

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643418

Luminaire Tested: GWS-SA6E-830-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-830-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36606.9 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

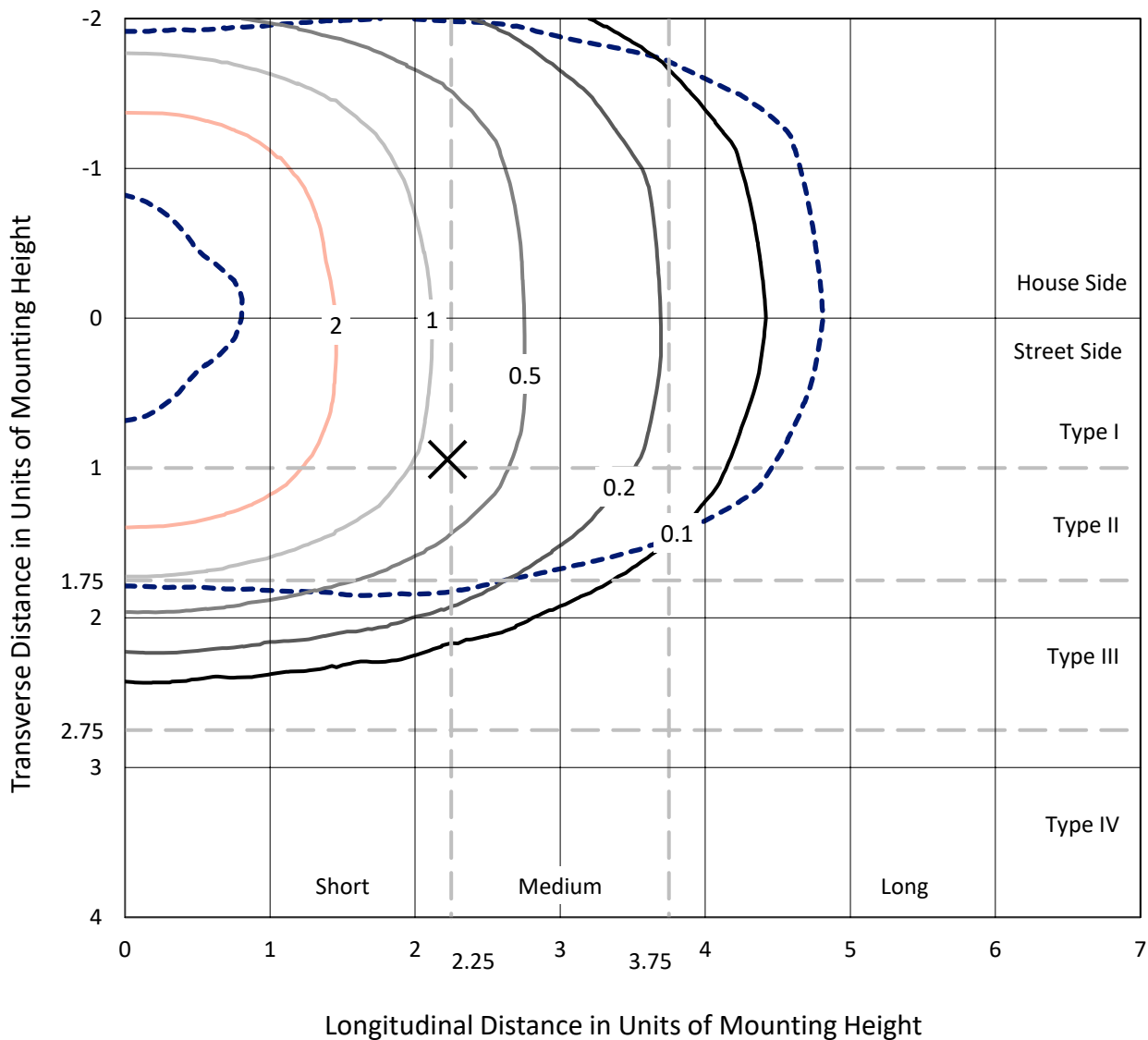


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Iso-Footcandle Lines of Horizontal Illumination

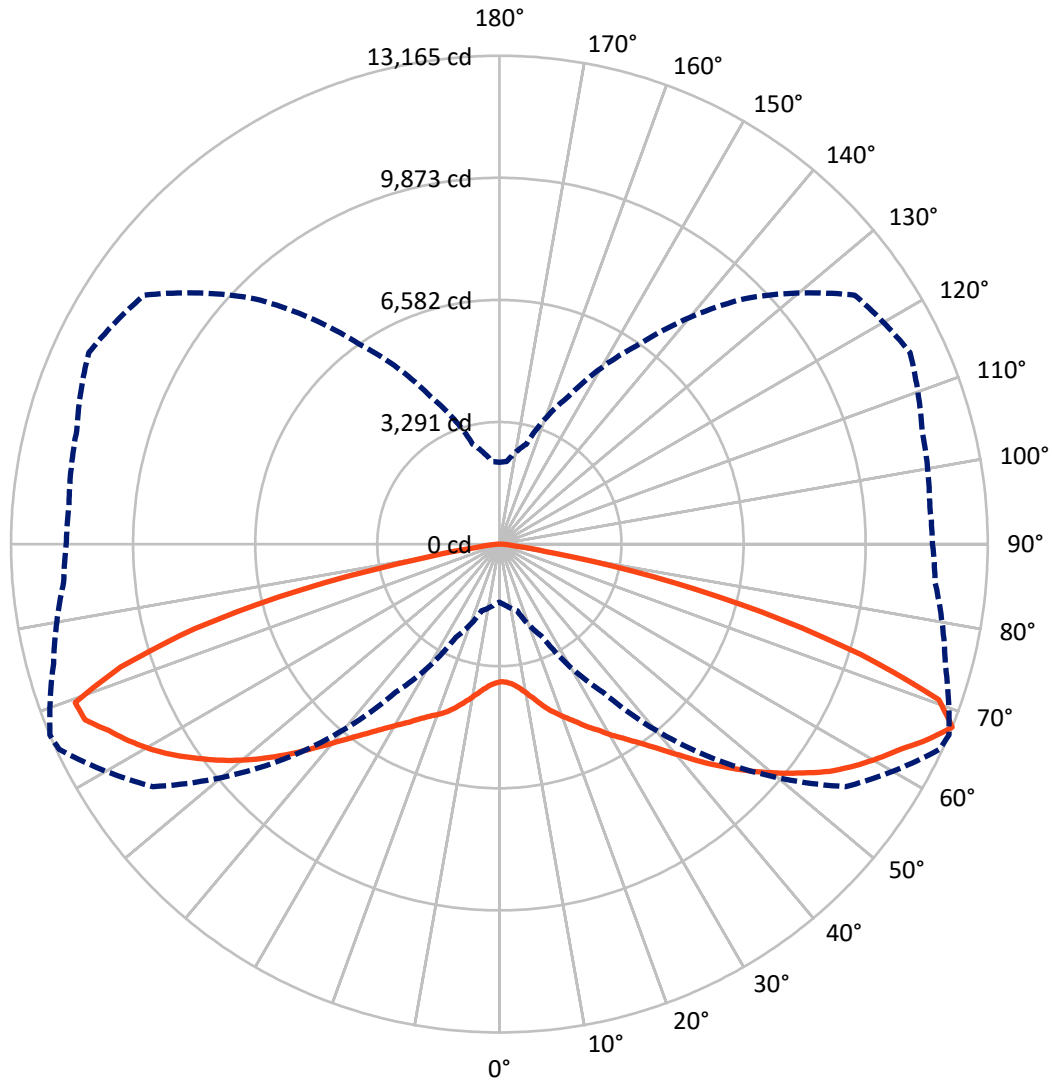
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18101.5	0.0	18101.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	18505.4	0.0	18505.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	36606.9	0.0	36606.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.0
10°-20°	1228.6	3.4
20°-30°	2410.5	6.6
30°-40°	4106.7	11.2
40°-50°	6594.6	18.0
50°-60°	8960.7	24.5
60°-70°	8571.5	23.4
70°-80°	4075.2	11.1
80°-90°	295.3	0.8
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°	36606.9	100.0
0°-180°	36606.9	100.0

Coefficient of Utilization



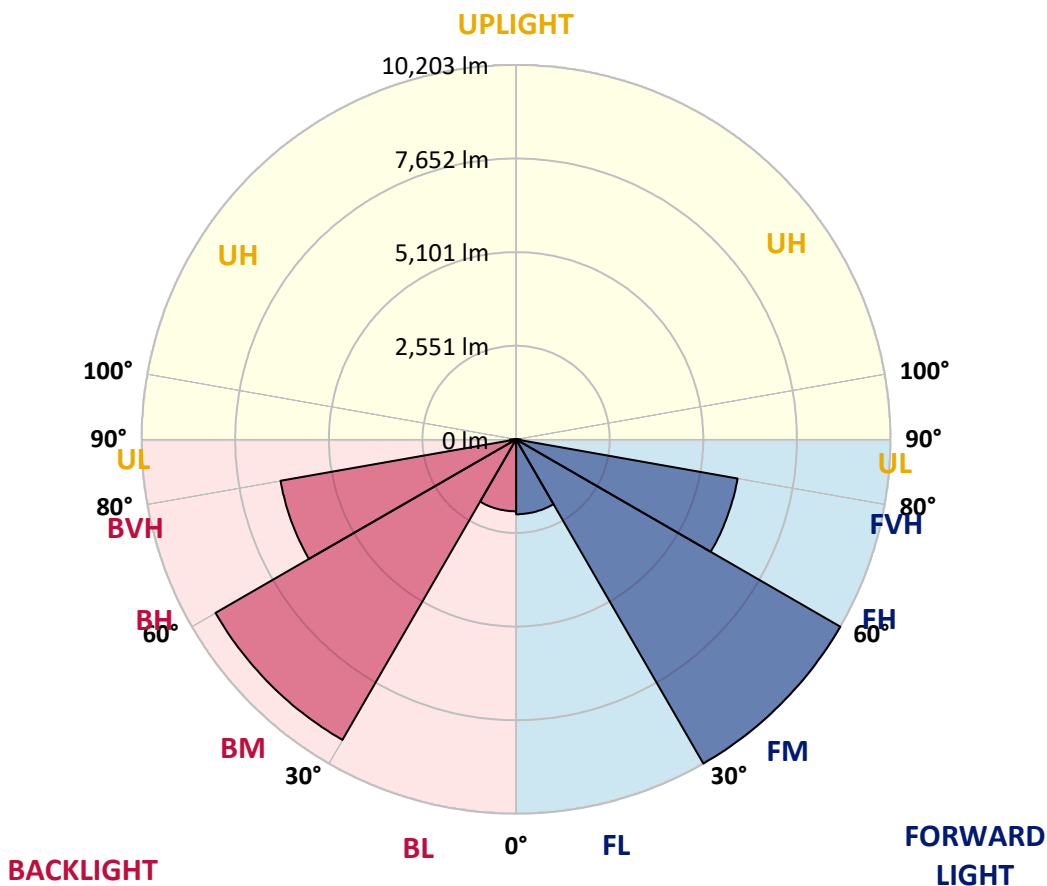
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.1	5.6			
FM (30°-60°)	10202.7	27.9			
FH (60°-80°)	6128.9	16.7			G3/7500
FVH (80°-90°)	132.7	0.4			G2/225
BL (0°-30°)	1961.7	5.4	B3/2500		
