

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: P318576

Luminaire Tested: **GLEON-SA2D-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12618 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

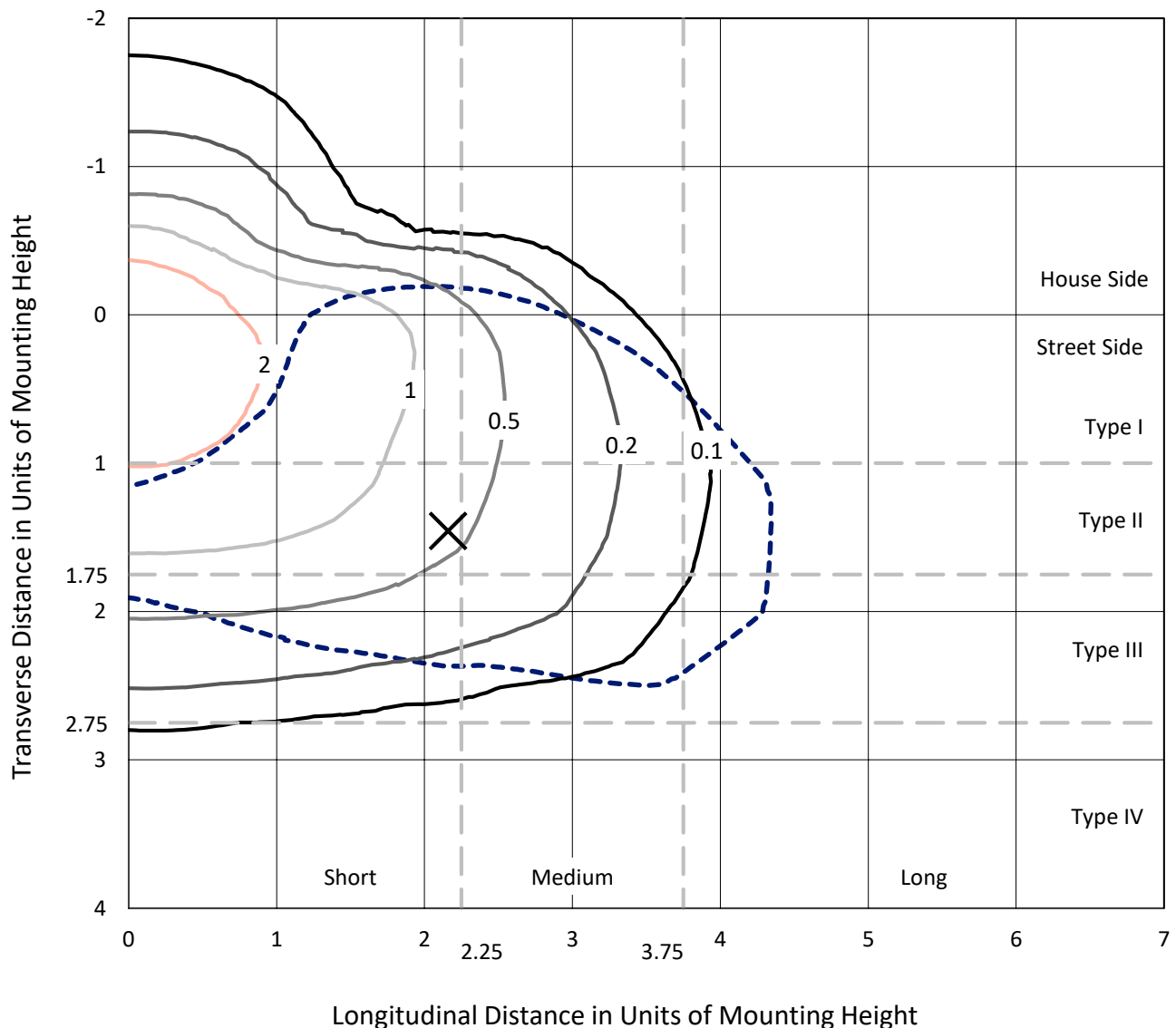
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

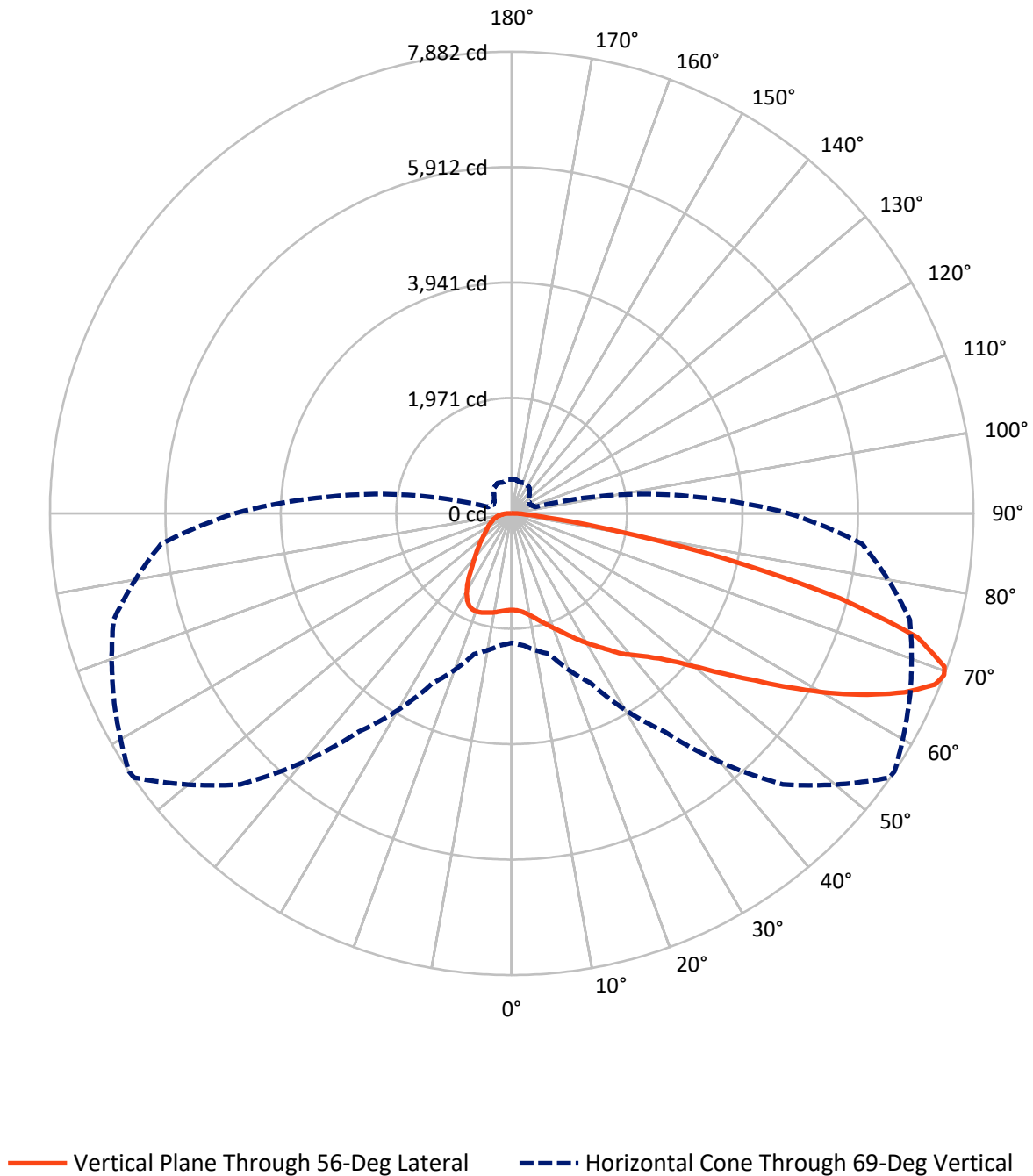
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA2D-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2810.0	0.0	2810.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	9808.0	0.0	9808.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	12618.0	0.0	12618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	1.3
10°-20°	521.0	4.1
20°-30°	909.4	7.2
30°-40°	1306.4	10.4
40°-50°	1808.0	14.3
50°-60°	2648.9	21.0
60°-70°	3229.5	25.6
70°-80°	1785.5	14.2
80°-90°	247.3	2.0
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°	12618.0	100.0
0°-180°	12618.0	100.0

Coefficient of Utilization



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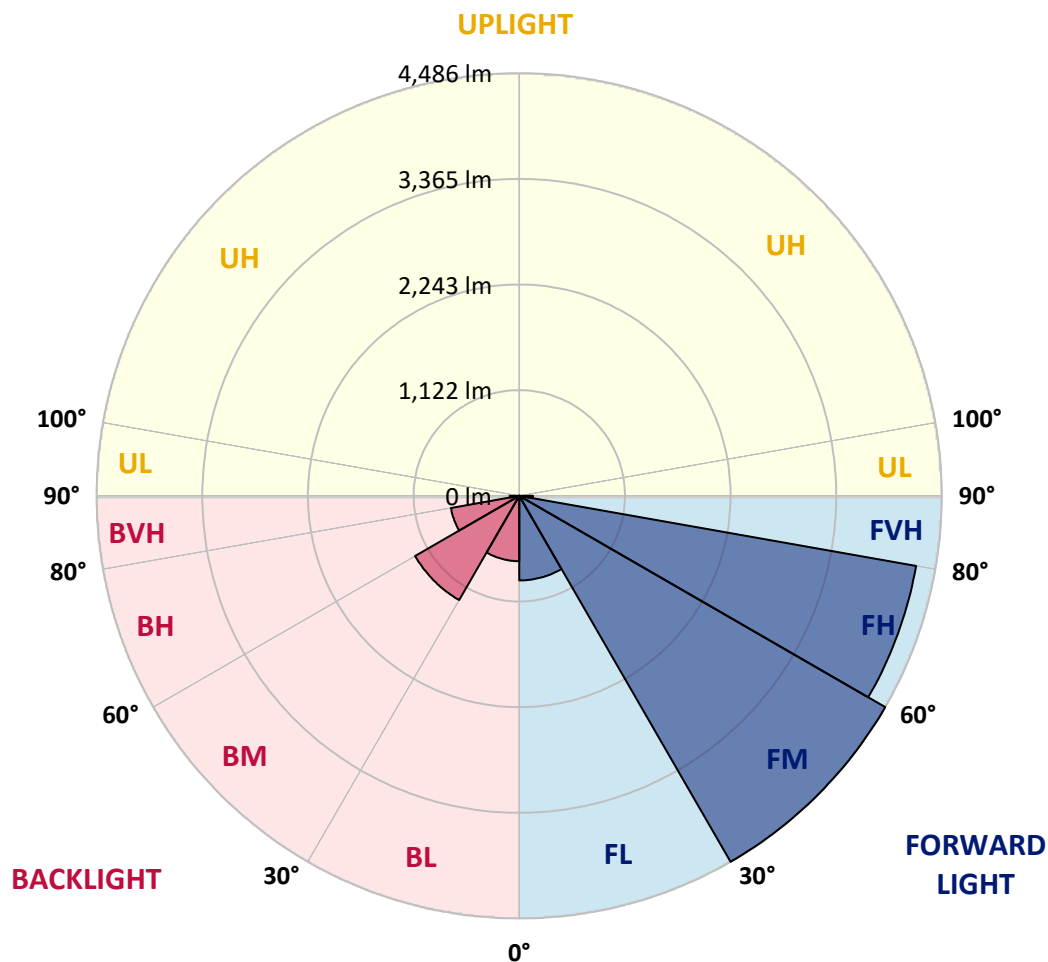
CATALOG NUMBER: GLEON-SA2D-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	898.0	7.1			
FM	(30°-60°)	4486.2	35.6			
FH	(60°-80°)	4278.1	33.9			G2/5000
FVH	(80°-90°)	145.7	1.2			G2/225
BL	(0°-30°)	694.4	5.5	B2/1000		
BM	(30°-60°)	1277.1	10.1	B2/2500		
BH	(60°-80°)	736.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	101.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1660.0	1661.8	1660.5	1664.0	1660.0	1662.7	1660.5	1660.5	1659.2	1655.3	1650.9
