

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: P629591

Luminaire Tested: GWS-SA1B-830-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-830-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2849 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

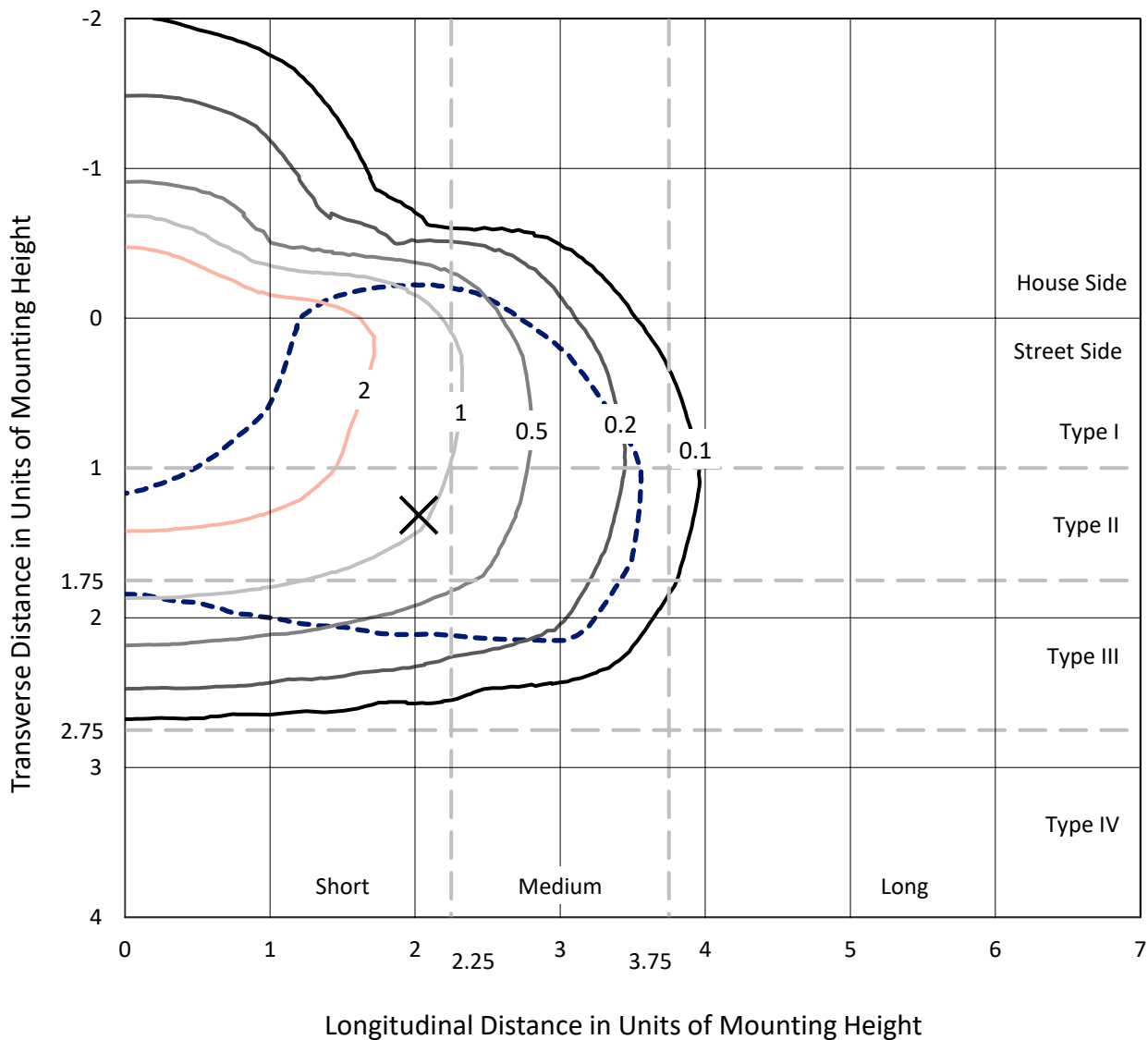
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

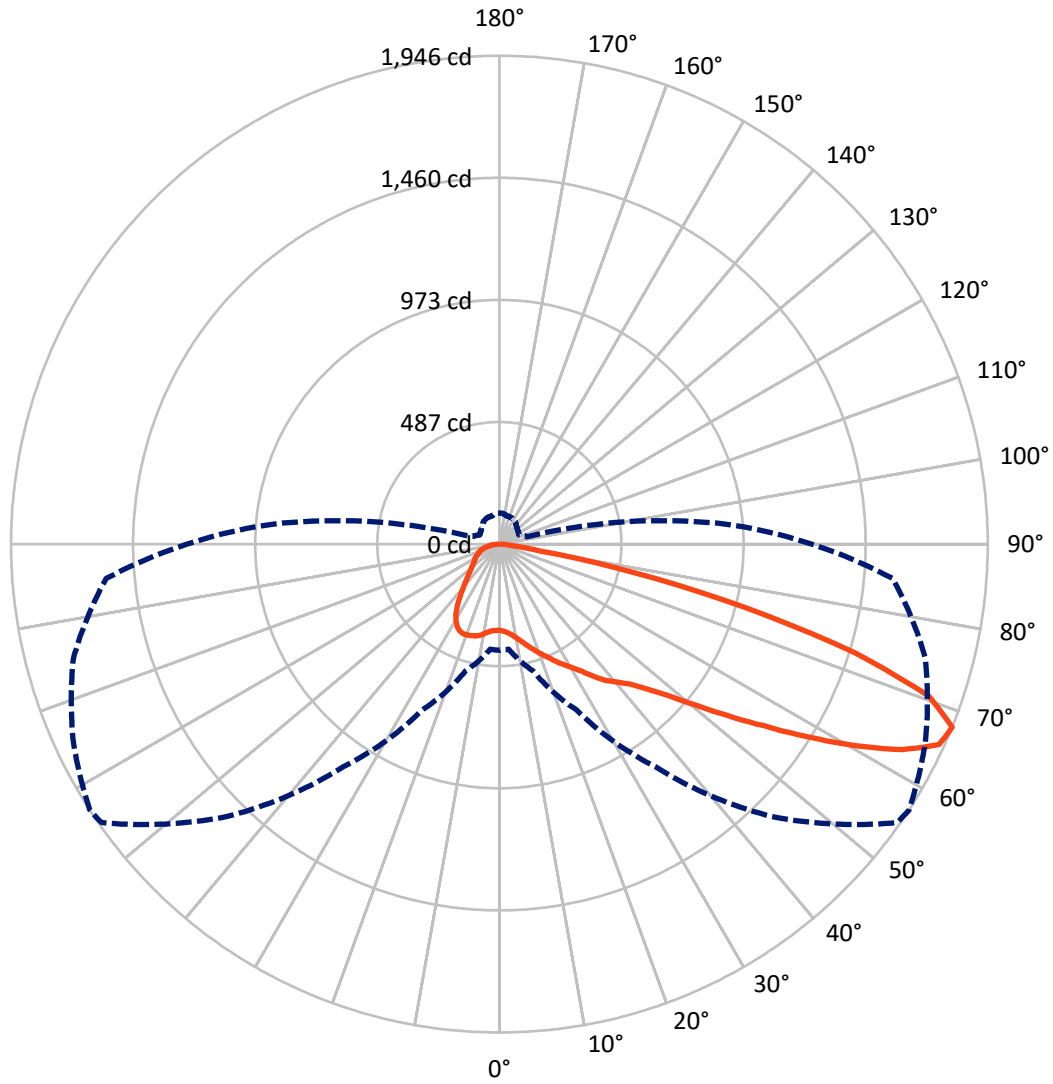
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	626.4	0.0	626.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	2222.6	0.0	2222.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	2849.0	0.0	2849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.2
10°-20°	112.7	4.0
20°-30°	200.9	7.1
30°-40°	292.1	10.3
40°-50°	422.8	14.8
50°-60°	661.7	23.2
60°-70°	771.9	27.1
70°-80°	322.2	11.3
80°-90°	30.4	1.1
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°	2849.0	100.0
0°-180°	2849.0	100.0

Coefficient of Utilization



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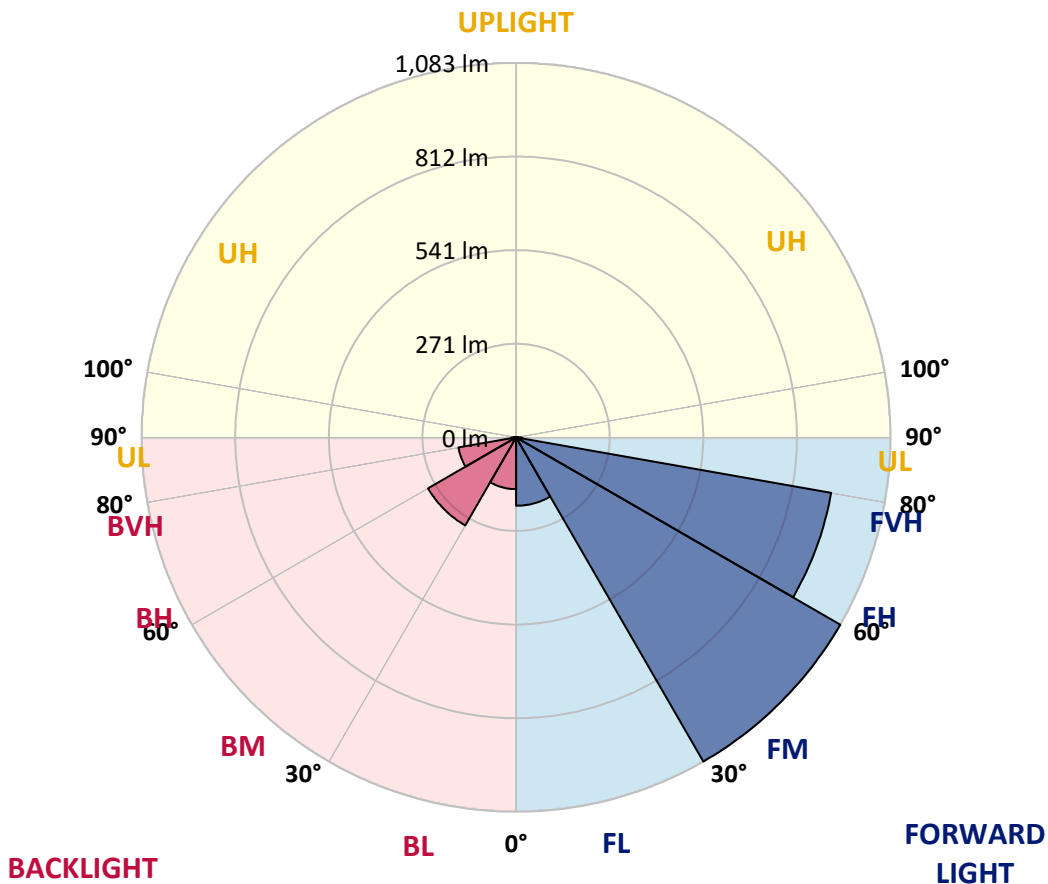
CATALOG NUMBER: GWS-SA1B-830-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.9	6.9			
FM (30°-60°)	1082.7	38.0			
FH (60°-80°)	925.1	32.5			G1/1800
FVH (80°-90°)	16.9	0.6			G1/100
BL (0°-30°)	149.8	5.3	B1/500		
BM (30°-60°)	294.0	10.3	B1/1000		
BH (60°-80°)	169.1	5.9	B1/500		G1/500
