

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: P630568

Luminaire Tested: GWS-SA1D-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-830-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 2861.3 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

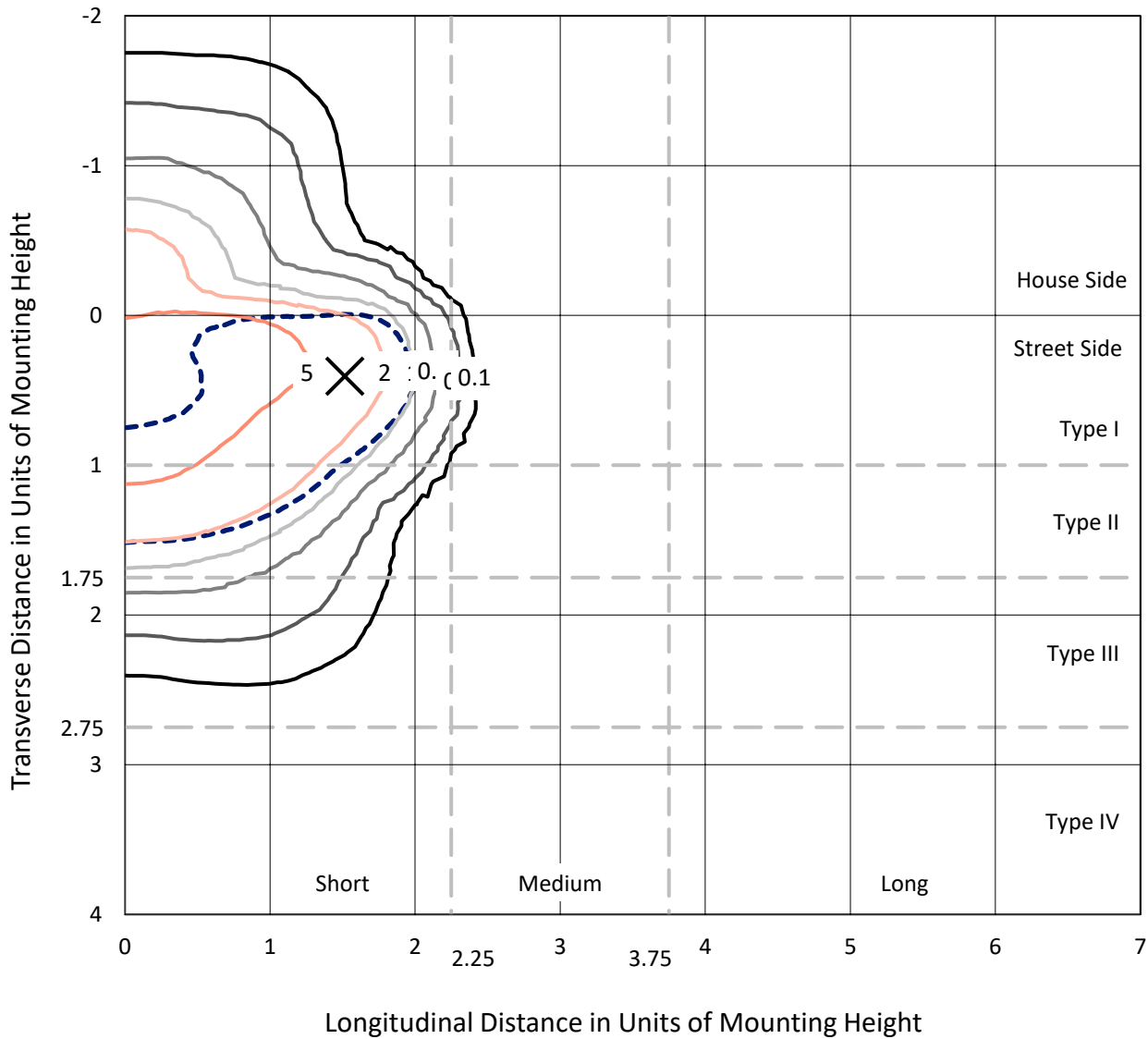
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

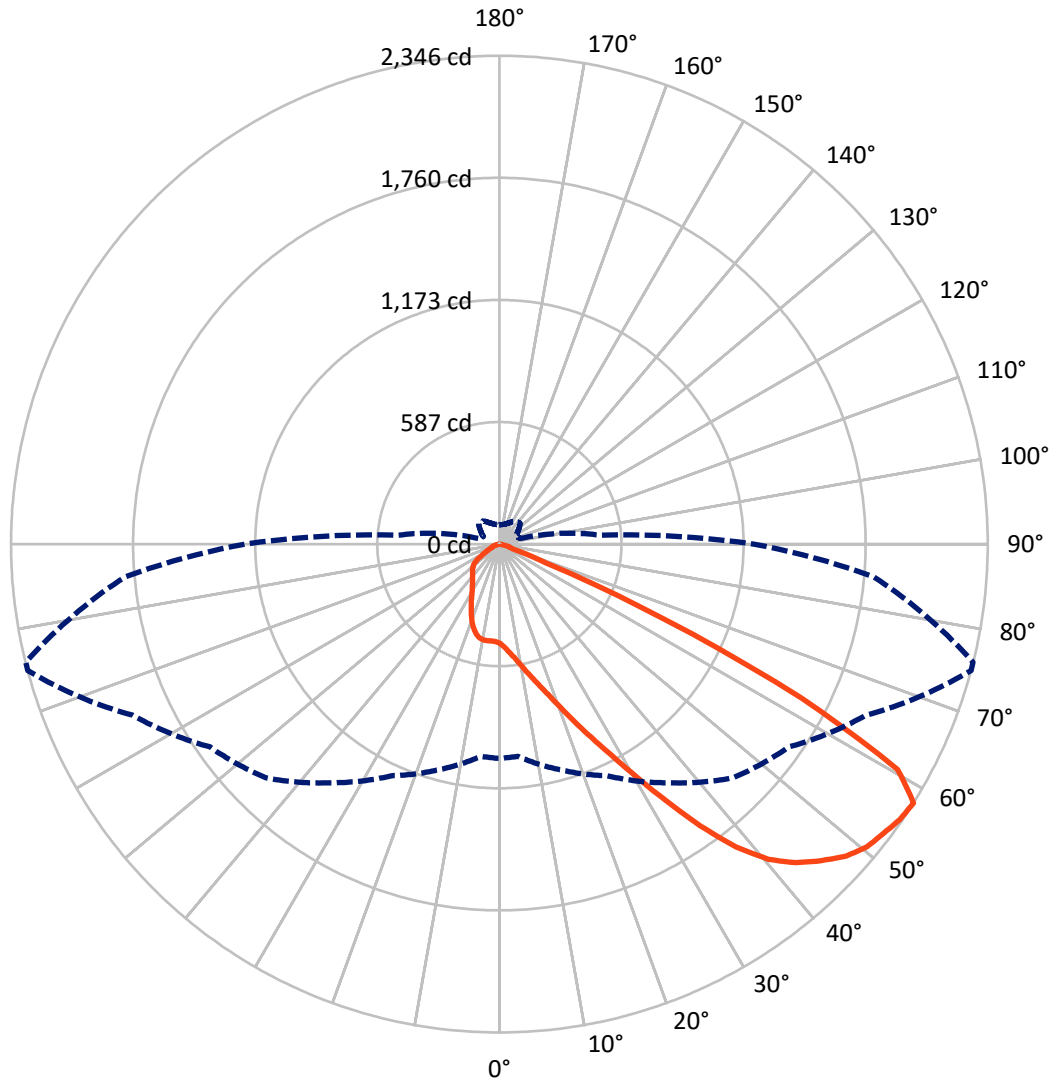
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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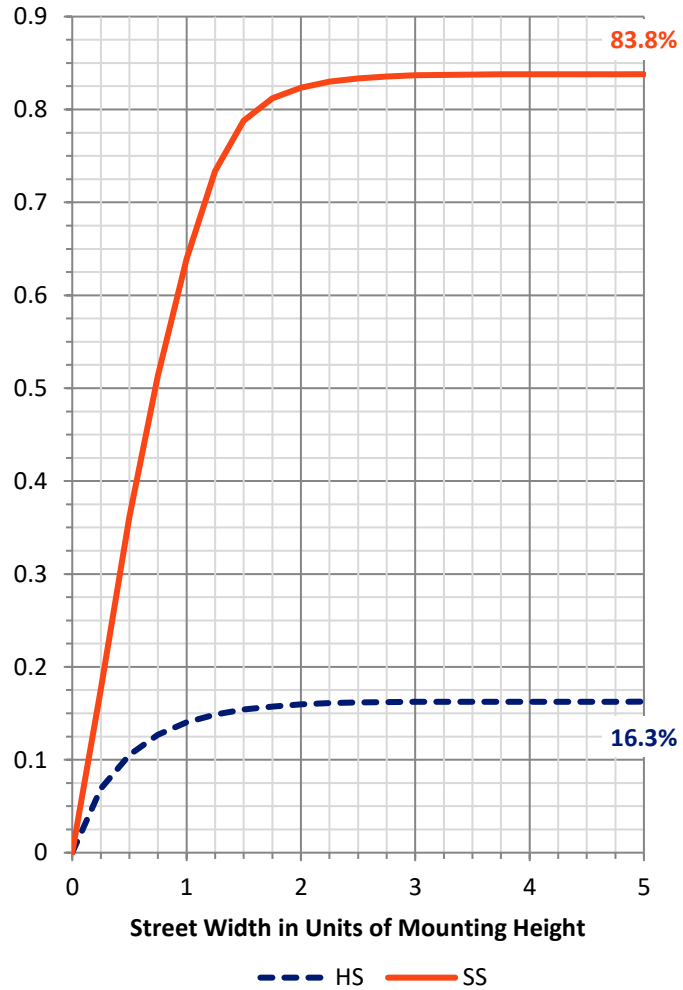
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	467.4	0.0	467.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	2393.9	0.0	2393.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	2861.3	0.0	2861.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	1.7
10°-20°	157.7	5.5
20°-30°	288.9	10.1
30°-40°	479.3	16.8
40°-50°	732.0	25.6
50°-60°	822.5	28.7
60°-70°	303.4	10.6
70°-80°	29.0	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°	2861.3	100.0
0°-180°	2861.3	100.0

Coefficient of Utilization



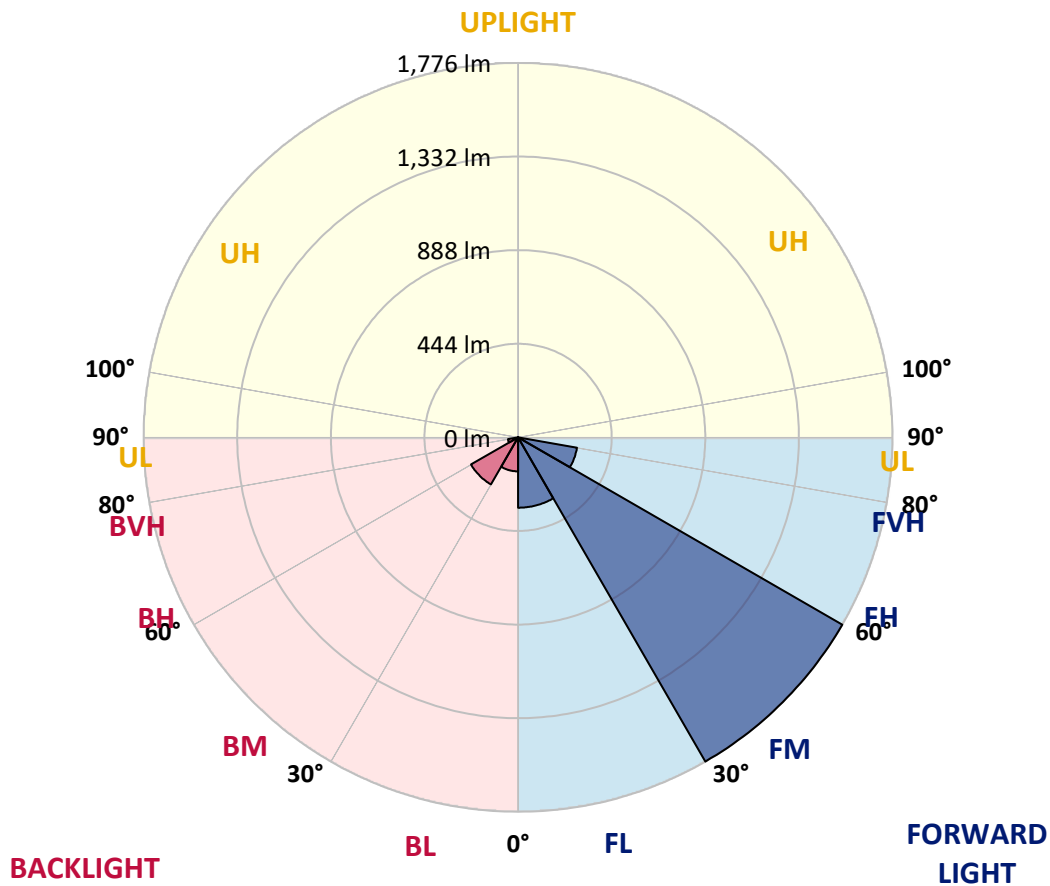
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.9	11.7			
FM (30°-60°)	1776.2	62.1			
FH (60°-80°)	283.8	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	161.3	5.6	B1/500		
