

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: P629559

Luminaire Tested: GWS-SA1B-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.8 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 25
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

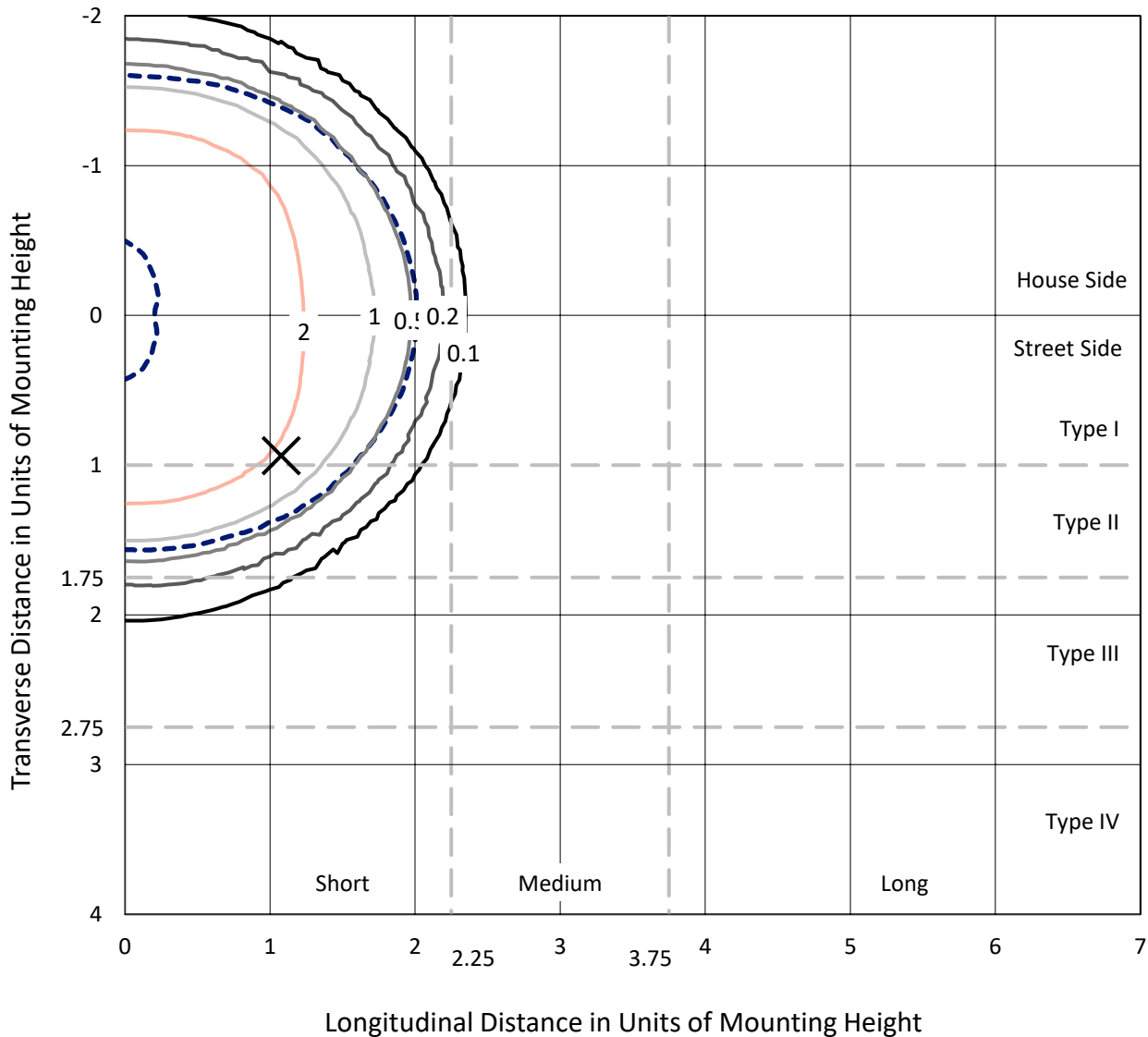


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Iso-Footcandle Lines of Horizontal Illumination

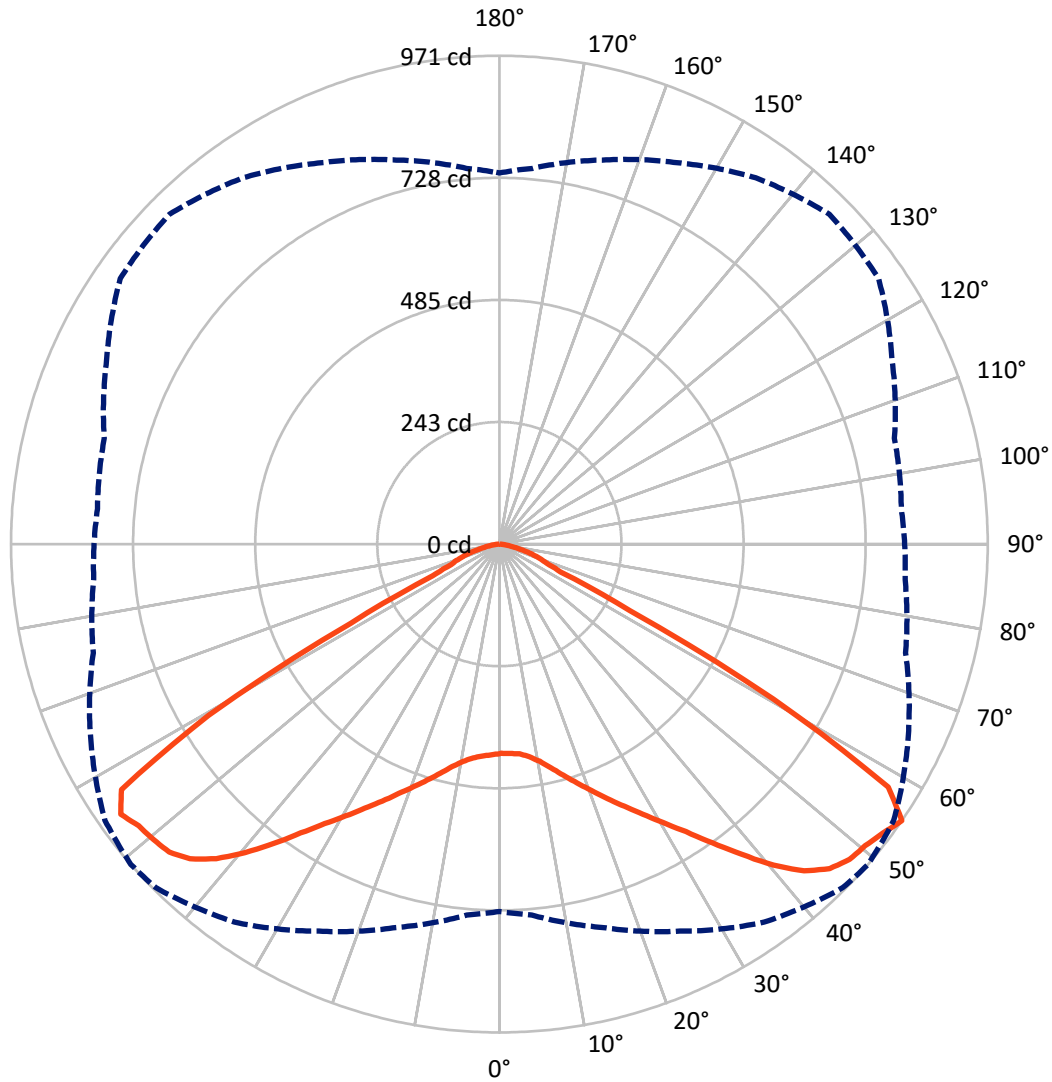
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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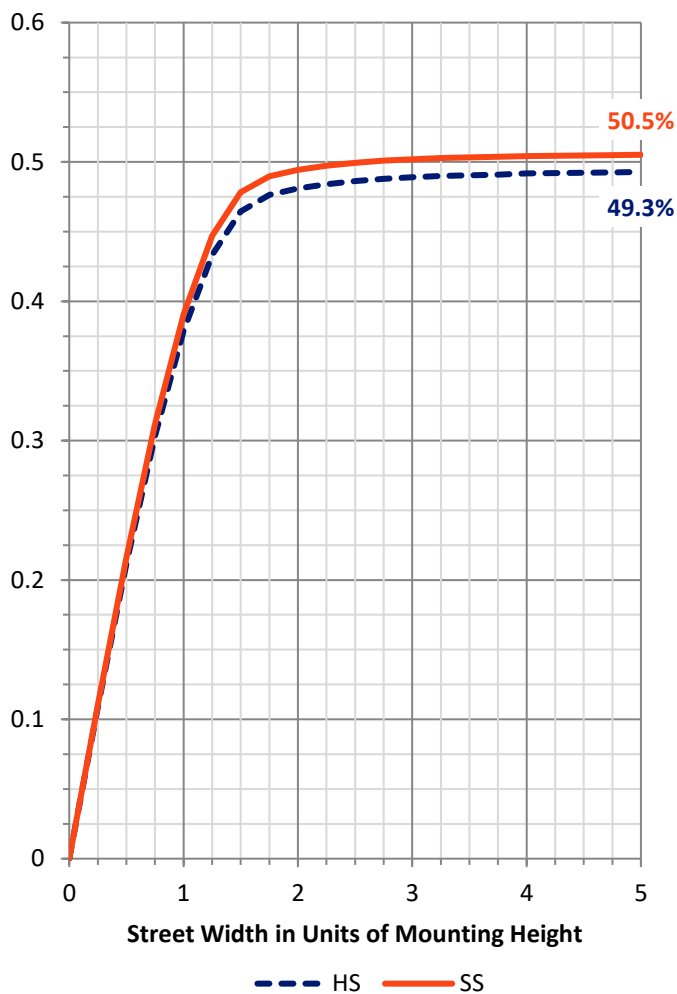
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1242.6	0.0	1242.6
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	1267.2	0.0	1267.2
	% Fixture	50.5	0.0	50.5
Total	Lumens	2509.8	0.0	2509.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.6
10°-20°	133.8	5.3
20°-30°	254.8	10.2
30°-40°	432.0	17.2
40°-50°	650.1	25.9
50°-60°	711.5	28.4
60°-70°	225.0	9.0
70°-80°	54.0	2.2
80°-90°	8.1	0.3
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°	2509.8	100.0
0°-180°	2509.8	100.0

Coefficient of Utilization



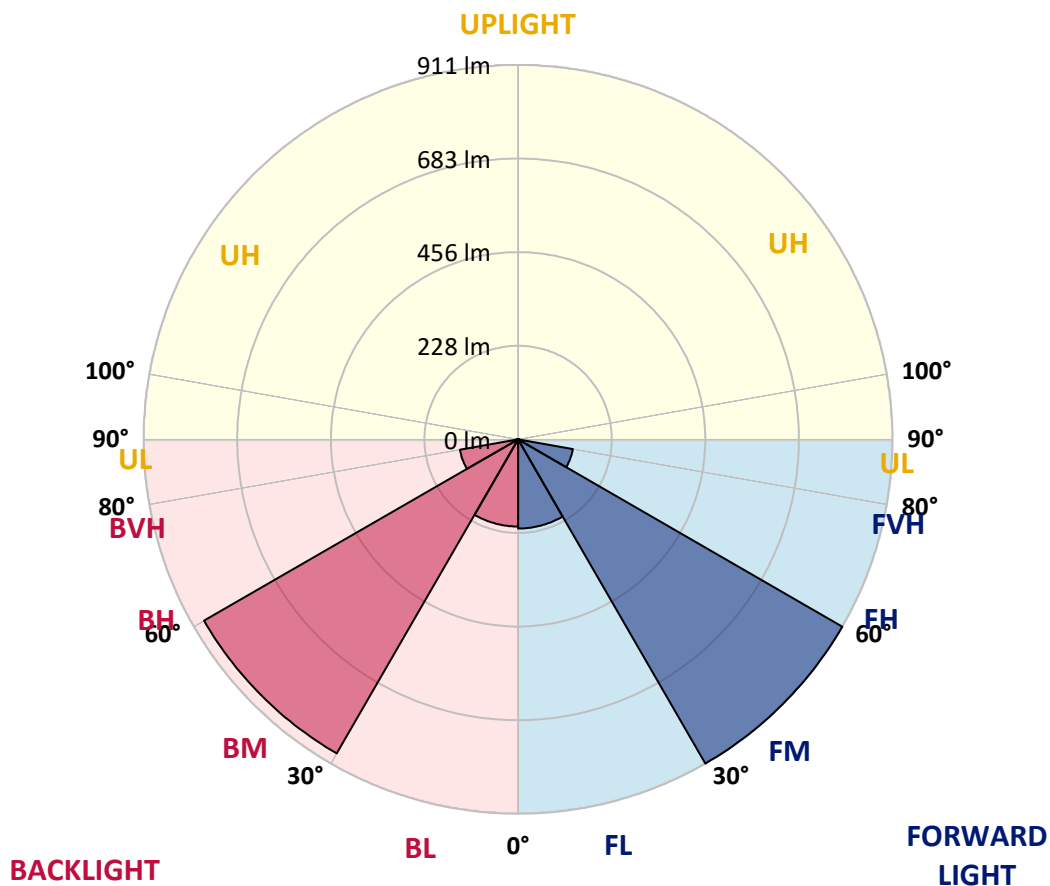
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.0	8.6			
FM (30°-60°)	911.1	36.3			
FH (60°-80°)	135.3	5.4			G0/660