BM (30°-60°)	9459.4	25.8	B5		
BH (60°-80°)	6517.8	17.8	B5		G5
BVH (80°-90°)	162.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7
2.5°	3630.2	3635.3	3642.9	3658.2	3673.5	3696.5	3719.4	3716.8	3727.0	3734.7	3742.3
5°	3609.8	3614.9	3627.6	3648.0	3671.0	3709.2	3757.6	3778.0	3793.3	3821.4	3846.9
7.5°	3653.1	3663.3	3681.2	3709.2	3744.9	3793.3	3859.6	3895.3	3918.2	3969.2	4012.6
10°	3711.8	3724.5	3760.2	3813.7	3867.3	3941.2	4025.3	4078.8	4094.1	4160.4	4242.0
12.5°	3767.8	3783.1	3841.8	3938.6	4035.5	4134.9	4234.4	4300.6	4305.7	4395.0	4486.7
15°	3857.1	3869.8	3948.8	4073.7	4221.6	4359.3	4481.6	4527.5	4547.9	4611.6	4726.4
17.5°	4053.4	4068.7	4170.6	4305.7	4461.2	4606.5	4728.9	4767.2	4767.2	4820.7	4915.0
20°	4264.9	4280.2	4415.4	4588.7	4777.4	4925.2	5019.5	4983.8	4971.1	4986.4	5052.7
22.5°	4502.0	4530.1	4660.1	4861.5	5093.5	5274.5	5322.9	5215.8	5180.1	5144.4	5159.7
25°	4805.4	4838.5	4966.0	5180.1	5407.0	5598.2	5626.3	5460.6	5440.2	5315.2	5269.4
27.5°	5154.6	5180.1	5338.2	5549.8	5761.4	5922.0	5952.6	5748.6	5679.8	5506.4	5399.4
30°	5605.9	5628.8	5766.5	5975.5	6159.1	6271.2	6309.5	6029.0	5975.5	5710.4	5544.7
32.5°	6097.9	6108.1	6248.3	6449.7	6612.8	6719.9	6666.4	6340.1	6261.0	5962.8	5735.9
