

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: P323357

Luminaire Tested: **GLEON-SA3B-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11483 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

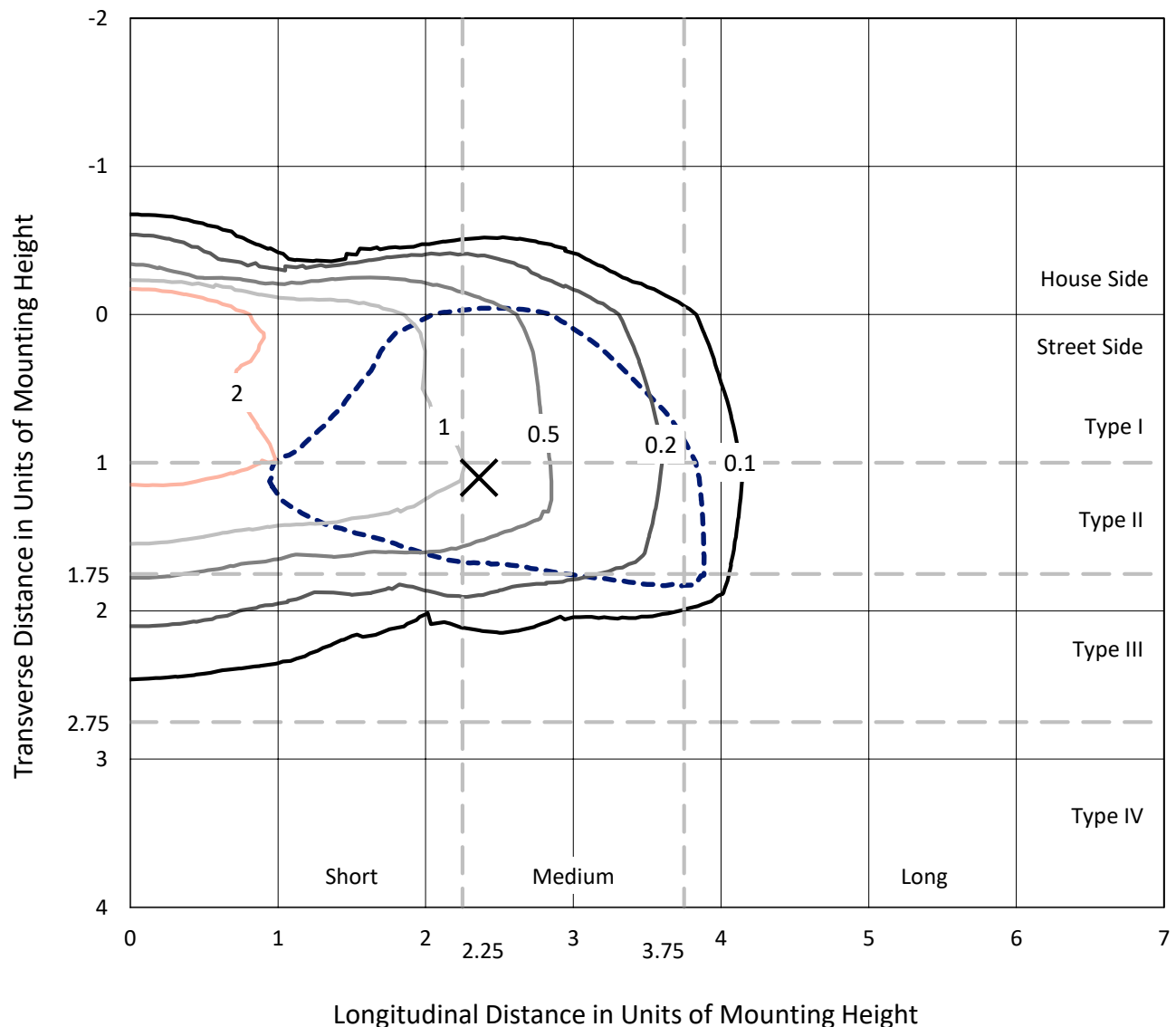
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

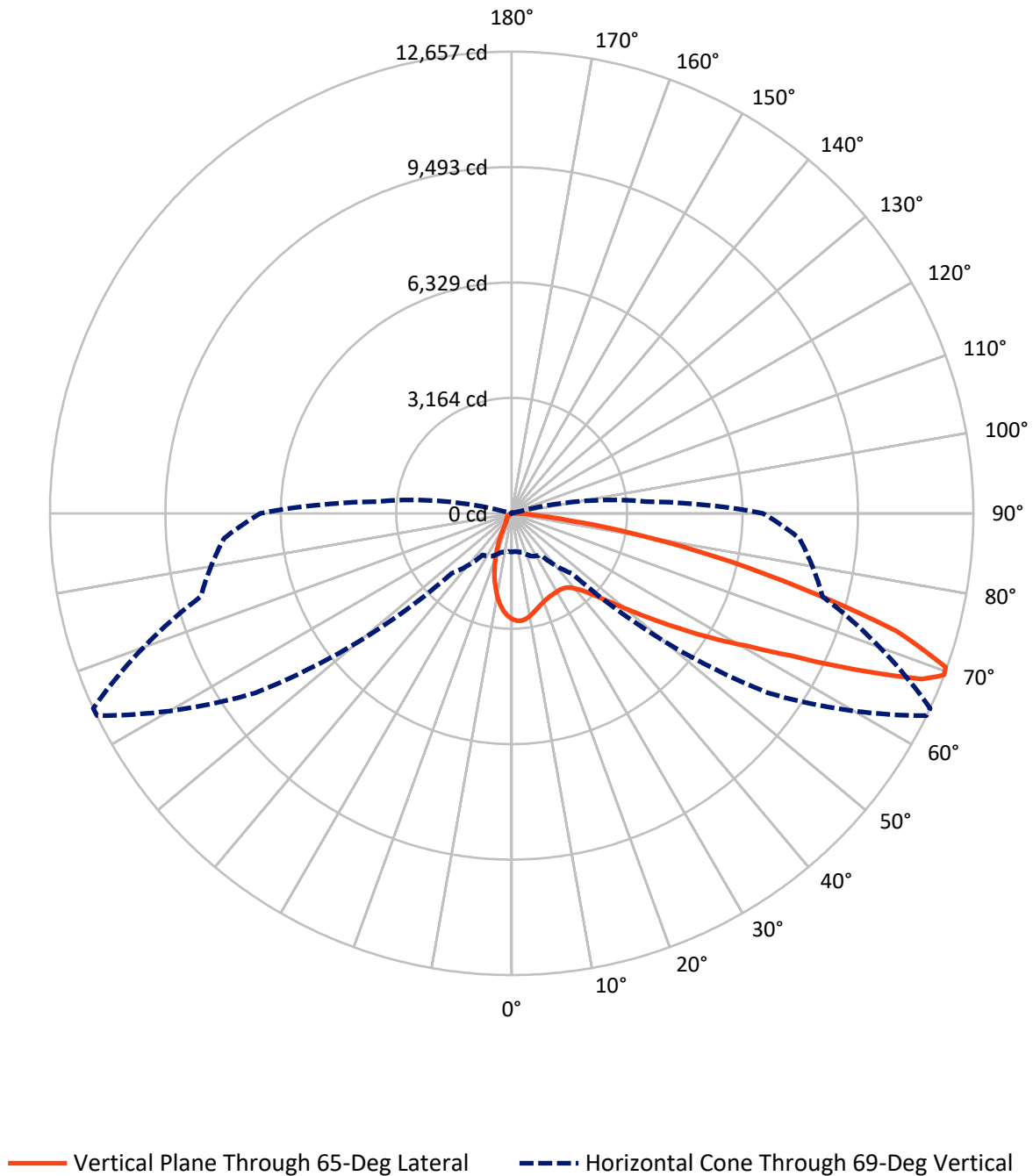
✕ Max cd
 - - - 1/2 Max cd



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	1353.6	0.0	1353.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10129.4	0.0	10129.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	11483.0	0.0	11483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	2.1
10°-20°	531.2	4.6
20°-30°	735.7	6.4
30°-40°	1025.8	8.9
40°-50°	1594.4	13.9
50°-60°	2559.6	22.3
60°-70°	2895.4	25.2
70°-80°	1700.5	14.8
80°-90°	197.8	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°	11483.0	100.0
0°-180°	11483.0	100.0

Coefficient of Utilization



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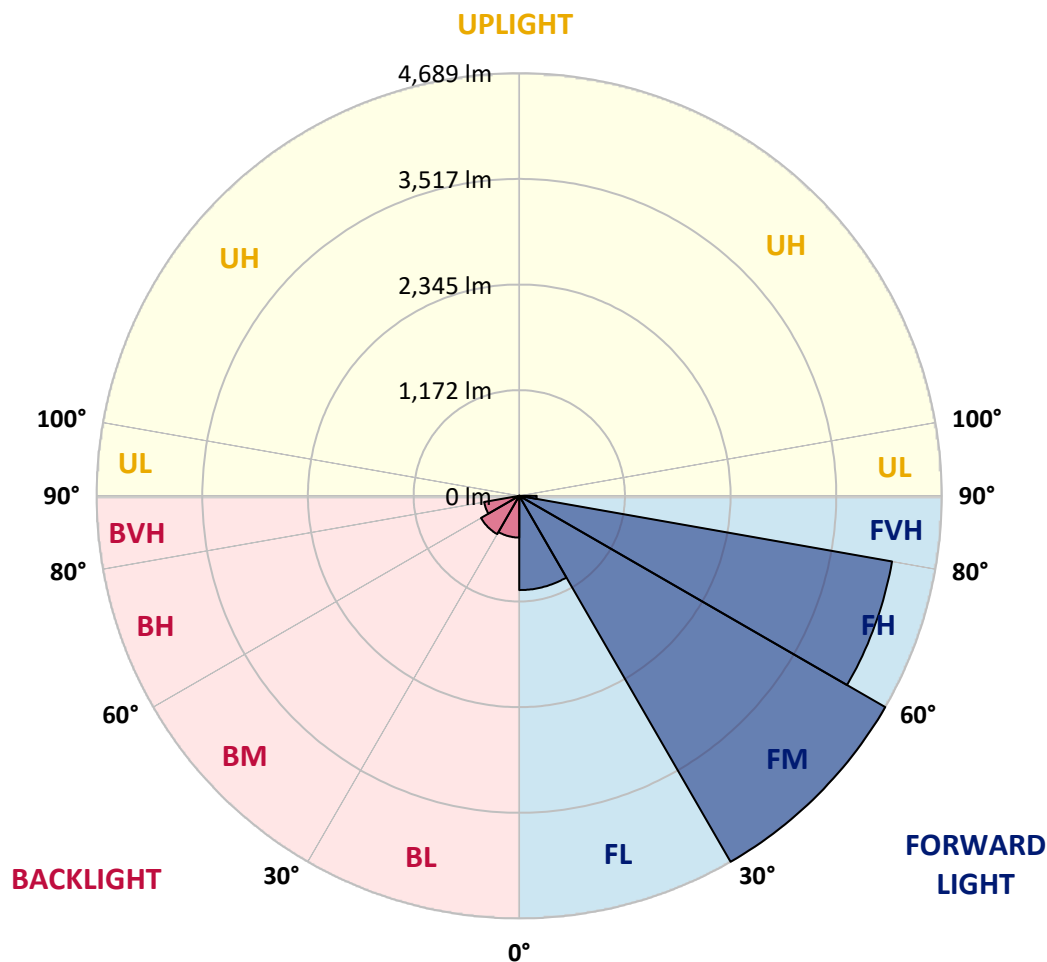
CATALOG NUMBER: GLEON-SA3B-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1046.4	9.1			
FM	(30°-60°)	4689.3	40.8			
FH	(60°-80°)	4200.4	36.6			G2/5000
FVH	(80°-90°)	193.4	1.7			G2/225
BL	(0°-30°)	463.1	4.0	B1/500		
BM	(30°-60°)	490.5	4.3	B1/1000		
BH	(60°-80°)	395.5	3.4	B1/500		G1/500
BVH	(80°-90°)	4.5	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8
