

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: P643416

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23047.5 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

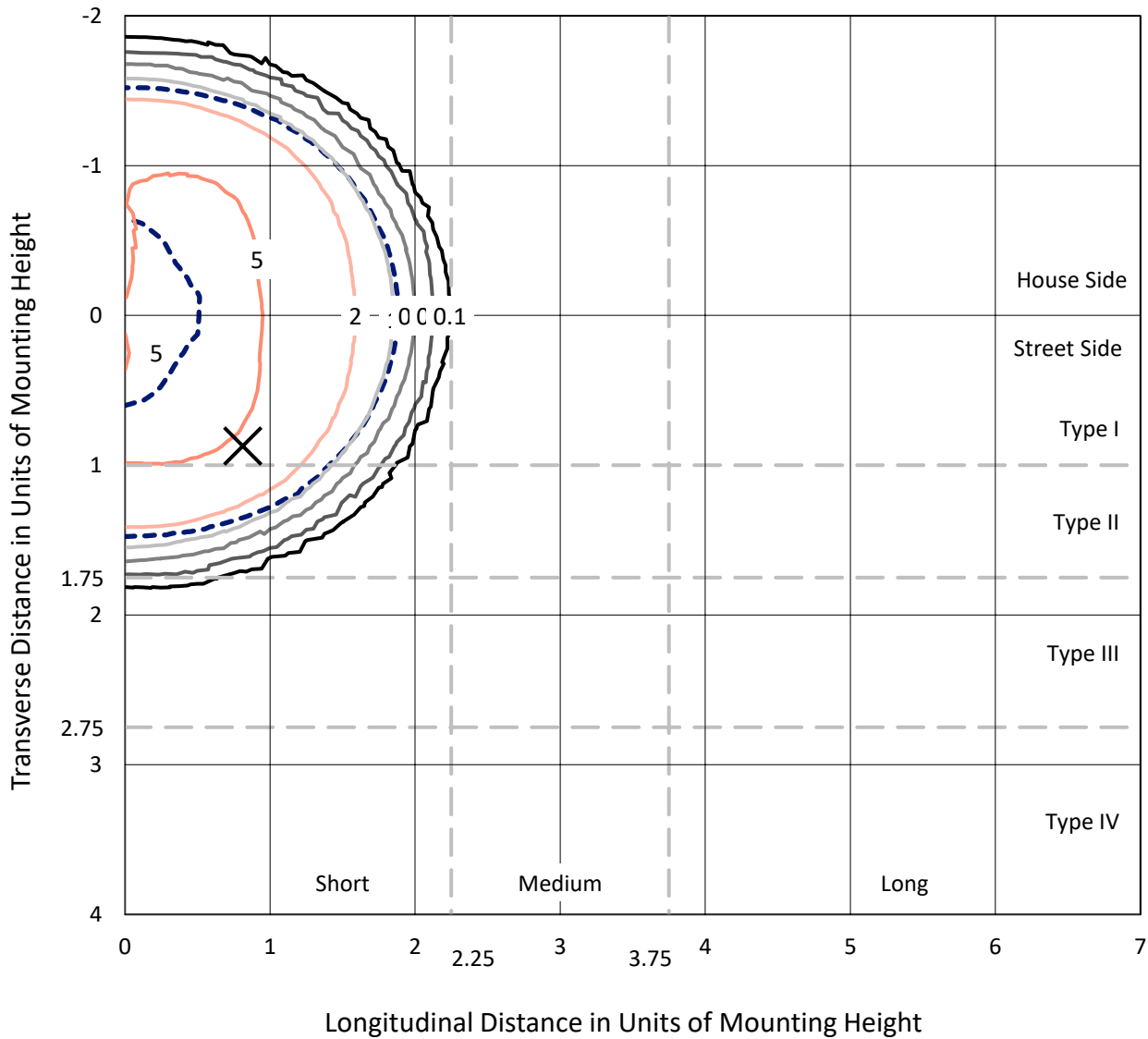
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643416
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Iso-Footcandle Lines of Horizontal Illumination

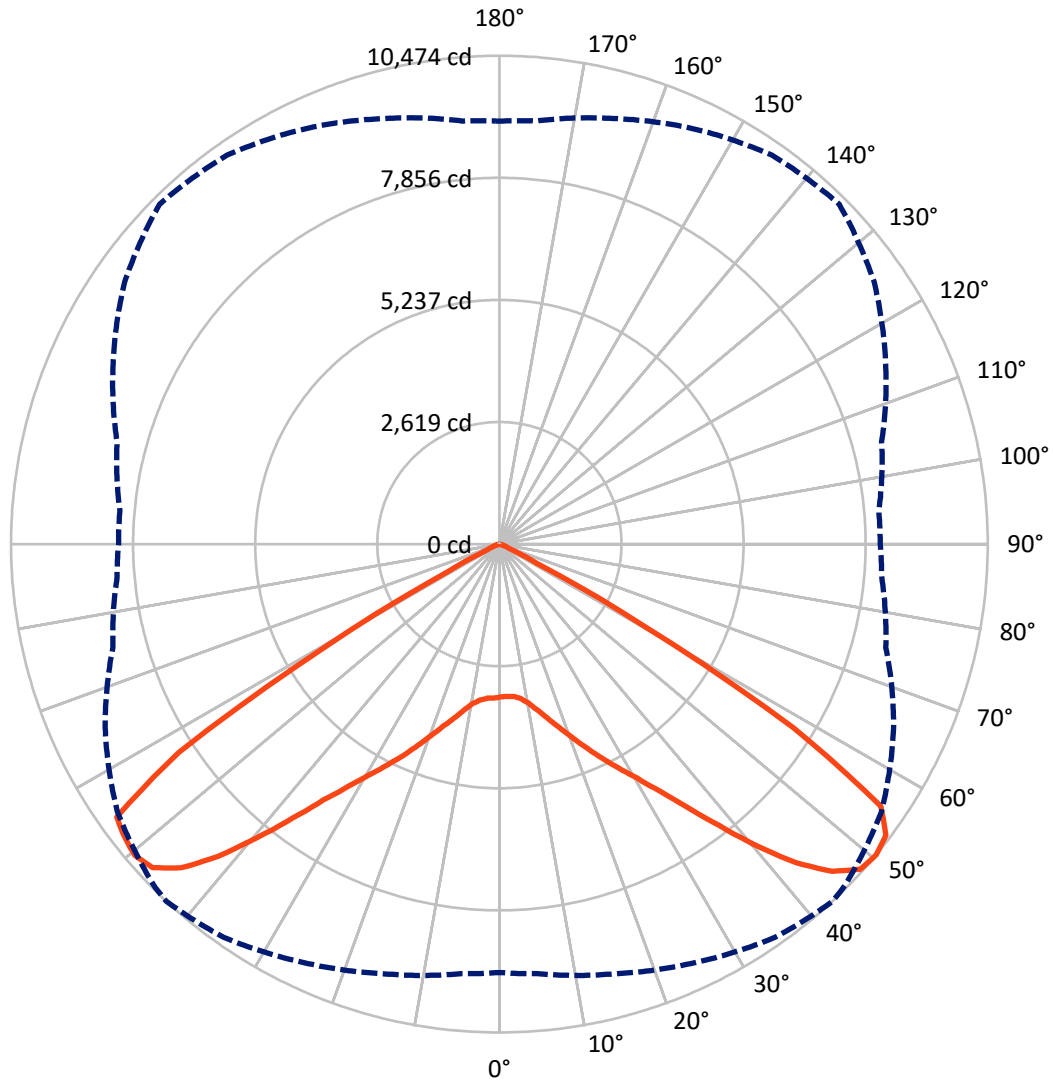
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11523.4	0.0	11523.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11524.0	0.0	11524.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23047.5	0.0	23047.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.8	1.4
10°-20°	1110.9	4.8
20°-30°	2247.6	9.8
30°-40°	4170.0	18.1
40°-50°	6922.0	30.0
50°-60°	7064.2	30.7
60°-70°	1158.5	5.0
70°-80°	50.7	0.2
80°-90°	0.7	0.0
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°	23047.5	100.0
0°-180°	23047.5	100.0

Coefficient of Utilization



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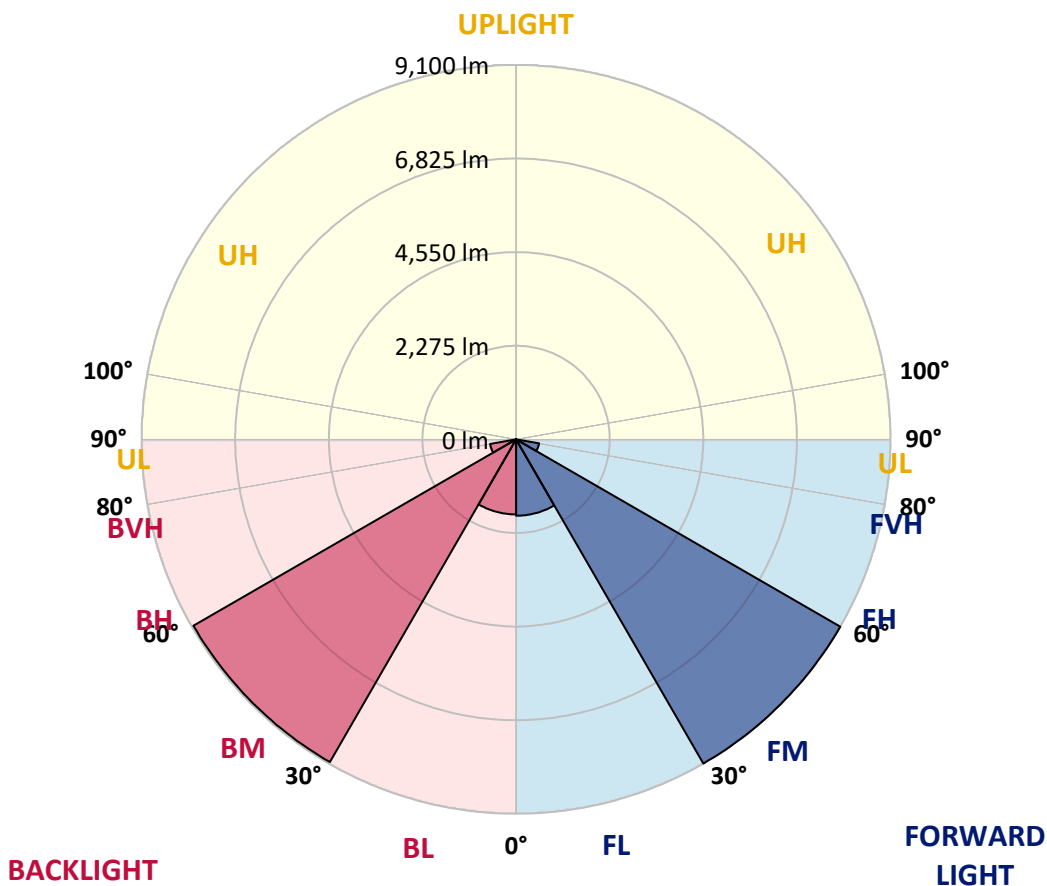
CATALOG NUMBER: GWS-SA6E-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.8	8.1			
FM (30°-60°)	9100.3	39.5			
FH (60°-80°)	566.7	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1824.5	7.9	B3/2500		
BM (30°-60°)	9056.0	39.3	B5		
