

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: P320149

Luminaire Tested: **GLEON-SA5A-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17587 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

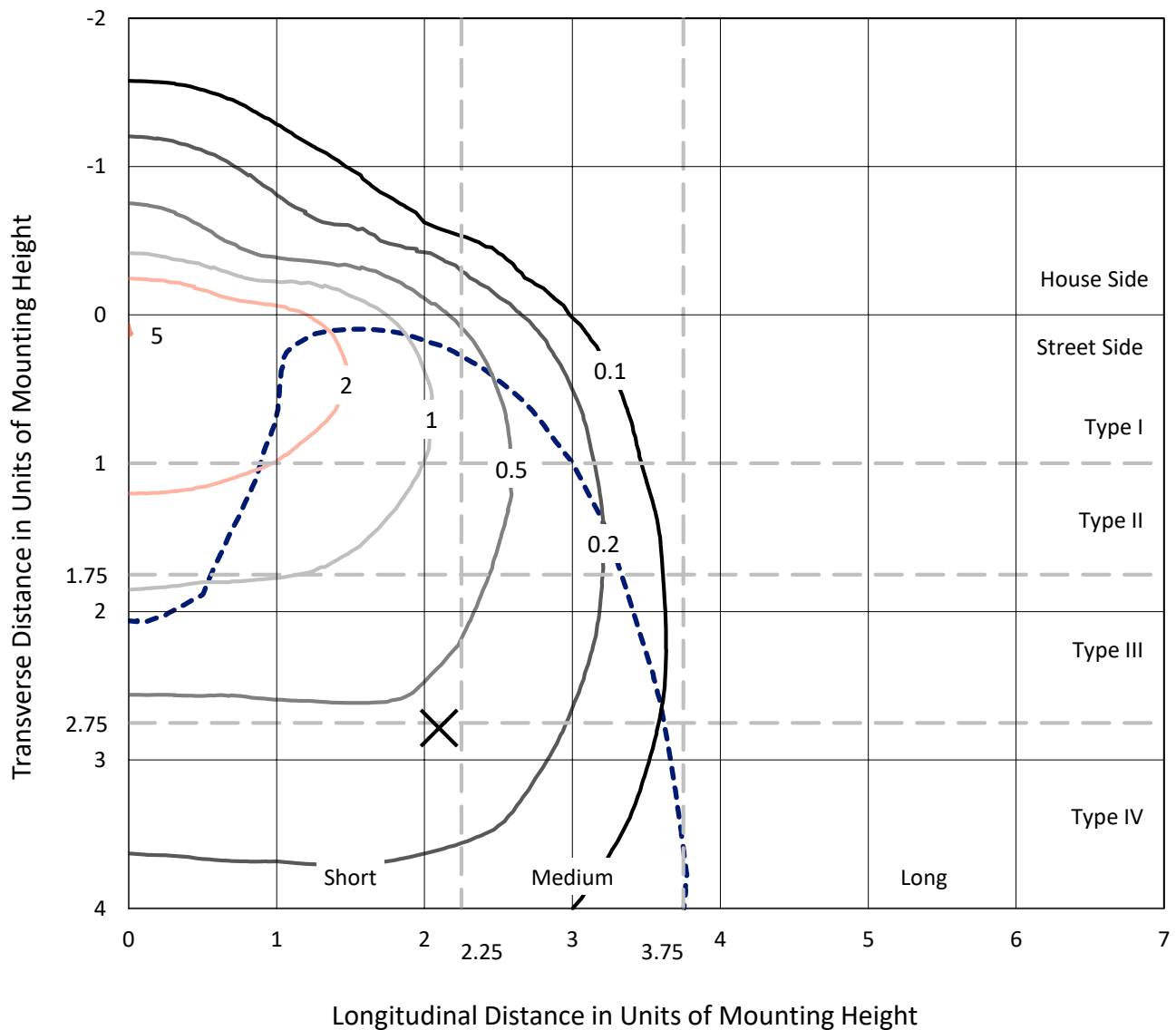
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

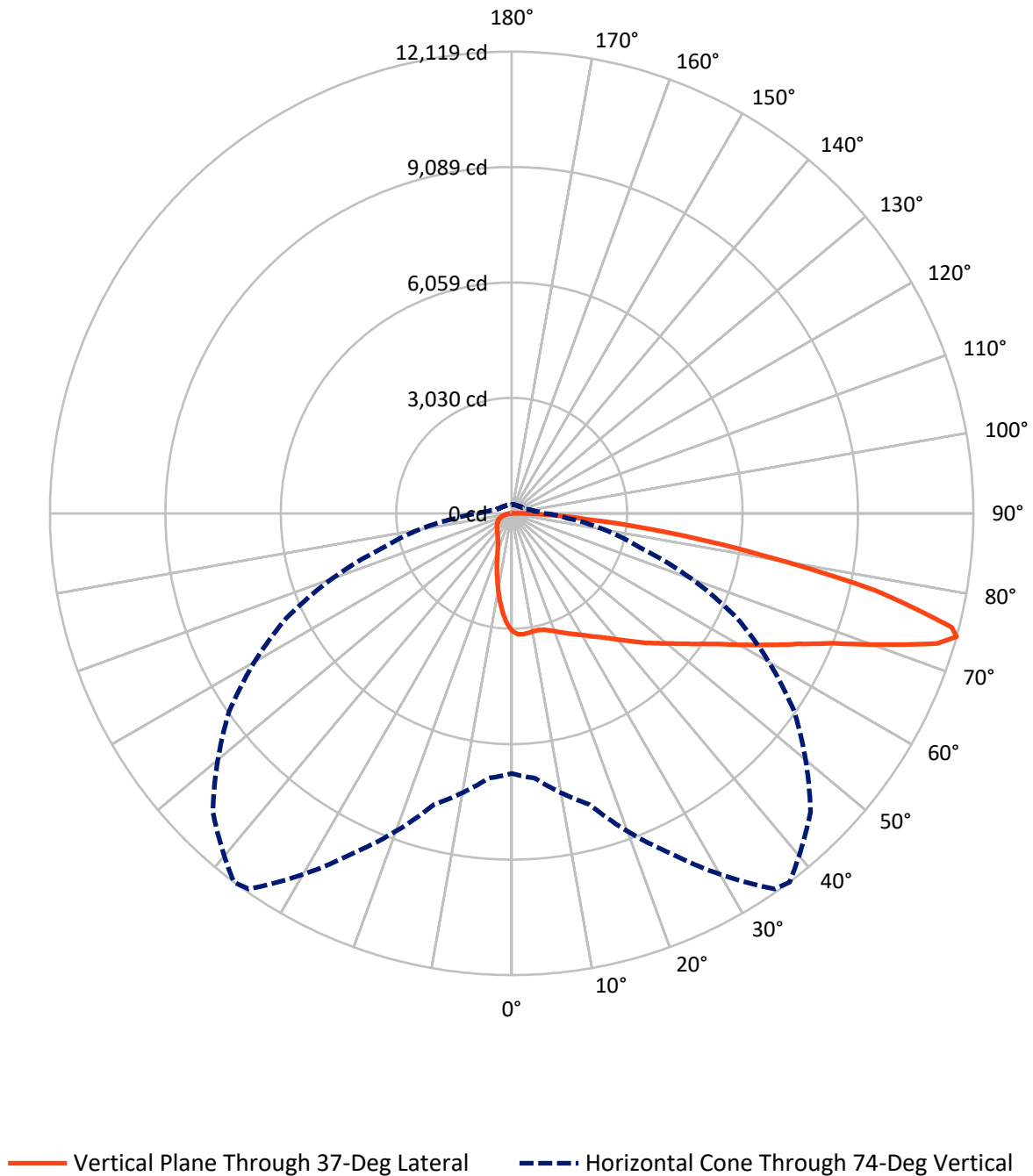
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA5A-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2419.8	0.0	2419.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	15167.1	0.0	15167.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	17587.0	0.0	17587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	1.6
10°-20°	699.5	4.0
20°-30°	1077.7	6.1
30°-40°	1567.2	8.9
40°-50°	2306.6	13.1
50°-60°	3239.3	18.4
60°-70°	4099.9	23.3
70°-80°	3610.1	20.5
80°-90°	713.8	4.1
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°	17587.0	100.0
0°-180°	17587.0	100.0

Coefficient of Utilization



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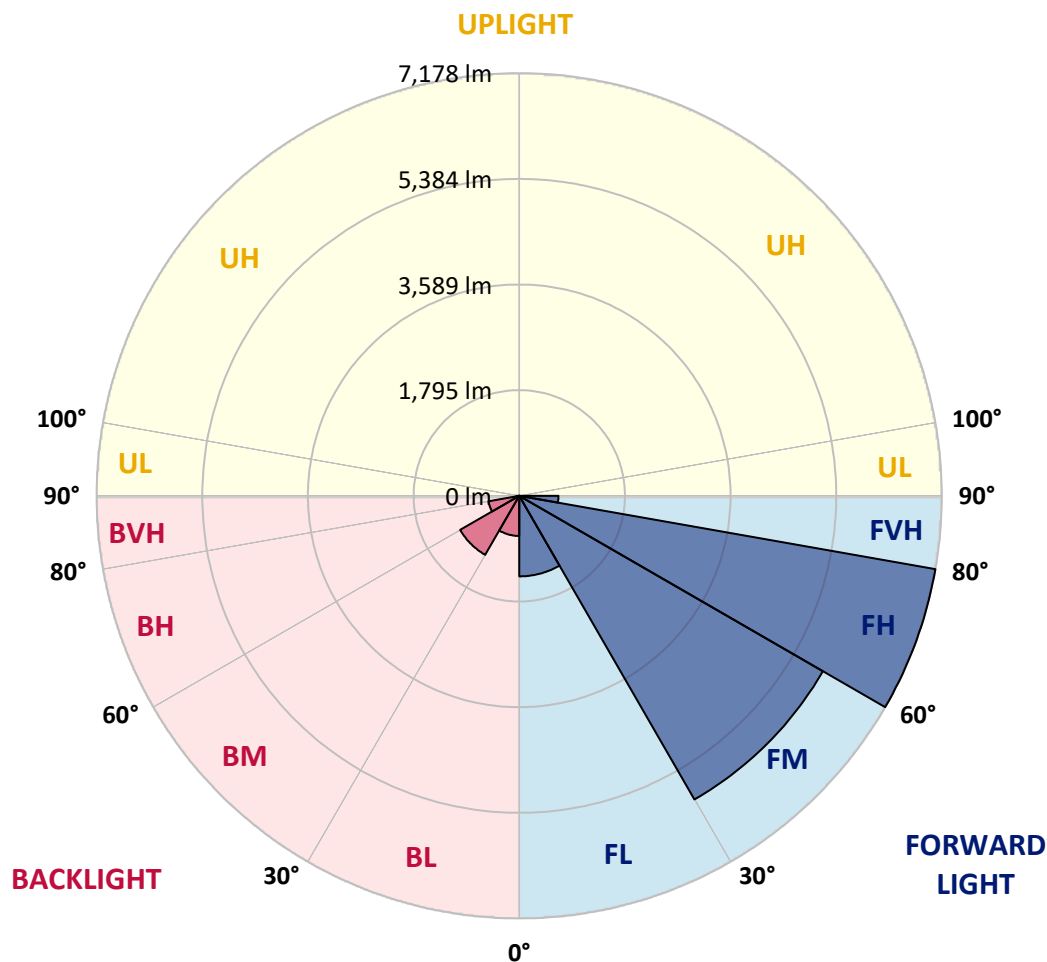
CATALOG NUMBER: GLEON-SA5A-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1368.5	7.8			
FM	(30°-60°)	5955.1	33.9			
FH	(60°-80°)	7178.1	40.8			G3/7500
FVH	(80°-90°)	665.5	3.8			G4/750
