

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: P323033

Luminaire Tested: **GLEON-SA9A-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23995 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

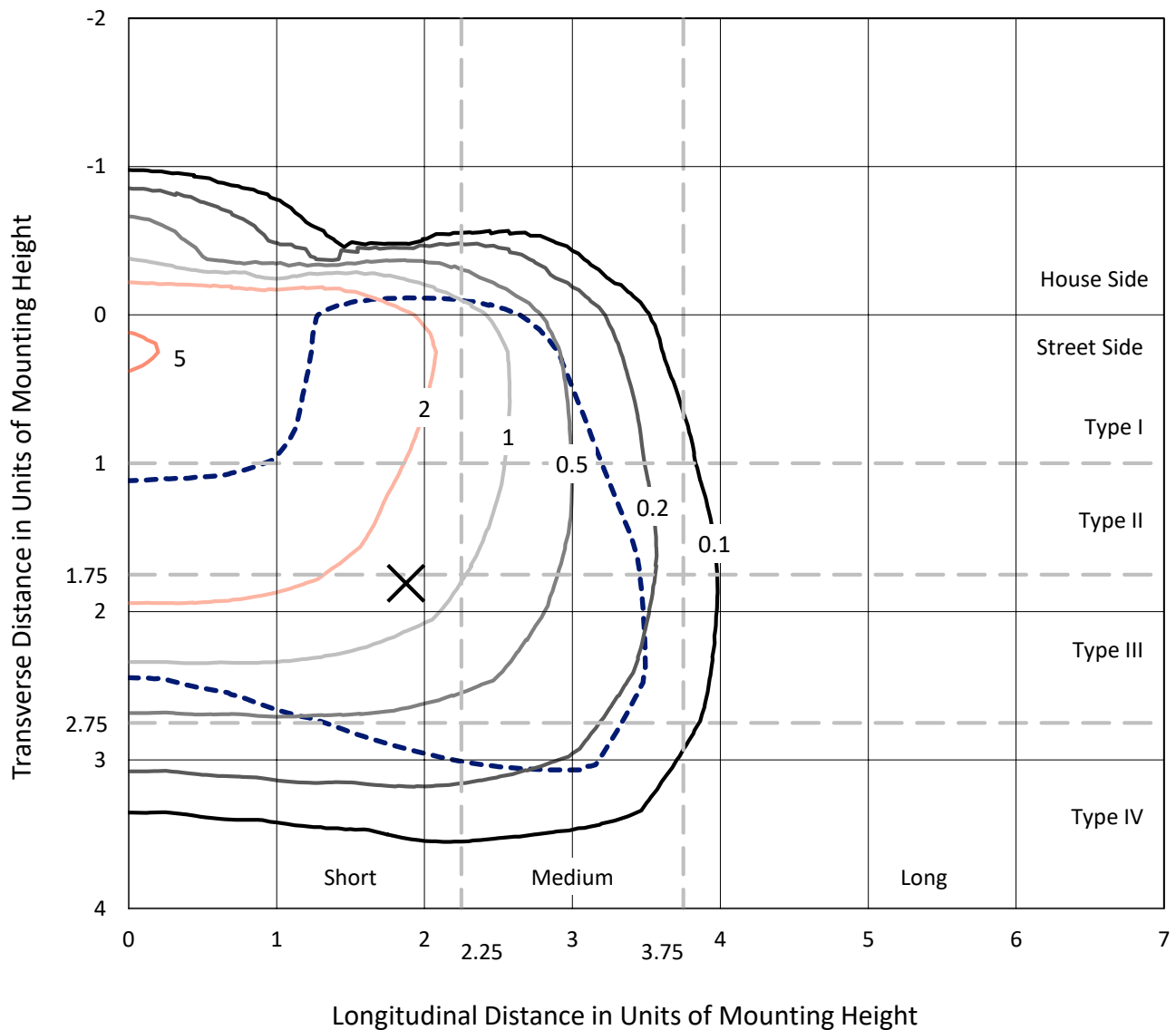
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

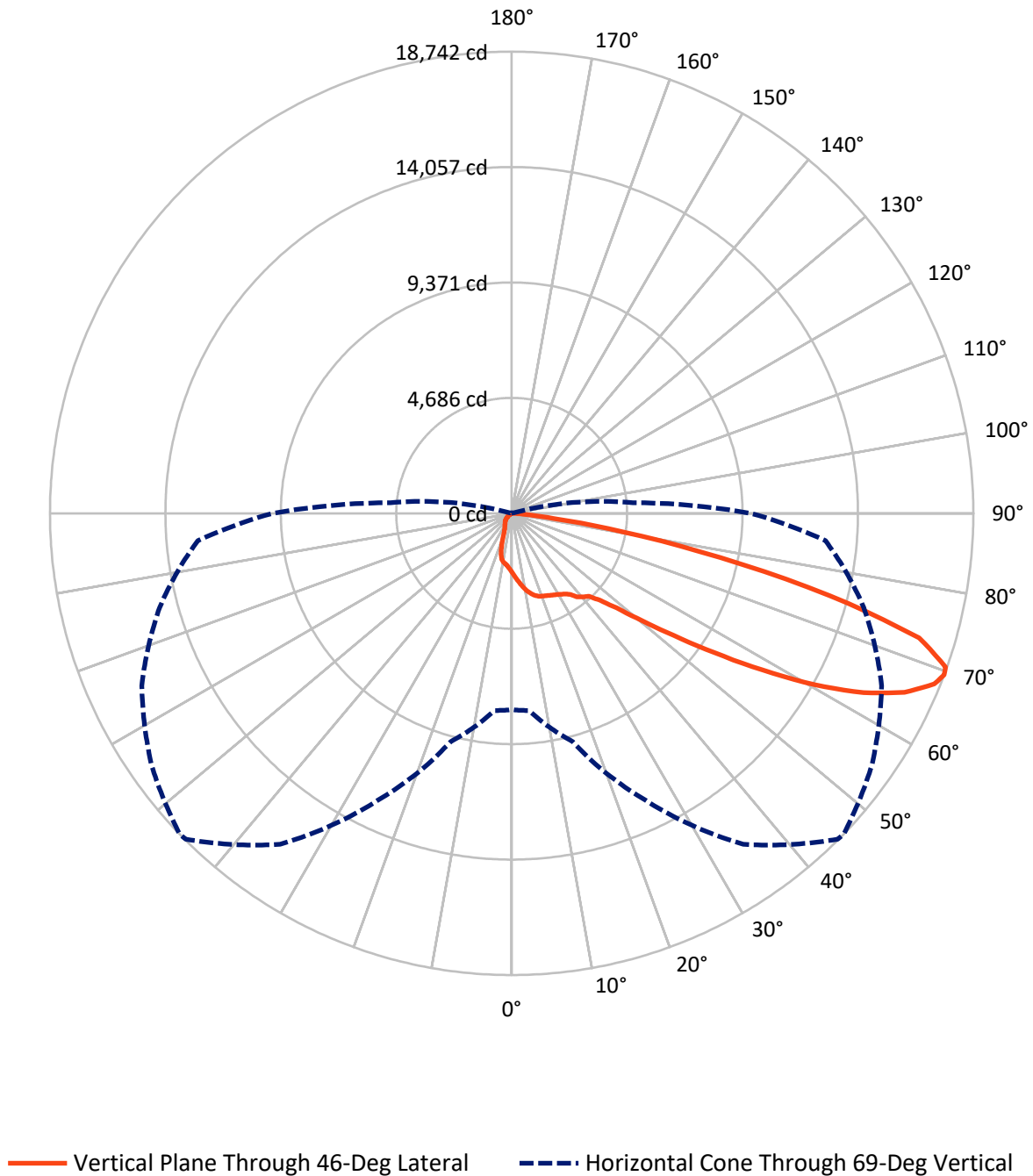
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2462.5	0.0	2462.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21532.5	0.0	21532.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	23995.0	0.0	23995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	1.0
10°-20°	726.0	3.0
20°-30°	1141.7	4.8
30°-40°	1637.2	6.8
40°-50°	2829.8	11.8
50°-60°	5590.5	23.3
60°-70°	7813.2	32.6
70°-80°	3774.6	15.7
80°-90°	242.6	1.0
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°	23995.0	100.0
0°-180°	23995.0	100.0

Coefficient of Utilization



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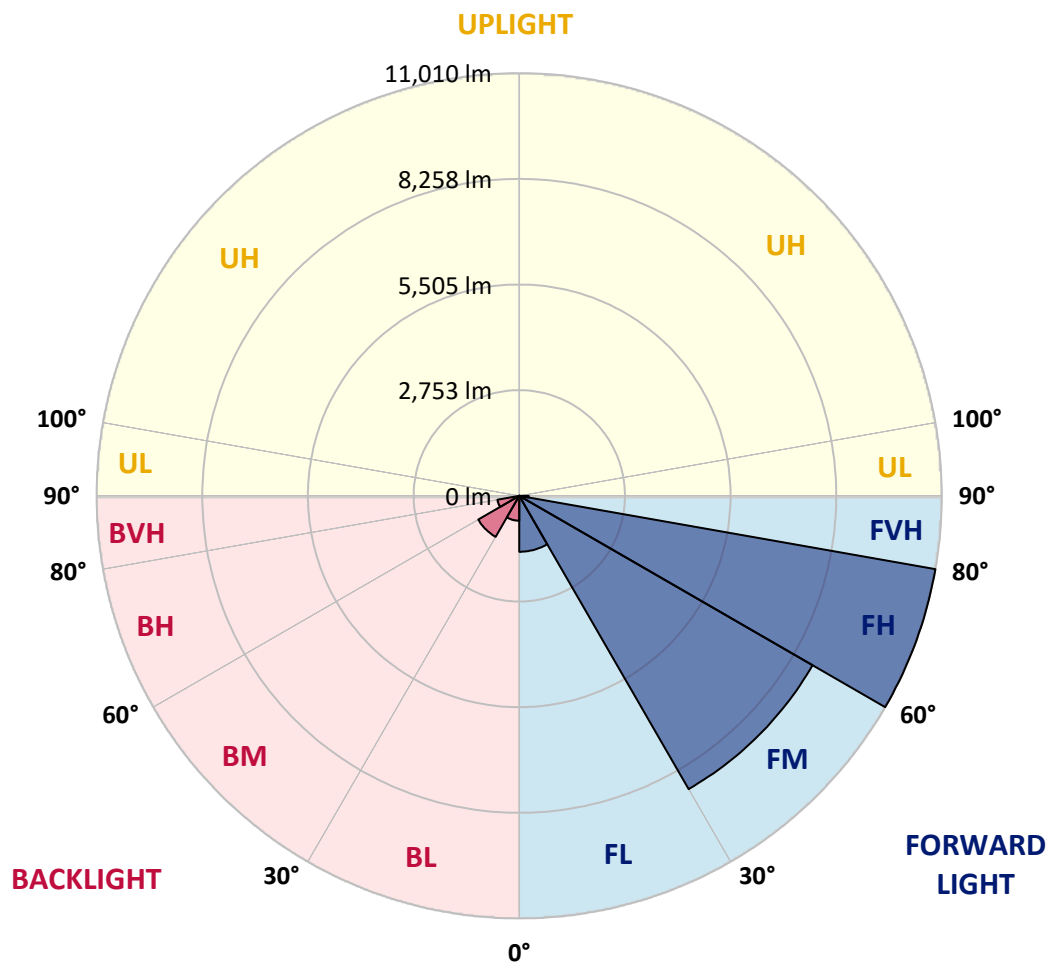
CATALOG NUMBER: GLEON-SA9A-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1458.0	6.1			
FM	(30°-60°)	8823.5	36.8			
FH	(60°-80°)	11010.4	45.9			G4/12000
FVH	(80°-90°)	240.6	1.0			G3/500
