

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: P629074

Luminaire Tested: GWS-SA1A-830-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-830-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1779.9 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

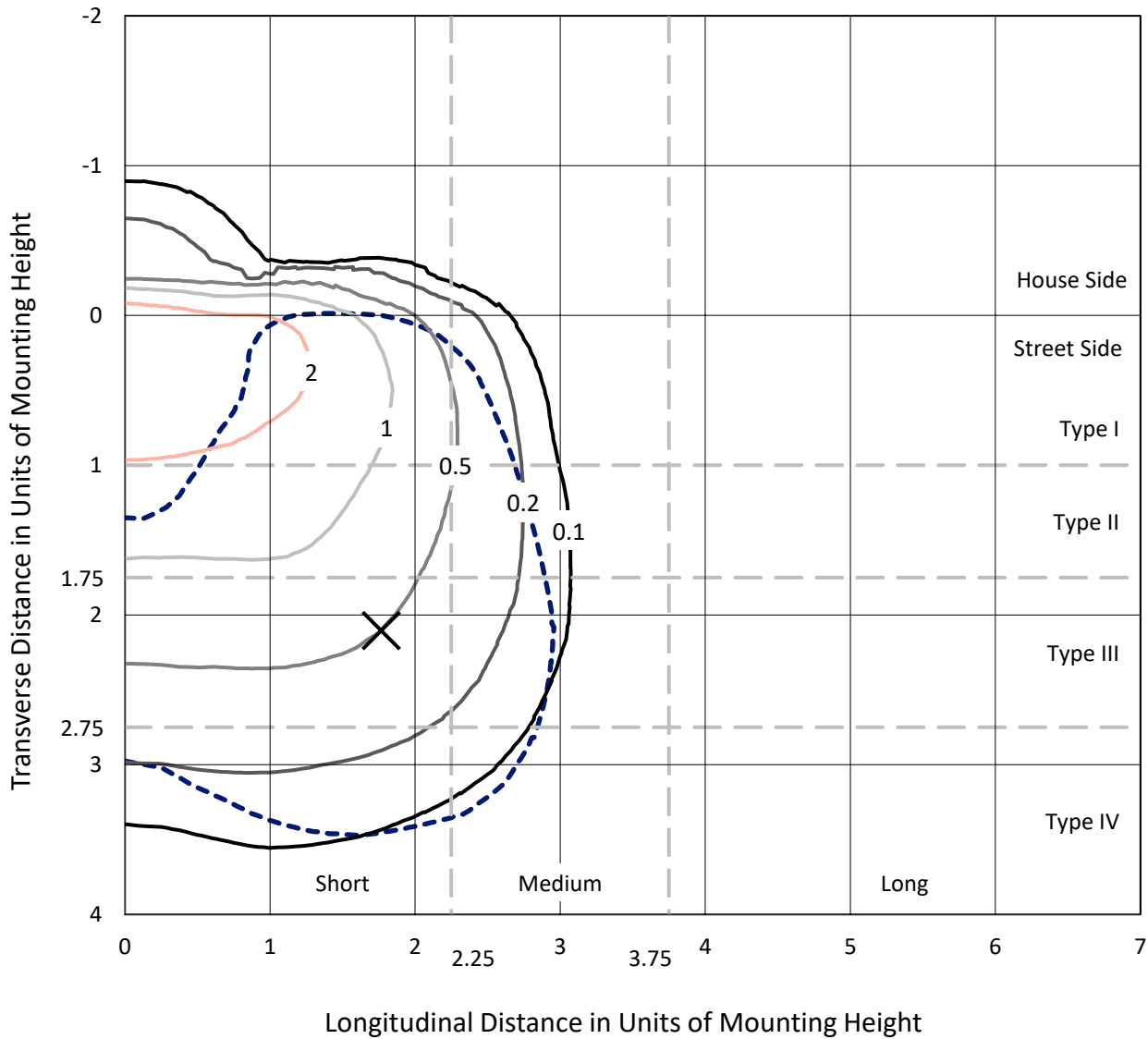
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

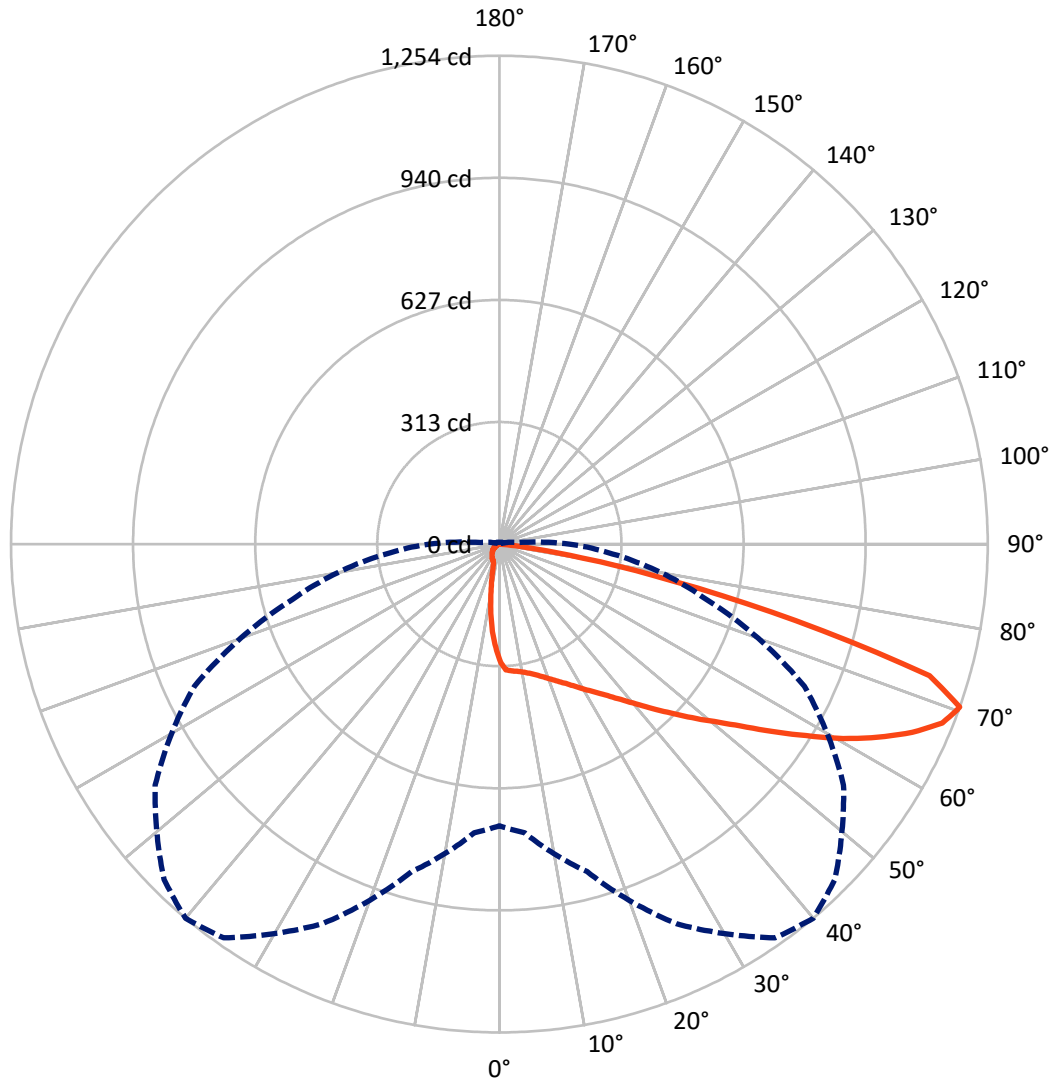
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	145.5	0.0	145.5
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	1634.3	0.0	1634.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	1779.9	0.0	1779.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	1.4
10°-20°	64.7	3.6
20°-30°	108.4	6.1
30°-40°	170.2	9.6
40°-50°	269.2	15.1
50°-60°	392.7	22.1
60°-70°	486.8	27.4
70°-80°	246.3	13.8
80°-90°	16.1	0.9
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°	1779.9	100.0
0°-180°	1779.9	100.0

Coefficient of Utilization



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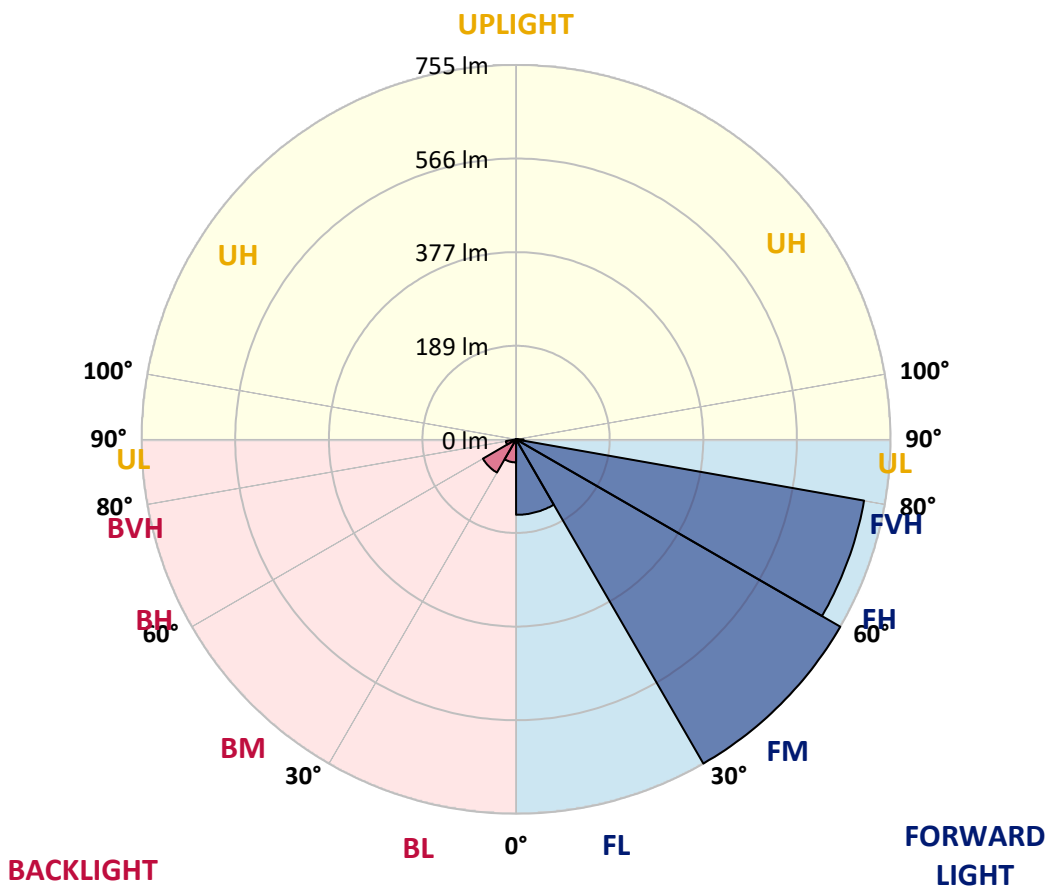
CATALOG NUMBER: GWS-SA1A-830-U-SL4-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.1	8.5			
FM (30°-60°)	754.8	42.4			
FH (60°-80°)	712.3	40.0			G1/1800
FVH (80°-90°)	15.0	0.8			G1/100
