

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: P319511

Luminaire Tested: **GLEON-SA7A-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25661 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

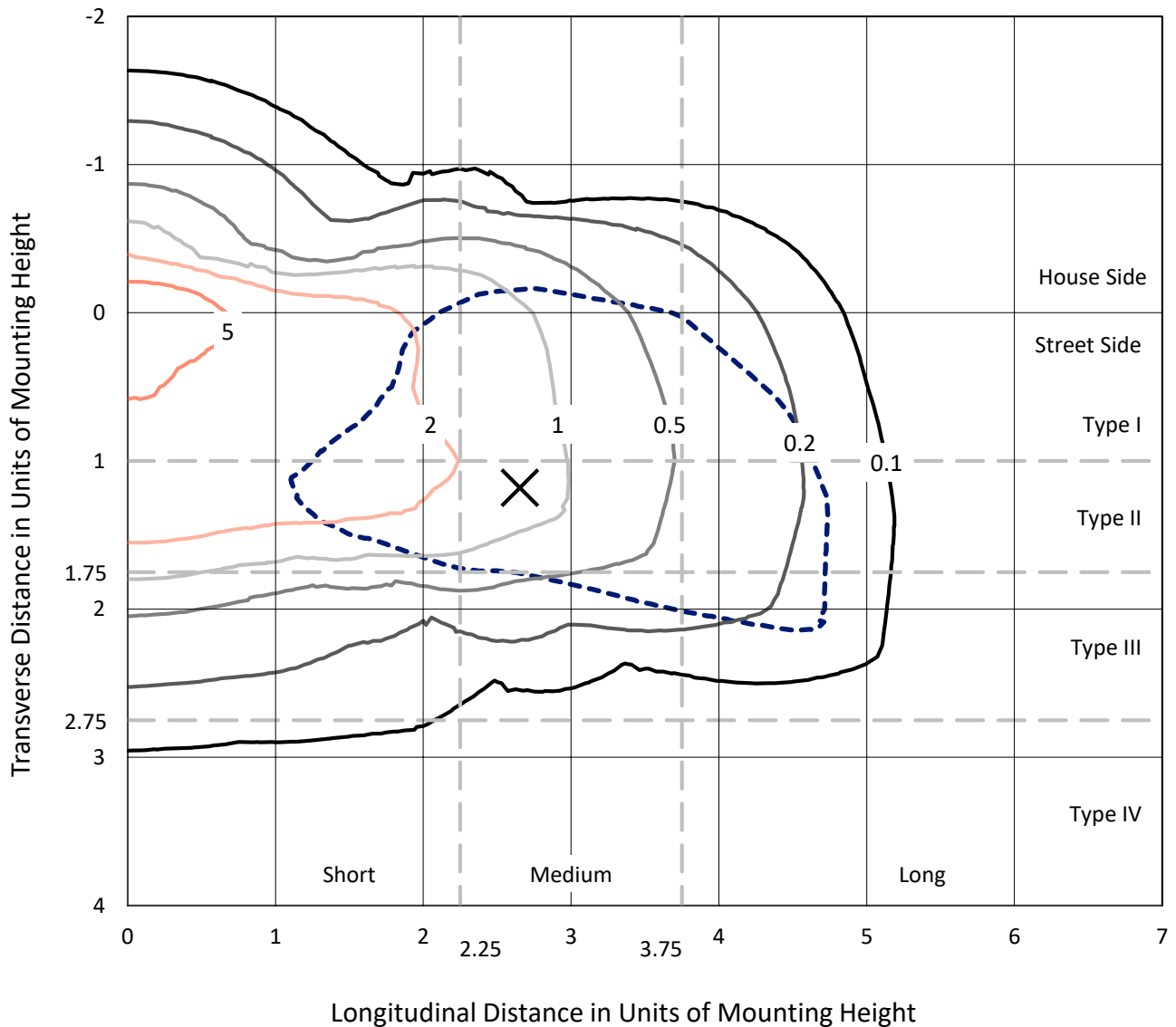
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

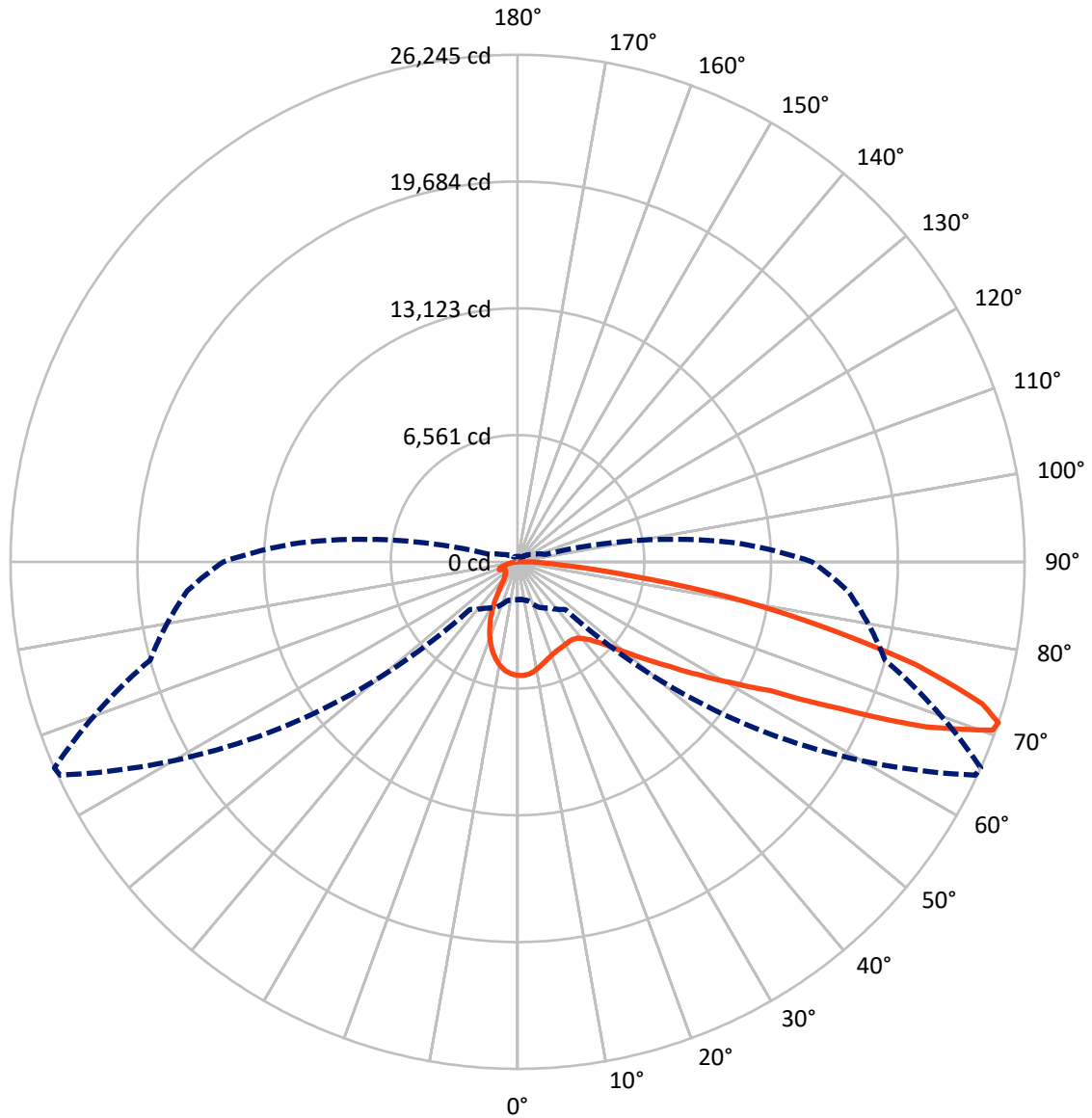
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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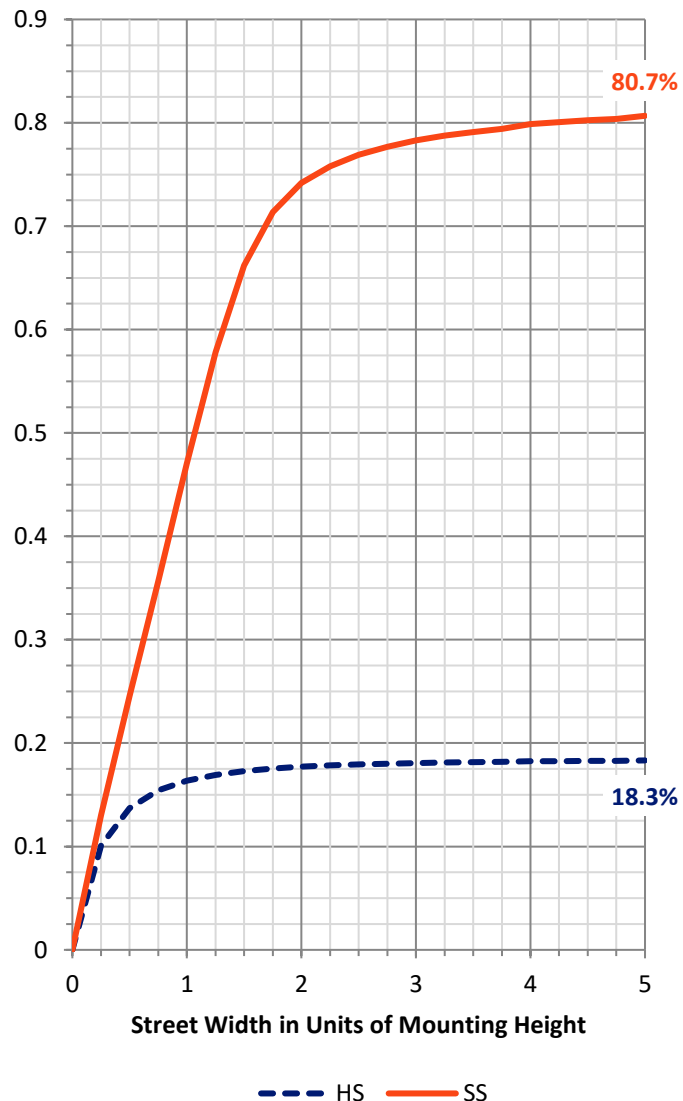
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4755.7	0.0	4755.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	20905.3	0.0	20905.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	25661.0	0.0	25661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.4	2.0
10°-20°	1241.1	4.8
20°-30°	1667.0	6.5
30°-40°	2193.0	8.5
40°-50°	3190.2	12.4
50°-60°	4983.4	19.4
60°-70°	6242.5	24.3
70°-80°	4761.7	18.6
80°-90°	864.7	3.4
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°	25661.0	100.0
0°-180°	25661.0	100.0

Coefficient of Utilization

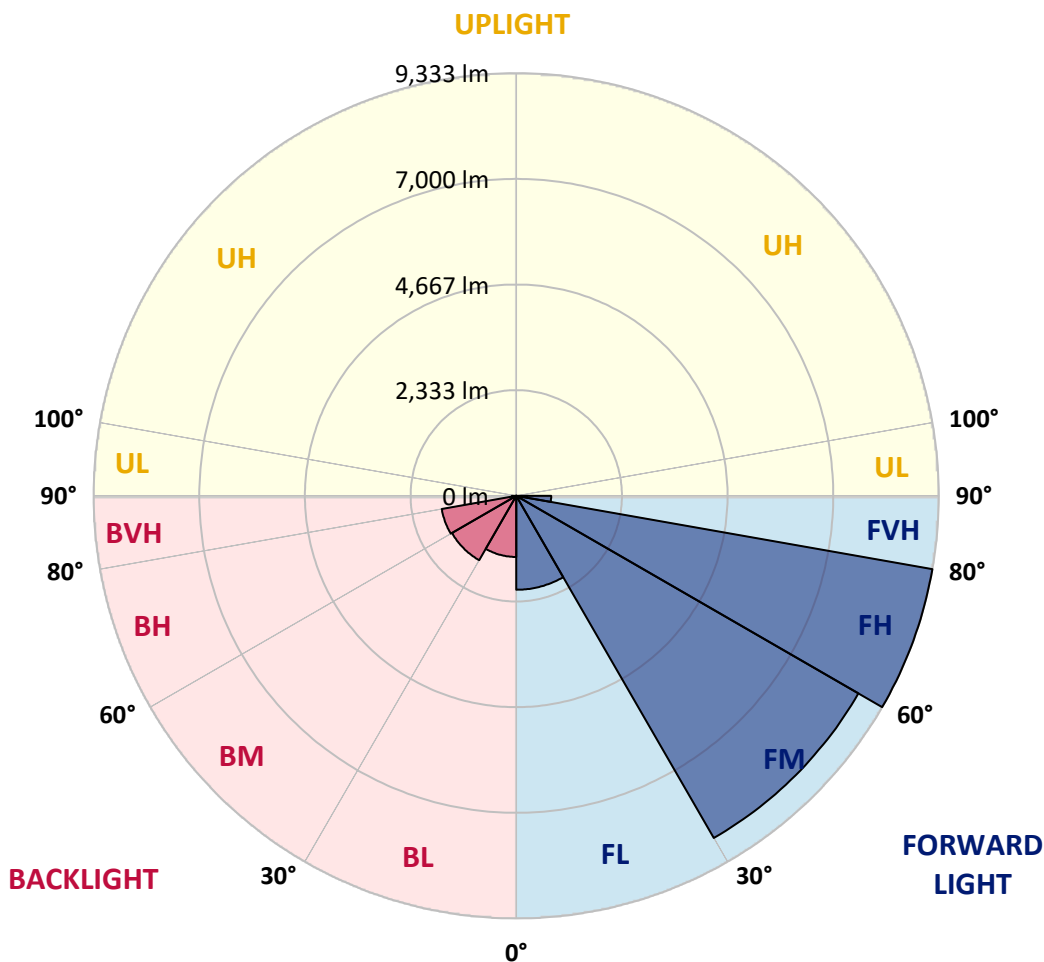


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2075.0	8.1			
FM (30°-60°)	8726.0	34.0			
FH (60°-80°)	9333.2	36.4			G4/12000
FVH (80°-90°)	771.1	3.0			G5
BL (0°-30°)	1350.5	5.3	B3/2500		
