

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: P319508

Luminaire Tested: **GLEON-SA4A-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14634 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

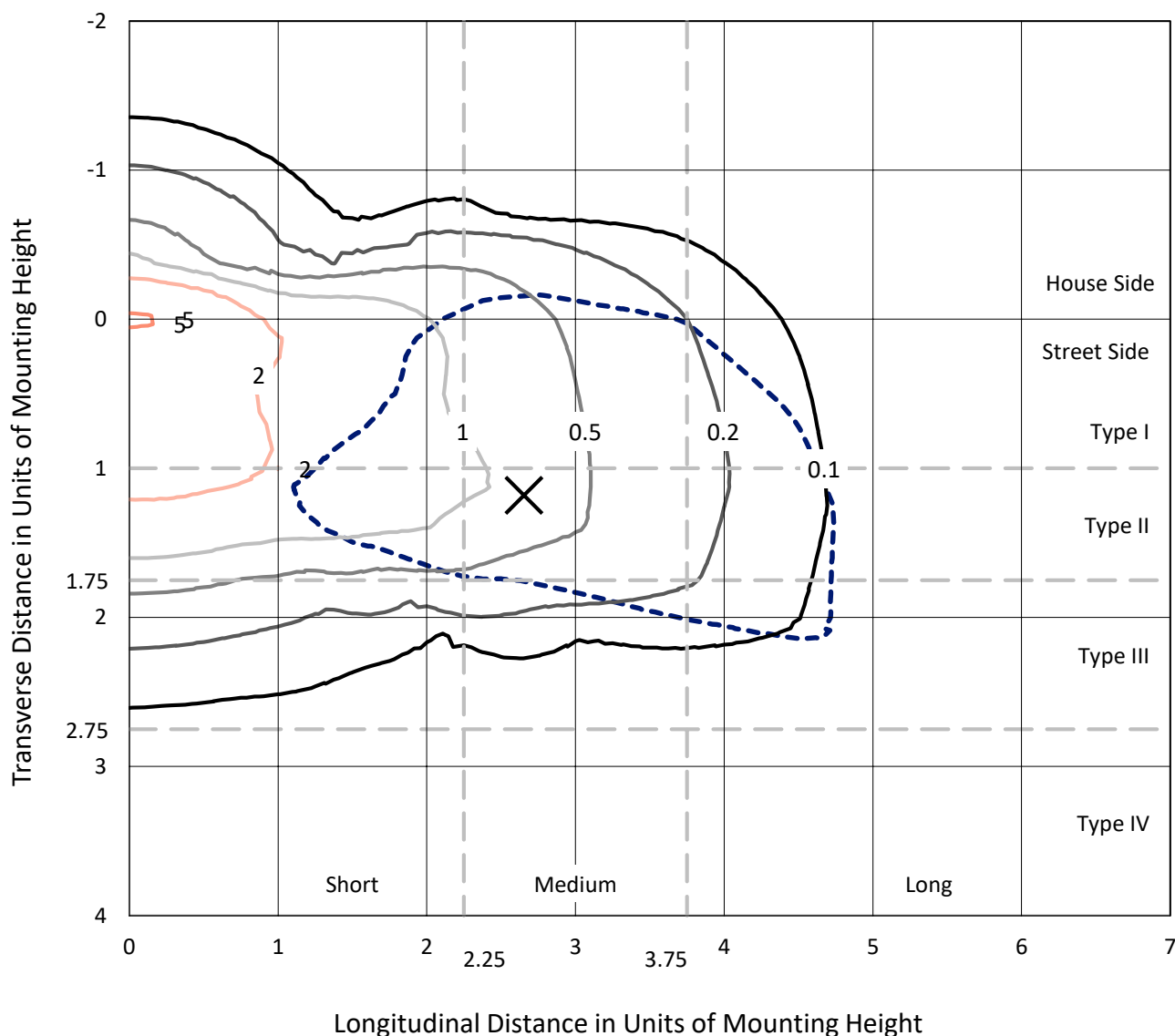
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

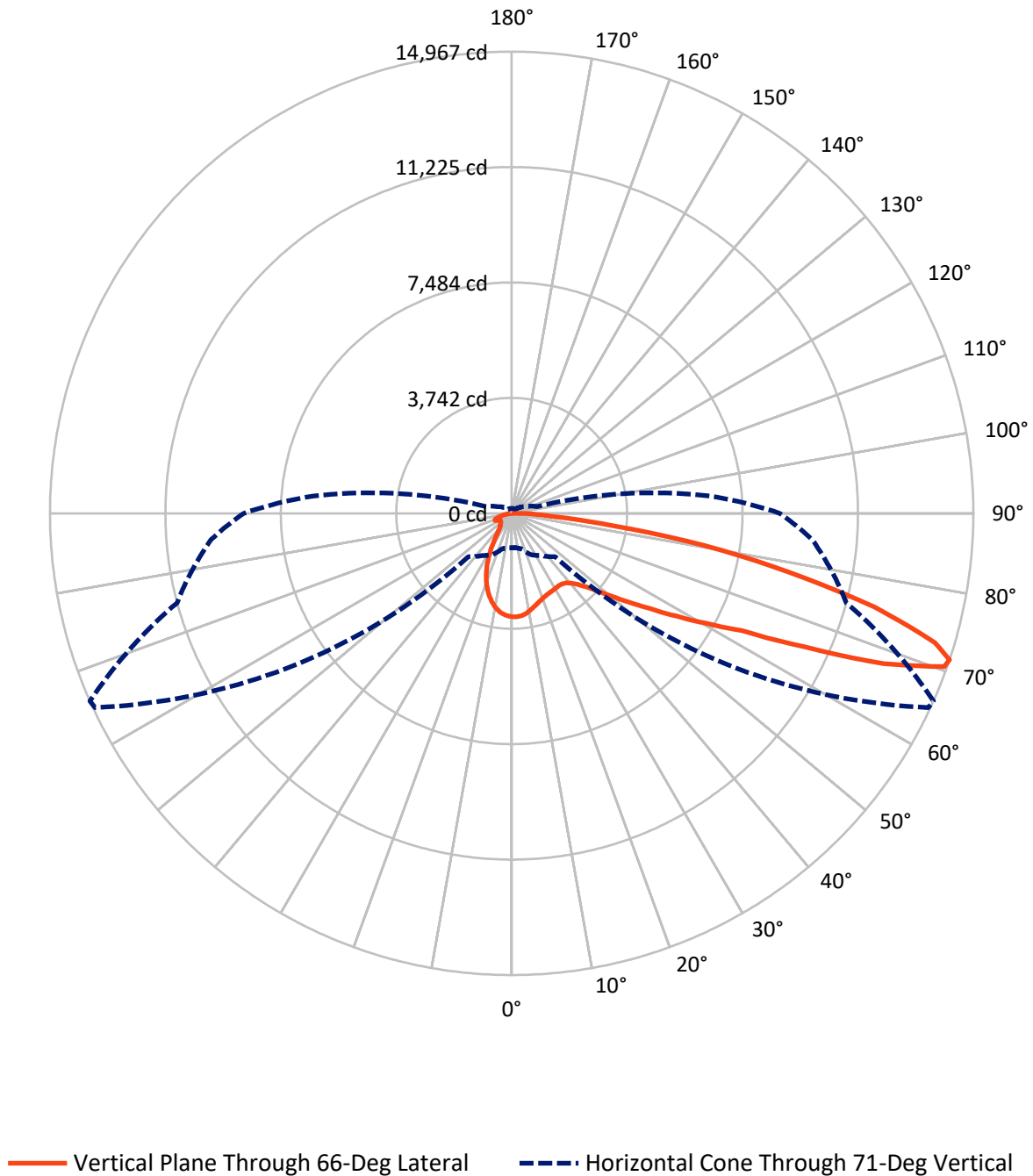
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA4A-830-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2712.1	0.0	2712.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	11921.9	0.0	11921.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	14634.0	0.0	14634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.1	2.0
10°-20°	707.8	4.8
20°-30°	950.7	6.5
30°-40°	1250.6	8.5
40°-50°	1819.3	12.4
50°-60°	2842.0	19.4
60°-70°	3560.0	24.3
70°-80°	2715.5	18.6
80°-90°	493.1	3.4
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°	14634.0	100.0
0°-180°	14634.0	100.0

Coefficient of Utilization



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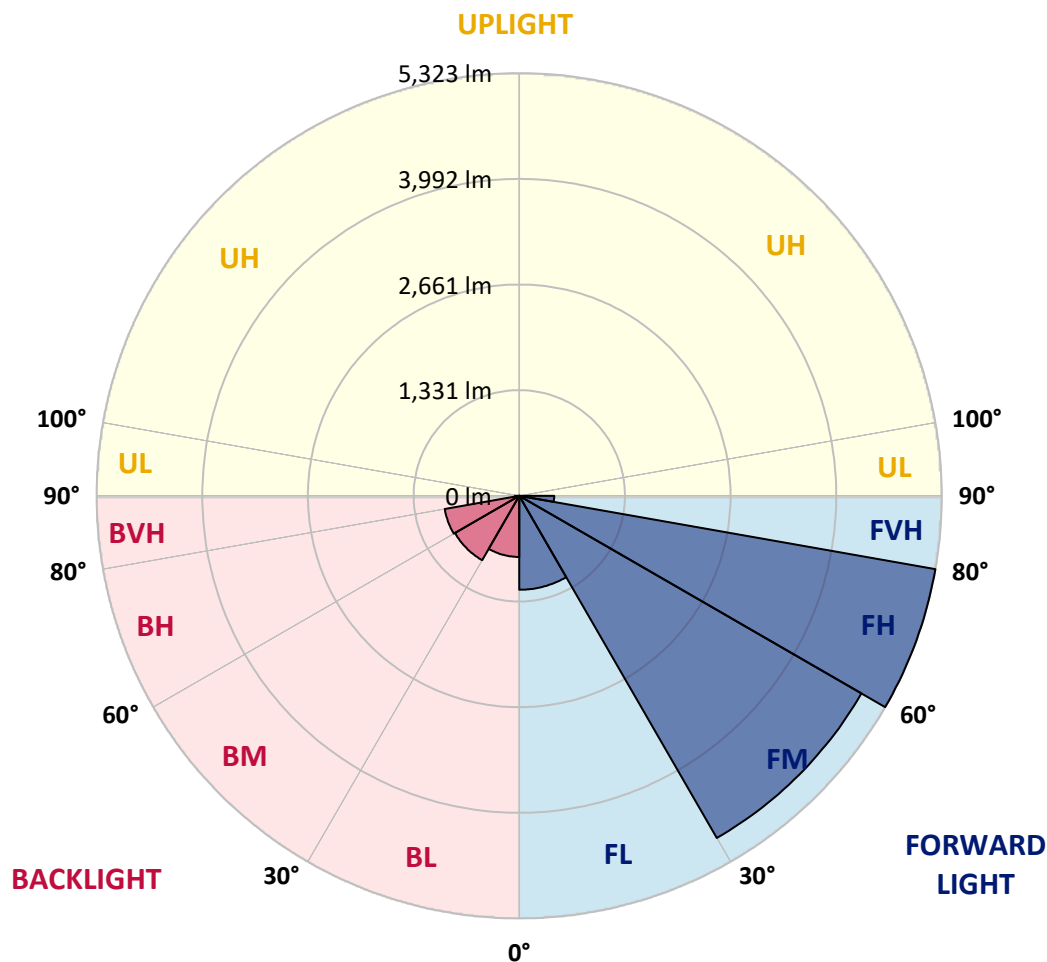
CATALOG NUMBER: GLEON-SA4A-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.4	8.1			
FM	(30°-60°)	4976.3	34.0			
FH	(60°-80°)	5322.5	36.4			G3/7500
FVH	(80°-90°)	439.7	3.0			G3/500
BL	(0°-30°)	770.2	5.3	B2/1000		
BM	(30°-60°)	935.6	6.4	B1/1000		
BH	(60°-80°)	953.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	53.4	0.4			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4