5°	1686.1	1689.6	1687.4	1690.9	1686.1	1687.0	1683.1	1683.1	1679.2	1670.9	1662.2
7.5°	1727.0	1730.9	1729.2	1732.6	1726.1	1726.1	1720.9	1720.5	1712.6	1699.2	1689.2
10°	1775.7	1780.9	1779.1	1784.4	1779.1	1780.9	1775.7	1775.7	1765.2	1746.1	1733.5
12.5°	1846.5	1853.0	1848.3	1847.8	1845.7	1849.1	1844.8	1843.9	1834.4	1808.3	1790.9
15°	1941.3	1948.2	1938.2	1937.4	1925.2	1923.9	1923.9	1922.6	1916.5	1885.2	1856.5
17.5°	2050.4	2052.6	2043.9	2030.0	2014.3	2004.3	2003.0	2006.5	2006.5	1970.0	1924.3
20°	2157.3	2161.2	2154.3	2138.6	2118.6	2103.9	2093.4	2100.4	2099.9	2056.5	1991.7
22.5°	2273.8	2282.9	2272.5	2252.5	2229.0	2212.5	2194.3	2200.4	2200.8	2147.3	2057.8
25°	2424.6	2416.4	2409.9	2381.6	2348.1	2331.2	2314.2	2320.3	2318.6	2245.1	2126.0
27.5°	2558.1	2559.8	2551.1	2521.1	2482.5	2445.1	2444.2	2448.1	2441.6	2346.8	2190.4
30°	2713.3	2714.1	2702.0	2675.0	2632.9	2584.6	2573.3	2579.8	2565.9	2443.3	2258.2
32.5°	2867.6	2871.9	2858.5	2825.9	2792.0	2733.3	2710.7	2715.0	2680.2	2542.0	2328.2
35°	3002.8	3008.9	3004.5	2982.8	2945.8	2895.4	2868.5	2865.9	2822.8	2662.9	2420.7
37.5°	3140.6	3146.2	3141.4	3123.2	3108.4	3054.9	3040.6	3040.6	2965.8	2786.3	2538.5
40°	3282.3	3291.0	3285.3	3260.1	3247.5	3223.2	3188.8	3180.6	3099.7	2934.5	2730.7
42.5°	3414.0	3425.3	3447.9	3433.1	3407.5	3410.9	3341.8	3337.5	3278.4	3153.6	2971.9
45°	3600.9	3617.4	3655.7	3644.4	3639.1	3620.0	3537.9	3534.0	3511.4	3448.3	3271.4
47.5°	3804.8	3827.4	3896.5	3898.7	3954.7	3918.6	3806.9	3793.5	3798.7	3801.3	3637.0
