

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: P634033

Luminaire Tested: GWS-SA2F-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634033
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-SA2F-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: 7654.9 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

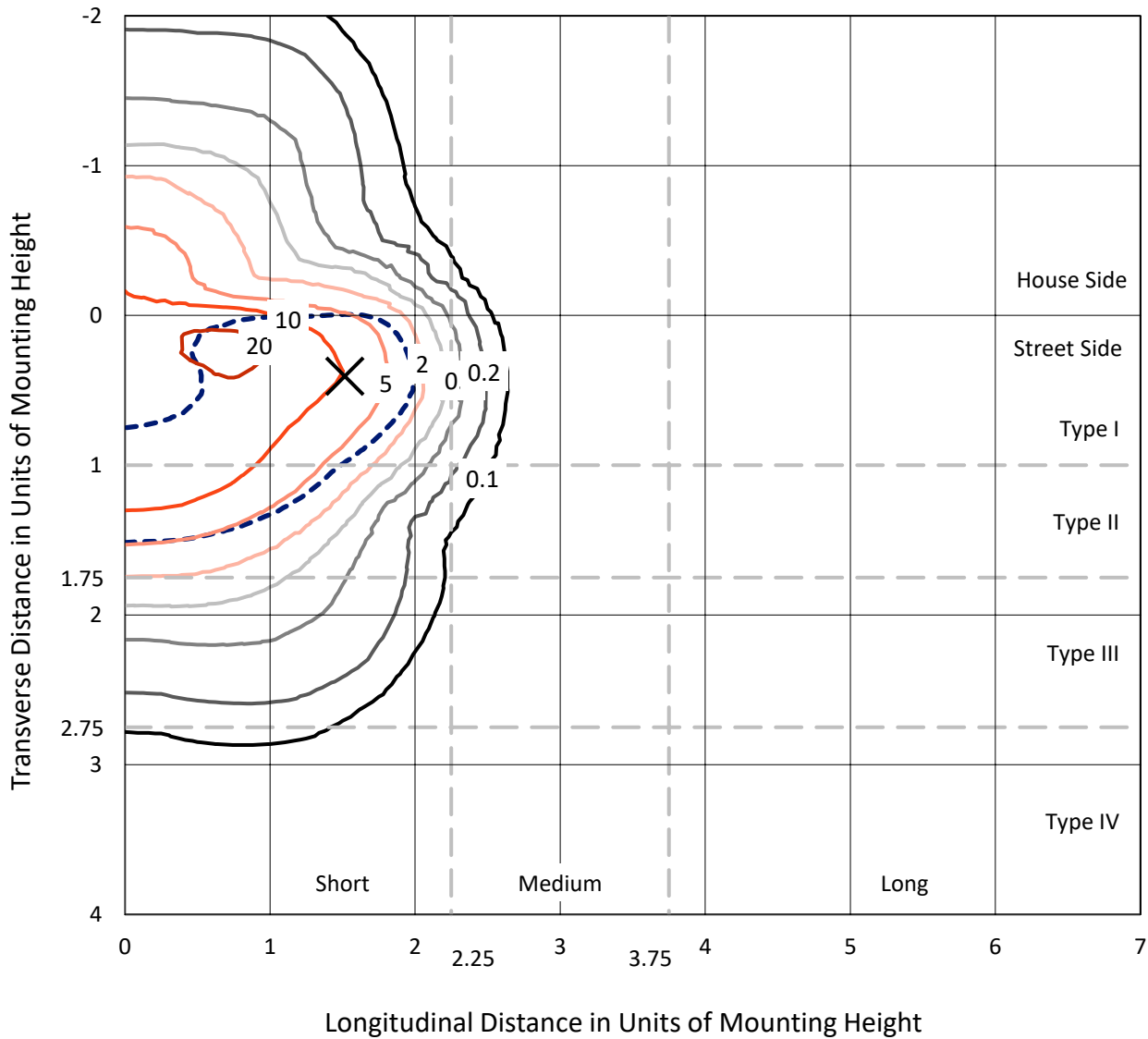
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

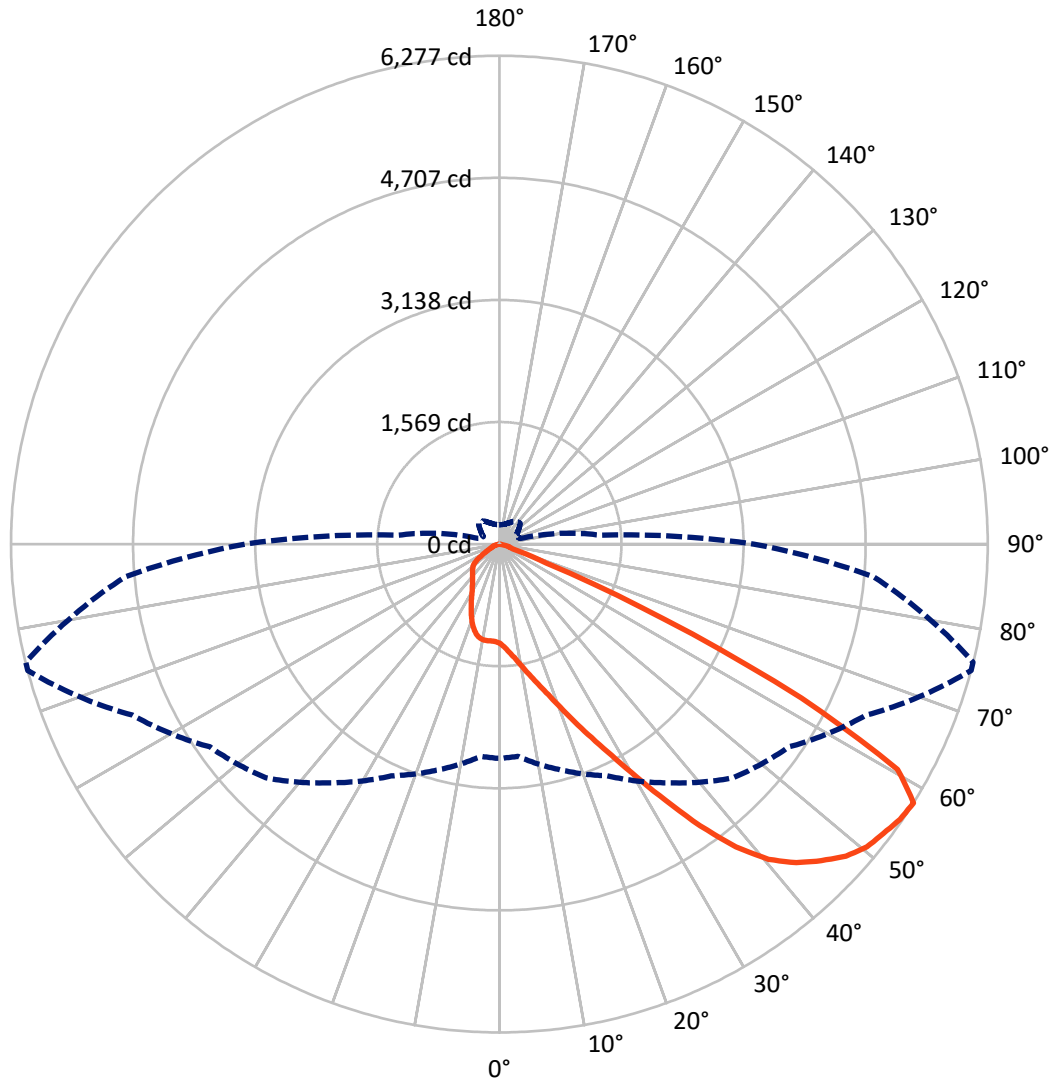
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.9 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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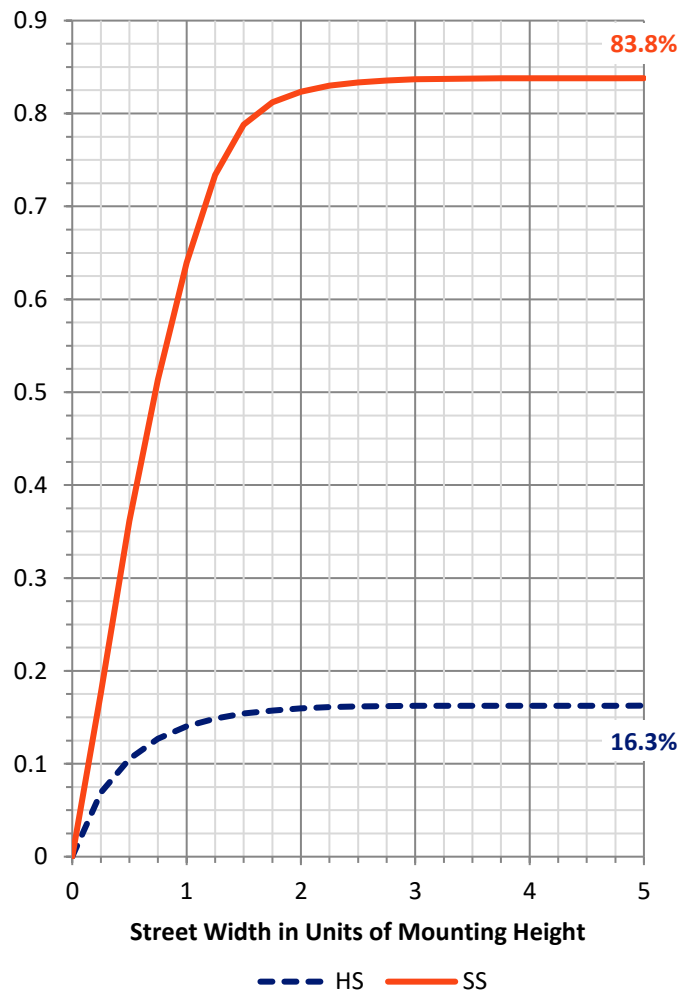
