

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: P319528

Luminaire Tested: **GLEON-SA4C-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319528
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-SA4C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 22211 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

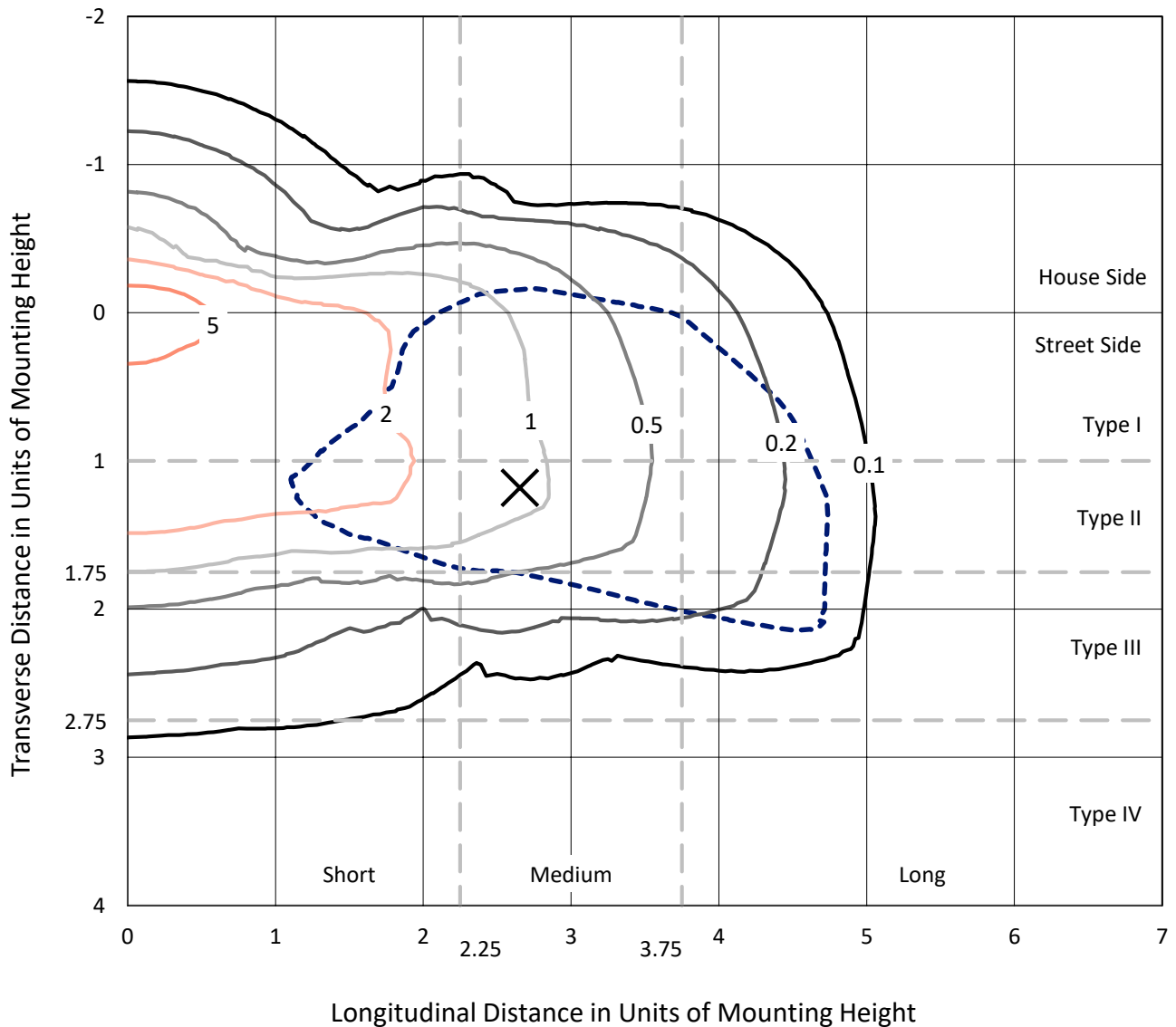
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

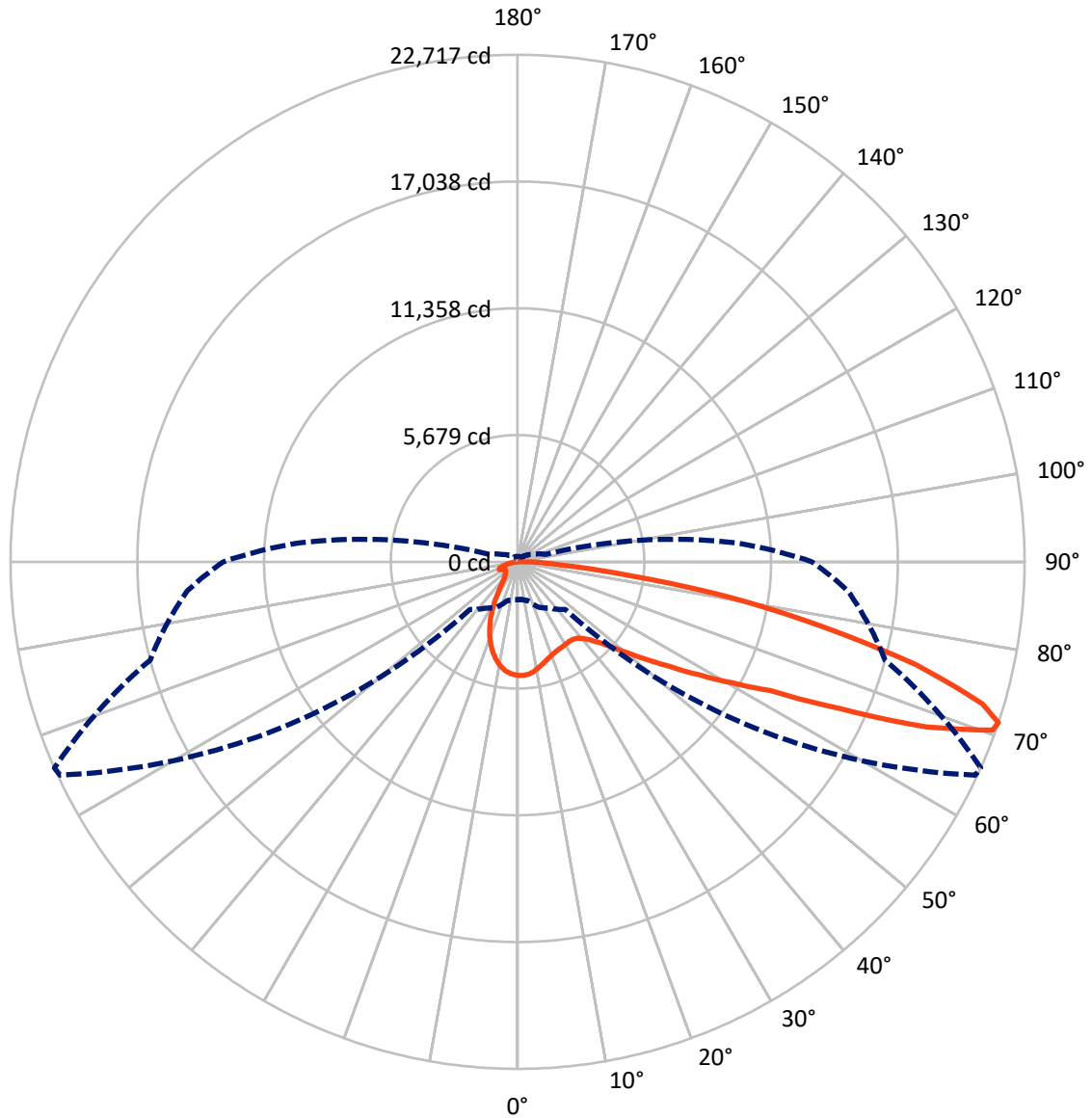
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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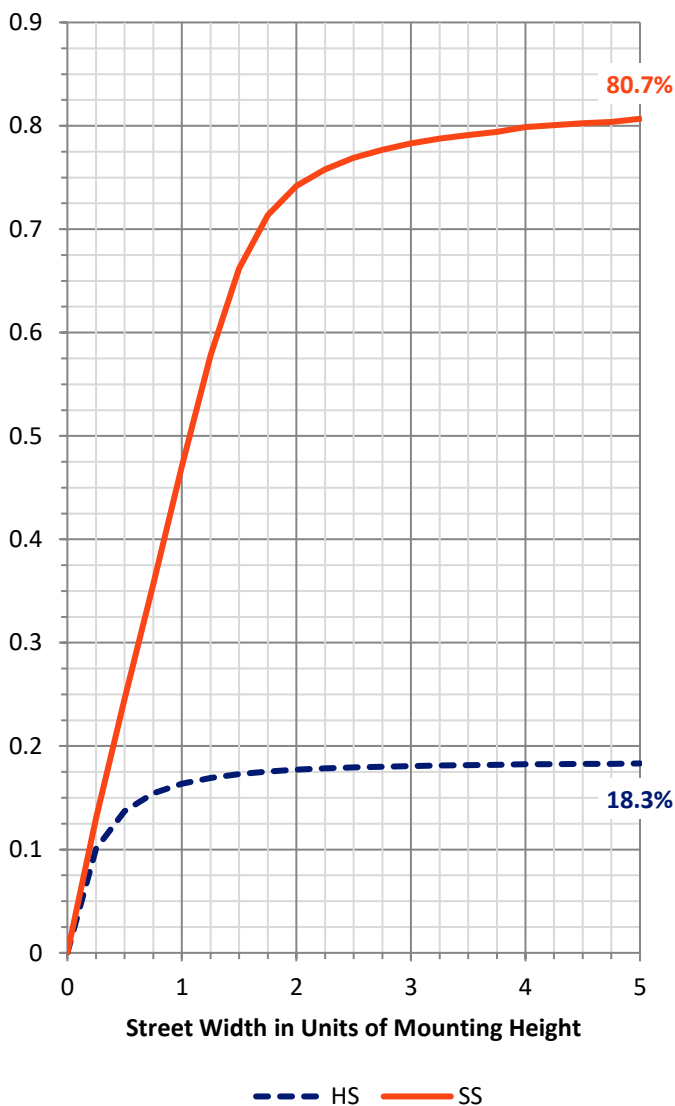
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4116.3	0.0	4116.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	18094.7	0.0	18094.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	22211.0	0.0	22211.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.9	2.0
10°-20°	1074.2	4.8
20°-30°	1442.9	6.5
30°-40°	1898.1	8.5
40°-50°	2761.3	12.4
50°-60°	4313.4	19.4
60°-70°	5403.3	24.3
70°-80°	4121.5	18.6
80°-90°	748.4	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°	22211.0	100.0
0°-180°	22211.0	100.0

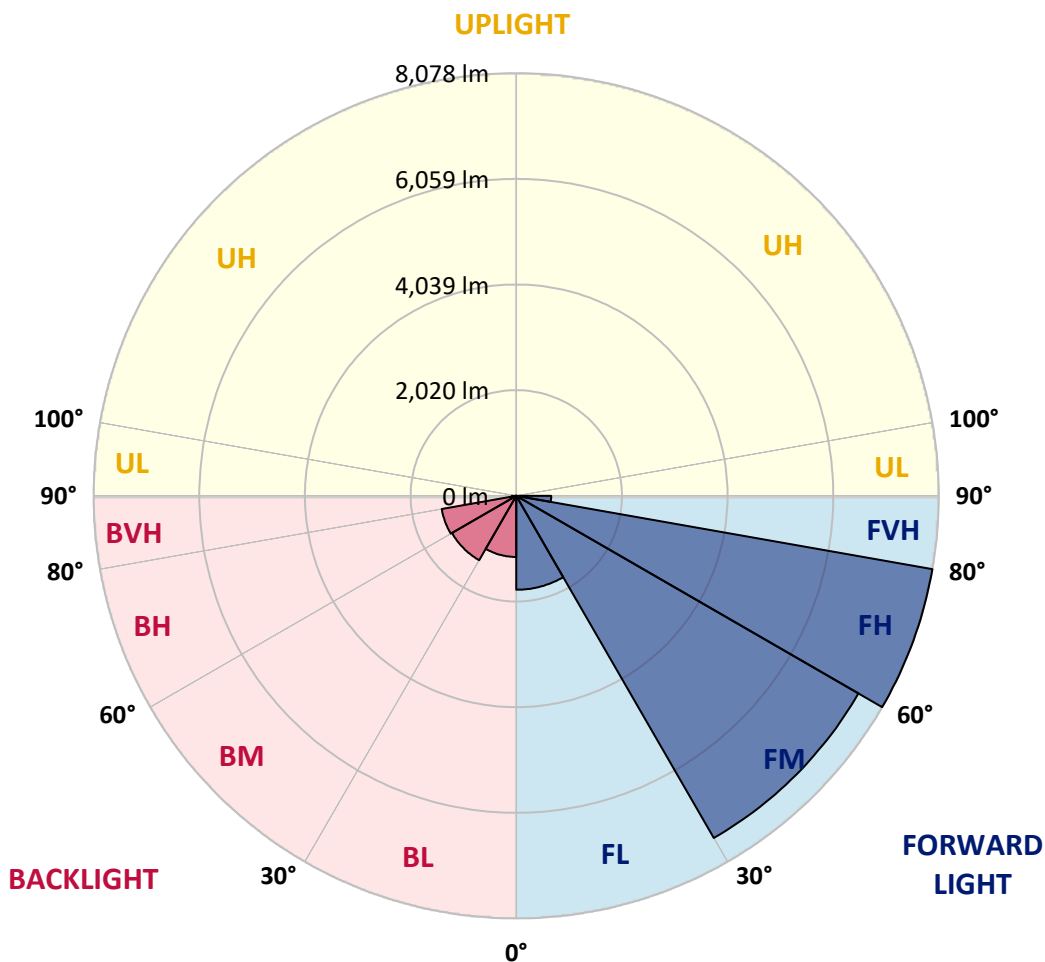


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1796.1	8.1			
FM (30°-60°)	7552.9	34.0			
FH (60°-80°)	8078.4	36.4			G4/12000
