

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: P629569

Luminaire Tested: GWS-SA1B-830-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629569
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-SA1B-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: 2243.3 lumens
Efficiency: N/A
Efficacy: 89.7 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

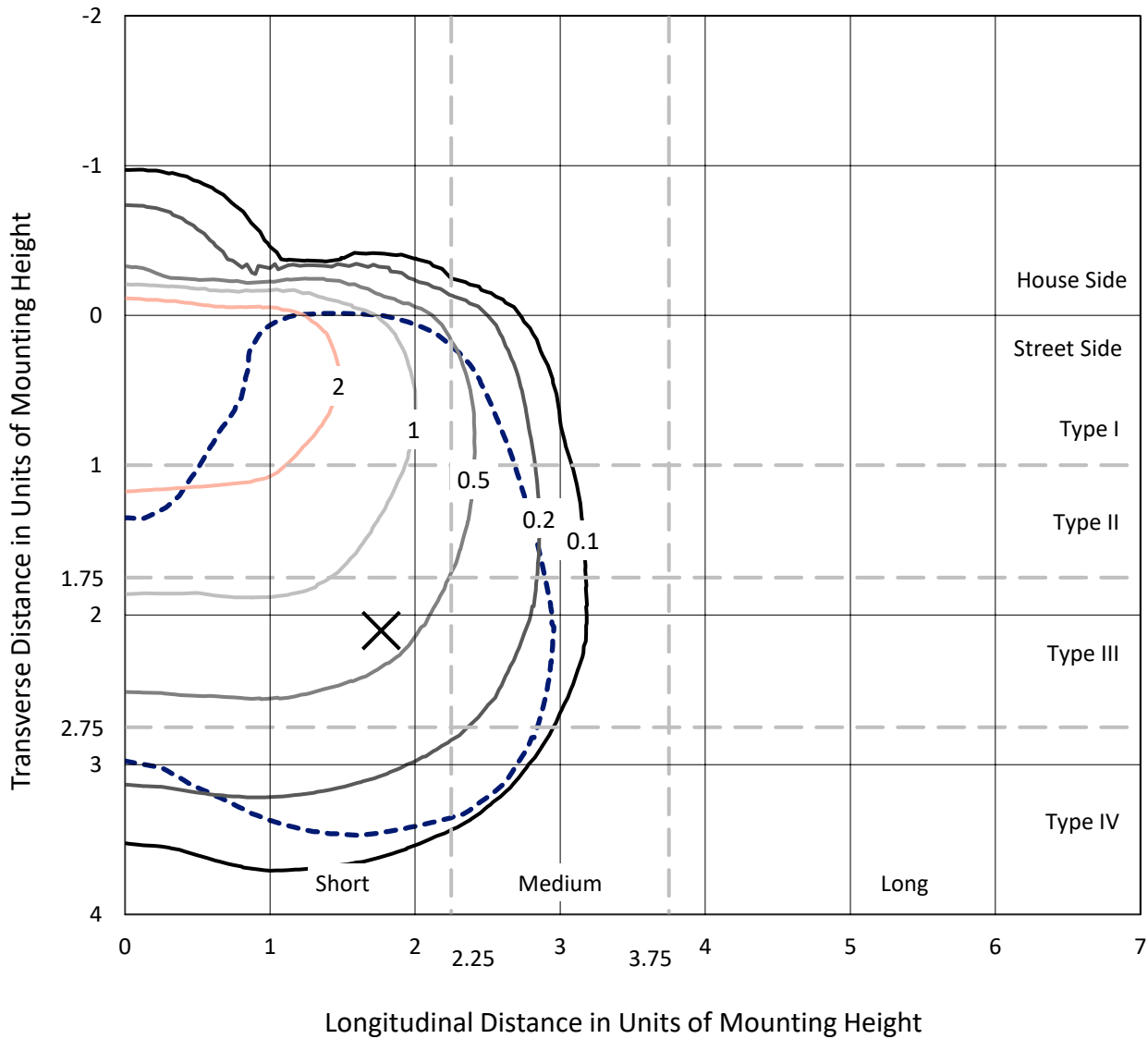
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