BM (30°-60°)	1640.6	6.4	B2/2500		
BH (60°-80°)	1671.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	93.6	0.4			G1/100
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°	65°	66°	75°	85°
0°	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4
2.5°	5769.5	5760.6	5787.2	5814.6	5825.3	5843.0	5869.6	5884.6	5883.8	5886.4	5877.6
5°	5386.7	5375.2	5428.4	5471.8	5555.1	5649.0	5763.3	5844.8	5846.5	5892.6	5905.0
7.5°	5024.4	5016.4	5077.5	5147.5	5244.1	5387.6	5572.8	5748.2	5758.8	5883.8	5927.2
10°	4733.8	4732.0	4791.3	4867.5	4980.1	5140.4	5353.1	5610.0	5625.9	5841.2	5930.7
12.5°	4507.0	4510.5	4561.9	4648.7	4767.4	4934.9	5165.2	5454.9	5480.6	5773.9	5910.3
15°	4339.5	4353.7	4395.3	4483.0	4600.0	4770.1	5006.6	5311.4	5350.4	5698.6	5898.8
17.5°	4243.8	4259.8	4289.0	4361.7	4471.5	4635.4	4859.6	5193.6	5229.0	5641.0	5899.7
20°	4215.5	4228.8	4245.6	4289.9	4382.9	4531.8	4743.5	5087.3	5125.4	5594.9	5908.6
22.5°	4271.3	4281.0	4282.8	4279.3	4336.0	4457.3	4659.3	5009.3	5050.1	5564.8	5914.8
25°	4390.9	4404.2	4394.4	4361.7	4343.0	4417.5	4615.9	4957.9	4998.7	5542.7	5902.4
27.5°	4570.7	4572.5	4564.5	4522.0	4434.3	4421.9	4602.6	4927.8	4966.8	5517.0	5876.7
30°	4815.3	4826.8	4812.6	4755.0	4611.5	4492.8	4618.6	4898.6	4934.0	5484.2	5835.0
