

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: P320182

Luminaire Tested: **GLEON-SA8D-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46955 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

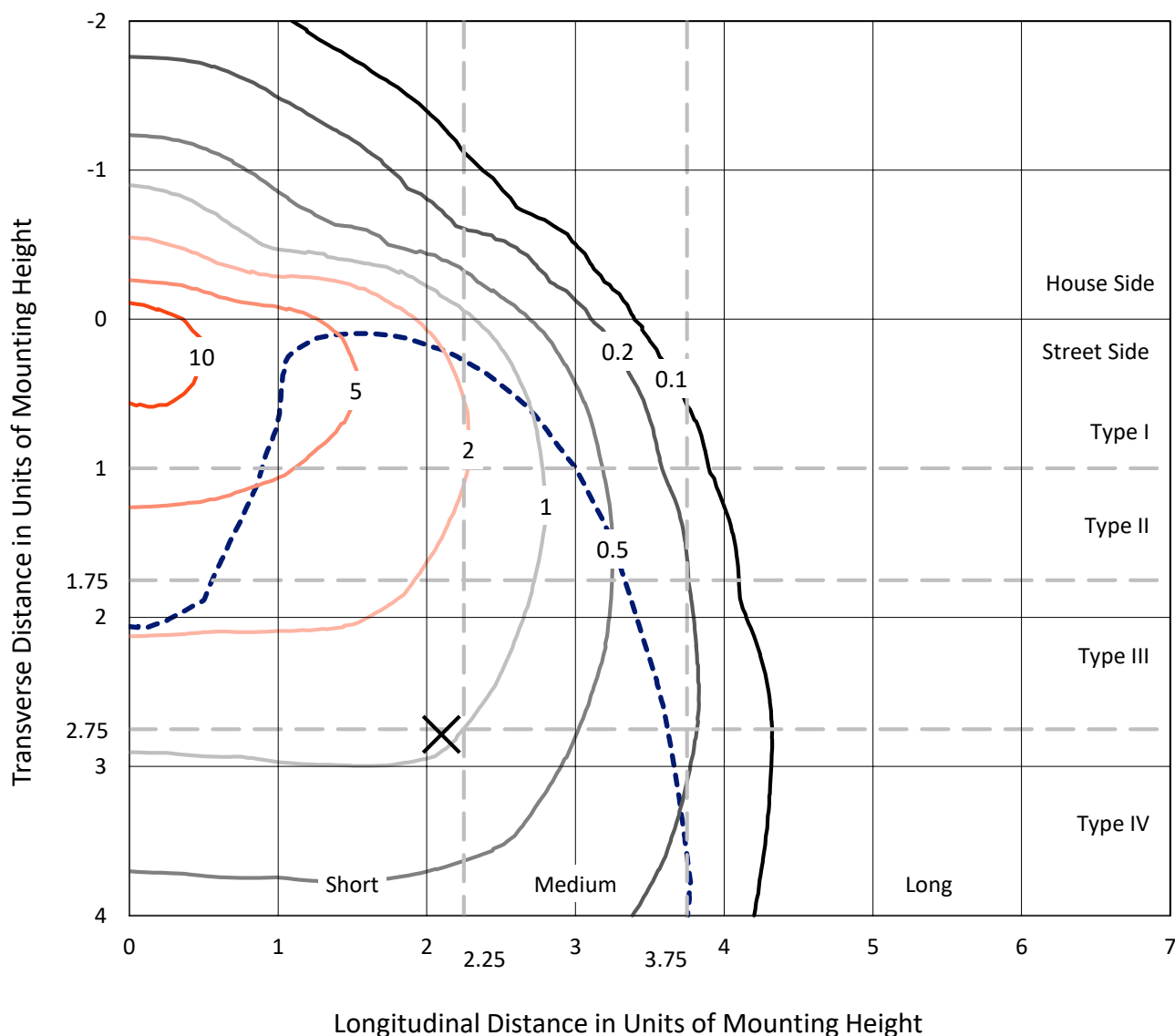
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

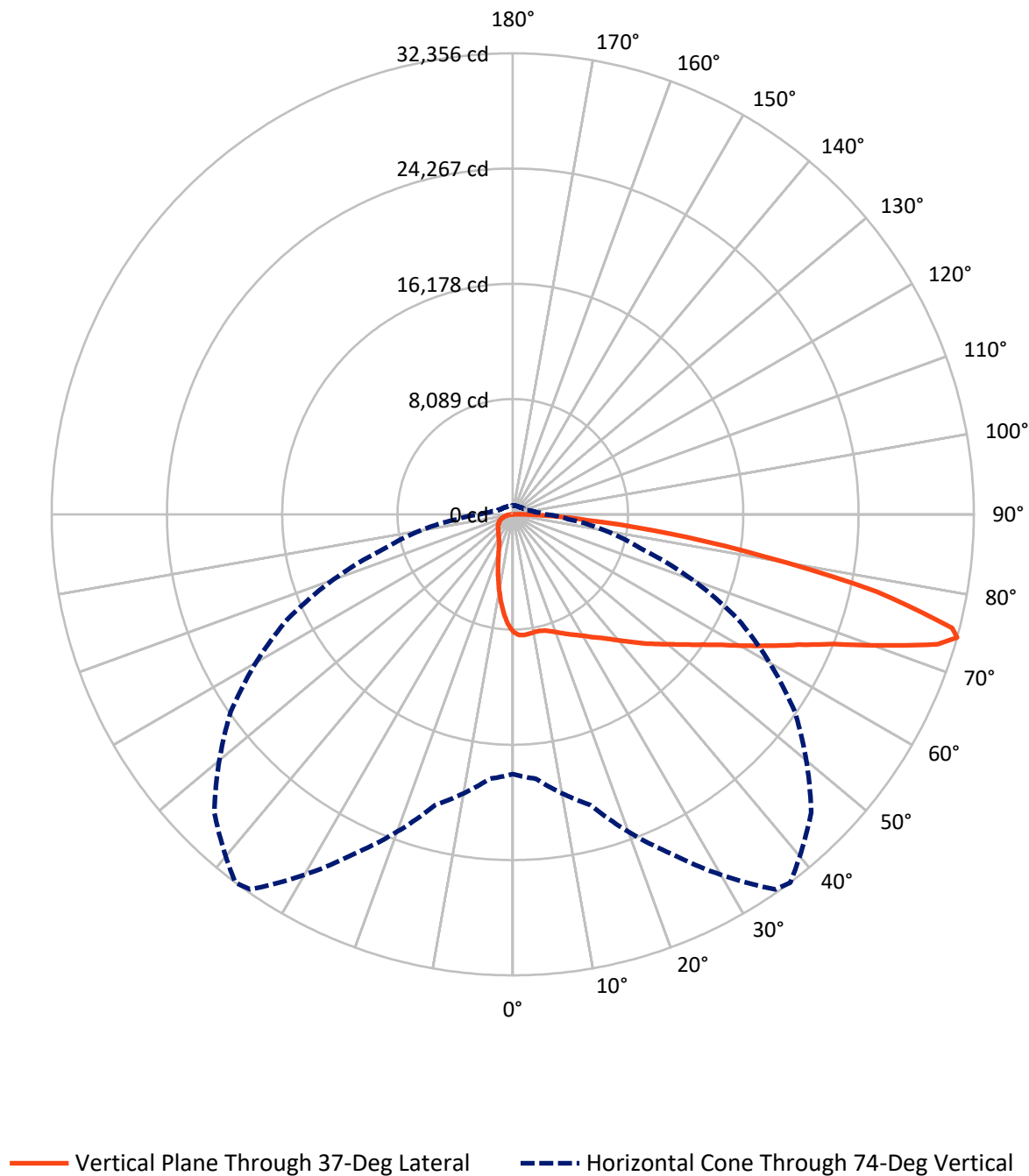
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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CATALOG NUMBER: GLEON-SA8D-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6460.7	0.0	6460.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	40494.3	0.0	40494.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	46955.0	0.0	46955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.6	1.6
10°-20°	1867.5	4.0
20°-30°	2877.4	6.1
30°-40°	4184.2	8.9
40°-50°	6158.4	13.1
50°-60°	8648.4	18.4
60°-70°	10946.2	23.3
70°-80°	9638.6	20.5
80°-90°	1905.7	4.1
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°	46955.0	100.0
0°-180°	46955.0	100.0

Coefficient of Utilization



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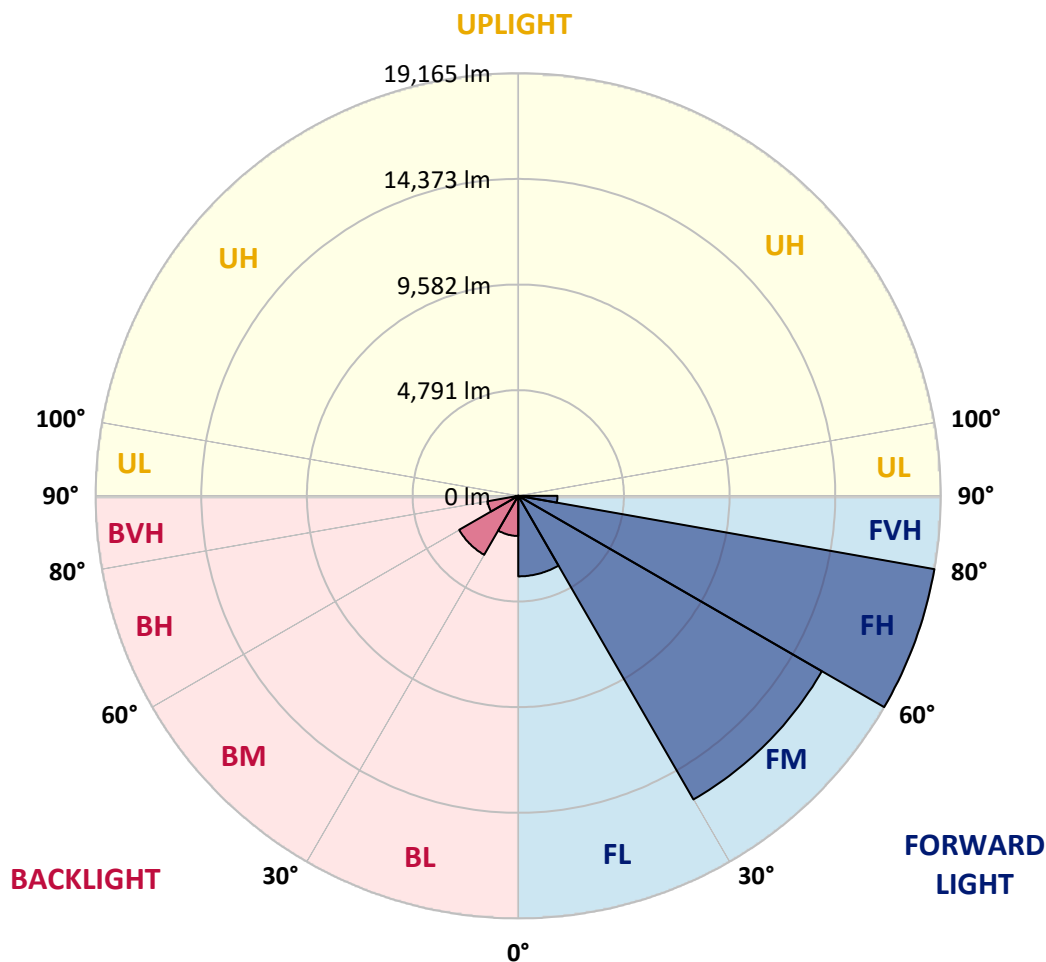
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3653.7	7.8			
FM	(30°-60°)	15899.3	33.9			
FH	(60°-80°)	19164.6	40.8			G5
FVH	(80°-90°)	1776.7	3.8			G5
BL	(0°-30°)	1819.8	3.9	B3/2500		
BM	(30°-60°)	3091.7	6.6	B3/5000		
BH	(60°-80°)	1420.1	3.0	B3/2500		G3/2500
BVH	(80°-90°)	129.0	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3
2.5°	8556.1	8557.8	8556.1	8542.9	8511.5	8485.0	8463.5	8432.1	8362.6	8309.7	8230.3