BL	(0°-30°)	681.6	3.9	B2/1000		
BM	(30°-60°)	1158.0	6.6	B2/2500		
BH	(60°-80°)	531.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	48.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8
2.5°	3204.7	3205.3	3204.7	3199.7	3188.0	3178.1	3170.0	3158.2	3132.2	3112.4	3082.7
5°	3235.1	3231.3	3228.9	3219.6	3201.0	3189.8	3174.3	3152.0	3109.3	3069.6	3021.3
7.5°	3220.8	3216.5	3210.9	3199.7	3178.7	3169.4	3147.7	3118.6	3067.2	3015.1	2945.7
10°	3176.8	3175.6	3173.1	3170.6	3152.7	3145.2	3125.4	3094.4	3043.6	2980.4	2899.3
12.5°	3127.9	3131.0	3140.9	3153.9	3145.8	3142.1	3129.7	3108.7	3056.6	2988.5	2890.6
15°	3096.9	3105.6	3132.2	3166.3	3173.1	3171.9	3168.8	3155.1	3100.0	3024.4	2910.4
17.5°	3086.4	3100.6	3151.4	3207.8	3227.6	3232.0	3233.2	3209.7	3148.3	3068.4	2930.9
20°	3105.6	3123.5	3197.9	3275.3	3306.9	3309.4	3303.8	3262.9	3194.2	3106.2	2942.0
22.5°	3163.8	3179.9	3272.8	3360.2	3396.1	3399.8	3383.1	3321.2	3242.5	3150.8	2957.5
25°	3275.9	3295.8	3388.7	3476.0	3494.6	3495.2	3471.1	3394.3	3305.7	3213.4	2991.0
27.5°	3422.1	3442.0	3525.6	3611.1	3601.2	3595.6	3562.8	3486.0	3388.1	3299.5	3050.4
30°	3585.1	3606.8	3686.1	3746.8	3723.2	3712.1	3685.4	3586.3	3502.7	3417.2	3141.5
32.5°	3753.6	3773.4	3842.8	3884.3	3854.6	3849.6	3809.3	3718.9	3652.0	3596.8	3288.9