2.5°	3290.2	3285.2	3300.3	3316.0	3322.1	3332.2	3347.3	3355.9	3355.4	3356.9	3351.9
5°	3071.9	3065.4	3095.7	3120.5	3167.9	3221.5	3286.7	3333.2	3334.2	3360.5	3367.5
7.5°	2865.3	2860.8	2895.6	2935.5	2990.6	3072.5	3178.1	3278.1	3284.2	3355.4	3380.2
10°	2699.6	2698.6	2732.4	2775.9	2840.0	2931.5	3052.7	3199.3	3208.4	3331.1	3382.2
12.5°	2570.2	2572.3	2601.6	2651.1	2718.8	2814.3	2945.6	3110.9	3125.5	3292.7	3370.6
15°	2474.7	2482.8	2506.6	2556.6	2623.3	2720.3	2855.2	3029.0	3051.2	3249.8	3364.0
17.5°	2420.2	2429.3	2445.9	2487.4	2550.0	2643.5	2771.3	2961.8	2982.0	3217.0	3364.5
20°	2404.0	2411.6	2421.2	2446.4	2499.5	2584.4	2705.1	2901.2	2922.9	3190.7	3369.5
22.5°	2435.8	2441.4	2442.4	2440.4	2472.7	2541.9	2657.1	2856.7	2880.0	3173.5	3373.1
25°	2504.0	2511.6	2506.1	2487.4	2476.8	2519.2	2632.4	2827.4	2850.6	3160.9	3366.0
27.5°	2606.6	2607.6	2603.1	2578.8	2528.8	2521.7	2624.8	2810.2	2832.5	3146.2	3351.4
30°	2746.1	2752.6	2744.5	2711.7	2629.9	2562.1	2633.9	2793.6	2813.8	3127.5	3327.6
32.5°	2909.3	2925.4	2924.9	2890.6	2773.3	2652.6	2671.3	2783.4	2799.1	3107.8	3298.8
35°	3078.5	3100.7	3142.2	3127.5	2982.5	2795.6	2743.0	2799.6	2810.2	3105.3	3278.6
37.5°	3254.3	3276.6	3362.0	3401.4	3231.6	3000.2	2856.2	2856.7	2861.8	3136.1	3277.1
40°	3438.3	3462.0	3590.3	3692.9	3554.5	3259.4	3038.6	2976.0	2970.4	3211.9	3306.9
42.5°	3695.9	3717.2	3871.3	4002.1	3912.7	3591.4	3290.7	3159.9	3148.2	3360.5	3402.4
45°	4021.8	4040.0	4203.7	4343.7	4297.7	3970.3	3607.5	3413.0	3411.0	3608.0	3595.9
