666.5
45°	2652.4	2681.3	2824.7	2962.5	3021.5	2996.6	3023.9	3041.6	3166.9	3579.4	2896.6
47.5°	2799.8	2833.1	3009.1	3166.1	3269.7	3285.8	3340.8	3352.5	3443.6	3911.9	3196.6
50°	3087.4	3096.6	3255.7	3398.2	3547.7	3644.0	3706.7	3715.5	3778.6	4275.4	3571.3
52.5°	3449.3	3455.3	3545.2	3640.8	3810.7	4007.5	4154.1	4166.6	4179.8	4629.7	3941.3
55°	3808.7	3807.9	3867.4	3923.6	4118.0	4403.9	4722.0	4729.7	4634.5	4965.8	4224.0
57.5°	4033.2	4054.9	4145.3	4217.6	4489.1	4855.8	5297.2	5325.3	5112.0	5214.8	4503.5
60°	3961.7	3972.2	4172.6	4440.1	4951.4	5498.0	5879.1	5886.4	5471.1	5463.5	4857.0
62.5°	3375.3	3381.0	3695.9	4247.3	5185.5	6331.0	6581.2	6463.5	5884.0	5808.5	5279.9
65°	2313.4	2350.0	2613.0	3294.6	4755.4	6853.5	7668.0	7473.2	6513.3	6305.7	5662.3
67.5°	1362.3	1354.7	1484.8	1986.9	3492.6	6506.5	9042.8	8849.2	7371.6	6638.6	5550.2
70°	930.6	925.4	975.2	1202.9	1971.6	5047.4	9475.4	9866.2	8129.5	6414.5	4776.7
72.5°	664.3	667.1	740.6	934.6	1237.8	2940.8	8148.4	9073.4	7892.1	5592.0	3630.8
75°	451.0	458.7	563.9	766.7	1085.2	1496.1	5782.4	6897.3	6426.6	4064.2	2086.9
77.5°	242.6	251.0	375.1	617.7	981.2	1039.4	3719.6	4746.9	4036.8	1827.0	604.9
80°	101.2	106.0	175.5	449.0	847.9	912.9	2188.5	2878.5	1720.2	360.3	134.9
82.5°	43.8	46.2	73.1	267.9	633.8	770.7	1158.7	1384.8	521.3	79.1	67.9
85°	8.4	8.8	30.1	141.8	404.4	435.0	751.1	736.2	234.2	34.1	49.4
87.5°	0.0	0.0	7.2	44.6	118.9	237.0	458.3	452.6	79.5	16.5	18.5
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-SA3A-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2	2853.2
2.5°	2830.7	2803.0	2744.8	2672.9	2617.9	2557.2	2509.0	2448.0	2421.5	2422.7	2408.2
5°	2767.3	2710.2	2581.3	2418.7	2293.3	2164.0	2052.8	1941.9	1876.4	1855.2	1835.1
7.5°	2676.5	2586.1	2380.5	2129.9	1917.8	1710.6	1530.2	1371.6	1271.2	1222.2	1204.1
10°	2574.1	2447.2	2149.6	1819.4	1516.6	1236.2	1002.5	799.3	718.1	663.1	649.0
12.5°	2484.1	2312.2	1923.8	1500.9	1141.4	803.3	580.4	453.8	398.8	377.1	373.5
15°	2399.4	2186.1	1706.6	1212.5	790.4	494.4	369.1	326.1	313.3	309.7	309.7
17.5°	2319.4	2066.0	1494.1	928.6	522.9	346.6	305.6	296.0	292.0	291.6	292.0
20°	2235.9	1945.9	1285.2	680.4	365.1	293.6	282.4	277.1	275.9	275.9	275.9
22.5°	2156.0	1825.8	1082.0	486.0	292.8	267.9	262.3	258.7	257.4	257.0	256.2
25°	2079.3	1711.8	883.6	343.4	257.0	245.4	240.6	235.8	232.1	230.1	228.9
27.5°	2016.2	1610.2	698.8	275.5	232.1	222.1	216.1	208.9	200.0	196.0	194.4
30°	1966.0	1517.4	538.6	232.5	208.9	198.8	189.6	177.1	164.3	157.4	157.0
32.5°	1926.6	1426.2	408.9	205.6	188.0	175.5	162.3	146.6	131.7	124.1	123.7
35°	1907.4	1345.9	312.5	186.0	169.5	153.8	137.4	120.1	105.6	98.4	97.6
37.5°	1920.2	1278.0	243.8	169.5	153.8	135.8	116.5	98.4	85.5	79.1	78.7
40°	1967.2	1234.6	198.0	155.4	140.6	118.5	97.6	80.7	69.9	64.7	64.3
42.5°	2067.2	1218.6	169.1	143.8	127.7	102.4	81.1	66.7	56.6	53.0	52.2
45°	2234.3	1242.3	149.4	132.5	114.5	87.2	67.1	54.6	45.8	43.0	42.6
47.5°	2456.8	1304.5	135.4	121.7	102.4	73.5	55.8	44.2	37.4	34.5	34.1
50°	2743.6	1403.3	123.7	110.9	91.2	62.3	46.2	34.9	28.9	26.9	26.9
52.5°	3055.6	1521.0	113.3	100.8	79.9	51.8	37.4	26.9	22.9	20.5	20.5
55°	3313.5	1623.8	102.0	93.2	66.3	43.0	28.5	20.5	16.9	15.7	15.7
57.5°	3570.9	1733.5	89.2	79.9	53.0	34.9	21.7	15.3	12.5	11.6	11.6
60°	3904.7	1867.6	76.7	65.1	41.8	26.5	16.1	10.8	9.2	8.8	8.8
62.5°	4271.8	1946.3	65.5	52.2	32.5	19.7	11.6	7.2	6.8	6.8	6.4
65°	4496.3	1835.1	55.0	41.8	25.3	14.9	7.6	5.2	6.0	5.6	4.8
67.5°	4209.9	1436.7	45.0	32.5	19.7	11.2	4.8	3.6	6.4	5.2	4.0
70°	3485.8	1005.7	34.9	22.9	15.7	9.6	3.2	2.4	6.8	5.2	3.2
72.5°	2608.6	673.1	27.7	15.3	11.6	8.4	2.8	1.2	6.0	4.4	2.8
75°	1425.4	271.1	22.1	9.6	7.2	6.0	2.0	0.8	4.0	3.2	2.0
77.5°	375.1	71.5	16.1	6.4	4.0	2.4	1.2	0.4	2.0	1.6	0.8
80°	95.6	27.7	10.4	4.4	2.8	1.2	0.0	0.0	0.4	0.0	0.0
82.5°	51.0	11.6	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.6	7.6	3.6	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	2.4	1.2	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 [^] /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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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)