32.5°	5101.4	5129.8	5128.9	5068.7	4863.1	4651.4	4684.1	4880.8	4908.3	5449.6	5784.5
35°	5398.2	5437.2	5509.9	5484.2	5229.9	4902.1	4810.0	4909.2	4927.8	5445.2	5749.1
37.5°	5706.6	5745.5	5895.3	5964.4	5666.7	5260.9	5008.4	5009.3	5018.2	5499.2	5746.4
40°	6029.1	6070.7	6295.7	6475.6	6232.8	5715.4	5328.2	5218.4	5208.6	5632.1	5798.7
42.5°	6480.9	6518.1	6788.3	7017.8	6861.0	6297.5	5770.3	5540.9	5520.5	5892.6	5966.1
45°	7052.4	7084.2	7371.3	7616.7	7536.1	6962.0	6325.9	5984.8	5981.2	6326.7	6305.5
47.5°	7731.9	7756.7	8014.5	8252.0	8281.2	7726.6	7024.0	6669.6	6612.0	6922.1	6830.9
50°	8439.8	8467.3	8642.7	8897.8	9114.9	8749.9	7922.4	7508.6	7431.6	7708.0	7575.1
52.5°	8908.5	8944.8	9097.2	9420.6	10052.3	9871.5	8984.7	8525.7	8408.8	8660.4	8558.5
55°	8699.4	8780.9	9013.9	9532.2	10801.8	11585.0	10295.0	9712.0	9580.0	9789.1	9728.9
57.5°	7748.7	7860.4	8178.4	8978.5	10907.2	13094.7	12276.1	11109.2	11016.2	10956.0	10983.4
60°	6011.3	6118.5	6512.8	7555.6	10172.8	14196.8	15257.4	12831.6	12696.9	12127.2	12152.0
62.5°	4254.4	4200.4	4470.6	5233.4	8266.1	14326.2	18649.8	15135.1	14692.1	13364.0	13255.1
65°	3244.4	3232.0	3353.4	3596.2	5006.6	12778.4	20670.7	19006.8	18314.9	14818.8	14561.9
67.5°	2665.9	2643.7	2763.4	3116.9	3224.1	8244.0	20715.0	23498.7	22819.1	16629.7	16073.3
70°	2191.9	2167.1	2278.7	2735.0	2979.5	4180.9	17434.2	26129.1	26092.8	18922.6	17214.5