BL	(0°-30°)	649.0	2.7	B2/1000		
BM	(30°-60°)	1234.0	5.1	B2/2500		
BH	(60°-80°)	577.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2
2.5°	2670.8	2667.5	2651.7	2645.0	2606.7	2584.2	2575.2	2547.1	2506.6	2466.1	2421.1
5°	2974.6	2973.5	2944.2	2916.1	2844.1	2776.6	2764.2	2699.0	2607.8	2522.3	2436.8
7.5°	3285.1	3270.5	3241.2	3187.2	3082.6	2974.6	2964.5	2872.2	2742.8	2619.1	2496.5
10°	3548.4	3539.4	3501.1	3419.0	3296.4	3173.7	3161.4	3047.7	2901.5	2749.6	2593.2
12.5°	3753.1	3746.4	3695.8	3593.4	3462.9	3335.7	3318.9	3217.6	3061.2	2891.4	2706.8
15°	3878.0	3874.6	3812.8	3703.6	3575.4	3465.1	3450.5	3361.6	3216.5	3038.7	2830.6
17.5°	3907.3	3908.4	3844.3	3734.0	3628.3	3549.5	3538.2	3470.7	3349.2	3172.6	2954.4
20°	3842.0	3855.5	3798.1	3702.5	3637.3	3595.6	3586.6	3546.1	3443.7	3277.2	3053.4
22.5°	3749.8	3756.5	3717.1	3653.0	3626.0	3633.9	3629.4	3606.9	3520.2	3367.2	3151.2
25°	3693.5	3693.5	3669.9	3615.9	3633.9	3682.3	3683.4	3678.9	3610.3	3477.5	3270.5
27.5°	3691.3	3684.5	3657.5	3617.0	3666.5	3740.8	3745.3	3775.6	3732.9	3611.4	3419.0
30°	3781.3	3773.4	3716.0	3663.1	3726.1	3806.0	3817.3	3883.6	3862.3	3756.5	3584.4
32.5°	3991.6	3963.5	3836.4	3749.8	3797.0	3892.6	3907.3	4013.0	4046.8	3935.4	3744.1
