

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: P318571

Luminaire Tested: **GLEON-SA7C-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318571
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-SA7C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39763 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

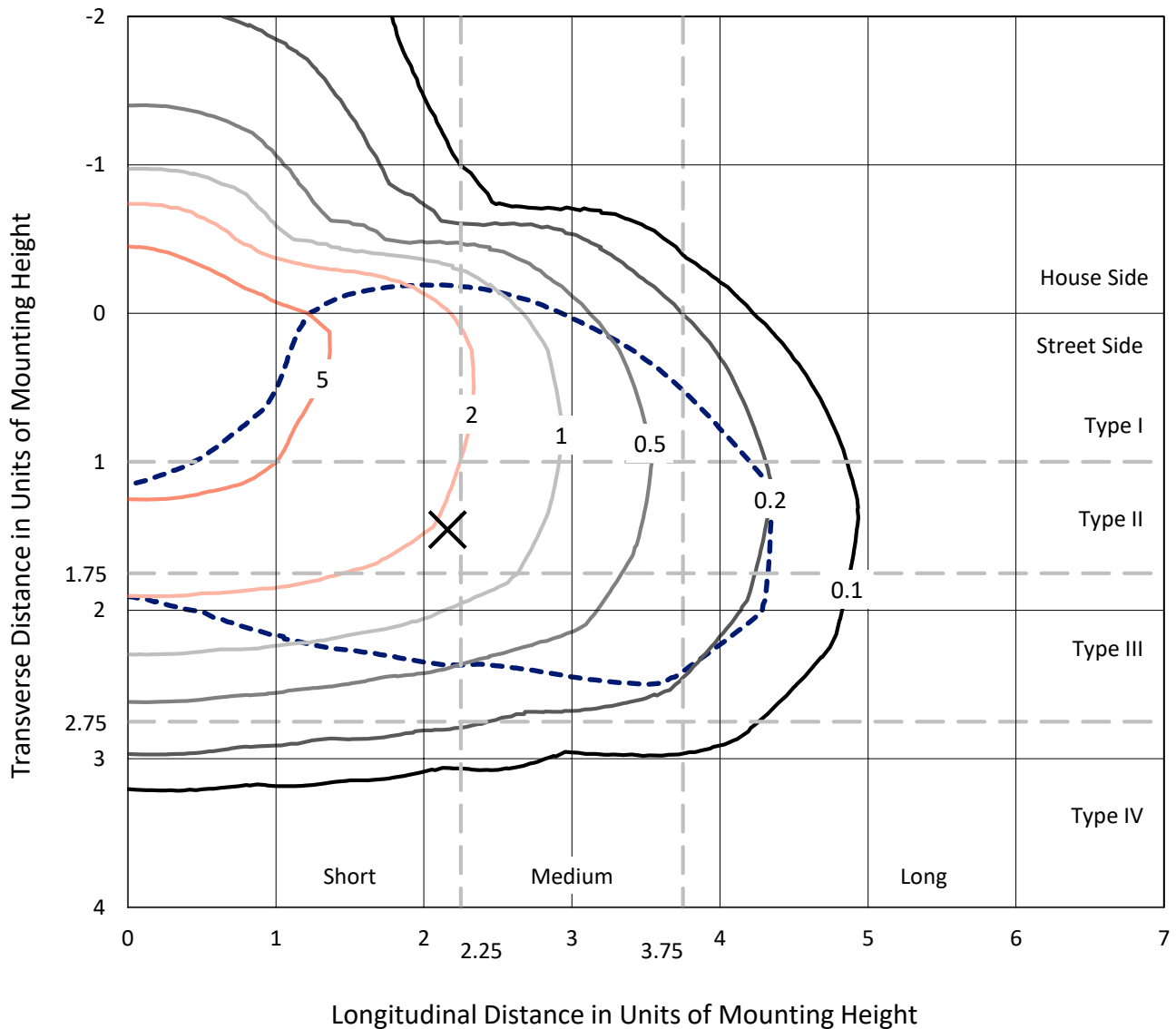
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

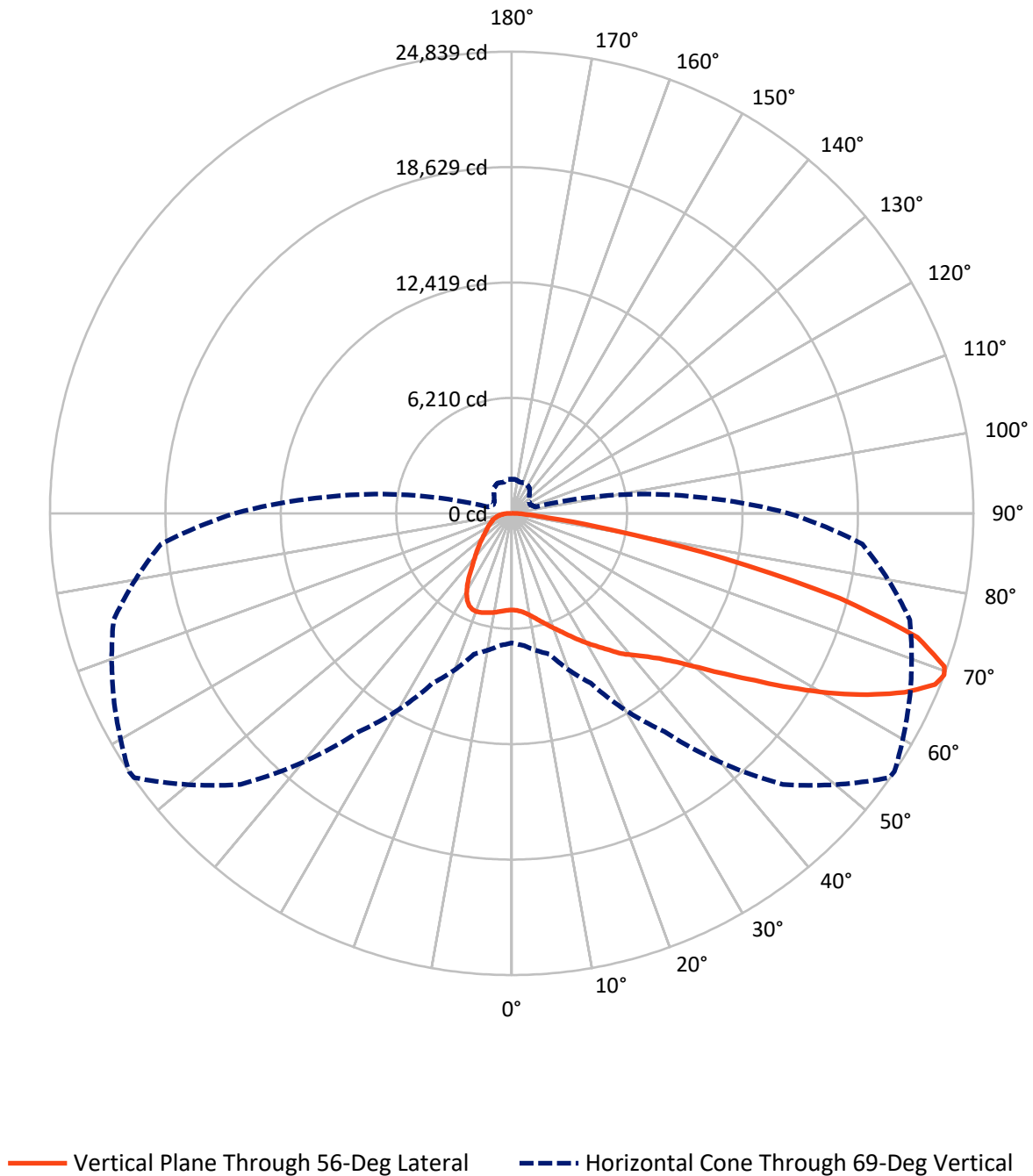
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA7C-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8855.1	0.0	8855.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	30907.9	0.0	30907.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	39763.0	0.0	39763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.6	1.3
10°-20°	1641.8	4.1
20°-30°	2865.9	7.2
30°-40°	4116.8	10.4
40°-50°	5697.4	14.3
50°-60°	8347.5	21.0
60°-70°	10177.2	25.6
70°-80°	5626.6	14.2
80°-90°	779.3	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°	39763.0	100.0
0°-180°	39763.0	100.0

Coefficient of Utilization



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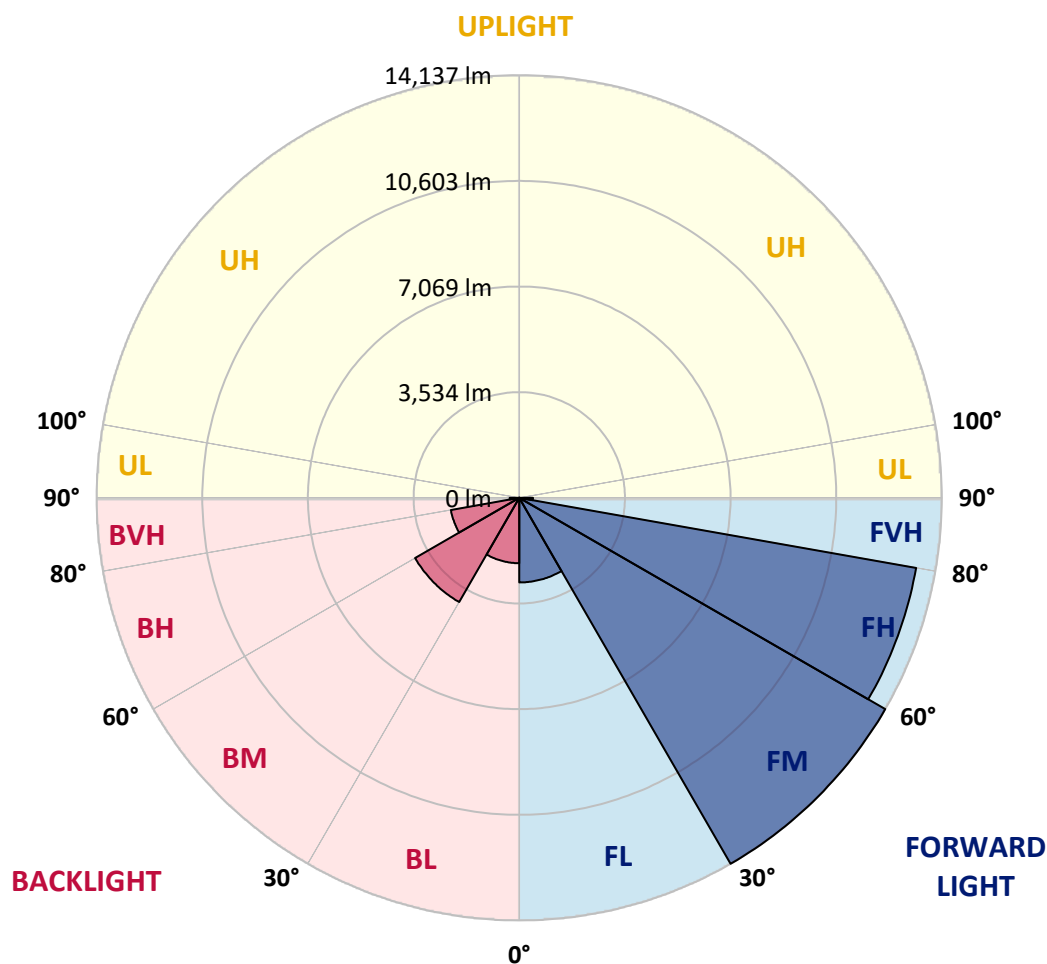
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2829.9	7.1			
FM	(30°-60°)	14137.2	35.6			
FH	(60°-80°)	13481.7	33.9			G5
FVH	(80°-90°)	459.0	1.2			G3/500
BL	(0°-30°)	2188.3	5.5	B3/2500		
BM	(30°-60°)	4024.5	10.1	B3/5000		
BH	(60°-80°)	2322.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	320.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4
2.5°	5231.3	5236.8	5232.7	5243.6	5231.3	5239.5	5232.7	5232.7	5228.5	5216.2	5202.5