2.5°	2927.5	2920.2	2926.1	2938.7	2945.0	2945.0	2949.9	2944.0	2946.0	2931.9	2911.5
5°	2744.3	2733.2	2749.2	2784.7	2828.4	2865.8	2921.2	2950.4	2953.3	2953.8	2930.0
7.5°	2547.1	2536.9	2560.7	2602.5	2658.8	2728.3	2825.0	2909.5	2914.4	2960.1	2942.6
10°	2386.7	2379.4	2407.1	2451.8	2517.9	2595.7	2714.2	2831.8	2845.9	2947.0	2940.6
12.5°	2259.4	2253.6	2279.8	2331.3	2398.9	2484.9	2608.8	2745.3	2764.3	2917.3	2930.9
15°	2166.6	2165.6	2187.5	2237.1	2311.9	2392.1	2518.9	2665.1	2687.0	2885.3	2929.5
17.5°	2118.0	2119.5	2135.5	2177.8	2241.9	2321.6	2443.1	2597.6	2621.4	2856.6	2936.8
20°	2113.2	2114.6	2123.4	2147.2	2199.2	2269.6	2381.4	2540.8	2565.5	2835.2	2948.4
22.5°	2155.9	2155.0	2157.4	2155.0	2184.1	2237.6	2340.6	2497.0	2525.7	2821.1	2957.7
25°	2238.0	2236.6	2235.6	2217.6	2198.2	2226.9	2323.6	2472.2	2499.5	2810.9	2963.0
27.5°	2352.2	2351.3	2349.8	2320.2	2261.8	2243.9	2325.5	2463.0	2485.8	2802.7	2962.0
30°	2502.4	2509.2	2507.2	2465.9	2375.1	2295.9	2345.9	2458.2	2478.1	2786.6	2951.8
32.5°	2678.7	2692.4	2703.0	2658.8	2545.1	2398.9	2393.0	2463.5	2478.1	2774.5	2933.4
35°	2861.9	2879.4	2918.8	2903.2	2753.6	2553.9	2474.2	2495.6	2507.7	2781.3	2924.6
37.5°	3042.2	3063.1	3148.6	3193.8	3026.6	2758.9	2600.5	2574.8	2581.1	2822.6	2934.3
40°	3251.6	3283.2	3412.9	3485.8	3352.7	3033.5	2789.5	2710.8	2713.2	2913.4	2979.5
42.5°	3526.6	3559.2	3699.6	3813.8	3720.0	3380.4	3046.1	2918.8	2916.4	3083.5	3085.9