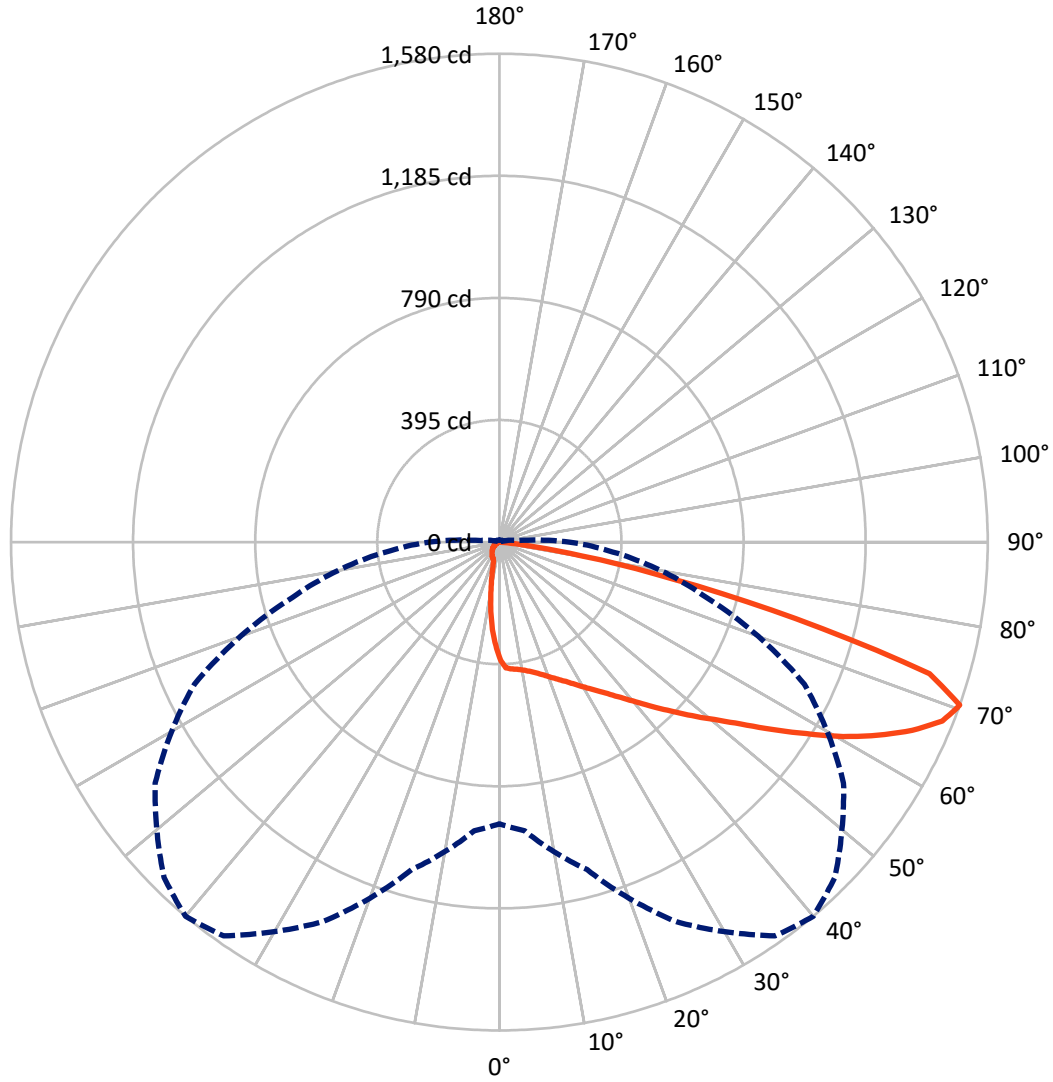
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 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	183.4	0.0	183.4
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	2059.9	0.0	2059.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	2243.3	0.0	2243.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	1.4
10°-20°	81.6	3.6
20°-30°	136.6	6.1
30°-40°	214.5	9.6
40°-50°	339.3	15.1
50°-60°	494.9	22.1
60°-70°	613.5	27.4
70°-80°	310.4	13.8
80°-90°	20.3	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°	2243.3	100.0
0°-180°	2243.3	100.0

