

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P319853

Luminaire Tested: **GLEON-SA9C-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50251 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

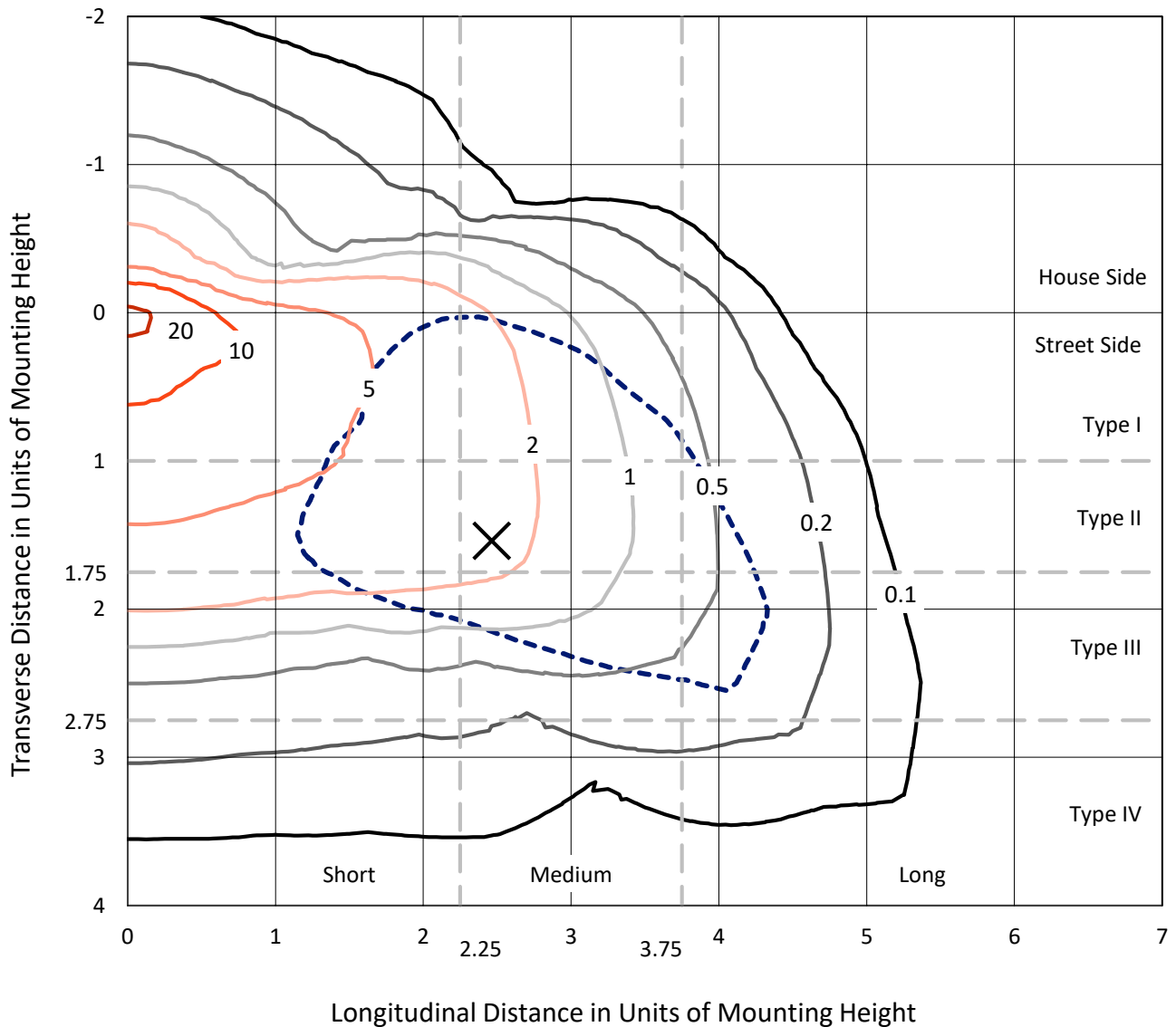
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