FVH (80°-90°)	3.8	0.1			G0/10
BL (0°-30°)	212.1	8.5	B1/500		
BM (30°-60°)	882.4	35.2	B1/1000		
BH (60°-80°)	143.7	5.7	B1/500		G0/660
BVH (80°-90°)	4.4	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8
2.5°	409.6	410.0	410.9	412.3	413.7	415.8	416.6	417.6	417.4	418.6	418.6
5°	407.6	408.2	409.4	411.5	413.9	417.8	418.8	421.3	423.7	426.8	427.8
7.5°	410.0	410.9	412.3	415.6	419.2	424.3	426.4	430.5	435.2	440.7	442.9
10°	414.7	415.8	418.2	423.5	429.4	437.2	439.0	444.1	451.7	459.2	463.7
12.5°	420.0	421.7	426.2	434.5	443.3	453.5	456.4	462.7	470.9	480.7	486.8
15°	426.2	427.6	434.5	446.4	460.1	473.5	476.8	482.9	492.1	501.7	510.3
17.5°	439.0	441.5	449.6	463.3	479.2	495.2	498.8	505.8	513.1	520.7	528.8
20°	456.6	458.6	469.0	486.0	504.8	519.2	522.9	529.0	532.5	536.4	543.3
22.5°	474.1	477.0	488.8	508.8	530.9	546.6	549.5	555.2	552.7	551.5	556.0
25°	496.0	499.9	511.5	533.3	555.8	575.2	577.4	582.3	578.2	571.9	571.7
27.5°	523.1	526.6	538.6	561.1	583.3	603.5	607.8	614.4	605.4	597.6	592.1
30°	555.4	557.6	570.9	594.8	617.6	636.8	642.3	648.9	642.1	629.3	623.7
32.5°	592.9	596.0	611.3	636.4	656.8	676.0	681.5	689.7	682.3	667.8	660.9
35°	638.0	641.1	657.2	684.6	705.4	725.2	729.1	735.8	726.6	709.9	704.4
37.5°	687.0	690.9	711.3	737.2	759.1	782.1	782.3	784.4	771.3	750.5	744.4