45°	3861.9	3895.9	4041.2	4168.0	4125.7	3791.5	3374.6	3222.5	3219.6	3351.7	3287.6
47.5°	4241.9	4275.4	4405.1	4535.8	4581.5	4271.5	3792.9	3636.9	3630.1	3724.4	3599.0
50°	4567.9	4589.8	4709.3	4885.2	5091.2	4861.4	4313.3	4163.2	4155.9	4219.5	4056.3
52.5°	4686.5	4699.1	4820.6	5066.9	5581.0	5660.2	4997.0	4803.6	4798.2	4825.9	4665.1
55°	4446.4	4469.3	4618.4	4983.8	5846.3	6563.0	5859.9	5596.6	5556.2	5496.5	5301.6
57.5°	3792.4	3828.9	3989.2	4475.1	5722.4	7279.2	7128.1	6493.5	6434.2	6068.8	5819.1
60°	2841.5	2886.2	3019.4	3543.6	5061.1	7534.3	8513.9	7493.0	7359.4	6524.6	6294.8
62.5°	1949.9	1972.3	2062.6	2404.2	3727.3	7116.4	9673.2	8831.7	8587.7	7020.2	6809.4
65°	1489.3	1497.0	1534.0	1651.6	2219.6	5780.7	10134.3	10597.9	10303.0	7613.0	7343.4
67.5°	1200.2	1193.8	1244.9	1413.0	1486.4	3526.6	9596.5	12268.9	12130.9	8405.5	7880.8
69°	1058.3	1049.5	1101.5	1296.9	1396.0	2331.3	8579.0	12648.4	12657.1	8823.9	7917.7
70°	952.4	958.2	1009.7	1227.9	1365.4	1829.9	7607.2	12551.7	12620.7	8980.3	7696.1
72.5°	636.0	651.6	755.1	1019.4	1312.9	1384.8	4593.2	10770.9	11036.2	8628.1	6602.8
75°	358.6	370.3	493.2	768.7	1237.1	1318.7	2426.1	7935.2	8191.7	7215.1	5091.7
77.5°	175.9	182.2	278.9	496.1	1034.5	1256.5	1376.1	5390.1	5683.0	4709.3	2879.9
80°	74.3	77.7	139.5	306.1	739.5	1199.2	1021.8	3317.2	3353.7	1844.9	767.2
82.5°	28.7	29.6	58.8	191.0	469.9	934.9	854.7	1572.8	1534.9	347.4	174.9