BM (30°-60°)	257.6	9.0	B1/1000		
BH (60°-80°)	48.5	1.7	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: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2
2.5°	533.2	538.7	537.0	533.5	531.4	524.2	519.7	506.6	497.3	496.2	487.6
5°	600.5	599.5	598.1	593.9	590.5	579.1	565.6	543.5	523.8	521.4	503.1
7.5°	637.5	638.1	638.8	638.1	635.7	627.1	612.2	586.3	556.3	554.2	525.2
10°	652.6	654.0	657.5	664.0	669.9	669.2	660.6	634.0	597.0	593.6	554.6
12.5°	659.9	661.6	667.1	679.6	695.5	707.9	709.3	685.4	644.7	639.2	589.5
15°	669.9	671.6	678.5	694.8	717.9	742.4	758.3	743.1	697.5	691.7	627.8
17.5°	674.4	676.8	686.8	708.2	738.3	775.9	811.8	810.5	760.0	755.5	672.3
20°	683.0	684.8	693.7	716.9	753.1	807.3	867.8	889.5	836.4	829.8	726.2
22.5°	710.3	711.0	715.1	729.7	763.5	830.1	924.8	981.7	926.5	917.8	786.6
25°	754.9	754.5	756.2	758.7	783.5	853.3	979.7	1085.7	1029.7	1020.4	855.0
27.5°	811.5	811.5	815.6	808.7	818.7	881.9	1033.9	1205.1	1149.9	1136.8	929.9
30°	878.1	877.8	887.5	876.4	879.5	927.2	1092.2	1335.3	1294.9	1278.7	1016.3
32.5°	968.6	966.5	977.6	962.4	952.0	995.5	1163.4	1471.4	1468.6	1443.8	1124.7
35°	1082.9	1079.5	1082.9	1068.1	1049.4	1091.2	1256.6	1607.1	1661.3	1635.1	1253.8
37.5°	1196.5	1207.6	1211.4	1185.8	1170.6	1212.4	1368.8	1728.6	1845.4	1818.1	1388.2