BH (60°-80°)	642.4	2.8	B2/1000		G0/660
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G0

Type V Short





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CATALOG NUMBER: GWS-SA6E-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1
2.5°	3217.0	3224.6	3234.8	3245.0	3257.7	3270.5	3278.1	3301.1	3296.0	3316.4	3316.4
5°	3181.3	3188.9	3201.7	3224.6	3252.7	3280.7	3301.1	3347.0	3372.5	3413.2	3428.5
7.5°	3199.1	3209.3	3224.6	3260.3	3303.6	3347.0	3369.9	3443.8	3494.8	3571.3	3614.6
10°	3257.7	3267.9	3293.4	3354.6	3410.7	3471.9	3499.9	3594.2	3675.8	3780.3	3841.5
12.5°	3324.0	3336.8	3387.8	3479.5	3576.4	3658.0	3696.2	3800.7	3884.8	4002.1	4099.0
15°	3392.9	3413.2	3492.3	3627.4	3765.0	3874.6	3915.4	4027.6	4111.7	4236.6	4346.2
17.5°	3553.4	3576.4	3665.6	3810.9	3999.5	4127.0	4162.7	4279.9	4343.7	4427.8	4542.5
20°	3754.8	3798.2	3907.8	4083.7	4290.1	4412.5	4438.0	4552.7	4547.6	4583.3	4682.7
22.5°	4004.6	4035.2	4155.0	4364.1	4596.0	4731.1	4789.8	4838.2	4774.5	4743.9	4807.6
25°	4264.6	4300.3	4430.3	4659.8	4919.8	5075.3	5123.7	5161.9	5060.0	4945.3	4952.9
27.5°	4601.1	4626.6	4754.1	4998.8	5258.8	5434.7	5478.0	5544.3	5409.2	5225.7	5174.7
30°	5001.3	5026.8	5161.9	5419.4	5676.8	5827.2	5893.5	5975.1	5827.2	5597.8	5539.2
32.5°	5470.4	5495.9	5669.2	5934.3	6145.9	6309.0	6372.7	6459.4	6342.2	6084.7	6018.4
