

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: P317941

Luminaire Tested: **GLEON-SA7D-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44591 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

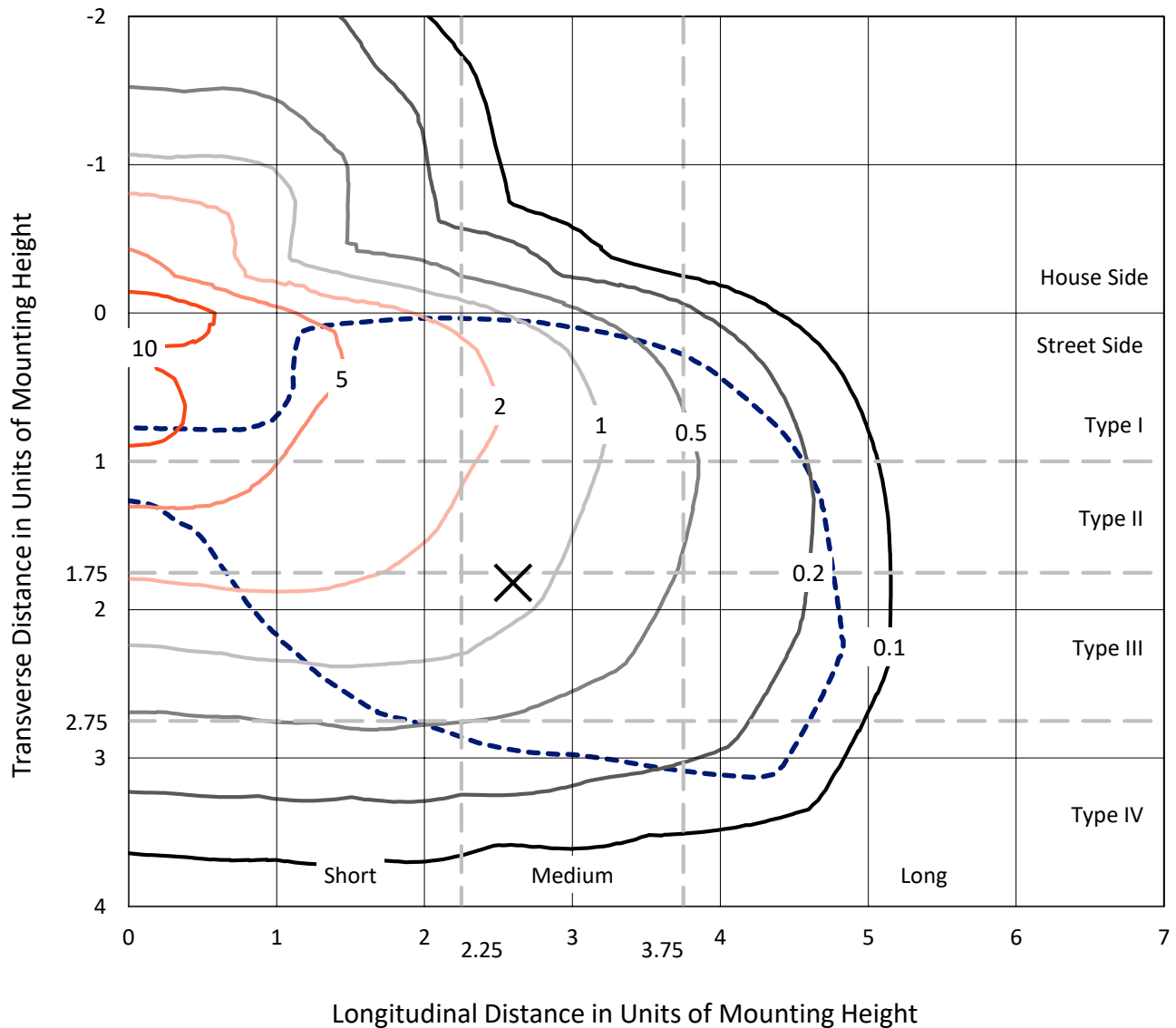
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

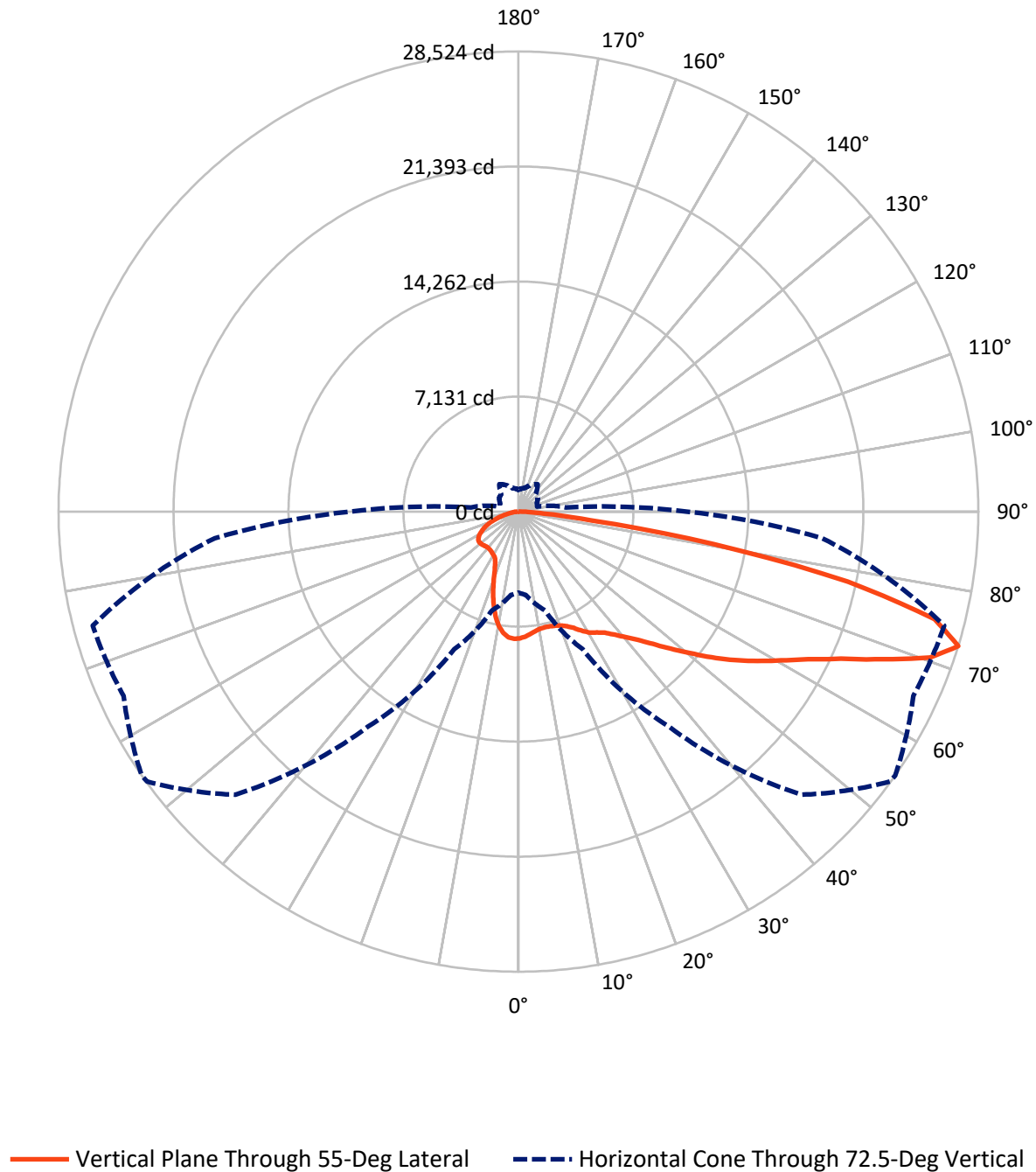
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA7D-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8288.0	0.0	8288.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	36303.0	0.0	36303.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	44591.0	0.0	44591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	711.7	1.6
10°-20°	1894.8	4.2
20°-30°	3124.0	7.0
30°-40°	4621.1	10.4
40°-50°	6450.1	14.5
50°-60°	8398.3	18.8
60°-70°	10321.3	23.1
70°-80°	8090.6	18.1
80°-90°	979.1	2.2
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°	44591.0	100.0
0°-180°	44591.0	100.0

Coefficient of Utilization



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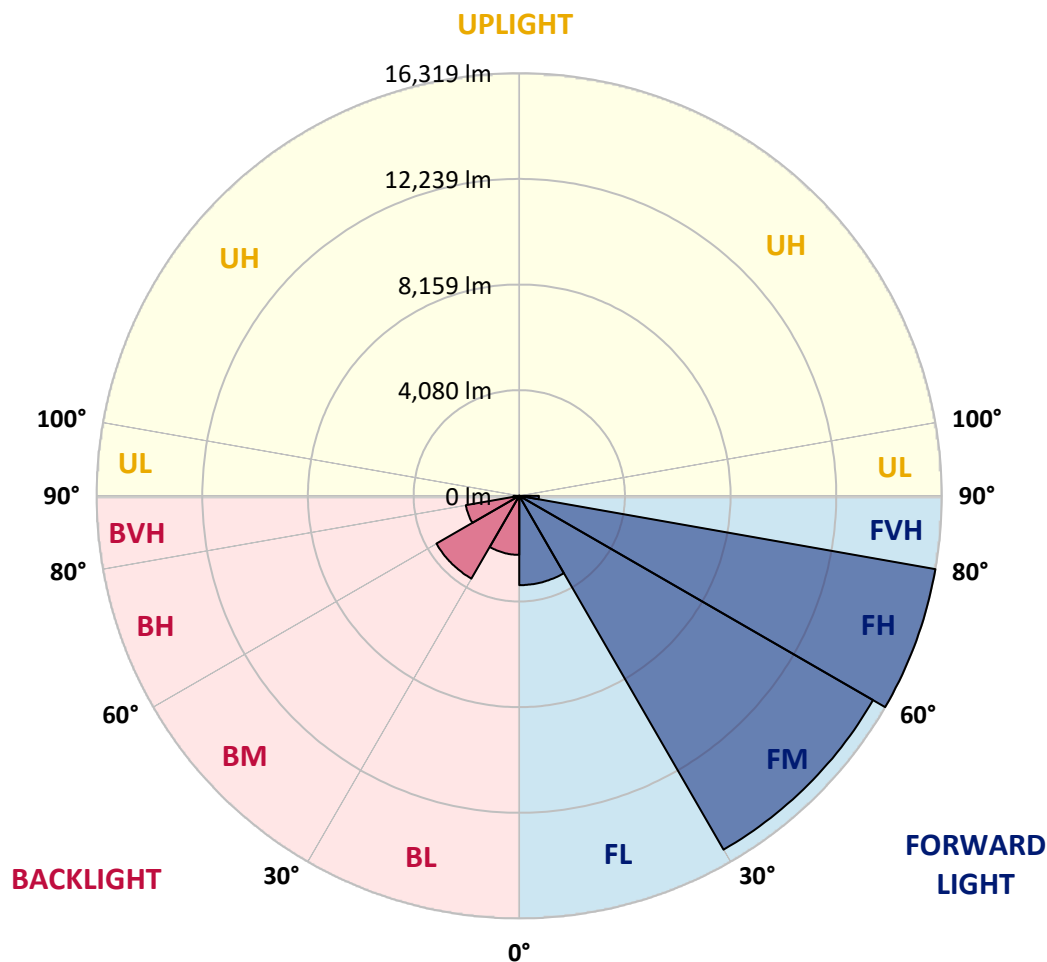
CATALOG NUMBER: GLEON-SA7D-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3450.0	7.7			
FM	(30°-60°)	15777.2	35.4			
FH	(60°-80°)	16318.8	36.6			G5
FVH	(80°-90°)	757.0	1.7			G5
BL	(0°-30°)	2280.4	5.1	B3/2500		
BM	(30°-60°)	3692.4	8.3	B3/5000		
BH	(60°-80°)	2093.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	222.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9
2.5°	7608.9	7590.8	7613.4	7645.0	7679.6	7726.3	7753.4	7765.5	7812.2	7830.3	7869.4