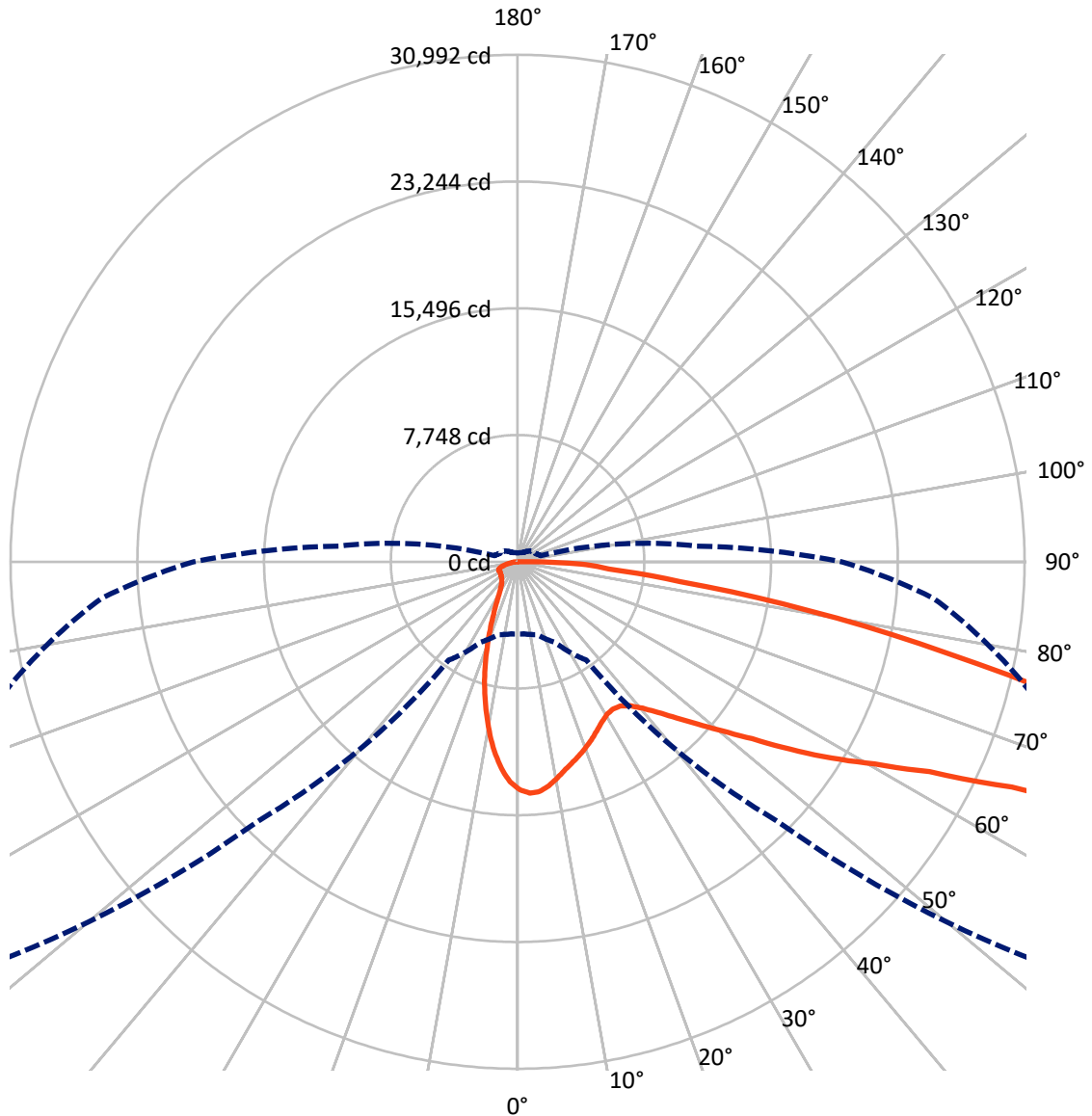
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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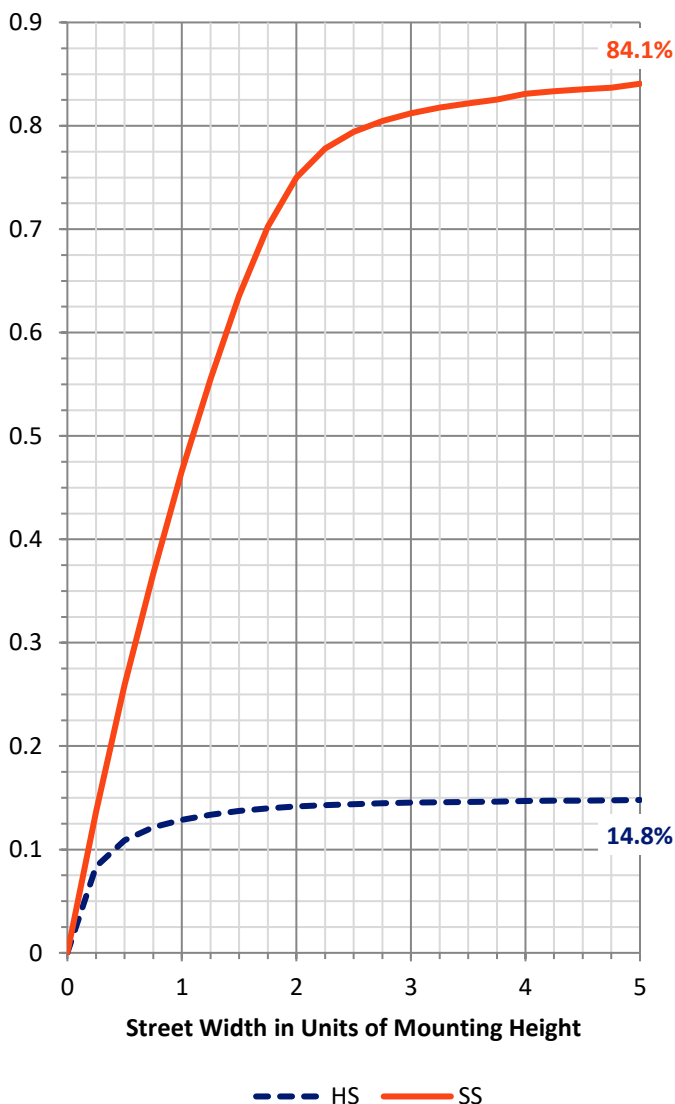
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7512.9	0.0	7512.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	42738.1	0.0	42738.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	50251.0	0.0	50251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1201.1	2.4
10°-20°	2670.8	5.3
20°-30°	3394.4	6.8
30°-40°	4323.8	8.6
40°-50°	6131.3	12.2
50°-60°	9488.4	18.9
60°-70°	12917.3	25.7
70°-80°	8617.3	17.1
80°-90°	1506.6	3.0
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°	50251.0	100.0
0°-180°	50251.0	100.0