Coefficient of Utilization

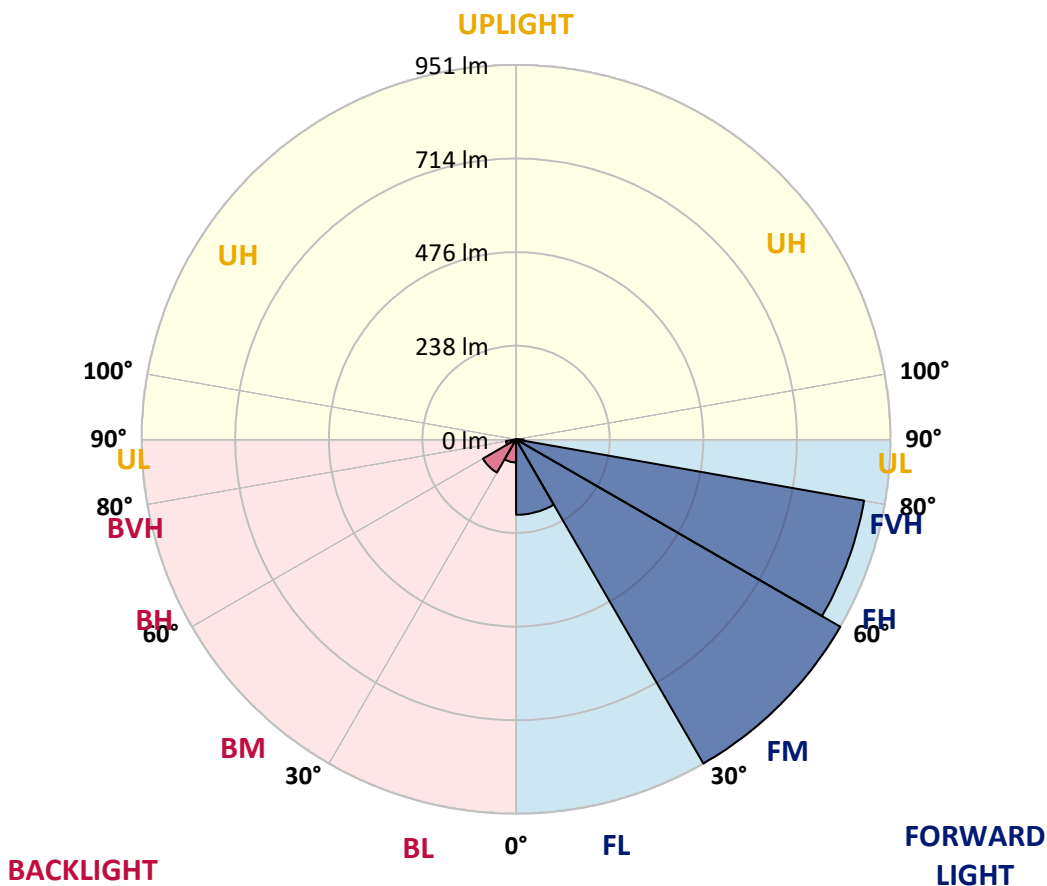


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.8	8.5			
FM (30°-60°)	951.4	42.4			
FH (60°-80°)	897.8	40.0			G1/1800
FVH (80°-90°)	18.9	0.8			G1/100
BL (0°-30°)	58.6	2.6	B0/110		
BM (30°-60°)	97.4	4.3	B0/220		
BH (60°-80°)	26.2	1.2	B0/110		G0/110
BVH (80°-90°)	1.3	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