5°	7256.4	7247.4	7285.0	7339.3	7416.1	7524.5	7611.9	7628.4	7751.9	7839.3	7919.1
7.5°	7000.4	7000.4	7044.1	7108.8	7194.7	7340.8	7464.3	7486.9	7696.2	7884.5	8032.1
10°	6797.1	6804.6	6855.8	6932.6	7033.5	7188.7	7352.8	7378.4	7681.1	7989.9	8224.9
12.5°	6661.5	6679.6	6726.3	6795.6	6920.6	7108.8	7316.7	7351.3	7712.8	8140.5	8456.8
15°	6747.4	6777.5	6782.0	6810.6	6879.9	7084.7	7337.8	7373.9	7780.6	8294.1	8720.4
17.5°	7123.9	7134.4	7087.7	7027.5	6994.4	7125.4	7401.0	7438.7	7861.9	8446.3	8973.4
20°	7696.2	7690.2	7589.3	7426.6	7257.9	7279.0	7504.9	7544.1	7971.8	8580.3	9226.4
22.5°	8419.1	8398.1	8242.9	7943.2	7655.5	7535.1	7687.2	7720.3	8137.5	8771.6	9497.5
25°	9295.7	9249.0	9044.2	8642.0	8218.8	7908.6	7961.3	7992.9	8378.5	8985.4	9746.0
27.5°	10220.4	10173.8	9913.2	9426.7	8863.4	8380.0	8339.3	8366.4	8652.6	9143.6	9929.8
30°	11187.4	11137.7	10899.7	10354.5	9547.2	8868.0	8691.7	8702.3	8845.4	9229.4	10080.4
32.5°	12158.8	12112.1	11845.5	11213.0	10289.7	9392.1	8946.3	8932.7	8961.3	9318.3	10250.6
35°	13143.8	13161.9	12850.1	12149.8	11112.1	9974.9	9247.5	9218.9	9155.6	9500.5	10491.5
37.5°	14198.1	14186.0	13782.4	13050.4	11972.0	10607.5	9679.8	9675.2	9456.8	9845.4	10869.6
40°	14902.9	14910.5	14665.0	13972.2	12841.1	11307.9	10234.0	10223.5	9937.3	10362.0	11365.1
42.5°	15178.6	15228.3	15291.5	14851.7	13750.8	12119.6	10895.2	10880.1	10607.5	11103.0	11948.0
45°	15198.1	15297.5	15689.1	15633.4	14672.5	13048.9	11740.1	11697.9	11502.1	12088.0	12643.8
47.5°	15029.4	15131.9	15782.5	16098.8	15496.3	14029.4	12728.1	12695.0	12526.3	13320.0	13396.8