40°	742.1	747.2	767.6	794.6	820.9	839.7	839.5	833.8	811.7	779.5	770.1
42.5°	796.6	800.7	821.3	849.1	875.4	893.2	887.9	874.0	842.1	798.3	785.8
45°	836.0	839.1	860.7	891.9	918.7	929.7	920.1	903.4	860.3	810.1	791.7
47.5°	854.6	858.7	880.5	911.5	941.7	948.1	936.6	920.9	870.9	821.1	796.4
50°	844.6	849.9	874.6	903.4	937.5	950.5	942.4	926.6	882.1	831.9	804.8
52.5°	818.7	823.8	855.0	889.9	928.5	954.4	954.2	941.3	895.0	835.0	805.2
55°	730.1	740.1	788.7	848.9	917.5	965.8	970.7	957.1	897.0	835.8	809.5
57.5°	475.2	492.7	538.8	617.2	754.8	878.5	911.5	914.8	882.3	832.3	810.3
60°	198.4	212.5	249.0	301.1	414.7	561.9	626.0	690.3	767.8	796.0	802.7
62.5°	123.3	124.5	128.2	140.0	178.0	249.8	291.1	351.3	466.6	564.8	610.1
65°	111.2	111.8	112.7	111.8	113.7	122.5	133.5	154.5	201.5	250.2	308.2
67.5°	98.0	98.8	99.4	98.8	99.4	99.8	101.0	102.9	111.4	118.4	123.7
70°	79.2	80.4	81.4	81.0	83.5	83.5	84.7	86.1	90.4	95.5	99.2
72.5°	60.4	59.4	60.6	61.0	63.3	64.5	66.3	68.0	72.9	75.9	80.6
75°	39.2	38.2	40.0	41.0	44.1	45.7	47.4	49.0	52.5	54.5	59.0
77.5°	21.2	21.0	22.9	24.3	27.6	29.6	30.8	32.0	34.9	35.5	38.4
80°	12.2	12.2	13.5	14.5	16.5	18.8	20.0	21.0	23.1	23.7	24.9
82.5°	6.7	6.7	7.3	8.0	9.6	10.8	11.8	12.7	14.5	15.1	15.7
85°	3.3	3.1	3.5	3.9	4.5	5.1	5.7	6.1	7.6	8.0	8.8
87.5°	0.4	0.4	0.4	0.6	0.8	1.2	1.4	1.4	2.2	2.7	3.1
