

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: P632053

Luminaire Tested: GWS-SA2B-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632053
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-SA2B-830-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3256.5 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

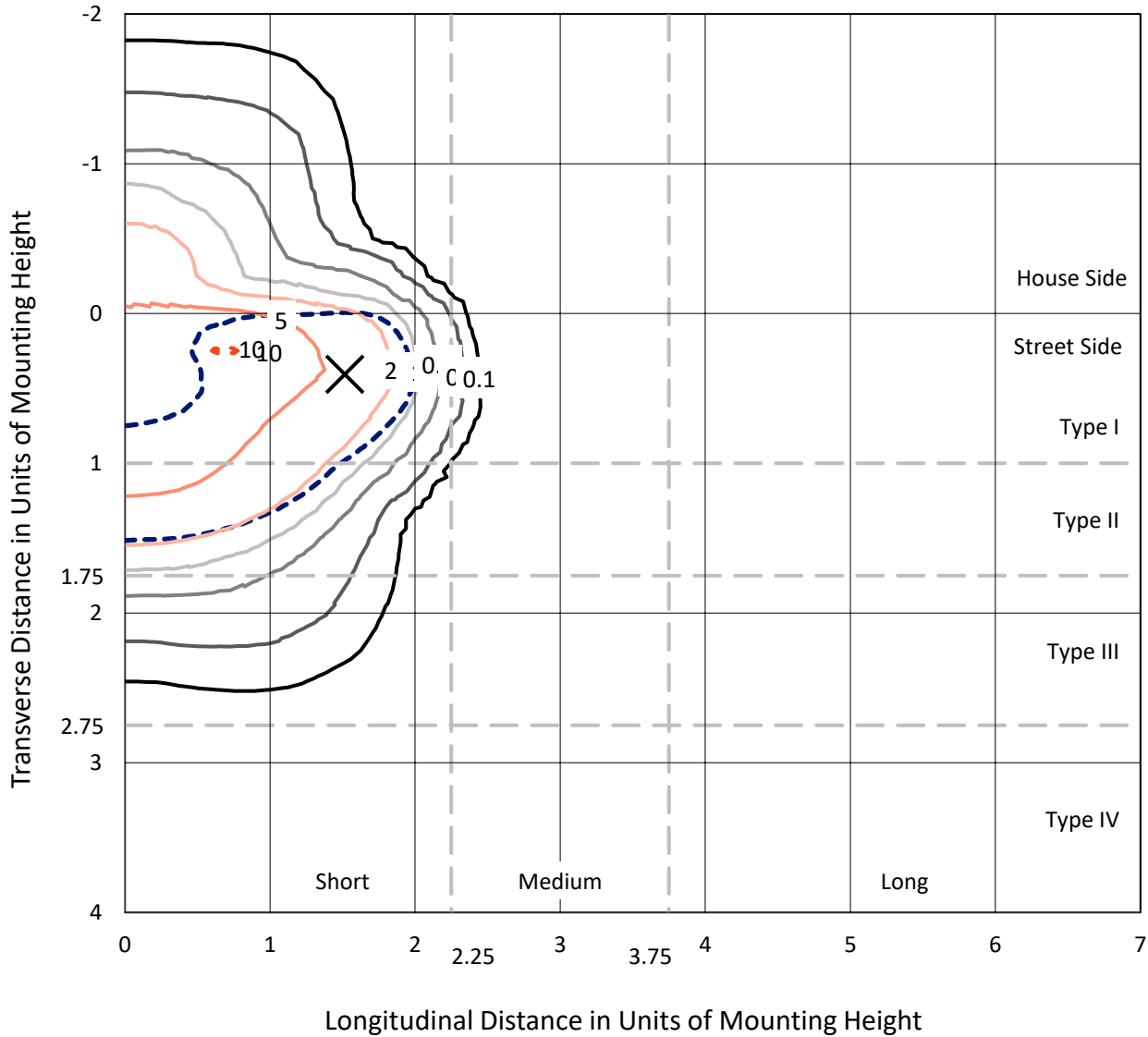
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

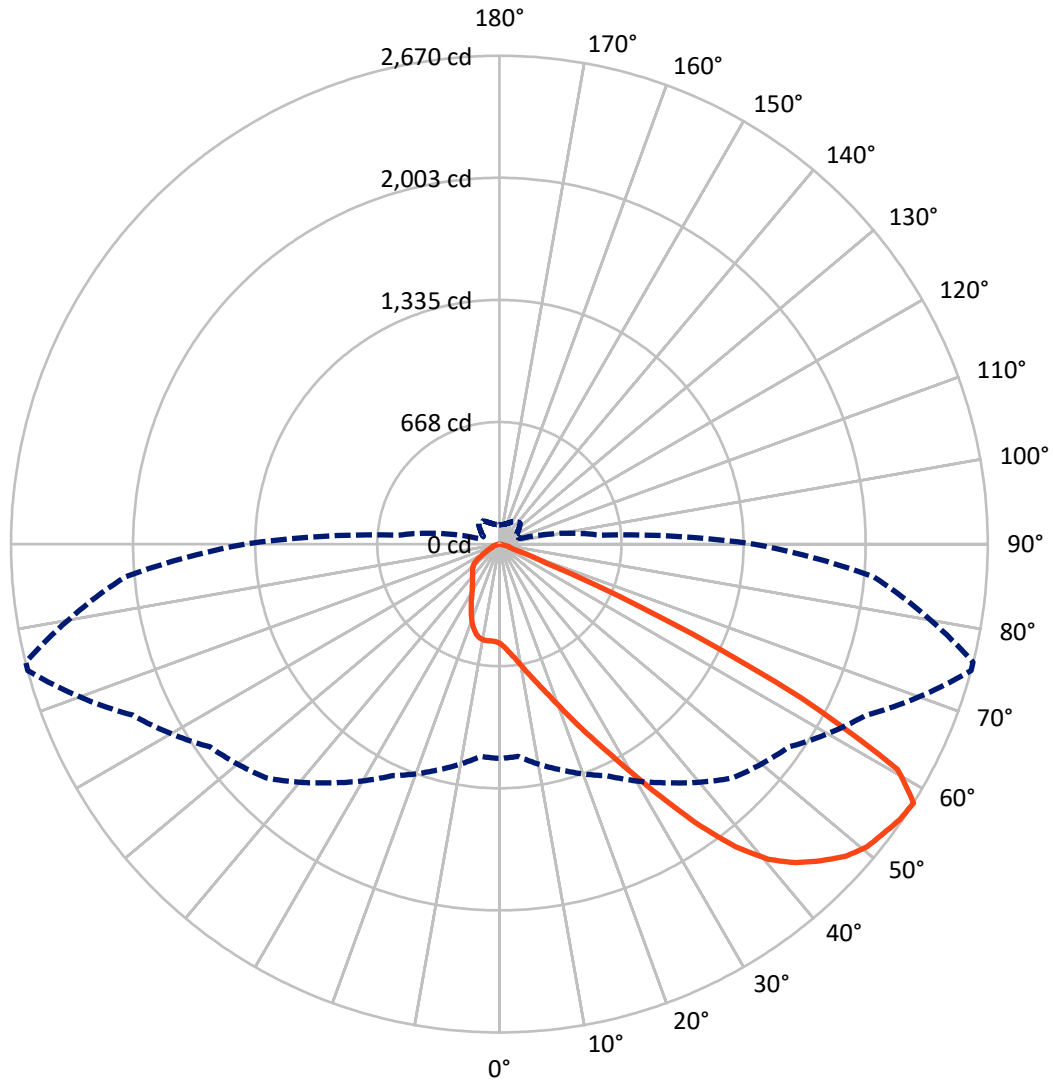
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 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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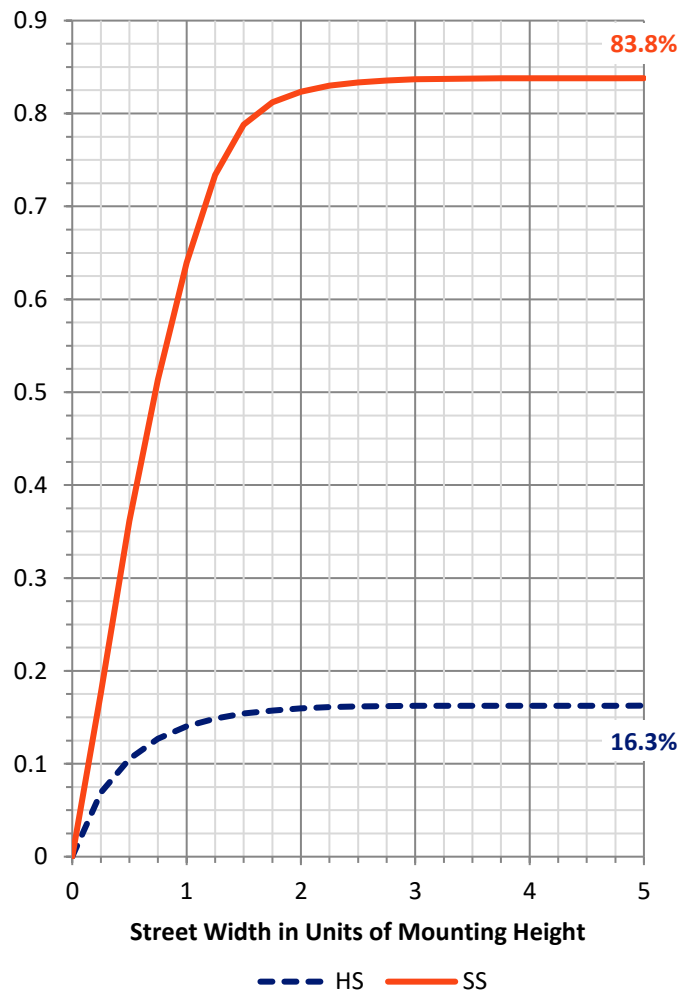
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	531.9	0.0	531.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	2724.6	0.0	2724.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	3256.5	0.0	3256.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.7
10°-20°	179.5	5.5
20°-30°	328.8	10.1
30°-40°	545.5	16.8
40°-50°	833.1	25.6
50°-60°	936.1	28.7
60°-70°	345.3	10.6
70°-80°	33.0	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°	3256.5	100.0
0°-180°	3256.5	100.0

Coefficient of Utilization



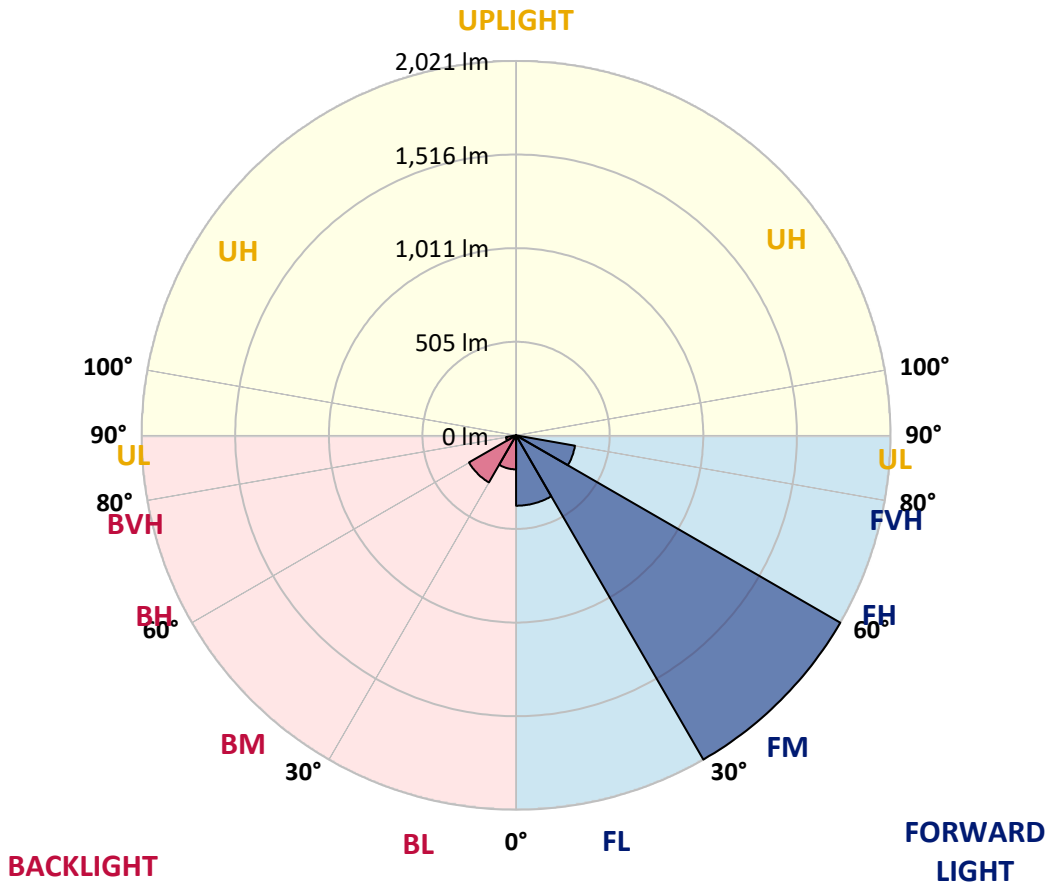
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.0	11.7			