50°	14660.4	14758.3	15589.7	16326.2	16174.1	14972.2	13866.7	13779.4	13689.0	14743.3	14258.3
52.5°	13969.1	14157.4	15332.2	16380.4	16579.2	15809.6	15064.1	15006.9	15056.6	16244.9	15121.3
55°	12332.0	12542.9	14668.0	16335.2	16878.9	16513.0	16261.4	16258.4	16516.0	17820.3	16047.6
57.5°	11414.8	11563.9	13315.5	16258.4	17234.4	17211.8	17446.7	17475.4	17976.9	19535.7	17017.5
60°	10896.7	11053.3	12630.2	15973.8	17785.6	18115.5	18656.2	18713.4	19461.9	21434.9	18184.7
62.5°	10425.3	10597.0	12205.5	15393.9	18434.8	19407.7	20105.0	20156.2	21034.3	23386.8	19312.8
65°	9619.5	9813.8	11583.5	15012.9	19025.1	21093.0	21947.0	21981.6	22840.1	25432.1	20175.8
67.5°	8480.9	8658.6	10410.2	14171.0	19461.9	23139.8	24395.9	24415.5	24630.9	26876.5	20617.1
70°	7151.0	7218.8	8738.4	12432.9	18945.3	25054.1	27079.8	27084.3	26263.5	27801.2	20544.8
72.5°	5024.4	5184.0	6343.7	9411.7	16281.0	24820.7	28473.0	28524.2	27022.6	27334.3	18903.2
75°	3081.5	3250.2	3979.1	5703.6	10328.9	19520.7	26307.2	26662.6	25599.3	24371.8	15442.1
77.5°	2060.4	2123.6	2596.5	3325.5	4679.5	11231.0	20225.5	20894.2	21266.2	17773.6	9875.5
80°	1149.2	1269.6	1721.5	2066.4	2081.4	4462.6	12127.2	12283.8	11832.0	7077.2	3046.9
82.5°	608.5	674.7	1149.2	1213.9	1135.6	1494.1	4519.8	4524.3	3780.3	1897.7	905.2
85°	471.4	527.1	787.7	741.0	579.9	662.7	1491.0	1572.4	1286.2	777.2	295.2
87.5°	235.0	292.2	534.7	469.9	227.4	189.8	533.2	569.3	507.6	304.2	106.9