35°	4279.7	4190.8	4007.4	3914.0	3918.5	4018.6	4032.1	4187.4	4287.5	4099.6	3867.9
37.5°	4676.8	4632.9	4334.8	4085.0	4105.3	4257.1	4296.5	4465.3	4437.2	4189.6	4008.5
40°	5547.6	5478.9	5161.7	4564.3	4284.2	4450.7	4463.0	4553.0	4555.3	4393.3	4301.0
42.5°	6733.4	6705.2	6371.1	5433.9	4636.3	4580.0	4602.5	4754.4	4924.3	4823.0	4818.5
45°	8046.3	8031.7	7677.3	6588.2	5348.4	5004.2	5032.3	5235.9	5561.1	5583.6	5726.5
47.5°	9102.7	9095.9	8892.3	7876.4	6438.6	5723.1	5732.1	5948.1	6519.6	6802.0	7030.4
50°	10065.7	10098.4	9937.5	9270.3	7923.7	6849.2	6827.9	6971.9	7889.9	8352.3	8635.8
52.5°	11404.5	11450.7	10999.5	10570.9	9481.8	8246.5	8229.7	8380.4	9537.0	9883.5	9934.1
55°	12586.9	12508.2	12151.6	12027.8	11382.0	9972.3	9967.8	10100.6	11130.0	11277.4	11370.8
57.5°	13109.0	13078.6	13250.7	13534.2	13372.2	12012.0	12001.9	11900.7	12555.4	12571.2	12858.1
60°	13438.6	13475.7	14003.4	14877.5	15281.4	14207.0	14141.7	13524.1	13916.7	13881.9	14189.0
62.5°	13191.1	13264.2	14213.7	15670.7	16710.2	16122.9	16030.7	15011.4	15080.0	14959.6	15245.4
65°	11877.0	11990.7	13546.6	15521.0	17419.0	17620.4	17527.0	16324.3	16003.7	15805.7	15647.0