35°	6661.3	6661.3	6842.3	7005.4	7135.4	7166.0	7064.1	6691.9	6600.1	6276.3	5993.4
37.5°	7214.5	7229.8	7398.0	7591.8	7706.5	7701.4	7515.3	7107.4	7002.9	6651.1	6337.5
40°	7813.5	7846.7	8014.9	8231.6	8341.2	8325.9	8040.4	7586.7	7479.6	7064.1	6758.1
42.5°	8364.2	8417.7	8614.0	8835.8	8955.6	8945.4	8647.2	8137.3	8032.8	7563.7	7257.8
45°	8802.7	8858.7	9103.5	9411.9	9603.1	9585.3	9284.5	8708.3	8580.9	8088.9	7752.4
47.5°	9187.6	9246.2	9519.0	9845.3	10148.7	10179.3	9904.0	9284.5	9149.4	8652.3	8272.4
50°	9483.3	9511.4	9817.3	10174.2	10526.0	10696.8	10457.1	9863.2	9700.0	9208.0	8779.7
52.5°	9460.4	9498.6	9875.9	10360.3	10831.9	11112.3	10946.6	10408.7	10250.7	9715.3	9297.2
55°	8993.9	9032.1	9480.8	10186.9	11002.7	11415.7	11397.8	10928.8	10814.0	10232.8	9835.1
57.5°	8313.2	8397.3	8843.5	9605.7	10778.4	11657.9	11729.2	11402.9	11283.1	10740.1	10367.9
60°	7094.6	7206.8	7721.8	8710.9	10059.5	11576.3	12083.6	11803.2	11729.2	11211.7	10849.7
62.5°	5154.6	5236.2	5922.0	7219.6	8993.9	10995.0	12381.9	12216.1	12160.1	11634.9	11285.7
65°	3087.2	3273.3	3823.9	5106.2	7255.3	9898.9	12218.7	12756.6	12698.0	12070.8	11657.9
67.5°	1562.7	1646.8	1863.5	2768.5	4879.3	8190.8	11400.4	13093.1	13164.5	12443.0	11790.4
70°	968.7	991.7	1052.9	1366.4	2437.1	5381.5	9322.7	12216.1	12565.4	12384.4	11446.3
