

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: P631071

Luminaire Tested: GWS-SA1E-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 3717.2 lumens
Efficiency: N/A
Efficacy: 63.7 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

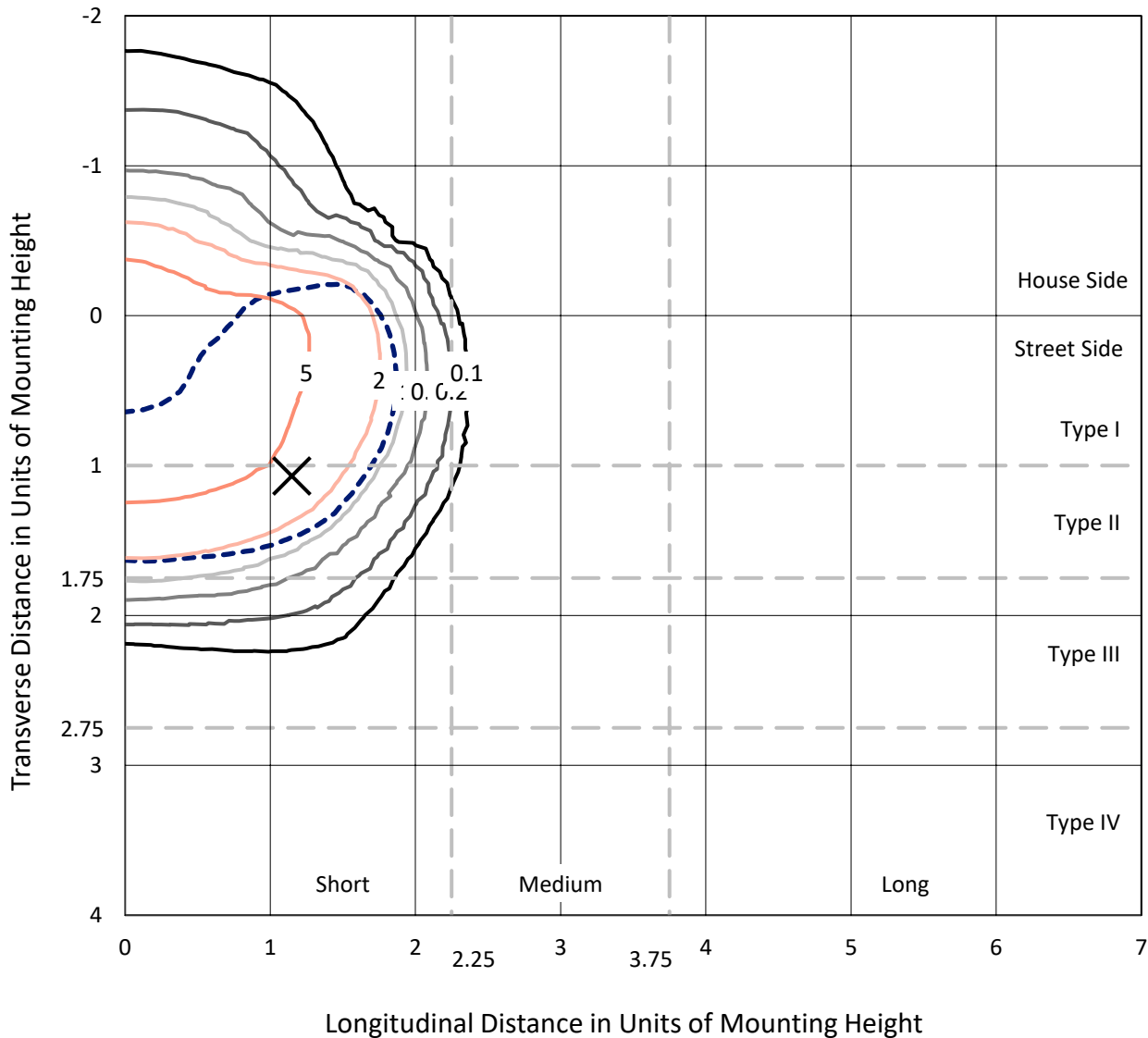
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

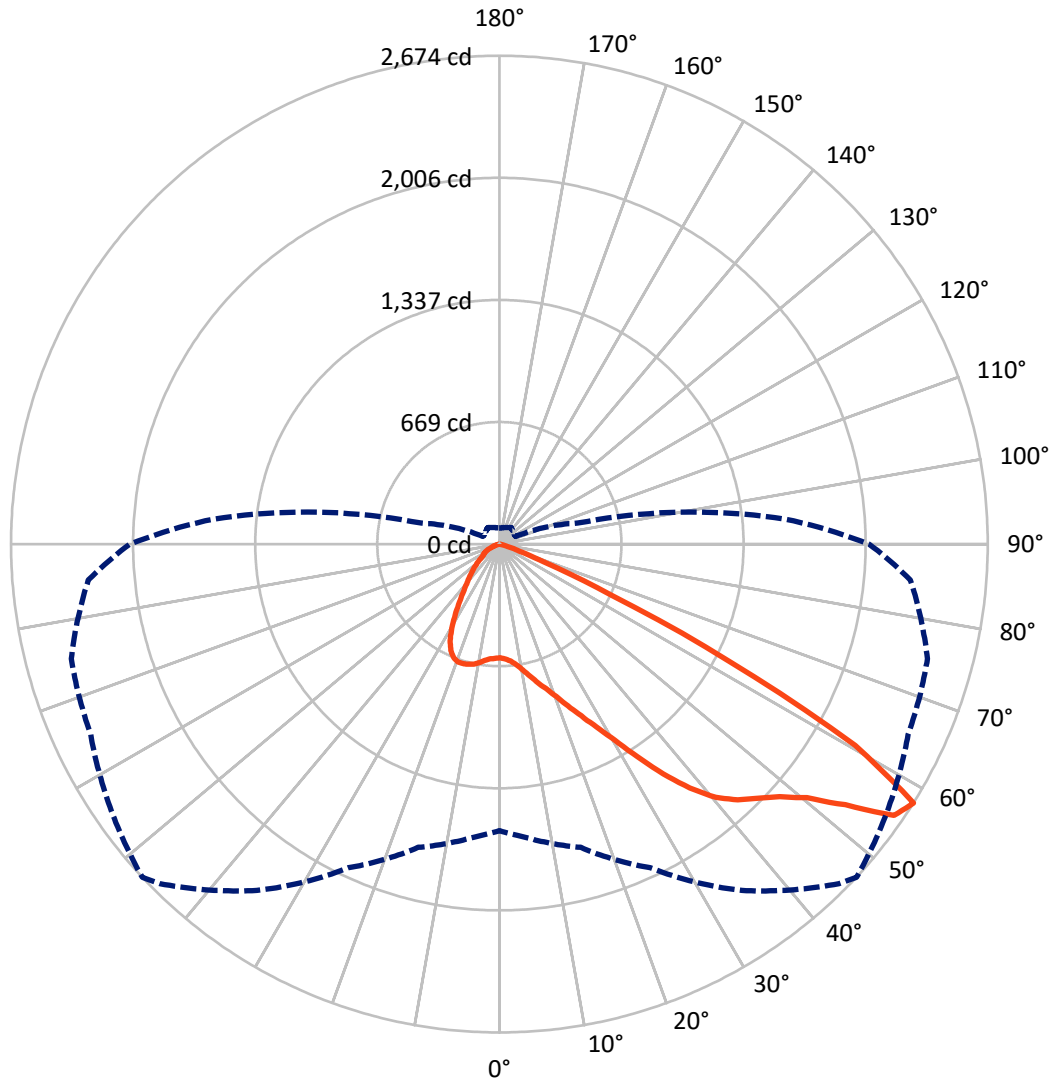
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	806.5	0.0	806.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2910.8	0.0	2910.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	3717.2	0.0	3717.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	1.7
10°-20°	208.9	5.6
20°-30°	387.9	10.4
30°-40°	620.9	16.7
40°-50°	907.6	24.4
50°-60°	1120.2	30.1
60°-70°	374.3	10.1
70°-80°	34.9	0.9
80°-90°	0.7	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°	3717.2	100.0
0°-180°	3717.2	100.0

Coefficient of Utilization



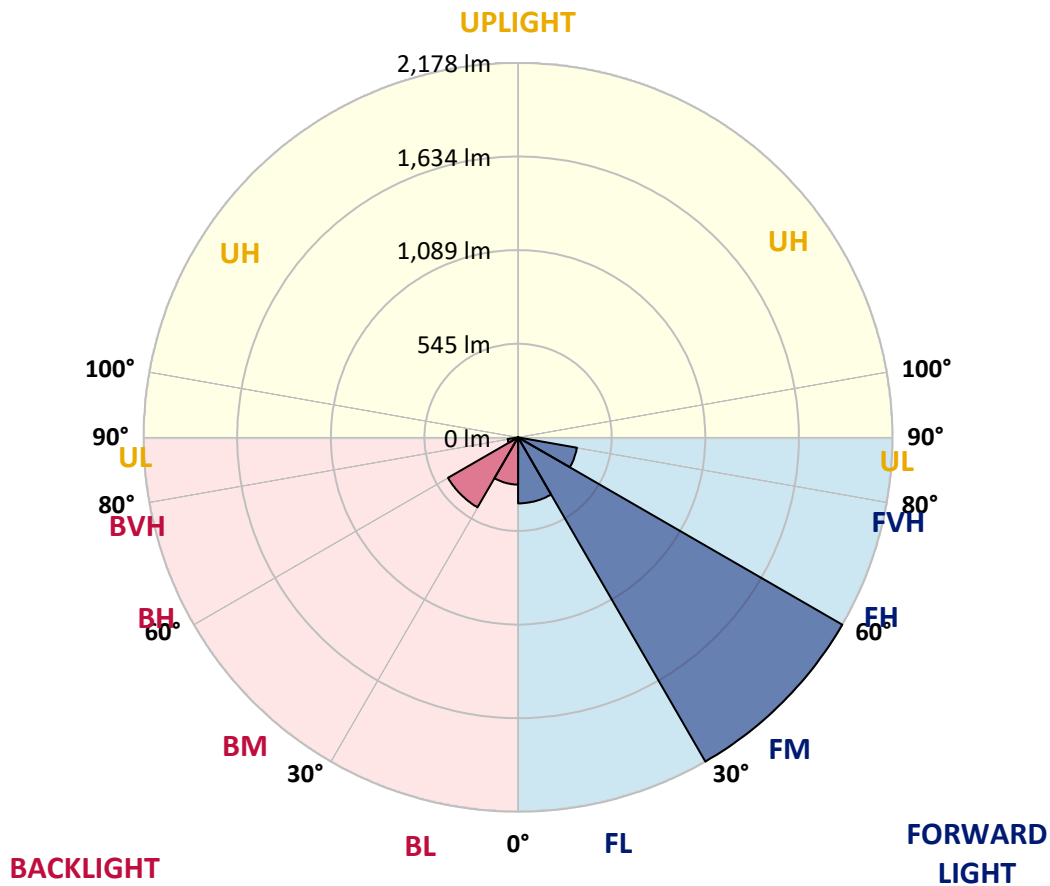
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.2	10.3			
FM (30°-60°)	2178.3	58.6			
FH (60°-80°)	347.9	9.4			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	274.5	7.4	B1/500		
BM (30°-60°)	470.4	12.7	B1/1000		
BH (60°-80°)	61.3	1.6	B0/110		G0/110
BVH (80°-90°)	0.2	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