Coefficient of Utilization

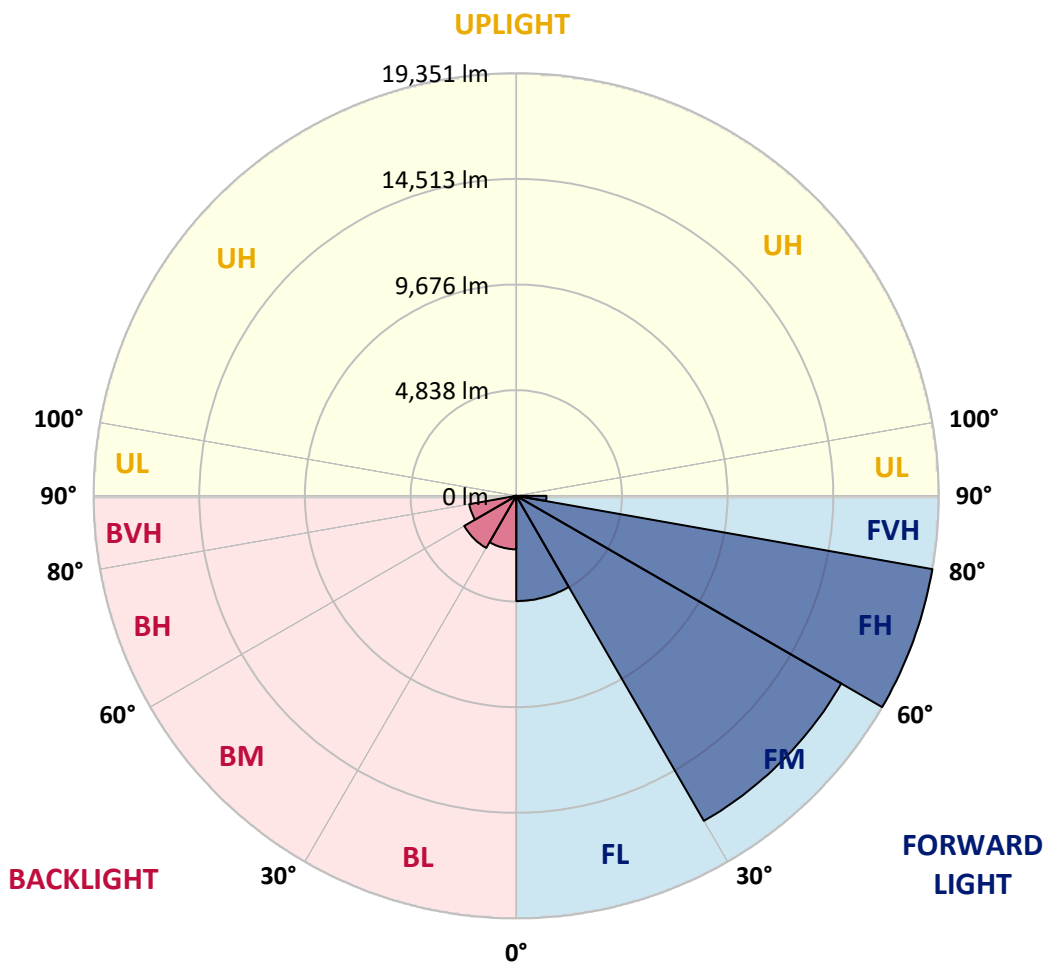


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4817.4	9.6			
FM (30°-60°)	17188.3	34.2			
FH (60°-80°)	19351.0	38.5			G5
FVH (80°-90°)	1381.4	2.7			G5
BL (0°-30°)	2449.0	4.9	B3/2500		
BM (30°-60°)	2755.2	5.5	B3/5000		
BH (60°-80°)	2183.5	4.3	B3/2500		G3/2500
BVH (80°-90°)	125.2	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9
2.5°	14292.2	14273.0	14280.0	14266.0	14232.7	14199.5	14150.4	14159.2	14090.9	13989.4	13863.4
5°	14022.7	14015.7	14068.2	14097.9	14122.4	14103.2	14089.2	14106.7	14006.9	13866.9	13648.1
7.5°	13457.3	13380.3	13446.8	13546.5	13641.1	13712.8	13807.4	13819.6	13756.6	13609.6	13322.5
10°	12653.8	12580.3	12678.3	12834.1	13023.2	13194.7	13385.5	13420.5	13432.8	13299.7	12951.4
12.5°	11820.6	11764.6	11862.6	12081.4	12394.8	12659.1	12963.7	13016.2	13124.7	13035.4	12608.3
15°	11074.9	11053.9	11173.0	11388.3	11748.9	12153.2	12592.6	12688.8	12872.6	12842.9	12340.5
17.5°	10430.8	10425.5	10516.6	10742.4	11141.5	11652.6	12223.2	12386.0	12659.1	12694.1	12119.9
20°	9951.2	9940.7	10003.7	10170.0	10581.3	11160.7	11824.1	12048.2	12442.0	12564.6	11892.4
22.5°	9693.9	9692.1	9693.9	9772.6	10108.7	10647.8	11435.5	11708.6	12230.2	12461.3	11640.3
25°	9650.1	9644.8	9606.3	9597.6	9788.4	10219.0	11050.4	11351.5	12028.9	12389.5	11400.5
27.5°	9763.9	9770.9	9720.1	9637.8	9676.4	9937.2	10716.1	11038.2	11867.9	12375.5	11234.2
30°	10000.2	9996.7	9952.9	9867.1	9791.9	9832.1	10478.0	10800.1	11759.4	12436.8	11120.5
32.5°	10261.0	10280.3	10271.5	10224.2	10112.2	9951.2	10406.3	10721.4	11727.9	12583.8	11071.4
35°	10574.3	10595.3	10658.3	10695.1	10563.8	10304.8	10560.3	10833.4	11818.9	12860.4	11150.2
37.5°	10871.9	10926.2	11103.0	11258.7	11146.7	10857.9	10969.9	11164.2	12100.7	13296.2	11362.0
40°	11215.0	11262.2	11551.1	11881.9	11864.4	11565.1	11629.8	11759.4	12597.8	13921.1	11745.4
42.5°	11552.8	11647.3	12065.7	12534.8	12669.6	12405.3	12508.5	12576.8	13298.0	14749.1	12414.0
45°	12002.7	12104.2	12685.3	13250.7	13565.8	13417.0	13581.6	13607.8	14178.4	15876.4	13385.5
47.5°	12683.6	12799.1	13476.5	14069.9	14551.3	14567.0	14838.4	14827.9	15277.7	17166.4	14609.1
50°	13744.3	13910.6	14465.5	15020.4	15605.0	15930.6	16293.0	16242.2	16595.8	18540.5	16018.1