47.5°	4409.4	4423.5	4570.5	4705.9	4722.6	4406.3	4005.7	3803.6	3770.7	3947.6	3895.5
50°	4813.1	4828.7	4928.8	5074.3	5198.1	4989.9	4518.0	4282.0	4238.1	4395.7	4319.9
52.5°	5080.3	5101.1	5188.0	5372.4	5732.6	5629.5	5123.8	4862.1	4795.4	4938.9	4880.8
55°	4961.1	5007.6	5140.5	5436.0	6160.1	6606.7	5871.1	5538.6	5463.3	5582.6	5548.2
57.5°	4419.0	4482.6	4664.0	5120.3	6220.2	7467.7	7000.8	6335.4	6282.3	6248.0	6263.6
60°	3428.2	3489.3	3714.1	4308.8	5801.3	8096.2	8701.0	7317.6	7240.8	6915.9	6930.1
62.5°	2426.2	2395.4	2549.5	2984.5	4714.0	8170.0	10635.6	8631.3	8378.6	7621.3	7559.1
65°	1850.2	1843.2	1912.4	2050.8	2855.2	7287.3	11788.1	10839.2	10444.6	8450.9	8304.4
67.5°	1520.3	1507.7	1575.9	1777.5	1838.6	4701.4	11813.4	13400.9	13013.3	9483.6	9166.3
70°	1250.0	1235.9	1299.5	1559.7	1699.2	2384.3	9942.4	14901.0	14880.3	10791.2	9817.1
71°	1120.7	1110.6	1186.8	1475.8	1669.4	1987.2	8584.3	14905.0	14967.2	11233.8	9778.7
72.5°	912.5	916.0	996.9	1313.7	1647.1	1754.8	6309.1	14210.3	14341.7	11655.7	9429.6
75°	606.3	609.3	715.4	1010.5	1597.1	1716.9	3467.6	11924.0	12165.5	11403.1	8604.5
77.5°	407.2	406.2	478.5	693.2	1391.5	1716.9	2033.1	8918.3	9183.5	9073.4	6633.5
80°	280.4	278.4	329.4	478.5	1053.5	1737.6	1571.8	6250.0	6330.3	4900.0	2696.0
82.5°	171.8	173.3	215.2	338.0	717.0	1563.8	1483.9	3407.9	3320.5	1374.3	673.5
85°	98.5	98.0	137.4	228.9	460.3	1319.7	1447.0	1466.8	1345.5	413.8	243.5
87.5°	35.4	37.9	73.8	126.8	263.7	919.1	1227.8	762.9	687.7	186.9	110.1