REPORT NUMBER: P629569

CATALOG NUMBER: GWS-SA1B-830-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7
2.5°	409.2	410.7	410.5	411.1	409.6	407.4	407.0	403.9	398.4	391.5	383.7
5°	417.6	419.2	418.0	417.4	414.7	412.3	411.7	408.4	402.1	392.7	379.2
7.5°	424.7	425.2	424.3	422.9	419.0	415.8	413.5	409.0	401.5	392.1	376.6
10°	426.0	425.8	426.2	426.4	423.9	421.1	419.2	413.1	403.5	393.5	376.8
12.5°	424.5	424.5	427.2	430.3	430.3	428.8	427.0	421.5	410.3	398.4	380.9
15°	426.4	427.0	432.1	437.8	439.6	438.2	437.4	431.7	420.1	407.0	388.2
17.5°	432.9	433.5	441.7	450.3	452.5	450.9	449.2	443.5	431.1	416.8	396.6
20°	442.5	444.1	454.5	465.6	467.6	465.6	462.3	454.3	441.9	427.4	404.5
22.5°	460.1	461.1	472.3	483.9	485.0	481.7	476.8	465.8	452.7	438.6	413.5
25°	483.3	484.8	496.0	507.2	504.6	499.7	492.9	480.5	465.6	451.9	425.0
27.5°	511.1	512.7	523.7	533.5	526.6	520.9	513.3	497.8	482.7	470.3	439.6
30°	541.1	542.5	552.3	561.1	551.9	545.2	536.2	520.3	505.0	495.6	460.5
32.5°	570.1	569.9	579.3	586.4	577.0	571.7	563.5	547.4	535.2	531.1	491.5
35°	597.0	597.0	604.8	611.9	605.2	602.3	594.8	581.9	575.0	579.9	532.9
37.5°	624.2	622.7	630.1	638.0	637.4	637.6	633.3	627.2	627.6	645.0	589.9
40°	646.6	646.0	654.6	665.0	673.1	679.7	677.0	679.3	692.1	724.6	662.7
42.5°	664.6	666.0	677.0	693.6	714.2	727.4	729.3	738.5	771.5	821.7	745.0
45°	685.2	685.4	700.7	726.0	758.9	779.9	787.2	810.9	857.9	922.6	835.2
47.5°	710.5	708.1	725.2	760.7	808.3	839.3	852.4	881.9	954.6	1020.9	908.7
50°	738.5	734.0	753.4	801.7	863.6	902.4	928.9	972.2	1050.5	1101.8	963.4
52.5°	770.9	766.6	788.7	848.9	929.9	977.1	1011.2	1054.8	1132.8	1163.4	996.0
55°	812.1	807.9	831.1	905.4	1008.3	1069.5	1105.2	1142.0	1209.3	1208.9	1019.7
57.5°	857.9	851.9	884.2	976.9	1106.1	1169.7	1206.1	1224.0	1267.5	1244.2	1035.6
60°	910.3	905.0	949.7	1062.0	1218.9	1277.9	1300.8	1293.4	1315.3	1265.1	1030.1
62.5°	957.7	955.2	1010.7	1152.2	1326.5	1376.3	1382.6	1350.6	1350.4	1265.5	993.0
65°	1006.9	1011.6	1094.0	1256.1	1434.7	1468.1	1457.3	1407.3	1364.5	1215.5	883.2
67.5°	1025.2	1038.9	1148.9	1350.0	1520.0	1546.1	1527.1	1435.7	1305.9	1047.3	672.5
70°	911.7	937.5	1097.1	1355.3	1555.3	1580.2	1534.7	1359.4	1088.7	693.8	368.4
72.5°	693.4	723.4	914.2	1109.7	1398.8	1455.5	1377.7	1107.5	701.7	303.9	123.7
75°	388.0	420.5	680.9	835.6	939.1	990.9	962.4	710.5	310.9	79.4	36.9
77.5°	131.2	142.1	316.8	517.0	619.9	573.3	485.4	352.9	114.3	30.2	19.6
80°	77.8	81.8	118.0	257.4	326.2	270.4	213.5	130.4	58.2	16.1	13.7
82.5°	23.3	27.6	65.1	95.5	127.8	79.6	67.4	74.5	30.2	8.8	11.4
85°	0.0	0.0	13.9	29.6	33.5	13.1	13.1	42.3	5.5	3.7	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	0.6	0.8	1.8
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-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7	380.7
2.5°	378.2	371.1	362.7	354.7	347.2	337.4	332.7	327.0	322.1	319.4	320.9
5°	370.7	359.4	342.3	324.9	307.4	290.9	276.0	266.0	257.0	252.3	253.3
7.5°	364.1	349.0	322.3	293.9	265.7	237.4	214.3	196.4	182.5	176.8	175.7
10°	361.3	342.3	304.5	263.7	220.4	182.3	149.6	129.8	115.7	108.8	110.0
12.5°	362.7	338.8	289.4	234.1	178.0	133.5	102.3	83.7	73.7	69.6	68.6
15°	366.8	338.0	276.0	203.9	137.4	93.3	70.6	63.1	61.0	60.6	60.6
17.5°	371.5	338.2	262.1	173.3	104.3	69.2	60.4	59.0	58.4	58.0	58.2
20°	376.2	338.2	246.2	142.3	78.4	59.8	57.6	56.5	55.9	55.7	55.7
22.5°	381.9	338.2	228.4	113.5	62.9	56.7	54.9	54.3	53.7	53.5	53.3
25°	388.8	338.4	208.8	88.8	57.2	54.1	52.7	52.0	51.4	51.0	51.0
27.5°	398.8	340.0	187.2	69.2	53.9	51.6	50.4	49.8	49.2	48.6	48.6
30°	413.3	344.1	162.9	57.2	50.8	49.0	47.8	47.4	46.7	46.1	45.9
32.5°	435.0	351.3	137.8	51.2	48.0	46.1	44.7	44.3	43.7	43.1	42.9
35°	465.2	364.3	113.3	47.6	44.3	42.5	41.6	41.4	40.6	40.0	40.0
37.5°	509.5	385.6	89.8	43.9	41.2	39.8	38.8	38.4	37.6	36.9	36.7
40°	563.5	413.1	69.8	41.0	38.4	36.9	35.9	35.3	34.3	33.5	33.1
42.5°	632.5	446.8	55.1	38.0	35.7	34.3	33.5	32.2	30.8	29.6	29.4
45°	704.4	481.5	45.5	35.1	33.3	32.0	31.0	29.4	27.4	25.9	25.5
47.5°	759.5	503.1	39.8	32.0	30.6	29.6	28.4	26.3	23.9	22.2	21.8
50°	798.9	506.4	35.5	29.2	28.4	27.4	25.5	23.1	20.4	18.8	18.4
52.5°	818.3	491.7	32.0	26.5	25.9	24.9	22.7	20.0	17.1	15.5	15.1
55°	827.0	463.9	28.8	24.3	23.5	22.2	19.8	16.9	14.1	12.7	12.2
57.5°	823.6	422.9	25.9	22.0	21.0	19.6	16.9	13.9	11.6	10.2	10.0
60°	797.9	365.4	23.1	19.8	18.6	16.9	14.3	11.4	9.4	8.4	8.2
62.5°	742.3	293.9	20.2	17.1	16.3	14.7	12.2	9.4	7.8	7.1	6.9
65°	628.7	207.8	17.3	14.5	14.1	12.5	10.2	7.8	6.7	6.3	6.1
67.5°	451.9	126.3	14.7	12.5	12.0	10.6	8.6	6.7	6.1	5.9	5.9
70°	227.2	59.8	11.6	10.2	10.2	8.8	7.3	6.1	5.9	5.7	5.7
72.5°	77.2	25.5	8.8	8.0	8.4	7.6	6.3	5.7	5.7	5.7	5.7
75°	26.3	13.5	6.1	5.7	6.1	6.1	5.5	5.5	5.7	5.7	5.7
77.5°	17.1	9.0	4.3	3.9	4.7	4.7	4.7	5.1	5.5	5.5	5.5
80°	14.1	4.9	2.9	2.7	3.5	3.5	3.9	4.7	5.1	5.1	5.1
82.5°	12.0	3.1	1.6	1.8	2.4	2.7	3.3	3.9	4.5	4.7	4.7
85°	8.2	1.6	1.2	1.4	1.6	2.0	2.7	3.3	3.7	4.1	4.1
87.5°	2.2	0.6	0.8	1.0	1.0	1.4	2.0	2.4	2.9	3.1	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