71°	1965.1	1947.4	2081.2	2587.9	2927.3	3484.5	15052.7	26136.2	26245.2	19698.7	17147.1
72.5°	1600.1	1606.3	1748.0	2303.5	2888.3	3077.0	11063.2	24918.0	25148.4	20438.5	16534.9
75°	1063.2	1068.5	1254.5	1771.9	2800.6	3010.5	6080.4	20909.0	21332.5	19995.5	15088.1
77.5°	714.1	712.3	839.0	1215.6	2440.0	3010.5	3565.2	15638.3	16103.5	15910.3	11632.0
80°	491.7	488.2	577.7	839.0	1847.3	3046.9	2756.3	10959.5	11100.4	8592.2	4727.6
82.5°	301.2	303.9	377.4	592.7	1257.2	2742.1	2602.1	5975.9	5822.6	2409.8	1181.0
85°	172.8	171.9	241.0	401.3	807.1	2314.2	2537.4	2572.0	2359.3	725.6	427.0
87.5°	62.0	66.4	129.4	222.4	462.5	1611.6	2152.9	1337.8	1205.8	327.8	193.1
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-SA7A-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4
2.5°	5871.4	5876.7	5870.5	5835.0	5804.9	5756.2	5728.7	5690.6	5679.1	5673.8	5688.0
5°	5893.5	5895.3	5843.0	5750.0	5645.4	5522.3	5433.7	5324.7	5273.3	5251.2	5265.3
7.5°	5913.9	5905.9	5791.6	5613.5	5420.4	5206.0	5015.5	4841.0	4739.1	4697.4	4701.0
10°	5916.5	5882.9	5699.5	5423.9	5124.5	4810.0	4517.6	4248.2	4078.1	3967.4	4001.1
12.5°	5889.1	5832.4	5563.9	5178.5	4763.0	4334.2	3939.0	3535.0	3292.3	3179.8	3183.3
15°	5867.8	5765.0	5397.4	4889.7	4331.5	3763.6	3224.1	2749.2	2490.5	2375.3	2321.3