FVH (80°-90°)	667.4	3.0			G4/750
BL (0°-30°)	1168.9	5.3	B3/2500		
BM (30°-60°)	1420.0	6.4	B2/2500		
BH (60°-80°)	1446.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	81.0	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-G4
 Type III Medium





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CATALOG NUMBER: GLEON-SA4C-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1
2.5°	4993.8	4986.1	5009.1	5032.9	5042.1	5057.4	5080.4	5093.5	5092.7	5095.0	5087.3
5°	4662.5	4652.5	4698.5	4736.1	4808.2	4889.5	4988.4	5059.0	5060.5	5100.4	5111.1
7.5°	4348.9	4342.0	4394.9	4455.5	4539.0	4663.3	4823.5	4975.4	4984.6	5092.7	5130.3
10°	4097.3	4095.8	4147.2	4213.1	4310.5	4449.3	4633.4	4855.8	4869.6	5055.9	5133.4
12.5°	3901.0	3904.1	3948.6	4023.7	4126.5	4271.4	4470.8	4721.6	4743.8	4997.6	5115.7
15°	3756.1	3768.3	3804.4	3880.3	3981.5	4128.8	4333.5	4597.3	4631.1	4932.4	5105.7
17.5°	3673.3	3687.1	3712.4	3775.2	3870.3	4012.2	4206.2	4495.3	4526.0	4882.6	5106.5
20°	3648.7	3660.2	3674.8	3713.1	3793.7	3922.5	4105.8	4403.3	4436.3	4842.7	5114.2
22.5°	3697.0	3705.5	3707.0	3703.9	3753.0	3858.1	4032.9	4335.8	4371.1	4816.6	5119.6
25°	3800.6	3812.1	3803.6	3775.2	3759.1	3823.6	3995.3	4291.3	4326.6	4797.5	5108.8
27.5°	3956.2	3957.8	3950.9	3914.0	3838.1	3827.4	3983.8	4265.3	4299.0	4775.2	5086.6