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.4	0.0	1250.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	6404.5	0.0	6404.5
	% Fixture	83.7	0.0	83.7
Total	Lumens	7654.9	0.0	7654.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	1.7
10°-20°	422.0	5.5
20°-30°	772.8	10.1
30°-40°	1282.2	16.8
40°-50°	1958.2	25.6
50°-60°	2200.4	28.7
60°-70°	811.6	10.6
70°-80°	77.6	1.0
80°-90°	0.1	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°	7654.9	100.0
0°-180°	7654.9	100.0

Coefficient of Utilization



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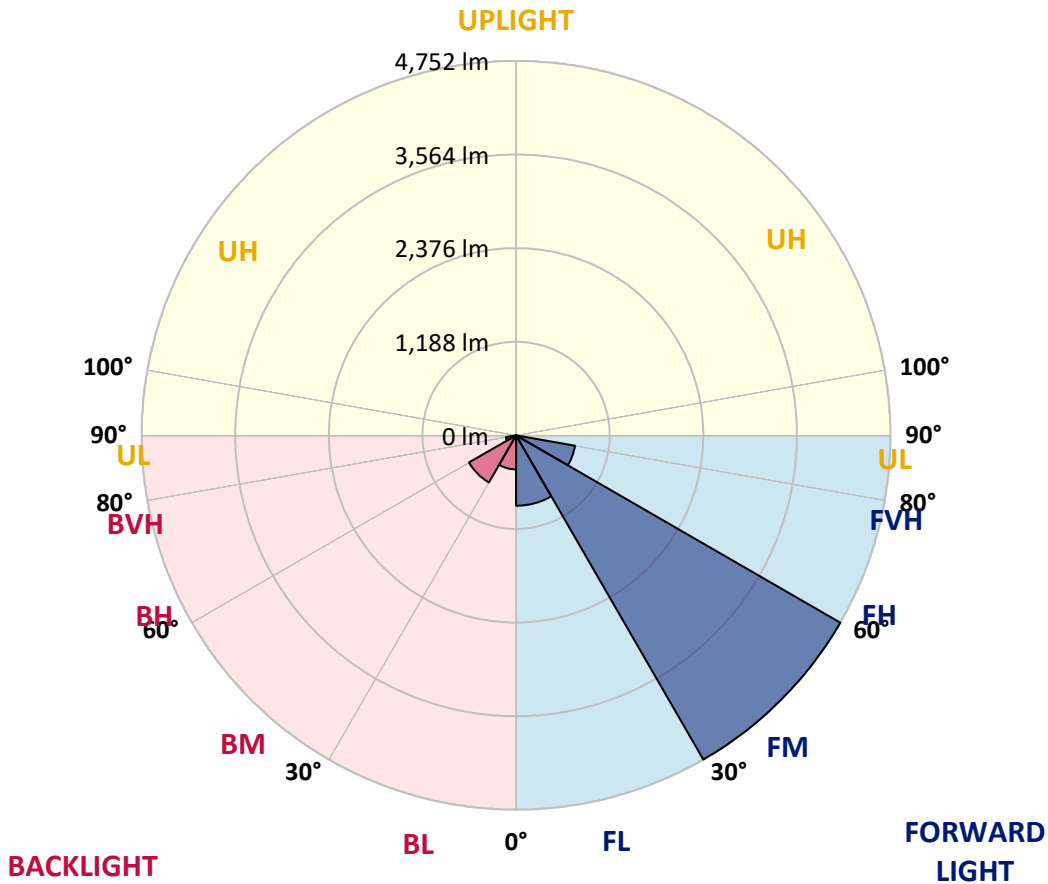