REPORT NUMBER: P631071

CATALOG NUMBER: GWS-SA1E-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
2.5°	628.7	628.3	627.9	630.5	629.6	629.2	630.0	630.0	630.0	627.4	622.3
5°	643.8	643.8	643.4	646.0	643.8	642.5	643.0	643.0	641.3	636.5	630.0
7.5°	667.6	666.7	665.8	668.4	666.3	665.8	666.7	664.1	661.1	653.3	644.3
10°	701.7	701.7	700.4	703.0	701.2	700.4	700.4	698.6	693.0	681.0	667.6
12.5°	748.7	746.5	743.5	741.4	740.5	740.1	740.5	737.9	731.9	716.3	697.8
15°	800.1	798.3	793.6	790.1	785.4	784.5	787.1	784.9	778.9	757.8	731.4
17.5°	864.8	866.9	854.9	847.5	833.7	832.8	833.7	837.2	832.8	805.7	767.3
20°	920.0	921.7	912.7	907.5	895.0	889.4	891.1	896.7	892.0	860.0	806.5
22.5°	979.1	981.3	971.8	961.0	955.4	955.4	961.9	969.6	963.2	921.3	851.4
25°	1049.9	1051.6	1043.9	1029.6	1019.7	1032.2	1041.7	1062.4	1051.6	994.7	904.5
27.5°	1131.0	1131.5	1120.2	1105.6	1100.4	1123.7	1133.2	1165.1	1160.8	1077.1	960.6
30°	1217.8	1218.2	1215.6	1205.7	1200.9	1231.6	1244.5	1290.7	1287.7	1179.4	1037.0
32.5°	1308.0	1308.0	1312.7	1311.8	1317.5	1367.5	1388.2	1440.9	1437.9	1304.5	1131.9
35°	1398.6	1399.0	1407.2	1427.9	1451.2	1517.7	1544.9	1608.7	1601.8	1454.2	1253.2
37.5°	1501.7	1497.4	1508.6	1539.7	1591.5	1668.3	1694.2	1755.0	1747.3	1607.4	1411.5