40°	1330.5	1327.0	1340.2	1311.5	1301.8	1348.1	1478.6	1819.1	1991.1	1965.2	1507.6
42.5°	1429.3	1435.5	1451.7	1435.8	1428.2	1471.7	1570.8	1872.0	2092.3	2066.7	1592.9
45°	1547.7	1552.2	1558.4	1545.3	1537.3	1580.2	1637.5	1895.1	2169.3	2141.6	1650.3
47.5°	1675.8	1679.3	1679.3	1652.3	1626.8	1644.4	1682.0	1908.2	2240.1	2213.5	1692.7
50°	1767.7	1769.4	1784.6	1765.6	1710.0	1682.7	1702.4	1921.0	2287.0	2262.2	1706.5
52.5°	1686.2	1684.1	1734.2	1773.5	1788.4	1734.2	1737.6	1939.6	2309.8	2288.4	1717.6
55°	1419.9	1416.5	1486.9	1582.6	1713.5	1782.9	1780.1	1950.7	2335.0	2321.9	1757.7
57.5°	1029.4	1023.5	1121.6	1227.9	1399.6	1587.8	1698.3	1944.5	2346.1	2345.0	1804.3
60°	618.8	614.0	706.5	818.4	951.0	1140.2	1323.6	1741.8	2198.3	2200.3	1683.1
62.5°	380.9	385.4	468.9	525.9	575.3	632.3	738.3	1171.7	1628.5	1642.0	1182.7
65°	256.2	259.7	337.0	408.9	408.9	334.3	287.0	560.1	868.8	846.0	559.4
67.5°	172.0	175.8	236.9	320.8	332.9	233.1	116.4	167.1	242.1	234.8	138.5
70°	101.2	105.3	157.8	220.0	242.4	162.3	77.7	70.8	68.7	66.6	53.9
72.5°	45.2	47.0	80.5	111.9	102.2	68.4	54.9	56.6	53.5	52.5	43.9
75°	13.8	14.5	20.7	24.2	24.5	24.5	33.2	44.5	42.1	42.5	33.8
77.5°	3.5	3.5	5.5	5.2	2.8	2.4	6.2	10.0	10.4	9.3	6.9
80°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
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