BL (0°-30°)	46.5	2.6	B0/110		
BM (30°-60°)	77.3	4.3	B0/220		
BH (60°-80°)	20.8	1.2	B0/110		G0/110
BVH (80°-90°)	1.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0
2.5°	324.7	325.8	325.7	326.2	325.0	323.2	322.9	320.5	316.1	310.6	304.5
5°	331.3	332.6	331.7	331.2	329.1	327.1	326.6	324.1	319.0	311.6	300.9
7.5°	337.0	337.3	336.7	335.6	332.5	329.9	328.1	324.5	318.5	311.1	298.8
10°	338.0	337.8	338.1	338.3	336.4	334.1	332.6	327.8	320.2	312.2	299.0
12.5°	336.8	336.8	339.0	341.4	341.4	340.2	338.8	334.4	325.5	316.1	302.2
15°	338.3	338.8	342.8	347.4	348.8	347.7	347.0	342.5	333.3	322.9	308.0
17.5°	343.5	344.0	350.4	357.3	359.0	357.7	356.4	351.9	342.0	330.7	314.7
20°	351.1	352.4	360.7	369.4	371.0	369.4	366.8	360.5	350.6	339.1	321.0
22.5°	365.0	365.8	374.7	384.0	384.8	382.2	378.3	369.6	359.2	348.0	328.1
25°	383.5	384.6	393.5	402.4	400.3	396.4	391.1	381.2	369.4	358.5	337.2
27.5°	405.5	406.8	415.6	423.3	417.8	413.3	407.3	395.0	383.0	373.1	348.8
30°	429.3	430.5	438.2	445.2	437.9	432.6	425.4	412.8	400.7	393.2	365.3
32.5°	452.3	452.2	459.6	465.3	457.8	453.6	447.1	434.3	424.6	421.4	390.0
35°	473.7	473.7	479.8	485.5	480.2	477.9	471.9	461.7	456.2	460.1	422.8
37.5°	495.2	494.1	499.9	506.2	505.8	505.9	502.5	497.7	498.0	511.7	468.0