BVH (80°-90°)	13.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	343.3	343.3	343.3	343.3	343.3	343.3	343.3	343.3	343.3	343.3	343.3
2.5°	348.2	347.8	347.6	348.8	348.4	348.2	348.2	348.0	347.6	345.9	343.7
5°	357.8	357.0	356.1	357.2	356.3	355.5	355.3	354.9	353.5	351.0	347.6
7.5°	367.8	367.0	367.2	367.8	367.2	366.8	366.1	365.7	363.5	359.6	354.9
10°	381.9	381.9	382.3	382.9	383.1	382.5	381.2	380.6	378.0	373.1	366.6
12.5°	402.3	401.9	401.9	401.5	402.1	401.5	400.2	399.2	395.9	389.6	380.2
15°	429.2	427.6	426.1	423.5	422.7	420.4	420.8	420.2	417.2	408.6	396.8
17.5°	458.0	457.8	455.5	450.2	444.9	441.2	442.1	441.9	440.2	428.6	413.5
20°	483.3	484.3	482.3	478.2	471.0	464.1	463.7	464.7	462.7	451.0	430.0
22.5°	511.7	510.8	508.8	503.5	498.2	490.8	488.4	487.6	486.8	473.5	447.0
25°	538.6	541.1	538.4	533.5	525.3	517.4	515.3	516.2	513.9	496.4	465.1
27.5°	572.7	573.7	572.1	565.3	558.4	547.2	543.3	543.3	542.5	517.8	479.4
30°	609.0	611.9	609.0	603.5	596.4	580.2	571.9	571.1	568.6	539.8	496.2
32.5°	645.5	647.6	645.5	640.2	632.1	618.0	606.0	604.1	600.9	563.9	513.3
35°	678.0	679.8	679.4	680.7	673.9	656.2	648.8	648.0	639.4	595.3	536.6
37.5°	713.5	715.8	712.7	715.1	712.5	695.8	693.5	689.4	677.2	624.9	561.1
40°	753.9	756.0	751.1	752.1	749.0	739.6	728.2	722.7	704.5	657.0	599.6
42.5°	797.2	801.9	804.1	802.3	795.1	789.8	769.8	762.9	747.8	714.7	663.1