REPORT NUMBER: P630568

CATALOG NUMBER: GWS-SA1D-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2
2.5°	483.8	474.8	468.9	460.6	454.8	448.6	443.0	438.5	436.1	435.4	435.8
5°	494.8	480.7	466.9	451.0	439.9	429.6	421.3	414.7	411.6	410.6	410.6
7.5°	511.8	492.1	467.6	442.7	424.0	407.8	398.1	390.9	388.1	387.4	385.4
10°	533.9	506.9	466.5	427.8	401.6	384.7	377.8	375.7	376.7	377.1	376.7
12.5°	560.4	522.5	460.0	406.1	377.8	367.4	368.1	373.6	379.8	383.0	383.6
15°	588.8	536.6	445.1	380.2	357.4	357.1	367.1	379.8	391.9	397.1	398.5
17.5°	620.5	548.0	422.3	352.6	339.8	349.8	367.8	387.4	403.7	412.3	414.0
20°	655.4	557.3	393.3	326.7	324.3	342.2	367.1	391.2	411.3	420.9	422.7
22.5°	691.7	563.9	359.8	302.8	310.1	333.6	360.5	384.0	403.0	414.0	415.4
25°	733.1	564.6	325.6	282.8	297.0	321.8	344.6	364.0	379.8	389.5	390.6
27.5°	769.4	556.3	295.2	266.6	284.9	307.3	322.5	333.2	344.3	349.8	350.1
30°	811.1	541.8	266.6	253.5	272.5	289.4	297.0	299.4	300.4	301.5	300.1
32.5°	860.9	524.2	245.2	240.7	258.3	269.7	271.8	266.9	261.1	252.8	250.7
35°	922.0	508.3	227.6	228.3	242.8	249.7	247.9	237.6	226.2	216.2	214.4
37.5°	988.3	494.8	214.1	216.2	225.8	230.7	225.5	214.1	208.9	200.3	200.6
40°	1047.0	483.8	202.0	204.1	208.6	213.1	204.8	197.2	206.8	206.2	206.8