50°	3992.5	4017.3	4130.8	4184.2	4316.4	4324.2	4145.6	4133.4	4153.8	4213.8	4063.0
52.5°	4142.5	4173.8	4315.5	4480.7	4707.2	4771.5	4562.4	4553.3	4568.5	4671.9	4544.6
55°	4252.5	4286.4	4440.7	4741.5	5103.2	5216.6	5042.3	5033.6	5043.2	5174.9	5068.4
57.5°	4278.1	4286.4	4510.2	4917.1	5437.4	5710.0	5629.6	5612.2	5565.2	5680.0	5646.5
60°	4157.7	4190.8	4452.9	4978.8	5696.1	6196.4	6243.3	6221.6	6089.9	6183.8	6156.8
62.5°	3913.4	3972.5	4238.6	4884.9	5797.3	6593.7	6845.4	6819.3	6592.4	6653.2	6523.7
65°	3514.4	3539.6	3819.1	4561.1	5668.7	6848.0	7382.2	7369.1	7083.6	6988.4	6591.5
67.5°	2800.6	2848.0	3085.4	3884.3	5142.3	6818.0	7797.3	7796.0	7404.4	7112.7	6351.1
69°	2212.5	2261.6	2487.7	3199.7	4550.2	6543.7	7866.9	7882.1	7494.8	7037.0	6007.7
70°	1763.9	1820.9	1976.1	2695.0	4024.7	6182.0	7809.0	7836.4	7477.4	6912.3	5690.8
72.5°	750.7	796.8	907.2	1389.2	2452.9	4616.3	7140.1	7243.5	7074.4	6326.3	4703.2
75°	327.7	342.1	392.1	566.4	1088.9	2512.5	5593.5	5784.7	6049.0	5347.4	3503.5
77.5°	239.9	246.0	273.4	332.5	488.6	948.9	3597.0	3708.3	4362.5	3891.3	2149.1
80°	185.6	190.0	211.3	244.3	319.1	383.8	1640.5	1736.1	2452.9	1998.7	895.0
82.5°	147.8	150.8	165.6	180.0	220.4	232.6	544.7	604.2	905.4	552.0	236.9
85°	137.4	140.8	146.1	131.3	141.3	136.5	235.6	246.5	273.4	216.9	99.1
87.5°	62.2	73.5	144.7	102.1	75.2	60.0	96.5	100.8	113.5	113.9	43.9
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°	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1653.5	1652.2	1654.4	1649.2	1655.7	1655.3	1653.1	1654.0	1658.3	1657.9	1658.3