30°	4167.9	4177.8	4165.6	4115.7	3991.5	3888.7	3997.6	4240.0	4270.6	4746.9	5050.5
32.5°	4415.6	4440.1	4439.3	4387.2	4209.3	4026.0	4054.4	4224.6	4248.4	4717.0	5006.8
35°	4672.5	4706.2	4769.1	4746.9	4526.8	4243.0	4163.3	4249.2	4265.3	4713.1	4976.1
37.5°	4939.3	4973.1	5102.7	5162.5	4904.8	4553.6	4335.1	4335.8	4343.5	4759.9	4973.8
40°	5218.5	5254.5	5449.3	5605.0	5394.9	4947.0	4611.9	4516.8	4508.4	4874.9	5019.1
42.5°	5609.6	5641.8	5875.7	6074.3	5938.6	5450.8	4994.6	4795.9	4778.3	5100.4	5164.0
45°	6104.2	6131.8	6380.3	6592.7	6522.9	6026.0	5475.4	5180.1	5177.1	5476.1	5457.7
47.5°	6692.4	6713.9	6937.0	7142.5	7167.8	6687.8	6079.7	5772.9	5723.1	5991.5	5912.5
50°	7305.1	7328.9	7480.7	7701.6	7889.4	7573.5	6857.3	6499.1	6432.4	6671.7	6556.6
52.5°	7710.8	7742.2	7874.1	8154.0	8700.8	8544.3	7776.7	7379.5	7278.3	7496.0	7407.9
55°	7529.8	7600.3	7802.0	8250.6	9349.5	10027.4	8910.9	8406.3	8292.0	8473.0	8420.9
57.5°	6706.9	6803.6	7078.9	7771.4	9440.8	11334.2	10625.6	9615.6	9535.1	9483.0	9506.8
60°	5203.1	5295.9	5637.2	6539.8	8805.1	12288.2	13206.1	11106.4	10989.9	10496.8	10518.2
62.5°	3682.5	3635.7	3869.6	4529.8	7154.8	12400.1	16142.4	13100.3	12716.8	11567.3	11473.0
65°	2808.2	2797.5	2902.6	3112.7	4333.5	11060.4	17891.6	16451.4	15852.5	12826.5	12604.1