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: GWS-SA1B-830-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8	415.8
2.5°	419.8	417.2	418.8	419.4	419.4	418.8	416.2	415.4	414.1	412.3	412.3
5°	429.2	427.2	427.6	426.6	424.1	421.1	416.2	413.7	411.7	409.4	409.2
7.5°	445.4	442.7	442.3	438.4	431.9	425.4	418.0	413.5	410.5	407.6	407.4
10°	466.4	463.9	460.9	453.1	443.5	433.9	423.9	417.8	413.3	409.2	409.0
12.5°	489.9	487.0	481.3	469.9	457.8	448.4	437.0	427.6	420.9	415.4	414.3
15°	515.4	511.3	501.5	488.0	476.2	466.2	453.9	440.5	430.3	421.5	420.5
17.5°	535.0	529.7	519.0	506.4	496.6	486.6	470.7	453.7	439.0	428.0	426.4
20°	548.4	544.1	532.1	522.7	517.0	508.2	489.6	470.5	453.9	440.1	439.2
22.5°	560.9	555.8	543.9	538.4	538.4	532.5	514.8	492.1	472.7	456.6	454.5
25°	575.0	569.5	560.5	559.9	562.7	560.1	538.6	514.3	491.7	473.5	470.3
27.5°	594.6	588.4	583.1	586.8	590.9	588.0	564.1	536.0	512.1	493.7	490.9
30°	625.8	618.2	613.3	617.8	625.8	617.4	591.5	561.7	537.6	517.4	516.0
32.5°	662.1	653.5	648.4	655.6	662.7	649.7	624.0	595.4	570.1	548.8	546.4
35°	705.8	695.0	687.4	697.0	704.4	691.5	666.0	638.9	610.7	588.6	585.4
37.5°	744.6	731.5	726.4	739.9	749.7	741.3	713.6	688.0	657.2	633.1	631.7
40°	772.7	759.9	756.2	778.5	795.6	793.6	768.7	739.5	710.5	682.7	680.1