40°	513.0	512.6	519.4	527.6	534.1	539.3	537.2	539.0	549.2	574.9	525.8
42.5°	527.3	528.4	537.2	550.3	566.6	577.2	578.6	585.9	612.2	652.0	591.1
45°	543.6	543.8	556.0	576.0	602.1	618.8	624.6	643.4	680.7	732.0	662.7
47.5°	563.7	561.8	575.4	603.6	641.3	665.9	676.3	699.8	757.4	810.0	721.0
50°	585.9	582.4	597.7	636.1	685.2	716.0	737.0	771.3	833.5	874.2	764.4
52.5°	611.7	608.3	625.8	673.5	737.8	775.2	802.3	836.9	898.8	923.1	790.3
55°	644.4	641.0	659.4	718.4	800.0	848.6	876.9	906.1	959.5	959.2	809.1
57.5°	680.7	676.0	701.5	775.1	877.6	928.1	956.9	971.2	1005.7	987.2	821.7
60°	722.3	718.1	753.5	842.6	967.1	1013.9	1032.1	1026.2	1043.6	1003.7	817.3
62.5°	759.8	757.9	802.0	914.2	1052.5	1092.0	1097.0	1071.6	1071.4	1004.1	787.9
65°	798.9	802.6	868.0	996.6	1138.3	1164.9	1156.3	1116.6	1082.6	964.4	700.7
67.5°	813.5	824.3	911.6	1071.1	1206.0	1226.7	1211.7	1139.1	1036.1	830.9	533.6
70°	723.4	743.8	870.5	1075.3	1234.0	1253.8	1217.7	1078.6	863.8	550.5	292.3
72.5°	550.1	573.9	725.4	880.5	1109.8	1154.8	1093.1	878.7	556.8	241.1	98.1
75°	307.9	333.6	540.2	663.0	745.1	786.2	763.6	563.7	246.6	63.0	29.3
77.5°	104.1	112.7	251.3	410.2	491.8	454.9	385.1	280.0	90.7	24.0	15.5
80°	61.7	64.9	93.6	204.2	258.8	214.6	169.4	103.5	46.2	12.8	10.9