5°	8637.2	8627.2	8620.6	8595.8	8546.2	8516.4	8475.1	8415.5	8301.4	8195.6	8066.5
7.5°	8599.1	8587.5	8572.7	8542.9	8486.7	8461.8	8404.0	8326.2	8188.9	8050.0	7864.8
10°	8481.7	8478.4	8471.8	8465.2	8417.2	8397.3	8344.4	8261.7	8126.1	7957.4	7740.7
12.5°	8351.0	8359.3	8385.8	8420.5	8399.0	8389.1	8356.0	8299.8	8160.8	7978.9	7717.5
15°	8268.3	8291.5	8362.6	8453.6	8471.8	8468.5	8460.2	8423.8	8276.6	8074.8	7770.5
17.5°	8240.2	8278.3	8413.9	8564.4	8617.3	8628.9	8632.2	8569.4	8405.6	8192.2	7825.1
20°	8291.5	8339.4	8537.9	8744.7	8829.0	8835.6	8820.8	8711.6	8528.0	8293.1	7854.8
22.5°	8447.0	8490.0	8738.1	8971.3	9067.2	9077.1	9032.5	8867.1	8657.0	8412.2	7896.2
25°	8746.3	8799.3	9047.4	9280.6	9330.2	9331.8	9267.3	9062.2	8825.7	8579.3	7985.5
27.5°	9136.7	9189.6	9412.9	9641.1	9614.7	9599.8	9512.1	9307.0	9045.7	8809.2	8144.3
30°	9571.7	9629.6	9841.3	10003.4	9940.5	9910.7	9839.6	9575.0	9351.7	9123.4	8387.4
32.5°	10021.6	10074.5	10259.7	10370.6	10291.2	10277.9	10170.4	9928.9	9750.3	9603.1	8781.1
35°	10483.0	10521.1	10703.0	10765.9	10660.0	10656.7	10626.9	10405.3	10292.8	10362.3	9353.3
37.5°	10954.4	10964.3	11119.8	11123.1	11091.7	11104.9	11136.4	10997.4	11028.8	11245.5	10097.6
40°	11374.5	11401.0	11513.5	11548.2	11602.8	11649.1	11806.2	11715.3	11958.4	12342.1	11023.9
42.5°	11685.5	11736.8	11917.0	12006.4	12183.3	12256.1	12477.7	12562.1	13051.7	13627.3	12125.4
45°	11948.5	12027.9	12317.3	12500.9	12800.3	12927.6	13245.2	13528.0	14287.2	15021.6	13284.9