45°	859.8	866.8	870.1	865.4	862.3	854.7	830.3	821.9	813.9	796.2	751.7
47.5°	927.4	933.7	944.1	946.2	948.6	942.9	908.4	900.3	901.7	899.6	860.7
50°	981.3	986.6	1010.1	1035.2	1056.0	1057.6	1013.5	1004.8	1012.5	1019.0	991.9
52.5°	1020.5	1025.2	1056.2	1108.0	1155.2	1190.1	1142.5	1132.5	1138.8	1153.5	1141.1
55°	1052.3	1058.8	1091.3	1170.9	1266.2	1321.3	1290.9	1278.2	1275.6	1293.7	1300.9
57.5°	1069.0	1071.1	1116.6	1220.1	1347.6	1450.1	1463.3	1449.1	1423.8	1433.8	1470.9
60°	1030.9	1034.3	1096.6	1232.7	1411.9	1577.8	1644.4	1632.5	1578.7	1584.2	1625.2
62.5°	925.4	930.3	1005.2	1172.5	1417.2	1663.2	1811.5	1804.0	1731.7	1701.9	1714.2
65°	742.3	743.9	821.5	1023.5	1311.7	1673.8	1928.1	1926.2	1838.7	1768.9	1716.4
67.5°	423.3	420.4	524.1	730.0	1082.5	1535.8	1935.6	1946.4	1873.4	1757.9	1573.6
70°	183.5	183.9	231.6	360.2	700.7	1241.3	1797.9	1816.4	1773.0	1574.4	1251.9
72.5°	84.9	86.1	106.7	155.9	299.2	770.0	1466.0	1482.7	1445.4	1260.1	910.9
75°	60.0	61.0	71.2	89.4	137.6	300.0	980.7	1015.8	1033.9	942.5	600.2
77.5°	45.5	46.9	52.0	62.0	84.9	106.3	469.2	552.9	658.6	586.4	309.2
80°	29.0	29.0	34.5	41.4	51.8	55.3	135.5	160.6	322.3	241.6	121.4
82.5°	19.6	20.2	23.5	26.3	29.8	31.4	58.2	62.0	93.1	82.2	50.0
85°	10.4	10.8	12.2	12.0	14.3	12.4	24.5	24.3	34.1	37.3	19.0
87.5°	0.0	0.0	0.2	0.2	0.4	0.6	2.7	2.9	7.1	11.4	6.3