5°	5313.5	5324.4	5317.6	5328.5	5313.5	5316.2	5303.9	5303.9	5291.6	5265.5	5238.1
7.5°	5442.2	5454.6	5449.1	5460.0	5439.5	5439.5	5423.1	5421.7	5397.0	5354.6	5323.1
10°	5595.7	5612.1	5606.6	5623.1	5606.6	5612.1	5595.7	5595.7	5562.8	5502.5	5462.8
12.5°	5818.9	5839.5	5824.4	5823.0	5816.2	5827.2	5813.5	5810.7	5780.6	5698.4	5643.6
15°	6117.6	6139.5	6108.0	6105.2	6066.9	6062.8	6062.8	6058.7	6039.5	5940.8	5850.4
17.5°	6461.4	6468.2	6440.8	6397.0	6347.7	6316.2	6312.1	6323.0	6323.0	6208.0	6064.1
20°	6798.3	6810.7	6788.8	6739.4	6676.4	6629.9	6597.0	6618.9	6617.5	6480.6	6276.5
22.5°	7165.5	7194.2	7161.3	7098.3	7024.4	6972.3	6914.8	6934.0	6935.3	6766.8	6484.7
25°	7640.8	7614.8	7594.2	7505.2	7399.7	7346.3	7292.8	7312.0	7306.5	7075.0	6699.7
27.5°	8061.3	8066.8	8039.4	7944.9	7823.0	7705.2	7702.4	7714.7	7694.2	7395.6	6902.5
30°	8550.3	8553.1	8514.7	8429.8	8296.9	8144.9	8109.3	8129.8	8086.0	7699.7	7116.1
32.5°	9036.6	9050.3	9007.8	8905.1	8798.3	8613.3	8542.1	8555.8	8446.2	8010.6	7336.7
35°	9462.6	9481.8	9468.1	9399.6	9283.2	9124.3	9039.3	9031.1	8895.5	8391.4	7628.4
37.5°	9896.8	9914.7	9899.6	9842.1	9795.5	9627.0	9581.8	9581.8	9346.2	8780.5	7999.7
40°	10343.4	10370.8	10353.0	10273.5	10233.8	10157.1	10048.9	10022.9	9768.1	9247.6	8605.1
42.5°	10758.5	10794.1	10865.3	10818.7	10737.9	10748.9	10531.1	10517.4	10331.1	9937.9	9365.4
45°	11347.5	11399.5	11520.1	11484.5	11468.0	11407.7	11148.9	11136.5	11065.3	10866.7	10309.2
47.5°	11989.9	12061.1	12278.9	12285.8	12462.5	12348.8	11996.8	11954.3	11970.7	11979.0	11461.2
