

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: P629070

Luminaire Tested: GWS-SA1A-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-830-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1321.3 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

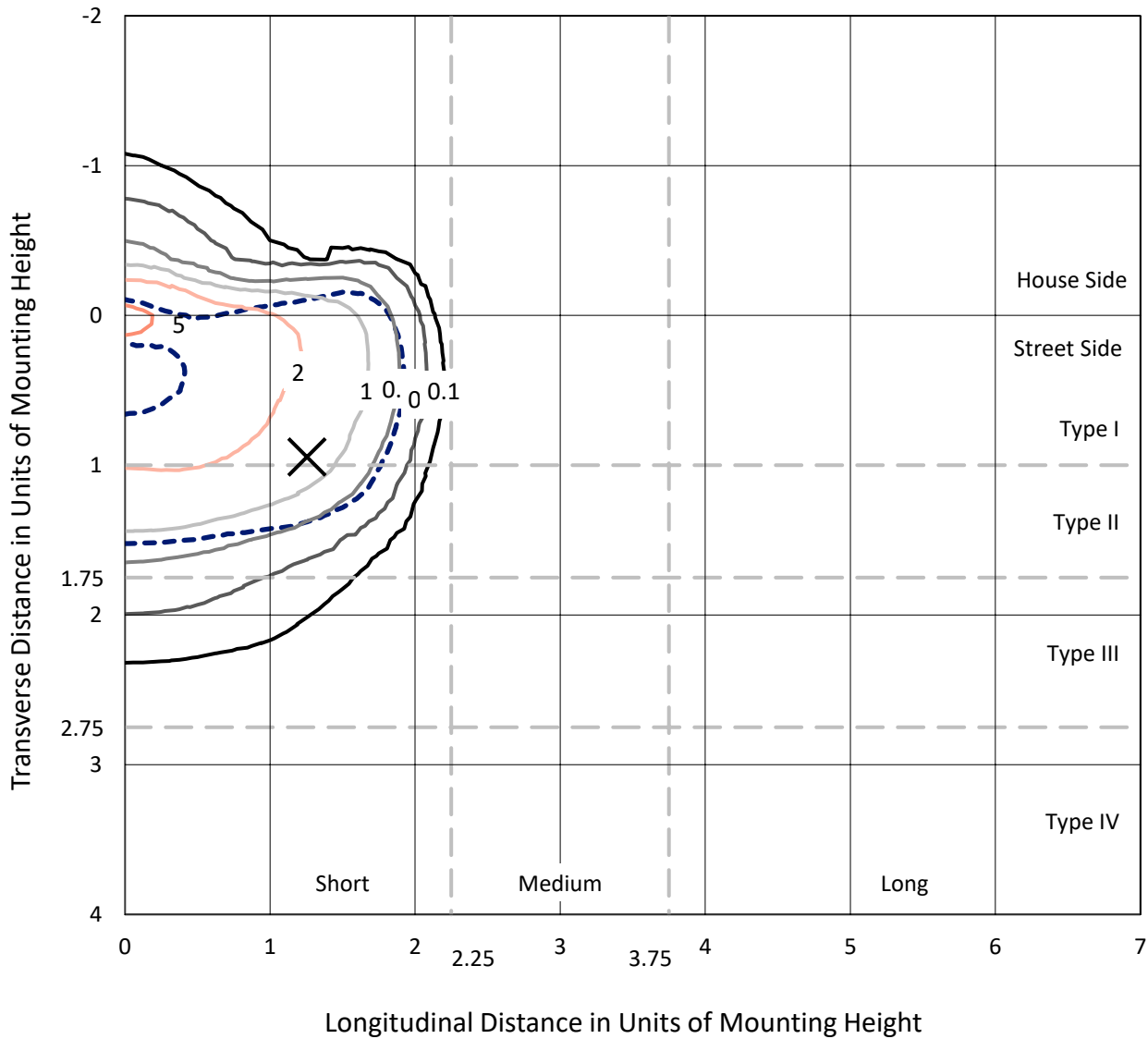
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