17.5°	5850.1	5692.4	5204.2	4564.5	3822.1	3101.8	2453.3	2029.8	1888.0	1854.3	1840.2
20°	5825.3	5615.3	4988.9	4188.0	3241.8	2361.1	1791.4	1582.3	1583.2	1622.2	1627.5
22.5°	5790.7	5527.6	4759.5	3765.4	2618.9	1719.7	1404.3	1344.0	1405.2	1479.6	1492.9
25°	5739.3	5423.9	4504.3	3298.5	1997.0	1321.9	1199.6	1197.0	1271.4	1349.3	1360.9
27.5°	5666.7	5288.4	4220.8	2797.0	1471.6	1123.4	1074.7	1093.3	1148.2	1204.9	1209.4
30°	5569.2	5130.7	3908.0	2268.1	1153.5	1000.3	994.9	1011.8	1045.4	1085.3	1088.9
32.5°	5462.0	4970.3	3574.0	1756.0	987.9	933.8	939.1	947.1	963.1	979.0	982.5
35°	5364.6	4806.4	3232.0	1334.3	909.0	890.4	886.9	885.1	886.9	881.5	882.4
37.5°	5301.7	4670.9	2875.9	1062.3	863.8	852.3	841.7	828.4	813.3	804.5	806.2
40°	5278.6	4569.9	2515.3	917.9	826.6	818.6	798.3	769.9	752.2	746.9	746.9
42.5°	5340.7	4517.6	2167.1	845.2	795.6	782.3	748.6	715.9	702.6	701.7	700.8
45°	5530.3	4538.8	1835.7	805.4	767.3	741.6	697.3	669.8	660.9	662.7	661.8
47.5°	5870.5	4672.6	1552.2	778.8	738.9	705.2	655.6	633.5	622.8	622.8	623.7
50°	6449.0	4985.4	1326.3	756.6	715.0	671.6	625.5	598.0	583.9	583.0	583.0
52.5°	7291.6	5545.3	1185.4	738.0	688.4	641.4	595.4	560.8	544.0	540.4	538.7
55°	8347.6	6348.0	1146.5	725.6	653.0	608.7	559.0	524.5	505.9	497.9	497.0