50°	12581.7	12659.7	13017.3	13185.8	13602.2	13626.8	13063.8	13025.5	13089.9	13278.9	12803.6
52.5°	13054.3	13152.9	13599.4	14120.0	14833.6	15036.4	14377.5	14348.7	14396.7	14722.7	14321.3
55°	13400.8	13507.7	13993.9	14941.8	16081.5	16439.0	15889.7	15862.4	15892.5	16307.5	15971.9
57.5°	13481.6	13507.7	14213.1	15495.2	17134.9	17993.8	17740.4	17685.6	17537.6	17899.3	17793.8
60°	13102.2	13206.3	14032.3	15689.8	17949.9	19526.6	19674.5	19606.0	19191.0	19486.9	19401.9
62.5°	12332.4	12518.7	13357.0	15393.9	18269.1	20778.6	21571.7	21489.5	20774.5	20966.3	20558.0
65°	11074.9	11154.3	12035.1	14373.4	17863.6	21579.9	23263.4	23222.3	22322.4	22022.4	20771.7
67.5°	8825.7	8975.0	9722.9	12240.6	16204.8	21485.4	24571.6	24567.5	23333.3	22414.1	20014.2
69°	6972.3	7127.1	7839.4	10083.1	14339.1	20621.1	24790.7	24838.7	23618.2	22175.8	18932.1
70°	5558.7	5738.1	6227.1	8492.8	12683.0	19481.4	24608.6	24694.9	23563.4	21782.7	17933.5
72.5°	2365.7	2510.9	2858.8	4377.9	7729.8	14547.3	22500.4	22826.4	22293.6	19936.2	14821.3
75°	1032.8	1078.0	1235.6	1784.9	3431.4	7917.5	17626.7	18229.4	19062.2	16851.4	11040.6
77.5°	756.1	775.3	861.6	1047.9	1539.7	2990.3	11335.1	11685.8	13747.4	12262.5	6772.3
80°	584.9	598.6	665.7	769.8	1005.4	1209.5	5169.6	5471.0	7729.8	6298.4	2820.4
82.5°	465.7	475.3	521.9	567.1	694.5	732.8	1716.4	1904.0	2853.3	1739.7	746.5
85°	432.9	443.8	460.3	413.7	445.2	430.1	742.4	776.7	861.6	683.5	312.3
87.5°	195.9	231.5	456.1	321.9	237.0	189.0	304.1	317.8	357.5	358.9	138.4
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°	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4	5198.4