85°	3.4	3.9	21.4	114.7	261.4	481.0	694.3	677.8	627.3	69.0	89.9
87.5°	0.0	0.0	1.5	35.0	77.7	225.5	361.0	281.3	253.6	22.4	46.6
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-SA3B-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8	2901.8
2.5°	2894.5	2889.6	2863.4	2825.5	2789.5	2744.8	2702.1	2676.3	2655.9	2642.3	2658.3
5°	2902.3	2880.9	2801.2	2699.2	2599.1	2486.3	2381.4	2292.5	2257.5	2218.6	2236.1
7.5°	2899.8	2859.5	2716.2	2534.4	2350.8	2160.8	1981.0	1842.5	1770.6	1700.2	1718.1
10°	2887.7	2819.7	2602.5	2333.3	2058.3	1785.2	1530.1	1336.2	1227.9	1129.7	1143.8
12.5°	2861.0	2766.2	2468.4	2103.0	1735.1	1375.1	1076.3	828.0	694.8	636.0	643.3
15°	2844.9	2714.2	2326.5	1869.7	1390.2	957.7	657.9	489.3	428.6	409.1	411.6
17.5°	2837.1	2664.2	2179.7	1603.0	1037.4	609.8	425.2	375.1	362.0	358.6	359.6
20°	2829.4	2613.6	2028.6	1339.1	714.8	410.1	349.4	334.8	329.9	325.6	326.5
22.5°	2816.3	2565.0	1866.3	1071.9	482.0	332.8	314.9	300.8	290.6	285.2	286.2
25°	2800.2	2514.0	1700.6	798.3	351.8	296.9	279.9	260.0	247.8	238.1	238.6
27.5°	2774.5	2451.3	1529.6	581.1	295.4	265.8	242.9	221.1	200.7	189.5	189.5
30°	2738.5	2380.4	1339.6	415.9	264.8	235.2	207.5	180.3	158.4	148.2	147.2
32.5°	2698.7	2306.6	1147.7	315.3	240.5	206.5	174.9	146.3	126.8	118.6	118.1
35°	2664.7	2226.9	956.2	264.3	216.2	178.8	144.3	120.0	104.5	97.7	97.2