47.5°	12233.0	12333.8	12696.1	13046.7	13453.6	13597.5	14174.7	14598.2	15605.5	16424.2	14378.2
50°	12651.4	12729.2	13083.1	13633.9	14141.7	14326.9	15125.8	15732.8	16945.2	17760.6	15325.9
52.5°	13235.3	13205.5	13504.9	14277.3	14958.7	15187.0	16141.3	16940.2	18303.1	18969.7	16126.5
55°	13822.4	13772.8	13982.9	14950.5	15911.4	16151.3	17259.5	18152.6	19594.9	20058.0	16740.1
57.5°	14475.8	14381.5	14558.5	15709.7	16996.5	17282.6	18511.5	19441.1	20865.2	20937.9	17130.4
60°	15149.0	15021.6	15220.1	16650.8	18374.2	18711.7	19977.0	20698.1	22062.7	21642.5	17256.1
62.5°	15737.8	15648.5	15954.4	17701.1	19927.3	20297.8	21415.9	22034.5	23243.6	21935.3	16802.9
65°	16252.2	16267.1	16796.3	18882.0	21659.1	22054.4	23066.6	23681.9	24173.2	21761.6	15742.7
67.5°	16865.8	16950.2	17853.2	20436.8	23839.0	24272.4	25468.2	25478.2	24692.5	20742.8	13655.4
70°	17760.6	17934.3	19307.1	22593.6	26938.6	27534.1	28457.0	26533.4	23963.1	17980.6	10744.4
72.5°	18554.5	18878.7	20853.6	25061.4	30716.4	31167.9	30205.3	25924.7	20914.8	13475.1	6693.7
74°	18232.0	18633.9	21134.8	26277.0	32138.8	32355.5	29614.8	24148.3	17438.1	9331.8	3890.2
75°	17537.3	17974.0	20724.6	26265.5	31958.5	31837.8	28189.1	22118.9	14361.6	6364.6	2588.5
77.5°	14153.2	14614.7	17462.9	22510.9	26204.3	26090.1	21654.1	14838.0	6290.1	2087.3	1314.9
80°	8228.6	8580.9	10840.3	14295.5	17669.6	17876.4	14240.9	7342.1	2474.4	1172.7	891.5
82.5°	3655.3	3898.5	5236.6	7297.4	10663.3	10929.6	7457.9	3847.2	1528.3	712.9	535.9
85°	2398.3	2578.6	3179.0	3475.0	5077.8	5259.7	3650.4	2995.4	1008.9	392.0	393.7