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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CATALOG NUMBER: GLEON-SA7D-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9	7864.9
2.5°	7884.5	7898.0	7914.6	7896.5	7890.5	7866.4	7825.7	7816.7	7795.6	7797.1	7809.2
5°	7953.8	7976.3	7967.3	7898.0	7815.2	7699.2	7578.7	7476.3	7408.5	7404.0	7399.5
7.5°	8086.3	8101.4	8030.6	7833.3	7601.3	7333.2	7080.2	6858.8	6724.8	6691.6	6684.1
10°	8294.1	8291.1	8096.8	7699.2	7236.8	6757.9	6351.3	6044.0	5864.8	5812.1	5798.5
12.5°	8526.1	8491.4	8119.4	7455.2	6721.8	6057.6	5542.5	5200.6	5013.8	4953.6	4938.5
15°	8765.5	8679.7	8063.7	7090.8	6089.2	5303.0	4762.3	4446.0	4345.1	4312.0	4306.0
17.5°	8988.4	8822.8	7904.1	6596.8	5367.8	4551.5	4129.7	4003.2	4027.3	4071.0	4072.5
20°	9206.8	8919.2	7648.0	5973.2	4607.2	3932.4	3789.4	3882.7	3997.2	4086.1	4098.1
22.5°	9422.2	8986.9	7318.2	5253.3	3926.4	3584.5	3685.4	3855.6	3986.7	4083.1	4099.6
25°	9602.9	9003.5	6863.3	4485.2	3453.5	3453.5	3635.7	3796.9	3926.4	4021.3	4037.9
27.5°	9669.2	8892.1	6221.7	3774.3	3215.5	3393.3	3566.5	3700.5	3810.5	3911.4	3929.4
30°	9694.8	8685.7	5480.7	3203.5	3117.6	3328.5	3473.1	3587.5	3691.5	3786.4	3802.9
32.5°	9699.3	8437.2	4694.5	2879.7	3049.9	3260.7	3357.1	3458.0	3569.5	3607.1	3613.2
35°	9727.9	8143.5	3866.2	2714.0	2986.6	3197.5	3274.3	3346.6	3165.8	3179.4	3191.4
37.5°	9810.8	7852.8	3173.4	2620.6	2945.9	3164.3	3256.2	2994.1	2852.6	2819.4	2814.9
40°	9965.9	7542.6	2659.8	2545.3	2930.9	3180.9	3140.2	2795.3	2551.3	2369.1	2342.0
42.5°	10181.3	7208.2	2331.5	2495.6	2941.4	3260.7	2979.1	2604.1	2198.9	2081.4	2066.4