52.5°	15134.2	15211.2	15622.5	16032.1	16758.6	17488.5	18008.4	17962.9	18090.6	19953.1	17618.0
55°	16574.8	16632.5	16802.3	17026.4	18003.1	19193.4	20292.7	20220.9	19897.1	21420.0	19198.7
57.5°	17870.1	17987.4	18104.7	18197.4	19256.4	20975.4	22629.5	22634.8	21857.6	23002.3	20831.8
60°	18071.4	18174.7	18950.1	19681.8	21400.7	23352.4	25130.9	25078.3	23886.3	24719.5	22652.3
62.5°	15974.4	16207.2	17502.5	19449.0	23466.2	27700.5	28321.9	28257.1	26312.4	26835.8	24772.0
65°	11447.8	11712.1	13275.2	16200.2	22465.0	32491.4	34080.8	33209.1	29620.7	29438.7	27254.1
67.5°	6604.4	6667.4	7344.8	9693.9	17105.2	32741.7	42866.2	41646.1	34758.2	32391.6	28468.9
70°	4883.7	4881.9	5043.0	5965.5	9256.3	26722.0	47044.4	48138.5	40167.0	33363.1	26751.8
71°	4416.3	4421.6	4601.9	5429.8	7330.8	22366.9	46157.0	48551.6	41591.9	32883.5	25509.0
72.5°	3777.4	3794.9	4045.2	4869.7	6166.7	15424.8	42334.0	46073.0	42267.5	31700.2	23564.2
75°	2865.4	2905.7	3252.3	4104.7	5636.4	7822.7	31070.1	36790.4	37548.4	27971.8	17509.5
77.5°	2044.5	2090.0	2482.1	3451.8	5358.1	5895.4	20807.3	26835.8	27632.2	17926.1	7897.9
80°	1291.8	1346.1	1641.9	2746.4	5034.2	5597.9	13075.7	18038.1	15067.7	5736.1	2009.5
82.5°	757.9	799.9	1018.7	1794.2	4111.8	5391.3	7693.1	9998.4	5863.9	1732.9	913.7
85°	439.4	458.6	635.4	1143.0	2986.2	5088.5	5652.1	5589.1	2545.1	847.2	432.4
87.5°	204.8	227.6	376.3	596.9	1657.7	3688.1	4467.1	3859.7	1582.4	397.3	203.0
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-SA9C-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9	13922.9
2.5°	13802.1	13772.3	13648.1	13537.8	13422.3	13271.7	13105.4	13084.4	12982.9	13002.2	12967.2
5°	13529.0	13453.8	13154.4	12883.1	12562.8	12275.7	11964.2	11820.6	11614.1	11600.1	11547.6
7.5°	13138.7	12998.7	12534.8	12020.2	11505.5	11015.4	10530.6	10212.0	9886.4	9748.1	9735.9
10°	12699.3	12461.3	11778.6	11017.2	10275.0	9559.1	8865.9	8353.0	7890.9	7672.1	7663.4
12.5°	12282.7	11930.9	10994.4	9958.2	8942.9	8015.2	7064.7	6390.8	5811.4	5617.1	5534.8
15°	11929.2	11433.8	10231.2	8906.2	7673.9	6385.6	5303.8	4594.9	4059.2	3873.7	3838.7
17.5°	11586.1	10948.9	9448.8	7843.7	6354.0	4938.0	3854.4	3327.6	3042.2	2967.0	2965.2
20°	11244.7	10450.0	8631.3	6756.6	5078.0	3693.4	2963.5	2727.2	2630.9	2622.1	2608.1