35°	3926.4	3940.7	4008.8	4032.4	3992.7	3991.5	3980.3	3897.3	3855.2	3881.2	3503.3
37.5°	4103.0	4106.7	4164.9	4166.2	4154.4	4159.4	4171.1	4119.1	4130.9	4212.0	3782.1
40°	4260.3	4270.2	4312.4	4325.4	4345.8	4363.2	4422.0	4387.9	4479.0	4622.7	4129.0
42.5°	4376.8	4396.0	4463.5	4497.0	4563.3	4590.5	4673.5	4705.1	4888.5	5104.1	4541.6
45°	4475.3	4505.0	4613.4	4682.2	4794.3	4842.0	4961.0	5066.9	5351.3	5626.3	4975.9
47.5°	4581.9	4619.6	4755.3	4886.7	5039.0	5092.9	5309.2	5467.7	5845.0	6151.7	5385.4
50°	4738.6	4767.7	4900.3	5106.6	5296.8	5366.1	5665.4	5892.7	6346.8	6652.2	5740.3
52.5°	4957.3	4946.1	5058.3	5347.6	5602.8	5688.3	6045.7	6345.0	6855.4	7105.1	6040.2
55°	5177.2	5158.6	5237.3	5599.7	5959.6	6049.5	6464.5	6799.1	7339.3	7512.7	6270.0
57.5°	5421.9	5386.6	5452.9	5884.1	6366.0	6473.2	6933.5	7281.7	7815.0	7842.3	6416.2
60°	5674.0	5626.3	5700.7	6236.6	6882.1	7008.5	7482.4	7752.5	8263.6	8106.2	6463.3
62.5°	5894.6	5861.1	5975.7	6629.9	7463.8	7602.6	8021.3	8253.0	8705.9	8215.9	6293.5
65°	6087.3	6092.8	6291.1	7072.3	8112.4	8260.5	8639.6	8870.1	9054.1	8150.8	5896.4
67.5°	6317.1	6348.7	6686.9	7654.6	8928.9	9091.2	9539.1	9542.8	9248.6	7769.2	5114.6
70°	6652.2	6717.3	7231.5	8462.4	10089.9	10312.9	10658.6	9938.1	8975.4	6734.6	4024.3