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-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	343.3	343.3	343.3	343.3	343.3	343.3	343.3	343.3	343.3	343.3	343.3
2.5°	344.9	342.5	343.7	343.3	344.5	344.5	342.3	341.7	341.9	339.4	338.6
5°	348.0	345.1	345.7	344.9	346.1	347.2	346.1	346.1	347.4	345.5	344.5
7.5°	354.9	351.7	351.7	350.6	352.1	352.9	352.1	353.3	355.5	353.7	352.7
10°	365.9	362.1	362.3	361.0	361.7	361.2	358.0	357.0	357.6	355.9	355.1
12.5°	380.2	374.9	374.9	372.5	371.0	366.8	360.0	357.6	358.0	356.6	355.9
15°	393.9	389.0	388.0	383.1	376.6	368.6	362.5	360.8	361.2	359.8	358.8
17.5°	410.0	403.7	400.0	391.0	379.0	370.8	364.7	360.8	357.6	354.3	353.5
20°	424.9	417.0	410.2	396.3	381.7	370.4	359.0	349.4	341.4	337.2	336.1
22.5°	440.2	430.0	418.2	400.0	381.5	363.1	342.1	327.6	315.7	309.4	310.6
25°	454.7	441.9	425.7	403.5	374.9	346.8	318.2	296.5	283.1	278.2	276.8
27.5°	466.8	450.8	432.7	401.9	361.4	323.3	285.5	261.4	248.4	242.9	241.4
30°	480.2	462.3	442.7	394.3	340.2	290.4	248.6	229.0	219.6	214.3	214.5
32.5°	495.7	477.0	456.8	379.8	313.1	254.9	218.2	204.7	197.2	191.8	191.0
35°	516.6	498.0	466.1	358.0	278.6	222.3	197.4	186.3	176.9	170.0	168.6
37.5°	542.3	529.6	467.2	328.8	241.6	199.8	182.5	170.6	159.2	150.0	149.0
40°	586.4	571.9	458.8	292.3	210.2	185.3	170.0	156.3	143.1	132.9	131.4