35°	6031.2	6046.5	6250.4	6538.4	6762.8	6920.8	6964.1	7066.1	6936.1	6678.6	6643.0
37.5°	6681.2	6699.0	6920.8	7254.7	7484.2	7660.0	7728.9	7756.9	7598.9	7310.8	7282.8
40°	7394.9	7453.6	7670.2	8029.7	8287.1	8508.9	8570.1	8475.8	8254.0	7861.4	7810.4
42.5°	8139.3	8190.3	8432.4	8822.4	9120.7	9347.5	9350.1	9146.2	8768.9	8225.9	8149.5
45°	8758.7	8779.1	9092.6	9485.2	9852.3	10012.9	10028.2	9658.5	9090.1	8437.5	8274.4
47.5°	9184.4	9217.5	9490.3	9867.6	10272.9	10418.2	10387.6	9926.2	9243.0	8575.2	8305.0
50°	9189.5	9245.6	9541.3	9905.8	10298.4	10474.3	10430.9	10002.7	9329.7	8580.3	8231.0
52.5°	8376.3	8468.1	8949.9	9477.6	10079.1	10379.9	10390.1	10102.1	9296.6	8498.7	8164.8
55°	6319.2	6418.6	7025.3	7925.2	9087.5	9926.2	10071.5	9984.8	9258.3	8534.4	8282.0
57.5°	3344.4	3267.9	3604.4	4496.6	5957.2	7440.8	7866.5	8559.9	8832.6	8577.7	8498.7
60°	729.0	777.5	1034.9	1394.4	2324.8	3499.9	3915.4	5103.3	6515.5	7142.6	7596.3
62.5°	313.5	308.4	321.2	364.5	532.8	887.1	1083.4	1769.1	2791.3	3833.8	4539.9
65°	257.5	260.0	270.2	270.2	252.4	254.9	267.7	405.3	652.6	915.1	1228.7
67.5°	193.7	196.3	214.1	219.2	206.5	183.5	181.0	152.9	160.6	201.4	209.0
70°	122.4	122.4	132.6	137.7	137.7	127.5	124.9	109.6	107.1	122.4	137.7
72.5°	66.3	66.3	71.4	73.9	71.4	68.8	68.8	66.3	63.7	73.9	94.3
75°	28.0	28.0	30.6	30.6	28.0	28.0	28.0	28.0	28.0	33.1	51.0
77.5°	5.1	7.6	10.2	7.6	5.1	5.1	5.1	7.6	7.6	10.2	15.3