40°	1626.0	1618.2	1618.2	1654.5	1713.2	1801.6	1823.6	1853.8	1827.5	1731.3	1566.9
42.5°	1763.2	1755.9	1746.4	1778.3	1827.5	1896.6	1914.7	1906.5	1884.9	1848.2	1743.8
45°	1902.2	1891.0	1897.4	1916.8	1945.3	1978.1	1985.0	1947.1	1937.1	1947.5	1890.1
47.5°	2007.9	2000.1	2016.1	2043.3	2066.6	2071.3	2066.6	2013.9	2013.1	2049.8	1991.5
50°	2043.3	2044.1	2088.2	2147.7	2185.3	2189.1	2182.7	2122.3	2114.1	2124.8	2046.3
52.5°	2046.7	2050.2	2114.5	2228.0	2330.3	2376.9	2371.7	2306.5	2226.3	2214.6	2129.2
55°	1963.5	1983.7	2073.5	2239.2	2456.7	2605.6	2622.8	2498.1	2379.0	2369.1	2307.4
57.5°	1569.5	1610.9	1719.2	1955.3	2315.6	2629.3	2674.2	2584.4	2469.2	2426.9	2259.5
60°	938.1	989.5	1093.5	1383.0	1762.4	2161.1	2238.3	2250.8	2197.8	2075.6	1733.4
62.5°	402.6	398.3	526.5	748.3	1048.2	1373.6	1408.5	1462.9	1509.1	1381.3	1052.1
65°	138.1	150.2	208.9	337.5	524.7	637.8	668.9	717.6	783.2	646.4	385.4
67.5°	85.4	90.6	120.4	199.4	283.1	278.8	265.0	257.2	250.3	171.3	105.7
70°	62.1	66.5	84.6	137.2	190.3	133.8	116.1	94.1	104.4	96.2	75.1
72.5°	41.9	45.3	58.3	83.3	97.5	65.2	60.4	68.6	82.9	79.0	61.3
75°	25.0	27.2	33.2	40.6	39.7	33.7	34.1	48.3	63.4	59.1	43.6
77.5°	17.3	18.1	22.0	26.3	19.4	10.4	9.5	13.4	21.6	21.6	14.7
80°	4.3	5.6	5.6	3.5	3.0	2.6	2.6	3.9	6.0	4.3	2.2
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