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

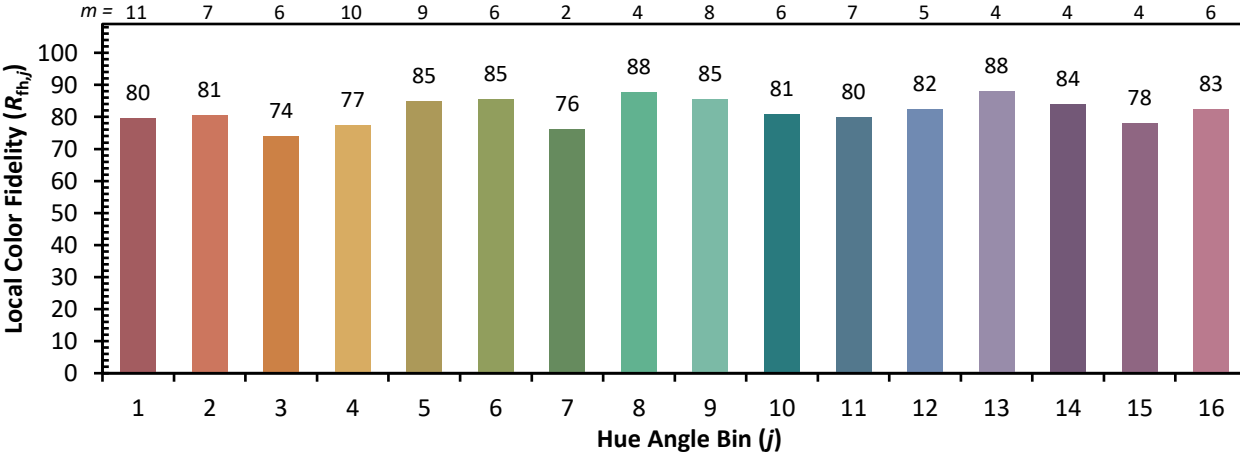


Individual Sample Fidelity Index ($R_{f,i}$)

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)