72.5°	6949.6	7071.0	7810.7	9386.7	11504.8	11673.9	11313.4	9710.1	7833.6	5047.1	2507.1
74°	6828.8	6979.3	7916.0	9842.1	12037.6	12118.7	11092.2	9044.8	6531.4	3495.2	1457.1
75°	6568.6	6732.2	7762.4	9837.7	11970.1	11924.8	10558.2	8284.6	5379.2	2383.9	969.5
77.5°	5301.1	5473.9	6540.7	8431.5	9814.8	9772.1	8110.6	5557.6	2356.0	781.8	492.5
80°	3082.0	3214.0	4060.2	5354.4	6618.2	6695.6	5333.9	2750.0	926.8	439.2	333.9
82.5°	1369.1	1460.2	1961.4	2733.3	3993.9	4093.7	2793.3	1441.0	572.4	267.0	200.7
85°	898.3	965.8	1190.7	1301.6	1901.9	1970.0	1367.2	1121.9	377.9	146.8	147.4
87.5°	646.1	711.2	884.7	772.5	872.9	826.4	744.0	1038.3	151.8	83.6	49.6
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-SA5A-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8	3098.8
2.5°	3069.6	3059.7	3037.4	2995.3	2971.8	2951.9	2919.1	2899.9	2891.2	2890.6	2894.3
5°	2993.4	2970.5	2912.9	2842.3	2785.9	2734.5	2670.7	2632.3	2605.0	2588.9	2593.2
7.5°	2904.9	2868.9	2778.5	2665.7	2575.3	2475.5	2377.0	2318.2	2272.3	2238.3	2244.5
10°	2844.1	2794.6	2662.6	2500.3	2349.8	2204.8	2069.1	1988.0	1923.6	1874.0	1877.7
12.5°	2823.7	2756.8	2574.0	2357.2	2146.0	1947.7	1770.5	1646.0	1579.7	1523.4	1527.7
15°	2826.8	2737.0	2499.7	2228.4	1962.6	1712.9	1498.0	1352.4	1262.6	1223.5	1224.1