22.5°	10857.9	9921.4	7771.9	5666.1	3963.0	2904.0	2518.9	2424.3	2412.1	2443.6	2443.6
25°	10495.6	9396.3	6900.2	4598.4	3082.5	2422.6	2249.3	2230.0	2263.3	2319.3	2324.6
27.5°	10157.7	8890.4	6049.5	3649.6	2469.9	2133.8	2062.0	2084.8	2144.3	2209.0	2210.8
30°	9879.4	8412.5	5223.3	2875.9	2086.5	1918.5	1906.2	1951.7	2016.5	2067.3	2079.5
32.5°	9664.1	8004.7	4425.1	2312.3	1836.2	1757.4	1767.9	1806.4	1846.7	1874.7	1894.0
35°	9564.3	7654.6	3688.1	1950.0	1676.9	1633.1	1647.2	1668.2	1685.7	1706.7	1722.4
37.5°	9581.8	7383.3	3030.0	1724.2	1570.1	1547.4	1547.4	1547.4	1547.4	1557.9	1559.6
40°	9744.6	7227.5	2494.4	1580.6	1498.4	1473.9	1454.6	1437.1	1423.1	1430.1	1426.6
42.5°	10161.2	7213.5	2102.3	1489.6	1440.6	1400.3	1361.8	1337.3	1319.8	1326.8	1330.3
45°	10868.4	7388.5	1837.9	1424.8	1386.3	1325.1	1276.1	1249.8	1237.6	1260.3	1263.8
47.5°	11783.9	7770.1	1676.9	1377.6	1335.6	1255.1	1202.5	1178.0	1181.5	1214.8	1223.5
50°	12963.7	8389.8	1599.9	1347.8	1300.6	1195.5	1141.3	1120.3	1130.8	1178.0	1188.5
52.5°	14259.0	9282.5	1608.6	1339.1	1277.8	1151.8	1094.0	1069.5	1087.0	1130.8	1139.5
55°	15753.8	10355.5	1753.9	1351.3	1244.6	1123.8	1055.5	1013.5	1027.5	1067.8	1074.8
57.5°	17415.0	11584.3	2046.2	1347.8	1202.5	1097.5	1015.2	952.2	962.7	987.2	994.2
60°	19144.4	13068.7	2499.6	1358.3	1183.3	1066.0	961.0	882.2	878.7	899.7	903.2
62.5°	21220.4	14785.8	3017.7	1365.3	1195.5	1025.7	889.2	812.2	801.7	806.9	810.4
65°	23359.4	16028.6	2823.4	1337.3	1234.1	992.5	826.2	743.9	724.7	721.2	722.9
67.5°	23425.9	14696.6	1979.7	1281.3	1249.8	975.0	778.9	686.2	654.7	642.4	640.7
70°	21008.6	11939.7	1542.1	1221.8	1186.8	947.0	735.2	638.9	591.6	572.4	570.6
71°	19828.8	10990.9	1461.6	1192.0	1139.5	919.0	715.9	617.9	568.9	547.9	544.4
72.5°	17978.6	9853.1	1363.6	1144.8	1048.5	847.2	679.2	588.1	537.4	512.9	507.6
75°	12902.4	6443.3	1171.0	1020.5	868.2	675.7	595.1	528.6	484.9	455.1	451.6
77.5°	4971.2	2564.4	885.7	849.0	665.2	528.6	490.1	456.9	425.4	395.6	393.8
80°	1536.9	1146.5	645.9	638.9	481.4	393.8	381.6	372.8	360.6	329.1	322.1
82.5°	820.9	658.2	444.6	413.1	315.1	262.6	276.6	280.1	281.8	248.6	245.1
85°	392.1	348.3	250.3	234.6	183.8	147.0	169.8	183.8	185.5	152.3	141.8
87.5°	187.3	182.0	117.3	89.3	68.3	49.0	59.5	73.5	80.5	57.8	50.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