37.5°	2642.8	2147.2	769.7	236.1	194.4	153.1	121.0	99.1	87.9	82.6	82.1
40°	2639.4	2087.9	599.1	214.8	174.0	130.2	101.1	84.1	73.9	68.0	67.5
42.5°	2683.6	2053.9	459.7	196.8	153.1	110.3	86.0	71.9	61.2	55.4	54.9
45°	2799.7	2064.6	353.7	180.8	132.2	93.3	72.9	59.8	50.0	45.7	44.7
47.5°	3011.6	2138.4	281.3	164.7	112.2	79.2	62.2	49.6	41.3	36.9	36.4
50°	3388.6	2311.9	235.2	147.2	93.8	67.5	51.5	40.3	33.5	29.6	29.2
52.5°	3889.1	2620.9	209.9	130.2	77.7	57.3	42.3	32.1	26.2	23.3	22.8
55°	4441.1	2995.1	193.4	111.8	63.7	47.6	33.5	25.3	20.4	18.0	17.0
57.5°	4980.0	3319.2	177.8	93.8	53.0	38.9	26.7	19.9	16.0	13.6	13.1
60°	5475.1	3617.0	159.9	75.3	43.2	30.6	20.9	15.5	12.6	10.2	10.2
62.5°	6005.2	3847.3	135.1	58.8	35.5	23.3	17.0	14.1	10.2	8.7	8.3
65°	6566.9	4018.4	105.9	45.7	27.7	17.5	14.1	14.6	8.3	6.3	5.8
67.5°	6981.8	3984.4	78.2	36.0	21.4	13.6	13.6	15.5	7.3	4.9	4.4
69°	6890.5	3707.9	65.6	31.1	18.5	11.7	12.6	15.5	6.8	4.4	3.9
70°	6625.7	3401.8	57.8	27.7	16.5	10.7	12.1	15.1	6.3	4.4	3.9
72.5°	5517.8	2562.1	45.2	20.9	13.1	8.7	10.2	13.1	6.3	4.4	3.4
75°	4150.5	1639.9	34.5	15.1	9.7	6.8	7.8	9.7	6.3	3.9	3.4
77.5°	2258.4	591.3	24.8	10.2	6.8	5.3	5.3	7.3	5.8	2.9	1.9
80°	580.6	148.7	15.5	6.8	5.3	3.9	3.4	4.9	3.4	0.5	0.0
82.5°	143.3	33.5	8.3	4.9	3.9	1.5	1.5	2.4	1.5	0.0	0.0
85°	78.7	16.5	5.3	3.4	1.9	0.0	0.0	0.5	0.0	0.0	0.0
87.5°	40.3	4.9	1.5	1.0	0.5	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)