5°	1663.5	1662.7	1665.3	1661.3	1669.2	1671.8	1672.2	1676.1	1680.9	1682.2	1682.2
7.5°	1688.7	1688.7	1690.0	1684.8	1690.0	1689.6	1687.4	1691.3	1696.1	1696.6	1696.1
10°	1732.2	1732.6	1730.5	1717.0	1712.6	1700.9	1690.0	1690.5	1696.6	1701.3	1702.6
12.5°	1787.0	1785.2	1775.7	1750.9	1732.6	1708.7	1697.4	1697.0	1703.1	1707.0	1708.3
15°	1849.6	1844.8	1820.0	1779.6	1747.4	1723.9	1705.7	1701.3	1697.9	1693.5	1694.0
17.5°	1908.7	1897.8	1856.5	1800.4	1766.5	1735.2	1700.0	1671.8	1652.2	1640.9	1637.4
20°	1968.7	1947.4	1887.8	1820.0	1777.0	1720.0	1652.2	1594.8	1559.2	1542.7	1539.6
22.5°	2023.4	1989.1	1916.9	1840.4	1768.7	1668.7	1562.2	1478.8	1429.2	1407.1	1408.8
25°	2076.9	2029.1	1947.4	1854.8	1727.0	1578.3	1437.1	1334.5	1277.1	1252.3	1251.4
27.5°	2123.9	2069.5	1980.4	1843.0	1649.2	1449.7	1288.8	1188.9	1141.0	1119.7	1116.3
30°	2177.8	2120.4	2024.3	1798.3	1535.3	1301.0	1144.1	1073.7	1039.8	1018.5	1014.5
32.5°	2243.4	2189.5	2060.4	1717.0	1389.7	1145.8	1031.1	981.9	951.1	927.2	922.8
35°	2339.0	2280.8	2069.5	1600.5	1229.7	1023.2	948.0	897.6	855.9	825.0	822.0
37.5°	2459.0	2395.1	2048.7	1449.7	1074.5	943.7	878.9	816.8	762.4	719.0	712.0
40°	2632.0	2535.5	1990.8	1275.8	960.2	882.4	811.5	740.7	673.3	622.5	612.5
42.5°	2839.8	2700.2	1902.2	1102.8	876.3	820.2	744.6	656.8	592.5	556.4	551.2
45°	3104.1	2871.5	1779.1	951.5	793.7	758.1	672.5	591.6	551.6	525.1	520.7
47.5°	3405.7	3063.6	1650.0	828.5	723.7	699.8	614.6	562.5	530.7	509.9	506.0
50°	3776.5	3280.5	1513.1	727.7	653.3	629.9	587.3	546.4	521.2	505.1	501.2