FM (30°-60°)	2021.5	62.1			
FH (60°-80°)	323.0	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	183.6	5.6	B1/500		
BM (30°-60°)	293.1	9.0	B1/1000		
BH (60°-80°)	55.2	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°	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1
2.5°	606.8	613.1	611.1	607.2	604.8	596.6	591.5	576.5	565.9	564.8	554.9
5°	683.4	682.3	680.7	676.0	672.0	659.1	643.7	618.6	596.2	593.4	572.6
7.5°	725.5	726.3	727.1	726.3	723.5	713.7	696.8	667.3	633.1	630.8	597.8
10°	742.8	744.4	748.3	755.8	762.4	761.7	751.8	721.6	679.5	675.6	631.2
12.5°	751.0	753.0	759.3	773.4	791.5	805.7	807.2	780.1	733.7	727.5	670.9
15°	762.4	764.4	772.3	790.7	817.1	845.0	863.0	845.8	793.9	787.2	714.5
17.5°	767.5	770.3	781.7	806.1	840.3	883.1	924.0	922.4	865.0	859.9	765.2
20°	777.4	779.3	789.6	815.9	857.2	918.9	987.6	1012.4	951.9	944.4	826.5
22.5°	808.4	809.2	813.9	830.4	868.9	944.8	1052.5	1117.3	1054.4	1044.6	895.3
25°	859.1	858.7	860.7	863.4	891.7	971.1	1115.0	1235.6	1172.0	1161.3	973.1
27.5°	923.6	923.6	928.3	920.4	931.8	1003.7	1176.7	1371.6	1308.7	1293.8	1058.4
30°	999.4	999.0	1010.0	997.5	1001.0	1055.2	1243.1	1519.8	1473.8	1455.3	1156.6
32.5°	1102.4	1100.0	1112.6	1095.3	1083.5	1133.0	1324.0	1674.6	1671.5	1643.2	1280.0