17.5°	2829.3	2714.0	2421.6	2090.2	1781.1	1493.6	1260.1	1112.6	1027.8	991.8	992.4
20°	2821.2	2676.9	2325.0	1931.6	1591.5	1292.3	1066.2	941.0	876.6	848.7	848.7
22.5°	2810.7	2632.9	2216.0	1772.4	1404.4	1117.6	927.4	832.0	794.8	776.2	775.6
25°	2815.6	2600.1	2104.5	1608.9	1232.2	978.2	835.1	771.9	747.1	735.4	734.7
27.5°	2842.3	2584.6	2001.6	1445.9	1081.7	873.5	773.1	728.5	712.4	705.0	705.0
30°	2890.6	2584.6	1894.4	1307.2	956.5	796.1	725.4	695.1	683.9	679.0	679.0
32.5°	2974.9	2598.8	1791.0	1169.6	856.8	735.4	685.8	665.3	656.7	654.2	654.2
35°	3119.8	2647.1	1690.0	1039.5	776.2	685.8	648.0	636.2	630.0	629.4	631.3
37.5°	3323.6	2745.6	1595.2	943.5	719.2	645.5	616.4	607.1	603.4	606.5	609.0
40°	3580.1	2879.5	1509.1	856.8	675.9	613.3	587.3	581.1	579.2	583.6	587.3
42.5°	3889.9	3060.4	1438.5	794.2	642.4	586.1	562.5	555.1	553.2	558.2	563.1
45°	4225.0	3254.9	1388.9	747.7	616.4	565.6	540.8	532.8	529.1	531.5	537.1
47.5°	4529.8	3438.9	1369.1	714.9	591.6	548.3	521.6	511.7	505.5	504.3	508.6
50°	4786.9	3575.8	1378.4	695.1	571.8	529.1	503.0	491.9	482.6	477.0	480.1
52.5°	4974.0	3661.9	1387.1	686.4	556.3	508.0	482.6	472.1	459.7	450.4	450.4
55°	5109.7	3681.7	1367.9	679.6	544.5	485.1	459.7	449.8	437.4	426.8	425.6