67.5°	9643.8	9711.3	11335.9	14219.4	17099.5	18513.6	18494.5	17475.2	16701.2	15662.8	14432.0
69°	7969.8	8036.2	9600.0	12849.1	16396.3	18704.9	18742.0	17844.3	16568.5	14794.3	12787.2
70°	6750.2	6821.1	8278.0	11674.5	15580.7	18616.0	18682.4	17809.4	16188.2	13788.5	11343.8
72.5°	3540.5	3601.3	5096.4	8042.9	12701.7	17093.8	17295.2	16304.1	13722.1	10014.0	6707.5
75°	1112.7	1147.5	1990.2	4204.3	8696.6	13291.2	13337.3	12789.4	9744.0	5508.2	2793.5
77.5°	424.1	414.0	662.6	1549.2	4396.7	8369.2	8651.6	7992.3	5113.3	1947.4	644.6
80°	228.4	229.5	344.3	641.3	1881.1	4301.0	4539.5	3873.5	1816.9	607.5	148.5
82.5°	99.0	103.5	193.5	339.8	864.0	1586.3	1705.6	1419.8	694.1	408.4	55.1
85°	21.4	23.6	93.4	184.5	352.1	445.5	466.9	460.1	442.1	317.3	21.4
87.5°	0.0	0.0	41.6	66.4	88.9	101.3	88.9	115.9	244.1	213.8	11.3
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-SA9A-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2
2.5°	2406.5	2386.2	2351.3	2313.1	2286.1	2258.0	2235.5	2225.3	2214.1	2206.2	2216.3
5°	2402.0	2362.6	2295.1	2229.8	2182.6	2144.3	2112.8	2100.4	2088.1	2079.1	2077.9
7.5°	2441.3	2386.2	2282.7	2187.1	2113.9	2062.2	2019.4	2001.4	1986.8	1980.1	1974.4
10°	2516.7	2445.8	2307.5	2182.6	2088.1	2000.3	1908.1	1837.2	1791.1	1769.7	1761.8