35°	1232.5	1228.5	1232.5	1215.6	1194.4	1241.9	1430.2	1829.1	1890.8	1860.9	1427.0
37.5°	1361.8	1374.4	1378.7	1349.6	1332.3	1379.9	1557.9	1967.4	2100.2	2069.2	1579.9
40°	1514.3	1510.3	1525.3	1492.6	1481.6	1534.3	1682.9	2070.4	2266.1	2236.6	1715.9
42.5°	1626.7	1633.7	1652.2	1634.1	1625.5	1675.0	1787.8	2130.5	2381.2	2352.2	1813.0
45°	1761.5	1766.6	1773.7	1758.7	1749.7	1798.4	1863.7	2156.8	2468.9	2437.4	1878.2
47.5°	1907.3	1911.2	1911.2	1880.5	1851.5	1871.5	1914.3	2171.8	2549.5	2519.2	1926.5
50°	2011.8	2013.8	2031.1	2009.5	1946.2	1915.1	1937.5	2186.3	2602.9	2574.6	1942.3
52.5°	1919.1	1916.7	1973.7	2018.5	2035.4	1973.7	1977.6	2207.5	2628.8	2604.5	1954.8
55°	1616.1	1612.1	1692.3	1801.2	1950.1	2029.1	2026.0	2220.1	2657.5	2642.6	2000.4
57.5°	1171.6	1164.9	1276.5	1397.5	1592.9	1807.1	1932.8	2213.0	2670.1	2668.9	2053.5
60°	704.3	698.8	804.1	931.4	1082.3	1297.7	1506.4	1982.3	2501.9	2504.3	1915.5
62.5°	433.5	438.6	533.7	598.6	654.8	719.6	840.3	1333.5	1853.4	1868.8	1346.1
65°	291.6	295.5	383.6	465.3	465.3	380.4	326.6	637.5	988.8	962.9	636.7
67.5°	195.7	200.0	269.6	365.1	378.9	265.3	132.4	190.2	275.5	267.2	157.6
70°	115.2	119.9	179.6	250.3	275.9	184.7	88.4	80.6	78.2	75.9	61.3
72.5°	51.5	53.4	91.6	127.3	116.3	77.8	62.5	64.5	60.9	59.7	49.9
75°	15.7	16.5	23.6	27.5	27.9	27.9	37.7	50.7	47.9	48.3	38.5