87.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
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-SA1E-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3	622.3
2.5°	625.3	620.1	623.6	622.7	625.3	626.1	622.3	621.4	621.8	616.7	614.9
5°	631.3	625.3	627.0	625.3	628.3	630.9	629.6	631.3	633.5	629.6	627.9
7.5°	644.3	638.2	637.8	635.2	639.5	641.3	640.8	645.6	649.9	647.3	644.7
10°	666.7	658.5	657.6	655.5	656.8	658.1	653.3	654.2	658.1	655.1	653.8
12.5°	694.3	684.4	682.2	677.1	677.1	670.6	660.2	658.1	661.1	658.9	656.8
15°	724.1	710.7	707.3	698.2	689.6	677.5	666.7	664.1	666.3	663.7	662.0
17.5°	757.3	742.2	731.0	715.0	696.1	681.8	669.7	664.1	660.7	655.5	655.1
20°	790.1	770.3	751.3	725.8	700.8	679.2	659.4	644.7	632.2	624.4	621.4
22.5°	828.1	798.8	768.1	732.3	696.5	663.7	628.7	603.7	582.1	574.8	571.3
25°	868.7	830.7	784.9	738.3	681.8	629.2	581.7	544.6	516.1	506.6	502.7
27.5°	913.5	861.3	802.2	737.0	651.6	580.0	517.0	470.8	442.7	434.1	437.1
30°	970.5	901.0	823.8	723.7	606.3	510.9	437.1	398.3	377.2	369.0	369.4
32.5°	1046.5	958.0	855.3	695.2	548.0	432.4	367.7	339.2	324.9	314.2	313.3
35°	1155.2	1044.7	884.6	649.4	477.3	362.5	315.4	293.0	273.2	260.6	262.8
37.5°	1285.5	1153.9	900.6	587.7	397.9	308.1	276.2	253.3	230.9	212.3	214.5