80°	2.5	2.5	5.1	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1
2.5°	3334.2	3306.2	3316.4	3321.5	3313.8	3308.7	3280.7	3273.0	3260.3	3239.9	3234.8
5°	3446.4	3423.4	3420.9	3405.6	3369.9	3326.6	3273.0	3250.1	3224.6	3199.1	3194.0
7.5°	3635.0	3607.0	3589.1	3538.2	3456.6	3387.8	3298.5	3250.1	3217.0	3183.8	3176.2
10°	3877.2	3844.0	3793.1	3698.7	3589.1	3489.7	3385.2	3321.5	3270.5	3224.6	3222.1
12.5°	4134.6	4099.0	4007.2	3887.4	3754.8	3663.1	3530.5	3441.3	3364.8	3296.0	3288.3
15°	4404.8	4361.5	4236.6	4093.9	3971.5	3877.2	3731.9	3589.1	3471.9	3372.5	3362.3
17.5°	4611.3	4557.8	4409.9	4302.9	4203.5	4106.6	3943.5	3754.8	3599.3	3479.5	3451.5
20°	4741.3	4690.3	4550.1	4491.5	4445.6	4376.8	4183.1	3986.8	3813.5	3665.6	3640.1
22.5°	4866.2	4805.1	4682.7	4682.7	4718.4	4690.3	4481.3	4257.0	4053.1	3882.3	3844.0
25°	5006.4	4958.0	4871.3	4942.7	5031.9	5029.4	4815.2	4534.8	4300.3	4109.1	4070.9
27.5°	5210.4	5161.9	5131.3	5266.4	5378.6	5371.0	5136.4	4833.1	4585.8	4397.2	4361.5
30°	5569.8	5523.9	5490.8	5653.9	5796.7	5743.1	5485.7	5192.5	4942.7	4728.6	4703.1
32.5°	6049.0	6000.6	5957.2	6120.4	6247.8	6179.0	5934.3	5659.0	5371.0	5161.9	5110.9
35°	6678.6	6576.7	6533.3	6727.1	6780.6	6704.1	6469.6	6227.5	5921.6	5681.9	5648.8
37.5°	7328.7	7208.9	7178.3	7346.5	7433.2	7405.1	7129.8	6877.5	6546.1	6281.0	6242.7