12.5°	2614.6	2525.7	2354.7	2206.2	2068.9	1900.2	1704.4	1535.7	1426.6	1390.5	1369.2
15°	2729.3	2619.1	2416.6	2236.6	1999.2	1690.9	1359.0	1138.5	1037.3	1017.0	994.5
17.5°	2839.6	2718.1	2490.8	2242.2	1846.2	1351.2	995.7	846.0	806.7	820.2	823.5
20°	2936.4	2816.0	2564.0	2192.7	1568.3	1013.7	770.7	733.5	748.2	774.0	778.5
22.5°	3034.2	2910.5	2631.5	2062.2	1212.8	769.5	694.1	703.1	717.8	743.7	748.2
25°	3153.5	3025.2	2694.5	1822.6	910.2	654.8	659.3	672.8	687.4	711.0	713.3
27.5°	3290.7	3170.4	2736.1	1510.9	675.0	601.9	616.5	636.8	651.4	673.9	678.4
30°	3473.0	3361.6	2749.6	1188.0	565.9	554.6	561.4	586.1	607.5	627.8	631.1
32.5°	3644.0	3550.6	2704.6	896.7	524.3	510.8	510.8	525.4	550.1	569.3	573.8
35°	3801.5	3740.8	2560.6	655.9	492.8	470.3	459.0	459.0	474.8	490.5	495.0
37.5°	4009.6	4007.4	2327.7	523.1	462.4	436.5	412.9	394.9	389.3	392.6	394.9
40°	4366.3	4369.7	2023.9	469.1	436.5	401.6	365.6	333.0	302.6	292.5	291.4
42.5°	4923.2	4872.5	1705.6	443.3	414.0	365.6	311.6	267.8	220.5	205.9	204.8
45°	5807.5	5507.1	1368.0	419.6	390.4	325.1	257.6	198.0	159.8	148.5	148.5
47.5°	7095.6	6340.7	1059.8	393.8	358.9	279.0	194.6	142.9	117.0	111.4	112.5