52.5°	4194.7	3525.3	1414.5	648.1	595.1	578.1	572.9	537.7	517.3	505.1	501.2
55°	4645.0	3774.3	1308.0	581.2	544.7	549.4	563.3	538.6	524.7	509.9	504.2
57.5°	5095.8	4031.7	1189.3	524.7	504.7	528.1	556.8	540.3	528.6	514.2	509.0
60°	5452.2	4194.7	1005.4	477.3	472.9	504.7	541.2	527.3	512.1	512.5	511.6
62.5°	5618.7	4186.0	802.4	435.1	441.2	472.9	516.0	506.8	494.2	511.2	512.5
65°	5525.2	3977.3	624.6	396.9	407.3	439.9	489.9	496.8	501.2	533.8	538.1
67.5°	5133.1	3571.3	483.8	363.4	376.4	417.3	492.5	541.2	546.8	581.2	580.7
69°	4727.6	3190.6	420.3	346.0	361.2	422.9	526.4	569.4	548.1	584.6	579.4
70°	4387.7	2889.3	386.4	334.3	354.3	432.9	549.0	569.0	541.6	572.9	564.2
72.5°	3379.2	2078.6	327.7	312.5	330.8	414.3	555.5	556.4	526.4	532.5	517.7
75°	2317.7	1313.6	286.0	283.0	295.1	373.4	534.7	531.6	486.8	478.1	466.0
77.5°	1278.0	667.2	243.0	254.7	263.0	330.8	486.0	481.6	444.7	426.4	422.1
80°	492.9	292.1	205.2	226.5	231.7	286.5	426.0	422.1	391.2	367.7	361.2
82.5°	186.0	153.0	169.5	196.0	194.3	236.5	360.8	358.6	328.6	294.3	283.8
85°	86.1	91.7	134.3	161.7	149.1	175.2	288.6	292.5	256.0	215.2	215.2
87.5°	36.5	51.3	95.2	122.1	100.4	118.2	211.7	202.1	185.6	128.7	120.8
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 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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TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE\ R_a = 81.0$
 $R_g = 7.1$



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)