57.5°	5163.0	3626.0	1296.6	669.7	536.5	463.4	435.5	428.1	417.5	405.2	404.5
60°	5091.1	3453.7	1159.1	648.6	526.0	445.4	411.4	406.4	401.4	389.7	389.0
62.5°	4802.4	3075.8	981.3	605.9	504.9	426.2	389.0	391.5	392.1	384.1	382.9
65°	4278.9	2556.7	807.8	550.1	473.3	403.3	366.1	377.9	384.7	383.5	381.6
67.5°	3518.2	1989.8	684.6	491.3	431.8	371.7	341.3	355.0	360.6	364.9	363.6
70°	2611.2	1403.2	566.2	429.3	381.6	334.5	309.1	315.9	312.2	317.2	319.0
72.5°	1455.8	841.9	461.5	367.4	329.6	291.2	273.2	272.0	263.9	263.9	263.9
74°	873.5	617.6	405.8	329.0	298.0	262.7	247.2	241.6	234.2	234.8	234.2
75°	702.5	530.9	372.3	303.6	275.7	245.9	230.5	223.0	217.4	217.4	216.8
77.5°	443.6	403.3	299.8	241.6	220.5	202.6	192.0	182.1	182.1	181.5	180.9
80°	335.2	320.9	233.6	182.8	169.1	155.5	148.7	144.3	144.3	146.2	145.6
82.5°	229.8	241.6	164.2	127.6	120.8	110.9	109.7	110.3	108.4	105.9	105.3
85°	167.9	181.5	110.9	80.5	73.7	67.5	72.5	75.0	71.9	66.3	63.8
87.5°	64.4	118.9	59.5	33.5	31.0	26.6	31.0	32.2	34.7	27.3	27.9
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 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

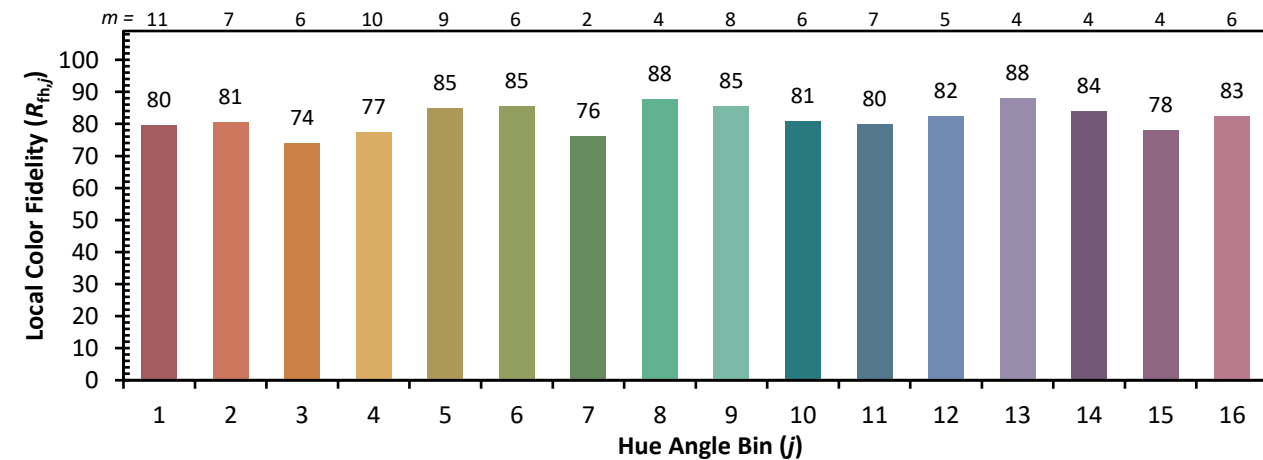


Individual Sample Fidelity Index ($R_{f,i}$)

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)