72.5°	777.5	782.6	792.8	851.5	1170.1	2516.1	5893.9	9567.4	10197.1	11566.1	10954.3
75°	645.0	647.5	650.1	667.9	729.1	1027.4	2867.9	6574.6	7311.3	9830.0	10156.3
77.5°	517.5	504.8	515.0	522.6	537.9	573.6	989.1	3507.8	4254.7	6452.2	7854.3
80°	336.5	331.4	351.8	359.4	374.7	397.7	527.7	1190.5	1445.4	2347.9	2498.3
82.5°	181.0	170.8	214.1	206.5	214.1	232.0	311.0	435.9	489.5	708.7	599.1
85°	56.1	56.1	58.6	68.8	84.1	81.6	135.1	214.1	237.1	303.4	224.3
87.5°	10.2	10.2	10.2	10.2	10.2	12.7	28.0	43.3	58.6	104.5	79.0
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: GWS-SA6E-830-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7	3706.7
2.5°	3757.6	3734.7	3747.4	3755.1	3752.5	3747.4	3721.9	3716.8	3704.1	3683.7	3678.6
5°	3869.8	3844.3	3846.9	3839.2	3813.7	3780.6	3724.5	3696.5	3673.5	3648.0	3645.5
7.5°	4045.7	4017.7	4010.0	3974.3	3902.9	3826.5	3737.2	3686.3	3648.0	3614.9	3609.8
10°	4270.0	4242.0	4216.5	4132.4	4015.1	3913.1	3795.9	3721.9	3665.9	3625.1	3617.4
12.5°	4519.9	4496.9	4433.2	4310.8	4170.6	4050.8	3931.0	3839.2	3757.6	3696.5	3688.8
15°	4797.7	4746.8	4649.9	4491.8	4359.3	4262.4	4117.1	3992.2	3862.2	3780.6	3762.7
17.5°	4991.5	4948.2	4833.4	4680.5	4576.0	4491.8	4321.0	4142.6	3966.7	3846.9	3821.4