50°	8427.7	7157.5	812.3	361.1	320.6	230.6	144.0	103.5	88.9	88.9	90.0
52.5°	9609.0	7756.0	633.4	326.3	273.4	181.1	109.1	81.0	74.3	73.1	74.3
55°	10714.9	8141.9	484.9	285.8	217.1	135.0	83.3	66.4	61.9	59.6	58.5
57.5°	11781.4	8333.2	363.4	230.6	157.5	97.9	66.4	56.3	51.8	48.4	47.3
60°	12491.3	8177.9	249.8	169.9	109.1	70.9	55.1	48.4	42.8	39.4	38.3
62.5°	12891.8	7753.8	160.9	122.6	77.6	52.9	43.9	40.5	32.6	29.3	29.3
65°	12729.8	7054.0	112.5	87.8	56.3	39.4	32.6	32.6	23.6	19.1	18.0
67.5°	11280.8	5959.3	85.5	65.3	40.5	29.3	24.8	28.1	14.6	9.0	9.0
69°	9705.7	4938.9	73.1	54.0	33.8	23.6	21.4	25.9	10.1	6.8	5.6
70°	8435.5	4260.5	66.4	47.3	28.1	20.3	19.1	24.8	10.1	5.6	4.5
72.5°	5046.9	2376.1	50.6	33.8	18.0	15.8	15.8	28.1	10.1	5.6	4.5
75°	2039.7	837.0	37.1	23.6	13.5	13.5	19.1	36.0	9.0	4.5	3.4
77.5°	462.4	183.4	21.4	14.6	9.0	13.5	22.5	28.1	5.6	2.3	0.0
80°	112.5	45.0	13.5	9.0	5.6	10.1	16.9	15.8	1.1	0.0	0.0
82.5°	37.1	15.8	5.6	4.5	1.1	3.4	7.9	4.5	0.0	0.0	0.0
85°	15.8	9.0	2.3	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	10.1	3.4	0.0	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



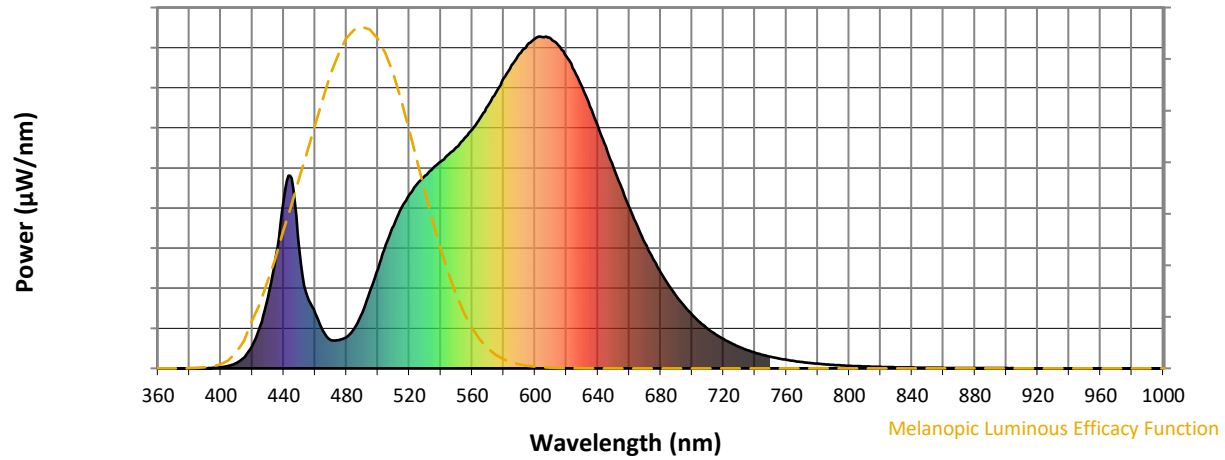
Scotopic Lumens: NR

S/P: 1.27

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