87.5°	1725.1	1898.8	2361.9	2062.5	2330.5	2206.4	1986.4	2772.1	405.2	223.3	132.3
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3	8273.3
2.5°	8195.6	8169.1	8109.5	7997.1	7934.2	7881.3	7793.6	7742.4	7719.2	7717.5	7727.5
5°	7992.1	7930.9	7777.1	7588.5	7438.0	7300.7	7130.4	7027.8	6955.1	6912.1	6923.6
7.5°	7755.6	7659.7	7418.2	7117.1	6875.7	6609.4	6346.4	6189.3	6066.9	5975.9	5992.4
10°	7593.5	7461.2	7108.9	6675.5	6273.6	5886.6	5524.3	5307.7	5135.7	5003.3	5013.3
12.5°	7538.9	7360.3	6872.4	6293.5	5729.4	5200.2	4727.1	4394.7	4217.7	4067.2	4078.8
15°	7547.2	7307.4	6673.9	5949.4	5239.9	4573.3	3999.4	3610.7	3370.8	3266.6	3268.3
17.5°	7553.8	7246.2	6465.5	5580.6	4755.2	3987.8	3364.2	2970.6	2744.0	2648.0	2649.7
20°	7532.3	7146.9	6207.4	5157.2	4249.1	3450.2	2846.5	2512.4	2340.4	2266.0	2266.0
22.5°	7504.2	7029.5	5916.3	4732.1	3749.6	2983.8	2476.0	2221.3	2122.1	2072.5	2070.8
25°	7517.4	6941.8	5618.6	4295.4	3289.8	2611.7	2229.6	2060.9	1994.7	1963.3	1961.6
27.5°	7588.5	6900.5	5344.1	3860.4	2887.9	2332.1	2064.2	1945.1	1902.1	1882.2	1882.2
30°	7717.5	6900.5	5057.9	3489.9	2553.8	2125.4	1936.8	1855.8	1826.0	1812.8	1812.8
32.5°	7942.5	6938.5	4781.7	3122.7	2287.5	1963.3	1831.0	1776.4	1753.2	1746.6	1746.6
35°	8329.5	7067.5	4512.1	2775.4	2072.5	1831.0	1730.1	1698.7	1682.1	1680.5	1685.4
37.5°	8873.7	7330.5	4259.0	2519.0	1920.3	1723.5	1645.7	1620.9	1611.0	1619.3	1625.9
40°	9558.4	7687.8	4029.1	2287.5	1804.5	1637.5	1568.0	1551.4	1546.5	1558.1	1568.0
42.5°	10385.4	8170.7	3840.6	2120.4	1715.2	1564.7	1501.8	1482.0	1477.0	1490.3	1503.5