20°	5129.2	5083.3	4953.3	4841.1	4807.9	4736.6	4537.7	4331.2	4127.3	3979.4	3946.3
22.5°	5228.6	5180.1	5047.6	4991.5	5037.4	5024.6	4830.9	4596.4	4354.2	4178.3	4137.5
25°	5322.9	5277.0	5159.7	5180.1	5302.5	5340.7	5131.7	4858.9	4583.6	4377.1	4328.7
27.5°	5412.1	5353.5	5300.0	5412.1	5585.5	5656.9	5435.1	5126.6	4828.3	4616.7	4578.5
30°	5549.8	5481.0	5473.3	5636.5	5911.8	5973.0	5728.2	5419.8	5124.1	4909.9	4861.5
32.5°	5723.1	5659.4	5664.5	5909.2	6227.9	6278.9	6069.8	5781.8	5486.0	5271.9	5205.6
35°	5957.7	5878.6	5922.0	6222.8	6544.0	6638.3	6470.1	6230.4	5942.4	5723.1	5649.2
37.5°	6281.4	6166.7	6255.9	6572.0	6895.8	7036.0	6906.0	6727.5	6442.0	6220.2	6151.4
40°	6694.4	6600.1	6635.8	6985.0	7319.0	7487.2	7405.7	7229.8	6946.8	6714.8	6635.8
42.5°	7183.9	7089.5	7076.8	7449.0	7783.0	8037.9	7958.9	7798.2	7505.1	7240.0	7163.5
45°	7663.1	7576.5	7594.3	7974.1	8348.9	8626.8	8547.7	8359.1	8040.4	7734.5	7673.3
47.5°	8162.8	8091.4	8106.7	8509.5	8922.5	9200.4	9100.9	8871.5	8499.3	8173.0	8099.1
50°	8675.2	8593.6	8616.6	9039.7	9485.9	9748.4	9595.5	9256.4	8846.0	8527.3	8463.6
52.5°	9185.1	9088.2	9146.8	9547.1	10008.5	10217.5	9934.5	9524.1	9126.4	8810.3	8738.9
55°	9771.4	9669.4	9605.7	10034.0	10490.3	10577.0	10189.5	9710.2	9238.6	8879.1	8835.8