77.5°	3.9	3.9	6.3	5.9	3.1	2.8	7.1	11.4	11.8	10.6	7.9
80°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
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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CATALOG NUMBER: GWS-SA2B-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1	543.1
2.5°	550.6	540.4	533.7	524.3	517.6	510.5	504.2	499.1	496.4	495.6	496.0
5°	563.2	547.1	531.3	513.3	500.7	488.9	479.5	472.0	468.5	467.3	467.3
7.5°	582.4	560.0	532.1	503.8	482.6	464.1	453.1	444.9	441.7	441.0	438.6
10°	607.6	576.9	531.0	486.9	457.1	437.8	430.0	427.6	428.8	429.2	428.8
12.5°	637.9	594.6	523.5	462.2	430.0	418.2	418.9	425.2	432.3	435.8	436.6
15°	670.1	610.7	506.6	432.7	406.8	406.4	417.8	432.3	446.1	452.0	453.5
17.5°	706.2	623.7	480.7	401.3	386.7	398.1	418.6	441.0	459.4	469.3	471.2
20°	745.9	634.3	447.6	371.8	369.0	389.5	417.8	445.3	468.1	479.1	481.0
22.5°	787.2	641.8	409.5	344.7	352.9	379.6	410.3	437.0	458.6	471.2	472.8
25°	834.4	642.6	370.6	321.9	338.0	366.3	392.2	414.2	432.3	443.3	444.5
27.5°	875.6	633.1	336.0	303.4	324.2	349.8	367.1	379.3	391.8	398.1	398.5
30°	923.2	616.6	303.4	288.5	310.1	329.3	338.0	340.7	341.9	343.1	341.5
32.5°	979.8	596.6	279.0	273.9	294.0	306.9	309.3	303.8	297.1	287.7	285.3
35°	1049.3	578.5	259.0	259.8	276.3	284.1	282.2	270.4	257.4	246.0	244.1