42.5°	649.2	619.4	440.8	251.0	186.5	173.9	158.2	140.8	127.4	120.2	119.2
45°	729.2	672.5	413.9	212.3	169.0	162.7	145.7	127.6	120.4	115.3	114.3
47.5°	827.2	734.3	382.9	182.1	155.3	152.5	133.1	123.1	116.7	112.5	111.4
50°	944.3	813.1	357.4	158.4	143.1	140.6	129.0	120.4	115.3	111.8	111.0
52.5°	1078.0	900.7	344.9	141.4	132.5	130.0	127.6	119.8	115.5	112.9	111.8
55°	1216.8	992.9	333.3	128.4	123.5	124.9	127.8	121.8	118.6	115.1	114.1
57.5°	1350.9	1079.5	304.7	118.2	116.9	122.5	128.8	123.9	120.0	116.5	115.3
60°	1443.3	1126.8	256.3	110.0	112.0	119.4	126.1	120.8	115.9	114.5	113.9
62.5°	1468.2	1121.1	199.0	101.6	106.1	112.7	119.2	115.7	110.6	112.9	113.1
65°	1410.1	1059.9	149.4	93.5	98.4	103.9	112.0	110.6	108.8	114.9	115.1
67.5°	1245.4	909.4	113.9	86.3	90.4	97.1	109.8	115.7	116.1	123.9	123.1
70°	942.3	679.4	89.2	79.6	84.3	97.1	116.9	119.6	114.7	121.8	120.2
72.5°	651.5	448.4	75.9	73.7	76.7	92.7	116.7	116.7	111.4	111.4	108.4
75°	404.7	263.7	66.1	66.1	66.1	81.0	113.5	107.6	98.2	93.9	91.4
77.5°	199.8	128.2	55.5	57.6	55.3	67.8	92.7	88.0	82.2	77.8	76.1
80°	85.3	64.1	44.9	47.1	44.5	51.0	73.5	72.5	66.9	61.0	59.2
82.5°	39.2	33.1	35.9	36.9	32.5	38.4	53.7	53.7	50.6	42.5	39.4
85°	16.7	17.6	24.9	24.9	20.4	21.6	28.8	27.3	24.5	20.0	18.4
87.5°	5.7	8.6	12.7	11.0	4.3	1.8	1.0	0.4	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)