40°	7884.4	7774.8	7721.2	7983.8	8180.1	8197.9	7950.6	7642.2	7252.2	6976.9	6908.1
42.5°	8210.7	8116.3	8103.6	8511.4	8832.6	9062.0	8766.4	8447.7	8037.3	7726.3	7670.2
45°	8284.6	8223.4	8330.5	8865.8	9365.4	9783.4	9531.1	9194.6	8751.1	8422.2	8368.7
47.5°	8276.9	8256.5	8447.7	9049.3	9681.5	10196.4	10071.5	9691.7	9263.4	8919.3	8868.3
50°	8167.3	8169.9	8488.5	9141.1	9808.9	10308.6	10183.7	9831.9	9449.5	9110.5	9069.7
52.5°	8124.0	8108.7	8412.0	9113.0	9938.9	10257.6	9977.2	9582.1	9156.4	8738.3	8677.1
55°	8276.9	8238.7	8422.2	9090.1	9954.2	10229.5	9490.3	8633.8	7762.0	7267.5	7226.7
57.5°	8506.3	8465.6	8552.2	8921.8	9156.4	8506.3	6984.5	5602.9	4705.6	4325.8	4160.1
60°	7596.3	7568.3	7502.0	7055.9	6051.6	4565.4	3109.9	1983.2	1424.9	1152.2	1152.2
62.5°	4713.3	4675.0	4315.6	3206.8	2329.9	1348.5	741.8	463.9	351.8	328.8	326.3
65°	1323.0	1315.3	1088.5	769.8	489.4	303.3	267.7	272.8	267.7	260.0	257.5
67.5°	198.8	219.2	219.2	178.4	170.8	191.2	224.3	239.6	226.9	214.1	209.0
70°	127.5	137.7	132.6	114.7	122.4	142.7	160.6	163.1	155.5	142.7	140.2
72.5°	89.2	99.4	81.6	73.9	76.5	84.1	91.8	91.8	89.2	84.1	79.0
75°	53.5	53.5	38.2	35.7	35.7	38.2	38.2	43.3	43.3	40.8	38.2
77.5°	17.8	20.4	12.7	10.2	10.2	10.2	12.7	15.3	15.3	12.7	10.2
80°	2.5	5.1	2.5	2.5	2.5	2.5	2.5	2.5	5.1	5.1	2.5
82.5°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)