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°	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4	3352.4
2.5°	3348.3	3351.4	3347.8	3327.6	3310.4	3282.6	3267.0	3245.3	3238.7	3235.7	3243.7
5°	3361.0	3362.0	3332.2	3279.1	3219.5	3149.3	3098.7	3036.6	3007.3	2994.6	3002.7
7.5°	3372.6	3368.0	3302.9	3201.3	3091.1	2968.9	2860.2	2760.7	2702.6	2678.9	2680.9
10°	3374.1	3354.9	3250.3	3093.2	2922.4	2743.0	2576.3	2422.7	2325.7	2262.5	2281.7
12.5°	3358.4	3326.1	3173.0	2953.2	2716.3	2471.7	2246.4	2016.0	1877.5	1813.4	1815.4
15°	3346.3	3287.7	3078.0	2788.5	2470.2	2146.3	1838.6	1567.8	1420.3	1354.6	1323.8
17.5°	3336.2	3246.3	2967.9	2603.1	2179.7	1768.9	1399.1	1157.5	1076.7	1057.5	1049.4
20°	3322.1	3202.3	2845.1	2388.3	1848.7	1346.5	1021.6	902.4	902.9	925.1	928.2
22.5°	3302.3	3152.3	2714.2	2147.3	1493.5	980.7	800.8	766.5	801.3	843.8	851.4
25°	3273.0	3093.2	2568.7	1881.1	1138.8	753.8	684.1	682.6	725.0	769.5	776.1
27.5°	3231.6	3015.9	2407.0	1595.1	839.2	640.7	612.9	623.5	654.8	687.1	689.7
30°	3176.0	2925.9	2228.7	1293.5	657.8	570.4	567.4	577.0	596.2	618.9	621.0
32.5°	3114.9	2834.5	2038.2	1001.4	563.4	532.5	535.6	540.1	549.2	558.3	560.3
35°	3059.3	2741.0	1843.2	760.9	518.4	507.8	505.8	504.7	505.8	502.7	503.2
37.5°	3023.4	2663.7	1640.1	605.8	492.6	486.1	480.0	472.4	463.8	458.8	459.8
40°	3010.3	2606.1	1434.4	523.4	471.4	466.9	455.2	439.1	429.0	425.9	425.9
42.5°	3045.7	2576.3	1235.9	482.0	453.7	446.1	426.9	408.2	400.7	400.2	399.7
45°	3153.8	2588.4	1046.9	459.3	437.6	422.9	397.6	382.0	376.9	377.9	377.4