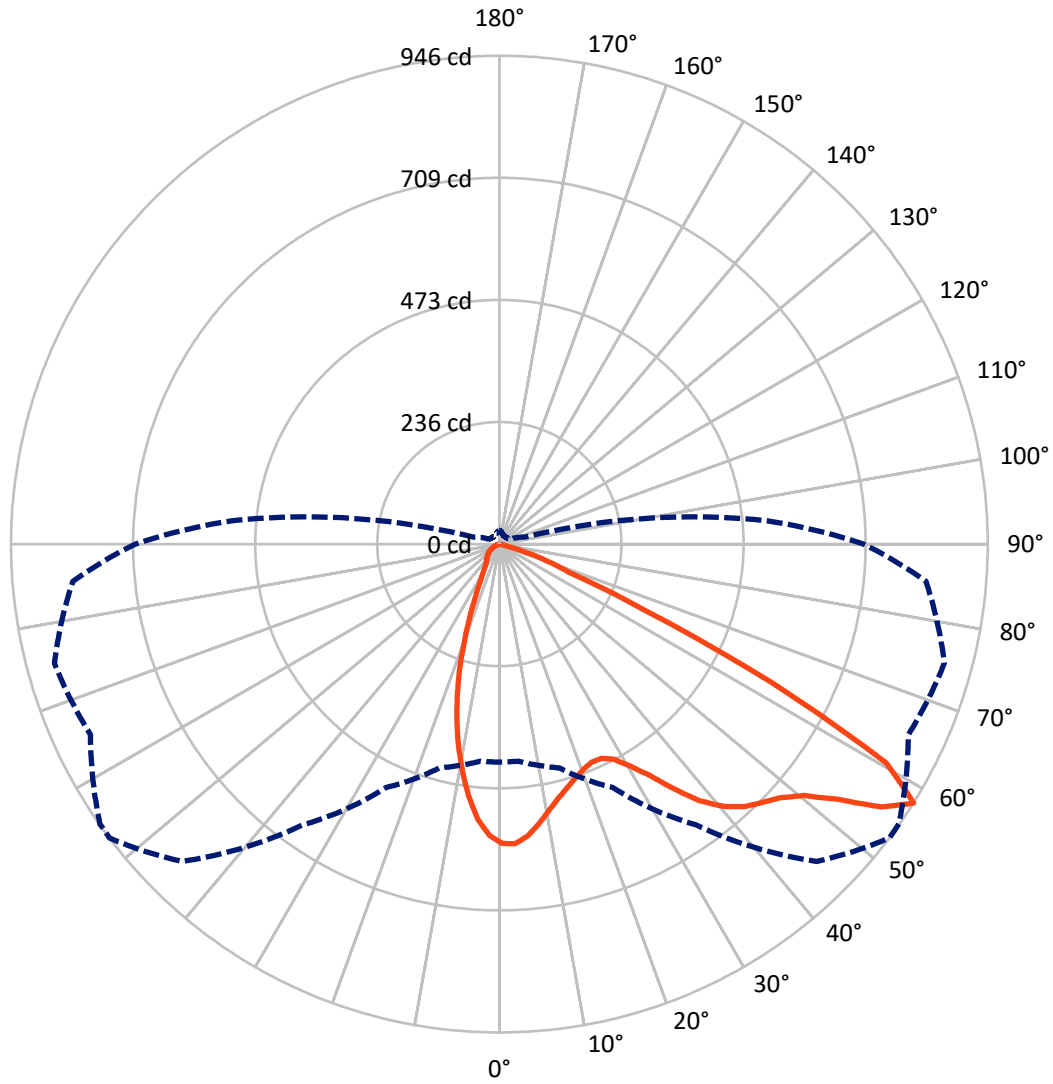
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	218.3	0.0	218.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	1103.0	0.0	1103.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	1321.3	0.0	1321.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	3.8
10°-20°	108.9	8.2
20°-30°	141.8	10.7
30°-40°	205.7	15.6
40°-50°	296.8	22.5
50°-60°	359.0	27.2
60°-70°	146.3	11.1
70°-80°	13.1	1.0
80°-90°	0.0	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°	1321.3	100.0
0°-180°	1321.3	100.0