37.5°	1124.8	563.2	243.7	246.0	257.0	262.5	256.6	243.7	237.8	227.9	228.3
40°	1191.6	550.6	229.9	232.3	237.4	242.5	233.1	224.4	235.4	234.6	235.4
42.5°	1239.2	540.0	218.1	216.9	220.5	224.0	216.9	212.6	231.1	226.0	228.7
45°	1267.1	530.2	208.3	201.2	206.7	213.0	208.3	202.8	209.1	185.5	183.5
47.5°	1285.9	524.7	199.6	185.9	195.7	206.7	196.9	183.5	174.5	154.1	152.5
50°	1287.9	521.9	189.4	170.2	182.7	194.5	183.1	164.7	151.7	142.7	141.5
52.5°	1298.1	527.4	175.3	150.1	163.9	182.7	174.9	156.4	138.7	130.9	129.3
55°	1343.7	550.6	151.7	122.6	142.7	173.7	168.2	139.5	122.6	117.9	116.7
57.5°	1390.9	555.3	119.5	97.1	124.2	160.7	153.7	128.5	112.0	106.5	105.3
60°	1271.8	457.5	89.6	80.2	109.6	148.6	142.3	121.8	102.6	95.9	94.7
62.5°	835.5	247.2	71.1	68.0	92.4	125.8	129.7	110.0	91.6	84.5	84.1
65°	385.1	114.8	54.6	53.8	72.3	100.2	111.6	96.3	77.4	71.1	71.1
67.5°	104.9	57.0	42.8	39.7	49.1	67.2	81.4	71.9	55.0	47.6	47.2
70°	52.3	46.0	38.5	34.2	35.4	41.7	47.9	40.1	27.9	22.8	22.4
72.5°	42.8	37.7	32.6	29.1	26.7	25.5	24.8	20.0	13.0	9.8	9.4
75°	31.8	27.1	23.2	18.9	16.1	14.9	13.4	9.8	5.5	3.1	2.8
77.5°	7.1	6.7	6.3	4.7	4.3	3.5	2.8	2.0	0.8	0.0	0.0
80°	0.4	0.4	0.4	0.4	0.4	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

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)