57.5°	9528.7	7324.3	1223.5	710.6	616.6	569.7	519.2	486.4	466.9	457.2	456.3
60°	10723.8	8390.2	1538.1	689.3	586.5	527.2	478.4	448.3	428.8	418.2	416.4
62.5°	11920.8	9513.6	2180.4	687.5	565.3	486.4	436.8	411.1	392.5	381.0	378.3
65°	13271.0	10743.3	2910.4	734.5	558.2	449.2	394.3	373.9	357.9	347.3	346.4
67.5°	14821.5	12131.6	2840.4	831.0	582.1	415.5	354.4	338.4	326.9	318.1	317.2
70°	15548.8	11914.6	1765.7	899.3	615.8	382.7	316.3	304.8	295.9	289.7	287.1
71°	15244.1	11313.0	1480.5	891.3	612.2	368.6	301.2	292.4	283.5	278.2	275.5
72.5°	14413.0	10317.2	1235.0	829.3	572.3	342.9	281.7	272.9	264.9	258.7	256.9
75°	12933.5	9214.1	988.7	662.7	456.3	289.7	247.2	237.4	231.2	227.7	224.2
77.5°	9507.4	6575.7	764.6	523.6	335.8	236.6	210.9	203.8	197.6	192.3	189.6
80°	3642.2	2547.2	514.8	390.7	246.3	186.9	170.1	166.6	160.4	156.8	156.8
82.5°	980.8	761.1	274.7	236.6	164.8	136.4	130.2	128.5	123.2	116.1	116.9
85°	396.9	335.8	154.2	130.2	101.0	80.6	87.7	88.6	82.4	73.5	74.4
87.5°	174.5	142.6	85.9	57.6	44.3	31.0	39.9	39.9	36.3	30.1	27.5
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

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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



CCT = 3050K
 CIE x = 0.4383
 CIE y = 0.4131
 Duv = 0.0034

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)