Coefficient of Utilization



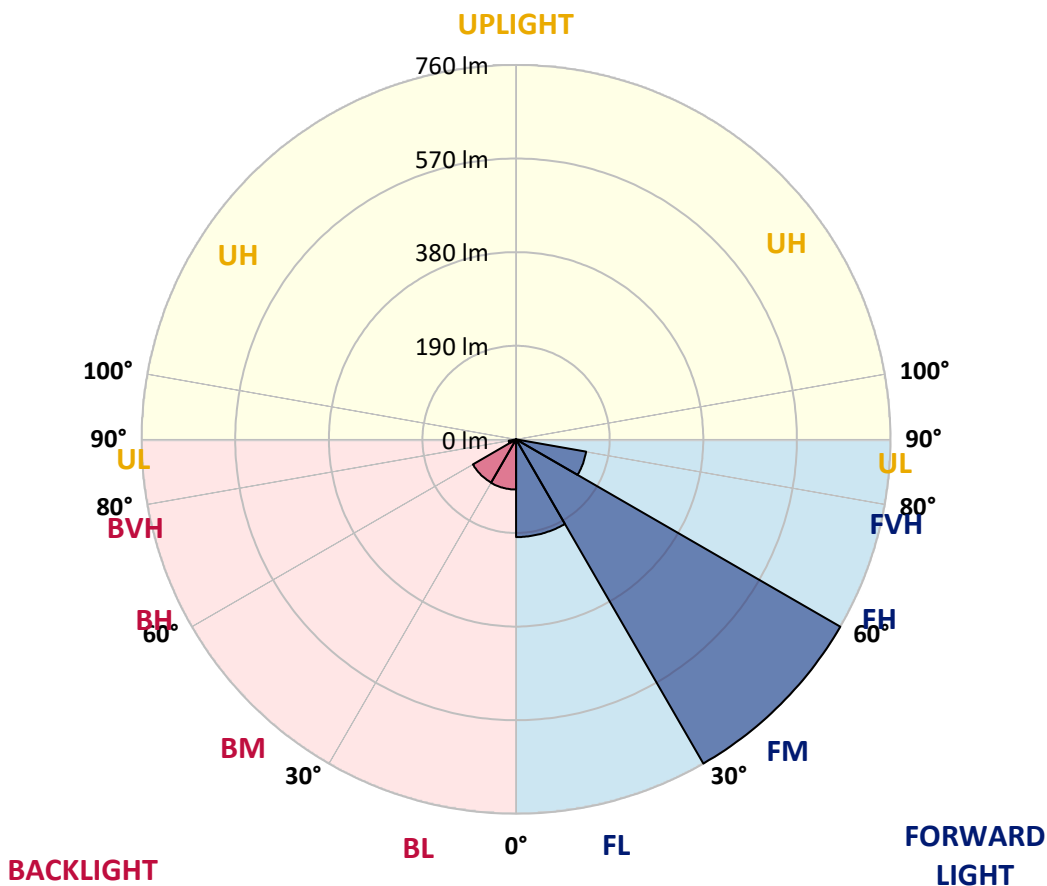
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.4	15.0			
FM (30°-60°)	760.2	57.5			
FH (60°-80°)	144.4	10.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	101.9	7.7	B0/110		
BM (30°-60°)	101.3	7.7	B0/220		
BH (60°-80°)	15.1	1.1	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6
2.5°	571.5	572.8	575.1	578.0	579.9	580.9	580.9	583.6	581.9	580.4	578.8
5°	547.0	548.3	551.4	556.1	560.8	564.2	568.1	571.0	572.1	572.1	569.4
7.5°	512.6	514.3	516.3	522.8	533.0	540.6	547.2	551.4	557.6	559.5	555.6
10°	475.5	477.2	481.6	490.5	502.2	513.5	524.9	530.2	540.7	546.2	541.9
12.5°	444.1	444.9	450.7	461.4	476.3	491.8	505.6	511.1	526.0	534.3	529.1
15°	418.1	418.6	424.5	436.3	453.4	472.6	489.9	495.5	513.8	526.3	518.5
17.5°	398.5	398.7	403.7	416.5	434.5	455.7	476.3	483.2	506.9	521.9	510.3
20°	388.7	388.2	391.7	402.9	419.9	441.1	465.4	474.0	503.0	521.3	504.0
22.5°	388.8	387.7	389.2	397.1	411.5	431.4	458.6	468.3	503.3	524.1	498.6
25°	398.1	396.4	396.8	401.0	411.2	429.3	459.6	470.0	509.8	533.3	496.7
27.5°	413.6	411.8	411.8	413.9	419.4	436.0	471.7	483.6	527.1	551.3	500.7
30°	433.7	431.9	431.3	433.4	437.9	453.1	498.8	511.1	556.8	580.7	513.7
32.5°	456.7	454.6	455.7	458.6	463.0	484.1	533.6	550.0	593.8	620.4	537.0
35°	481.0	479.2	484.4	490.7	497.5	527.0	581.7	596.0	639.4	669.8	572.6
37.5°	504.1	503.3	514.2	527.5	541.5	578.5	630.6	641.6	678.4	723.6	616.2
40°	527.3	527.1	545.8	569.1	591.6	629.8	667.7	676.8	702.2	765.3	658.0
42.5°	553.2	553.2	578.9	610.0	640.0	673.2	694.9	699.0	712.9	789.5	689.4
45°	578.0	579.4	609.2	645.3	680.8	707.0	713.7	714.0	717.2	803.7	715.5
47.5°	597.6	598.9	634.5	676.1	714.3	732.8	733.8	732.3	728.7	817.3	735.5
50°	613.4	615.4	652.6	696.7	737.3	757.6	765.0	763.6	754.5	831.9	749.6
52.5°	621.2	624.0	659.0	706.9	762.9	800.0	820.7	824.1	793.0	840.0	763.1
55°	559.0	563.1	595.3	660.9	777.2	865.6	898.1	897.5	834.8	864.1	795.8
57.5°	422.2	421.9	448.6	520.3	663.8	869.3	945.8	944.5	873.8	892.1	829.3
60°	287.5	285.5	292.6	327.3	464.1	708.2	860.7	878.2	846.2	824.1	704.1
62.5°	236.6	234.8	232.6	223.0	266.6	441.1	594.7	621.2	617.0	572.8	441.6
65°	193.7	195.1	201.5	197.4	185.4	226.2	308.7	324.4	296.5	249.6	154.3
67.5°	142.8	143.5	151.7	173.1	166.6	150.6	145.3	147.9	86.6	39.8	25.7
70°	84.4	84.9	92.5	121.1	135.2	115.6	98.1	96.7	34.3	10.7	11.7