42.5°	785.0	776.0	776.8	806.8	833.4	846.4	824.2	793.0	765.0	736.2	734.4
45°	787.6	782.1	788.7	826.2	861.1	887.9	868.9	842.8	811.1	783.4	782.5
47.5°	790.5	787.4	797.4	837.2	878.7	909.7	899.1	872.1	840.1	813.0	810.9
50°	797.2	796.0	807.2	845.0	887.0	915.6	903.6	876.8	844.0	817.2	812.3
52.5°	799.3	797.2	813.4	857.0	900.9	915.4	889.5	854.6	821.5	791.7	786.6
55°	805.6	801.9	813.0	861.5	920.1	927.3	888.7	836.4	790.3	749.7	737.6
57.5°	807.2	803.2	810.3	854.2	899.3	893.0	781.1	675.0	588.0	542.9	548.0
60°	798.5	799.7	787.4	782.5	721.3	636.8	478.2	382.3	300.2	265.5	273.1
62.5°	607.8	612.9	571.1	496.6	381.9	302.7	200.2	155.5	131.6	125.5	126.5
65°	306.8	313.7	270.2	223.5	166.1	134.3	116.1	112.5	111.2	109.8	109.8
67.5°	121.4	123.5	121.9	114.1	106.1	103.3	102.5	102.1	100.6	99.8	100.0
70°	97.6	99.2	96.7	91.8	88.6	88.4	88.0	87.2	86.1	86.1	86.7
72.5°	79.6	81.2	77.8	74.7	72.3	70.4	69.4	68.8	67.4	67.4	68.0
75°	58.6	59.6	56.7	56.3	53.7	51.8	50.2	49.4	47.6	46.7	47.4
77.5°	39.0	38.8	37.4	37.4	36.3	34.1	32.2	30.4	28.0	26.3	26.7
80°	25.3	25.3	24.7	24.7	23.7	21.8	19.6	17.8	16.3	15.1	15.1
82.5°	16.1	15.9	15.7	15.5	15.1	13.3	11.6	10.4	9.4	8.6	8.8
85°	9.0	9.0	8.6	8.6	7.8	6.7	5.9	5.1	4.5	4.3	4.3
87.5°	3.1	3.1	2.9	2.9	2.4	1.8	1.4	1.2	1.0	0.8	1.0
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)