82.5°	18.5	21.9	51.7	75.8	101.4	63.2	53.4	59.1	24.0	7.0	9.1
85°	0.0	0.0	11.0	23.5	26.6	10.4	10.4	33.5	4.4	2.9	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	0.5	0.6	1.5
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-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0
2.5°	300.1	294.4	287.8	281.5	275.5	267.7	264.0	259.4	255.5	253.4	254.6
5°	294.1	285.2	271.6	257.8	243.9	230.8	218.9	211.0	203.9	200.2	201.0
7.5°	288.9	276.9	255.7	233.2	210.9	188.3	170.0	155.8	144.8	140.2	139.4
10°	286.6	271.6	241.6	209.2	174.9	144.6	118.7	103.0	91.8	86.3	87.3
12.5°	287.8	268.8	229.6	185.8	141.2	105.9	81.1	66.4	58.5	55.2	54.4
15°	291.0	268.2	218.9	161.8	109.0	74.0	56.0	50.0	48.4	48.1	48.1
17.5°	294.7	268.3	207.9	137.5	82.8	54.9	47.9	46.8	46.3	46.0	46.2
20°	298.5	268.3	195.3	112.9	62.2	47.4	45.7	44.9	44.4	44.2	44.2
22.5°	303.0	268.3	181.2	90.0	49.9	45.0	43.6	43.1	42.6	42.4	42.3
25°	308.5	268.5	165.7	70.4	45.3	42.9	41.8	41.3	40.8	40.5	40.5
27.5°	316.4	269.8	148.5	54.9	42.8	41.0	40.0	39.5	39.0	38.5	38.5
30°	327.9	273.0	129.2	45.3	40.3	38.9	37.9	37.6	37.1	36.6	36.4
32.5°	345.1	278.7	109.3	40.6	38.1	36.6	35.5	35.1	34.7	34.2	34.0
35°	369.1	289.1	89.9	37.7	35.1	33.7	33.0	32.9	32.2	31.7	31.7