57.5°	10306.7	10220.1	10100.2	10528.5	10865.0	10801.3	10385.8	9659.2	8965.8	8504.4	8443.2
60°	10786.0	10712.1	10607.6	10972.1	11125.1	10982.3	10227.7	9055.0	8292.8	7811.0	7783.0
62.5°	11227.0	11148.0	11051.1	11362.1	11341.7	11010.3	9508.8	8127.1	7107.4	6589.9	6544.0
65°	11576.3	11504.9	11476.9	11721.6	11688.4	10462.2	8389.7	6607.7	5192.9	4609.1	4591.3
67.5°	11675.7	11647.7	11798.1	12213.6	11696.1	9361.0	6579.7	4382.2	2788.9	2235.7	2202.6
70°	11303.5	11301.0	11731.8	12325.8	10635.6	7150.7	3882.6	1975.7	1402.1	1244.0	1223.7
72.5°	10819.1	10811.5	11153.1	10633.0	7887.5	3913.1	1634.1	1058.0	877.0	833.6	833.6
75°	10023.8	10003.4	10260.9	8088.9	4435.7	1473.5	866.8	726.5	688.3	680.7	680.7
77.5°	8170.4	7999.6	7594.3	4999.1	1547.4	724.0	573.6	571.0	548.1	545.5	545.5
80°	2686.9	2686.9	3122.9	1906.9	683.2	446.1	405.3	425.7	402.8	387.5	384.9
82.5°	438.5	604.2	859.1	545.5	369.6	277.9	249.8	265.1	277.9	221.8	221.8
85°	173.4	226.9	331.4	254.9	170.8	112.2	119.8	132.6	117.3	102.0	99.4
87.5°	66.3	81.6	117.3	61.2	35.7	20.4	12.7	12.7	10.2	10.2	10.2
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



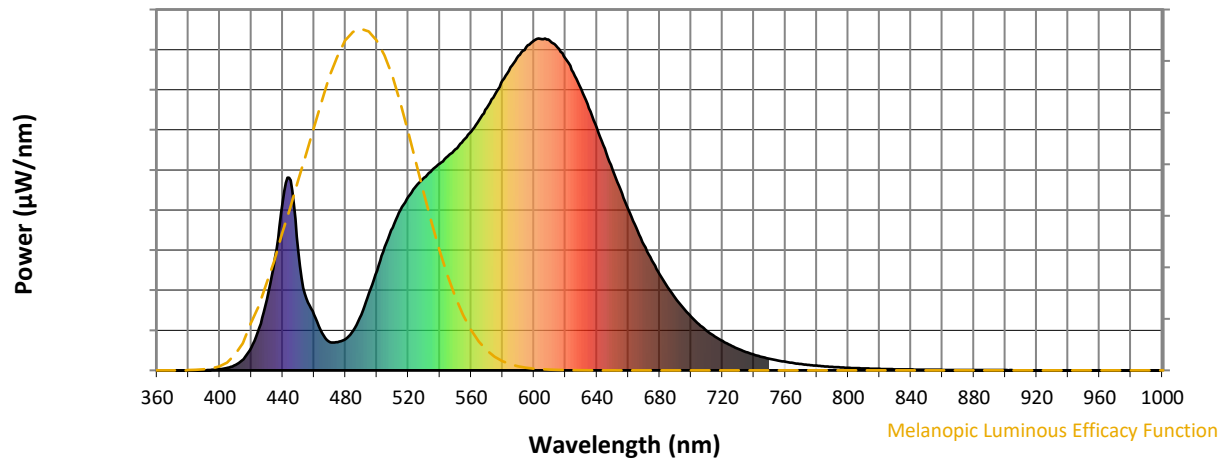
Scotopic Lumens: NR

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)