67.5°	2307.5	2288.3	2391.8	2697.8	2790.6	7135.6	17929.9	20339.4	19751.2	14393.9	13912.4
70°	1897.2	1875.7	1972.4	2367.3	2578.9	3618.8	15090.3	22616.2	22584.8	16378.6	14900.1
71°	1700.9	1685.6	1801.4	2240.0	2533.7	3016.1	13028.9	22622.3	22716.7	17050.3	14841.8
72.5°	1384.9	1390.3	1513.0	1993.8	2500.0	2663.3	9575.8	21567.9	21767.3	17690.7	14311.9
75°	920.2	924.8	1085.9	1533.7	2424.0	2605.8	5263.0	18097.9	18464.4	17307.2	13059.6
77.5°	618.1	616.6	726.2	1052.1	2111.9	2605.8	3085.8	13535.8	13938.4	13771.3	10068.1
80°	425.6	422.5	500.0	726.2	1598.9	2637.2	2385.7	9486.0	9608.0	7437.0	4092.0
82.5°	260.7	263.0	326.7	513.0	1088.2	2373.4	2252.3	5172.5	5039.8	2085.9	1022.2
85°	149.5	148.8	208.6	347.4	698.6	2003.0	2196.3	2226.2	2042.1	628.1	369.6
87.5°	53.7	57.5	112.0	192.5	400.3	1394.9	1863.5	1158.0	1043.7	283.7	167.2
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-SA4C-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1	5088.1
2.5°	5082.0	5086.6	5081.2	5050.5	5024.5	4982.3	4958.5	4925.5	4915.6	4911.0	4923.2
5°	5101.1	5102.7	5057.4	4976.9	4886.4	4779.8	4703.1	4608.8	4564.3	4545.2	4557.4
7.5°	5118.8	5111.9	5013.0	4858.8	4691.6	4506.1	4341.2	4190.1	4101.9	4065.9	4069.0
10°	5121.1	5091.9	4933.2	4694.7	4435.5	4163.3	3910.2	3677.1	3529.9	3434.0	3463.1
12.5°	5097.3	5048.2	4815.9	4482.3	4122.6	3751.5	3409.5	3059.8	2849.6	2752.3	2755.3