37.5°	404.2	305.9	71.3	34.8	32.7	31.6	30.8	30.4	29.8	29.3	29.2
40°	447.1	327.8	55.4	32.6	30.4	29.3	28.5	28.0	27.2	26.6	26.2
42.5°	501.9	354.5	43.7	30.1	28.3	27.2	26.6	25.6	24.5	23.5	23.3
45°	558.9	382.0	36.1	27.9	26.4	25.4	24.6	23.3	21.7	20.6	20.2
47.5°	602.6	399.2	31.6	25.4	24.3	23.5	22.5	20.9	18.9	17.7	17.3
50°	633.9	401.8	28.2	23.2	22.5	21.7	20.2	18.3	16.2	14.9	14.6
52.5°	649.2	390.1	25.4	21.1	20.6	19.8	18.0	15.9	13.6	12.3	12.0
55°	656.2	368.1	22.8	19.3	18.6	17.7	15.7	13.4	11.2	10.0	9.7
57.5°	653.4	335.6	20.6	17.5	16.7	15.5	13.4	11.0	9.2	8.1	7.9
60°	633.0	289.9	18.3	15.7	14.7	13.4	11.3	9.1	7.4	6.6	6.5
62.5°	589.0	233.2	16.0	13.6	13.0	11.7	9.7	7.4	6.2	5.7	5.5
65°	498.8	164.9	13.8	11.5	11.2	9.9	8.1	6.2	5.3	5.0	4.9
67.5°	358.5	100.2	11.7	9.9	9.6	8.4	6.8	5.3	4.9	4.7	4.7
70°	180.2	47.4	9.2	8.1	8.1	7.0	5.8	4.9	4.7	4.5	4.5
72.5°	61.2	20.2	7.0	6.3	6.6	6.0	5.0	4.5	4.5	4.5	4.5
75°	20.9	10.7	4.9	4.5	4.9	4.9	4.4	4.4	4.5	4.5	4.5
77.5°	13.6	7.1	3.4	3.1	3.7	3.7	3.7	4.0	4.4	4.4	4.4
80°	11.2	3.9	2.3	2.1	2.8	2.8	3.1	3.7	4.0	4.0	4.0
82.5°	9.6	2.4	1.3	1.5	1.9	2.1	2.6	3.1	3.6	3.7	3.7
85°	6.5	1.3	1.0	1.1	1.3	1.6	2.1	2.6	2.9	3.2	3.2
87.5°	1.8	0.5	0.6	0.8	0.8	1.1	1.6	1.9	2.3	2.4	2.4
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)