72.5°	47.8	46.8	48.3	57.7	73.7	61.4	50.5	46.0	10.4	6.0	6.0
75°	22.7	22.0	18.9	17.8	16.2	10.4	6.5	5.5	2.6	2.4	2.4
77.5°	0.2	0.5	0.3	0.5	0.5	0.3	0.2	0.2	0.5	0.5	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-SA1A-830-U-SL3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6
2.5°	575.9	571.0	569.9	569.6	565.0	560.2	555.1	553.2	550.3	548.5	550.0
5°	565.0	558.1	551.9	546.2	536.2	525.2	515.6	509.5	503.6	499.8	500.7
7.5°	549.6	540.6	526.5	512.1	493.6	477.1	458.6	447.3	436.8	430.9	433.7
10°	533.3	521.3	498.8	474.3	445.3	419.4	393.0	371.5	359.0	347.2	348.5
12.5°	517.2	501.4	467.7	430.6	394.0	355.8	316.0	286.2	265.8	251.0	248.7
15°	502.4	481.9	437.4	388.5	338.6	287.8	236.9	194.3	170.7	156.1	155.1
17.5°	489.1	463.8	406.0	344.5	281.9	216.8	158.4	126.5	112.9	106.6	105.9
20°	476.3	445.5	373.9	299.8	220.1	152.2	109.3	94.6	90.2	87.6	87.9
22.5°	464.0	425.6	340.2	250.2	165.0	106.9	84.7	79.0	78.5	78.9	79.0
25°	453.6	407.3	305.6	202.4	117.7	81.5	70.8	69.2	70.6	72.7	73.0
27.5°	448.3	392.4	271.7	154.3	85.2	66.2	61.4	62.0	64.6	66.9	67.2
30°	449.7	381.2	236.8	111.9	65.6	55.9	54.3	55.5	58.1	60.2	60.6
32.5°	460.1	375.5	201.0	81.5	53.9	48.7	48.1	49.1	51.3	53.0	53.1
35°	480.6	376.8	167.0	62.3	46.3	43.4	43.2	43.9	45.0	46.2	46.3
37.5°	510.9	387.4	133.4	51.8	41.9	39.8	39.2	39.2	40.0	40.5	40.8
40°	543.5	403.2	106.9	45.8	38.9	36.6	35.3	34.8	35.5	36.1	36.3
42.5°	570.4	419.1	86.8	41.6	36.4	33.4	31.7	31.4	32.2	33.4	33.7
45°	590.9	431.4	72.4	38.2	33.7	30.3	28.5	28.5	30.0	31.9	32.2
47.5°	609.7	441.3	61.7	35.1	31.1	27.5	25.7	26.1	28.5	31.1	31.6
50°	622.5	449.2	53.8	32.4	29.0	25.3	23.6	24.3	27.2	30.3	30.8
52.5°	636.3	458.9	48.6	30.0	27.0	23.5	22.0	22.5	25.7	29.1	29.8
55°	674.3	491.5	48.4	26.7	23.6	21.1	20.4	20.6	23.8	27.7	28.5
57.5°	705.4	520.2	51.7	22.5	19.8	18.5	18.1	18.3	21.2	25.6	26.6
60°	583.6	404.2	42.8	18.6	16.5	16.2	15.7	16.0	18.8	22.7	23.5
62.5°	345.4	231.1	20.4	14.3	14.1	13.8	13.3	13.9	16.5	19.9	20.4
65°	118.1	68.5	13.0	11.7	12.0	11.5	11.0	11.7	13.9	15.9	16.0
67.5°	22.7	18.1	10.4	9.7	9.9	8.9	8.7	9.4	10.7	11.0	10.9
70°	11.8	10.5	7.9	7.9	7.6	6.3	6.3	7.0	7.0	6.5	6.3
72.5°	6.2	5.8	5.2	5.8	4.9	3.9	3.9	4.2	3.9	3.2	3.2
75°	2.4	2.4	2.3	2.9	2.1	1.8	1.6	1.9	1.5	1.1	1.1
77.5°	0.6	0.6	0.6	0.8	0.5	0.5	0.3	0.3	0.2	0.0	0.0
80°	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

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)