2.5°	5210.7	5206.6	5213.5	5197.0	5217.6	5216.2	5209.4	5212.1	5225.8	5224.4	5225.8
5°	5242.2	5239.5	5247.7	5235.4	5260.1	5268.3	5269.6	5282.0	5297.0	5301.1	5301.1
7.5°	5321.7	5321.7	5325.8	5309.4	5325.8	5324.4	5317.6	5329.9	5345.0	5346.4	5345.0
10°	5458.7	5460.0	5453.2	5410.7	5397.0	5360.1	5325.8	5327.2	5346.4	5361.4	5365.5
12.5°	5631.3	5625.8	5595.7	5517.6	5460.0	5384.7	5349.1	5347.7	5366.9	5379.2	5383.3
15°	5828.5	5813.5	5735.4	5608.0	5506.6	5432.7	5375.1	5361.4	5350.5	5336.8	5338.1
17.5°	6014.8	5980.6	5850.4	5673.7	5566.9	5468.3	5357.3	5268.3	5206.6	5171.0	5160.1
20°	6203.9	6136.7	5949.1	5735.4	5599.8	5420.3	5206.6	5025.8	4913.5	4861.4	4851.9
22.5°	6376.4	6268.2	6040.8	5799.8	5573.7	5258.7	4923.1	4660.1	4503.9	4434.1	4439.5
25°	6544.9	6394.3	6136.7	5845.0	5442.2	4973.8	4528.6	4205.3	4024.5	3946.4	3943.7
27.5°	6692.9	6521.6	6240.8	5808.0	5197.0	4568.3	4061.5	3746.4	3595.7	3528.6	3517.7
30°	6862.7	6681.9	6379.2	5666.9	4838.2	4099.8	3605.3	3383.4	3276.6	3209.5	3197.1
32.5°	7069.6	6899.7	6492.9	5410.7	4379.3	3610.8	3249.2	3094.4	2997.1	2921.8	2908.1
35°	7370.9	7187.4	6521.6	5043.6	3875.2	3224.5	2987.5	2828.6	2697.1	2599.9	2590.3
37.5°	7749.0	7547.6	6455.9	4568.3	3386.2	2973.8	2769.7	2573.9	2402.6	2265.7	2243.7
40°	8294.2	7990.1	6273.7	4020.4	3025.9	2780.7	2557.4	2334.1	2121.8	1961.6	1930.1
42.5°	8948.9	8509.2	5994.3	3475.2	2761.5	2584.8	2346.5	2069.8	1867.0	1753.4	1736.9
45°	9781.8	9048.9	5606.6	2998.5	2501.3	2388.9	2119.1	1864.3	1738.3	1654.7	1641.0
47.5°	10732.4	9654.4	5199.8	2610.9	2280.7	2205.4	1936.9	1772.5	1672.5	1606.8	1594.5