45°	10423.8	6857.3	2153.7	2461.0	2977.6	3322.5	2945.9	2349.5	2034.8	1945.9	1938.4
47.5°	10658.7	6428.1	2061.9	2445.9	3027.3	3272.8	2805.9	2271.2	1956.4	1909.7	1914.3
50°	10928.3	6041.0	2006.1	2429.4	3071.0	3241.1	2647.7	2230.5	1926.3	1983.5	2043.8
52.5°	11155.7	5640.4	1956.4	2396.2	3087.5	3185.4	2607.1	2238.1	1926.3	2036.3	2093.5
55°	11425.3	5337.6	1899.2	2326.9	3055.9	3027.3	2578.5	2283.3	1948.9	1879.6	1885.6
57.5°	11773.2	5238.2	1835.9	2218.5	2950.5	2796.8	2564.9	2326.9	1935.3	1891.7	1906.7
60°	12255.2	5343.7	1810.3	2076.9	2786.3	2616.1	2566.4	2304.3	1840.5	1765.2	1766.7
62.5°	12714.6	5461.1	1808.8	1988.1	2584.5	2455.0	2531.8	2230.5	1792.3	1748.6	1765.2
65°	12865.2	5342.2	1736.5	1888.7	2357.1	2262.2	2468.5	2152.2	1756.1	1689.9	1686.8
67.5°	12663.4	4973.2	1590.4	1727.5	2096.5	2037.8	2385.7	2058.8	1698.9	1644.7	1635.6
70°	12063.9	4149.3	1409.7	1515.1	1799.8	1784.7	2254.6	1950.4	1622.1	1575.4	1536.2
72.5°	10450.9	2956.5	1188.3	1260.6	1465.4	1513.6	2073.9	1808.8	1513.6	1412.7	1352.5
75°	8583.3	2188.4	976.0	991.0	1113.0	1244.0	1825.4	1643.2	1385.6	1213.9	1167.2
77.5°	5256.3	1338.9	777.2	783.2	798.2	992.5	1503.1	1457.9	1223.0	1012.1	979.0
80°	1701.9	730.5	561.8	590.4	545.2	727.4	1162.7	1241.0	1049.8	846.4	810.3
82.5°	647.6	426.2	379.5	399.1	378.0	488.0	847.9	994.0	860.0	695.8	566.3
85°	313.3	241.0	224.4	251.5	233.4	250.0	542.2	732.0	652.1	453.3	421.7
87.5°	111.5	106.9	85.8	116.0	99.4	88.9	165.7	369.0	430.7	311.8	278.6
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 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)