15°	5078.9	4990.0	4671.7	4232.3	3749.2	3257.6	2790.6	2379.6	2155.6	2055.9	2009.2
17.5°	5063.6	4927.1	4504.5	3950.9	3308.2	2684.8	2123.4	1756.9	1634.2	1605.0	1592.8
20°	5042.1	4860.4	4318.2	3624.9	2805.9	2043.7	1550.6	1369.6	1370.4	1404.1	1408.7
22.5°	5012.2	4784.4	4119.6	3259.2	2266.8	1488.5	1215.5	1163.3	1216.2	1280.7	1292.2
25°	4967.7	4694.7	3898.7	2855.0	1728.5	1144.2	1038.3	1036.0	1100.4	1167.9	1177.9
27.5°	4904.8	4577.4	3653.3	2421.0	1273.8	972.4	930.2	946.3	993.8	1042.9	1046.8
30°	4820.5	4440.9	3382.6	1963.2	998.5	865.8	861.2	875.8	904.9	939.4	942.5
32.5°	4727.7	4302.1	3093.5	1519.9	855.0	808.3	812.9	819.8	833.6	847.4	850.4
35°	4643.3	4160.2	2797.5	1154.9	786.8	770.7	767.6	766.1	767.6	763.0	763.8
37.5°	4588.9	4042.9	2489.2	919.5	747.7	737.7	728.5	717.0	704.0	696.3	697.8
40°	4568.9	3955.5	2177.1	794.5	715.5	708.6	690.9	666.4	651.1	646.5	646.5
42.5°	4622.6	3910.2	1875.7	731.6	688.6	677.1	648.0	619.6	608.1	607.4	606.6
45°	4786.7	3928.6	1588.9	697.1	664.1	641.9	603.5	579.7	572.1	573.6	572.8
47.5°	5081.2	4044.4	1343.5	674.1	639.6	610.4	567.5	548.3	539.1	539.1	539.9
50°	5582.0	4315.1	1148.0	654.9	618.9	581.3	541.4	517.6	505.4	504.6	504.6
52.5°	6311.3	4799.8	1026.1	638.8	595.8	555.2	515.3	485.4	470.9	467.8	466.3
55°	7225.3	5494.5	992.3	628.1	565.2	526.8	483.9	454.0	437.9	431.0	430.2