47.5°	3347.8	2664.7	885.2	444.1	421.4	402.2	373.9	361.3	355.2	355.2	355.7
50°	3677.8	2843.1	756.4	431.5	407.7	383.0	356.7	341.0	333.0	332.5	332.5
52.5°	4158.2	3162.4	676.0	420.9	392.6	365.8	339.5	319.8	310.2	308.2	307.2
55°	4760.5	3620.2	653.8	413.8	372.4	347.1	318.8	299.1	288.5	284.0	283.4
57.5°	5434.0	4176.9	697.8	405.2	351.7	324.9	296.1	277.4	266.3	260.7	260.2
60°	6115.6	4784.8	877.1	393.1	334.5	300.6	272.8	255.7	244.5	238.5	237.5
62.5°	6798.2	5425.4	1243.4	392.1	322.4	277.4	249.1	234.4	223.8	217.3	215.7
65°	7568.2	6126.7	1659.8	418.9	318.3	256.2	224.8	213.2	204.1	198.1	197.6
67.5°	8452.4	6918.5	1619.8	473.9	332.0	237.0	202.1	193.0	186.4	181.4	180.9
70°	8867.2	6794.7	1007.0	512.8	351.2	218.3	180.4	173.8	168.8	165.2	163.7
71°	8693.4	6451.6	844.3	508.3	349.1	210.2	171.8	166.7	161.7	158.7	157.1
72.5°	8219.5	5883.7	704.3	472.9	326.4	195.5	160.7	155.6	151.1	147.5	146.5
75°	7375.7	5254.7	563.9	377.9	260.2	165.2	141.0	135.4	131.9	129.9	127.8
77.5°	5421.9	3750.0	436.0	298.6	191.5	134.9	120.3	116.2	112.7	109.6	108.1
80°	2077.1	1452.6	293.6	222.8	140.5	106.6	97.0	95.0	91.5	89.4	89.4
82.5°	559.3	434.0	156.6	134.9	94.0	77.8	74.3	73.3	70.2	66.2	66.7
85°	226.4	191.5	87.9	74.3	57.6	46.0	50.0	50.5	47.0	41.9	42.4
87.5°	99.5	81.3	49.0	32.8	25.3	17.7	22.7	22.7	20.7	17.2	15.7
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 $\text{W}^\wedge/\text{nm}$	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 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)