42.5°	1088.8	474.5	191.6	190.6	193.7	196.8	190.6	186.8	203.0	198.6	201.0
45°	1113.3	465.8	183.0	176.8	181.6	187.2	183.0	178.2	183.7	163.0	161.3
47.5°	1129.9	461.0	175.4	163.3	172.0	181.6	173.0	161.3	153.3	135.4	134.0
50°	1131.6	458.6	166.4	149.5	160.6	170.9	160.9	144.7	133.3	125.3	124.3
52.5°	1140.6	463.4	154.0	131.9	144.0	160.6	153.7	137.4	121.9	115.0	113.6
55°	1180.6	483.8	133.3	107.7	125.3	152.6	147.8	122.6	107.7	103.6	102.6
57.5°	1222.1	487.9	105.0	85.3	109.1	141.2	135.0	112.9	98.4	93.6	92.5
60°	1117.4	401.9	78.7	70.4	96.3	130.5	125.0	107.0	90.1	84.3	83.2
62.5°	734.1	217.2	62.5	59.7	81.1	110.5	114.0	96.7	80.5	74.2	73.9
65°	338.4	100.8	48.0	47.3	63.5	88.1	98.1	84.6	68.0	62.5	62.5
67.5°	92.2	50.1	37.6	34.9	43.2	59.0	71.5	63.2	48.3	41.8	41.4
70°	45.9	40.4	33.8	30.0	31.1	36.6	42.1	35.2	24.5	20.0	19.7
72.5°	37.6	33.2	28.7	25.6	23.5	22.4	21.8	17.6	11.4	8.6	8.3
75°	28.0	23.8	20.4	16.6	14.2	13.1	11.7	8.6	4.8	2.8	2.4
77.5°	6.2	5.9	5.5	4.1	3.8	3.1	2.4	1.7	0.7	0.0	0.0
80°	0.3	0.3	0.3	0.3	0.3	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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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^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/nm	Lumens (ϕ/nm)	λ (nm)	Power W^{\wedge}/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)