57.5°	8247.6	6339.6	1059.0	615.0	533.7	493.1	449.4	421.0	404.1	395.7	394.9
60°	9282.1	7262.2	1331.3	596.6	507.7	456.3	414.1	388.0	371.2	362.0	360.4
62.5°	10318.1	8234.5	1887.2	595.1	489.3	421.0	378.1	355.8	339.7	329.7	327.4
65°	11486.8	9298.9	2519.1	635.7	483.1	388.8	341.3	323.6	309.8	300.6	299.8
67.5°	12828.8	10500.6	2458.6	719.3	503.8	359.7	306.7	292.9	283.0	275.3	274.5
70°	13458.4	10312.7	1528.4	778.4	533.0	331.3	273.8	263.8	256.1	250.8	248.5
71°	13194.6	9792.0	1281.4	771.5	529.9	319.0	260.7	253.1	245.4	240.8	238.5
72.5°	12475.3	8930.1	1069.0	717.8	495.4	296.8	243.9	236.2	229.3	223.9	222.4
75°	11194.6	7975.3	855.8	573.6	394.9	250.8	214.0	205.5	200.2	197.1	194.0
77.5°	8229.2	5691.6	661.8	453.2	290.6	204.8	182.5	176.4	171.0	166.4	164.1
80°	3152.6	2204.7	445.5	338.2	213.2	161.8	147.2	144.2	138.8	135.7	135.7
82.5°	848.9	658.7	237.7	204.8	142.6	118.1	112.7	111.2	106.6	100.5	101.2
85°	343.6	290.6	133.4	112.7	87.4	69.8	75.9	76.7	71.3	63.6	64.4
87.5°	151.1	123.5	74.4	49.8	38.3	26.8	34.5	34.5	31.4	26.1	23.8
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

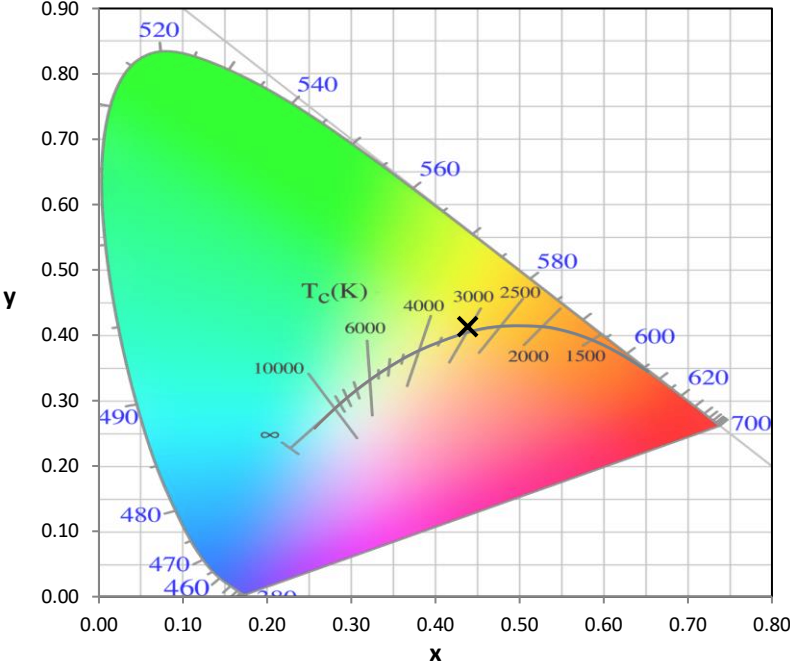
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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 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)