50°	11900.9	10337.9	4768.3	2293.1	2058.8	1984.8	1850.6	1721.8	1642.4	1591.7	1579.4
52.5°	13218.6	11109.1	4457.3	2042.4	1875.3	1821.8	1805.4	1694.5	1630.1	1591.7	1579.4
55°	14637.7	11894.0	4121.7	1831.4	1716.4	1731.4	1775.3	1697.2	1653.4	1606.8	1589.0
57.5°	16058.2	12705.0	3747.8	1653.4	1590.3	1664.3	1754.7	1702.7	1665.7	1620.5	1604.0
60°	17181.5	13218.6	3168.4	1504.0	1490.3	1590.3	1705.4	1661.6	1613.6	1615.0	1612.3
62.5°	17706.1	13191.2	2528.7	1371.2	1390.4	1490.3	1626.0	1597.2	1557.5	1610.9	1615.0
65°	17411.6	12533.7	1968.4	1250.6	1283.5	1386.2	1543.8	1565.7	1579.4	1682.1	1695.8
67.5°	16176.0	11254.3	1524.6	1145.2	1186.3	1315.0	1552.0	1705.4	1723.2	1831.4	1830.1
69°	14898.0	10054.4	1324.6	1090.4	1138.3	1332.8	1658.8	1794.4	1727.3	1842.4	1826.0
70°	13826.8	9105.1	1217.8	1053.4	1116.4	1364.3	1730.1	1793.1	1706.8	1805.4	1778.0
72.5°	10648.9	6550.4	1032.8	984.9	1042.4	1305.4	1750.6	1753.4	1658.8	1678.0	1631.4
75°	7303.8	4139.6	901.3	891.7	930.1	1176.7	1684.9	1675.3	1534.2	1506.8	1468.4
77.5°	4027.2	2102.7	765.7	802.7	828.7	1042.4	1531.4	1517.7	1401.3	1343.8	1330.1
80°	1553.4	920.5	646.5	713.7	730.1	902.7	1342.4	1330.1	1232.8	1158.9	1138.3
82.5°	586.3	482.2	534.2	617.8	612.3	745.2	1136.9	1130.1	1035.6	927.4	894.5
85°	271.2	289.0	423.3	509.6	469.8	552.0	909.6	921.9	806.8	678.1	678.1
87.5°	115.1	161.6	300.0	384.9	316.4	372.6	667.1	637.0	584.9	405.5	380.8
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 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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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)