45°	11280.3	8690.1	3708.3	1996.4	1645.7	1510.1	1443.9	1422.4	1412.5	1419.1	1434.0
47.5°	12094.0	9181.3	3655.3	1908.7	1579.6	1463.8	1392.7	1366.2	1349.7	1346.4	1357.9
50°	12780.4	9546.9	3680.1	1855.8	1526.6	1412.5	1343.0	1313.3	1288.5	1273.6	1281.8
52.5°	13279.9	9776.8	3703.3	1832.6	1485.3	1356.3	1288.5	1260.3	1227.3	1202.5	1202.5
55°	13642.2	9829.7	3652.0	1814.4	1453.9	1295.1	1227.3	1200.8	1167.7	1139.6	1136.3
57.5°	13784.4	9680.8	3461.8	1788.0	1432.4	1237.2	1162.8	1142.9	1114.8	1081.7	1080.1
60°	13592.5	9221.0	3094.6	1731.7	1404.2	1189.2	1098.3	1085.0	1071.8	1040.4	1038.7
62.5°	12821.8	8212.1	2619.9	1617.6	1348.0	1137.9	1038.7	1045.3	1047.0	1025.5	1022.2
65°	11424.2	6826.0	2156.8	1468.7	1263.7	1076.8	977.5	1008.9	1027.1	1023.8	1018.9
67.5°	9393.0	5312.6	1827.7	1311.6	1152.8	992.4	911.4	947.7	962.6	974.2	970.9
70°	6971.6	3746.3	1511.8	1146.2	1018.9	893.2	825.3	843.5	833.6	846.8	851.8
72.5°	3886.9	2247.8	1232.2	980.8	879.9	777.4	729.4	726.1	704.6	704.6	704.6
74°	2332.1	1649.0	1083.4	878.3	795.6	701.3	659.9	645.1	625.2	626.9	625.2
75°	1875.6	1417.5	994.1	810.5	736.0	656.6	615.3	595.4	580.6	580.6	578.9
77.5°	1184.3	1076.8	800.5	645.1	588.8	540.9	512.7	486.3	486.3	484.6	483.0
80°	894.8	856.8	623.6	487.9	451.5	415.2	397.0	385.4	385.4	390.3	388.7
82.5°	613.6	645.1	438.3	340.7	322.5	296.1	292.8	294.4	289.4	282.8	281.2
85°	448.2	484.6	296.1	215.0	196.8	180.3	193.5	200.1	191.9	177.0	170.4
87.5°	172.0	317.6	158.8	89.3	82.7	71.1	82.7	86.0	92.6	72.8	74.4
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)