40°	1440.0	1296.7	899.3	506.6	325.4	271.0	243.4	216.6	188.6	171.7	173.5
42.5°	1612.2	1431.8	871.3	420.7	269.7	240.8	211.9	178.2	151.0	140.7	141.1
45°	1761.5	1541.4	822.1	331.8	227.0	211.4	179.1	144.6	132.5	125.1	124.7
47.5°	1872.0	1621.7	751.7	261.1	192.5	184.7	147.2	129.5	120.0	113.9	113.1
50°	1933.7	1649.7	674.0	204.5	162.7	156.6	131.6	117.4	110.9	107.0	106.2
52.5°	2016.5	1683.4	618.4	161.4	136.4	128.2	121.3	109.2	104.9	101.8	100.5
55°	2147.7	1748.6	570.0	128.2	113.5	111.8	114.4	104.4	101.8	97.1	95.4
57.5°	2024.3	1570.8	442.7	99.3	95.8	102.3	110.5	99.7	93.2	88.9	87.2
60°	1424.5	1044.3	222.7	79.8	85.4	95.8	104.0	90.2	83.7	84.6	83.7
62.5°	785.4	522.6	100.1	66.9	74.2	84.6	88.9	78.1	73.8	81.1	82.4
65°	256.8	177.8	57.8	51.8	58.7	69.0	76.8	74.2	73.4	82.0	84.6
67.5°	79.0	58.7	39.3	37.1	40.6	50.9	64.7	80.3	86.3	88.9	90.2
70°	59.1	46.2	33.7	31.5	33.2	38.8	54.8	66.9	63.0	63.4	62.6
72.5°	47.5	36.7	28.9	27.6	27.6	26.8	28.9	36.2	41.0	43.2	43.2
75°	33.2	25.9	22.0	20.3	16.0	12.9	11.7	11.7	10.4	9.9	9.5
77.5°	11.2	9.5	8.6	6.9	4.7	3.9	3.5	3.0	2.2	1.3	0.9
80°	1.7	1.3	0.9	0.9	0.9	0.4	0.4	0.4	0.0	0.0	0.0
82.5°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.0	0.0	0.0	0.0
85°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.4	0.4	0.4	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)