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

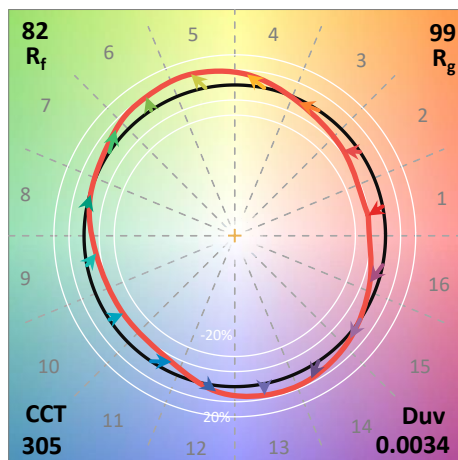
λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	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			

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics

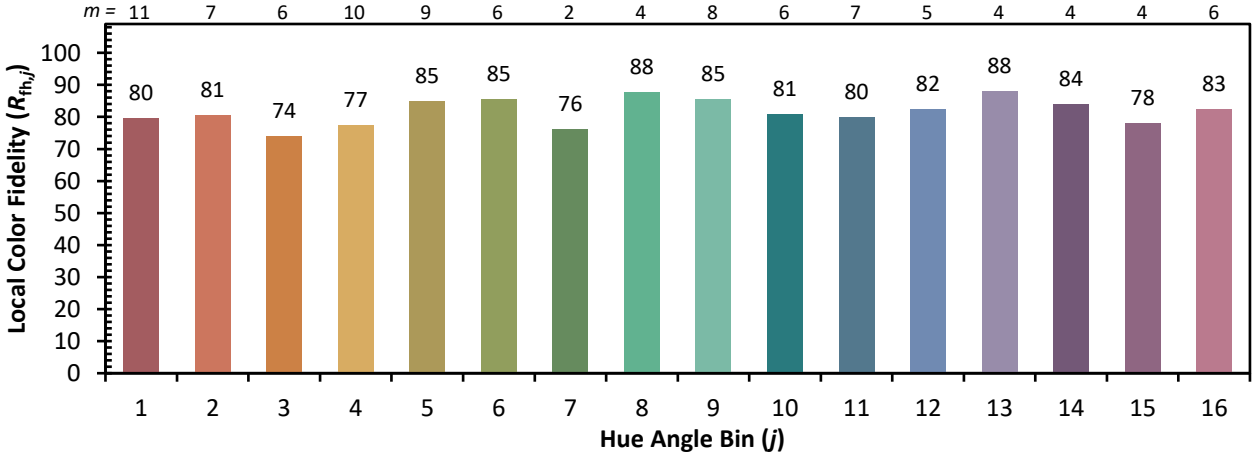


Individual Sample Fidelity Index ($R_{f,i}$)

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)