CATALOG NUMBER: GWS-SA2F-830-U-T2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	893.3	11.7			
FM (30°-60°)	4751.8	62.1			
FH (60°-80°)	759.3	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	431.5	5.6	B1/500		
BM (30°-60°)	689.1	9.0	B1/1000		
BH (60°-80°)	129.8	1.7	B1/500		G1/500
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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7
2.5°	1426.4	1441.2	1436.6	1427.3	1421.8	1402.4	1390.4	1355.3	1330.3	1327.5	1304.4
5°	1606.5	1603.8	1600.1	1589.0	1579.7	1549.3	1513.2	1454.1	1401.4	1395.0	1346.0
7.5°	1705.4	1707.2	1709.1	1707.2	1700.8	1677.7	1637.9	1568.7	1488.3	1482.7	1405.1
10°	1746.0	1749.7	1759.0	1776.5	1792.2	1790.4	1767.3	1696.1	1597.3	1588.1	1483.7
12.5°	1765.4	1770.1	1784.8	1818.1	1860.6	1893.8	1897.5	1833.8	1724.8	1710.0	1577.0
15°	1792.2	1796.8	1815.3	1858.7	1920.6	1986.2	2028.7	1988.1	1866.1	1850.4	1679.5
17.5°	1804.2	1810.7	1837.5	1894.8	1975.1	2075.8	2171.9	2168.2	2033.3	2021.3	1798.7
20°	1827.3	1832.0	1856.0	1917.9	2014.9	2159.9	2321.6	2379.8	2237.5	2220.0	1942.8
22.5°	1900.3	1902.2	1913.2	1952.0	2042.6	2220.9	2474.0	2626.4	2478.6	2455.5	2104.5
25°	2019.5	2018.6	2023.2	2029.7	2096.2	2282.8	2620.9	2904.5	2754.9	2729.9	2287.4
27.5°	2171.0	2171.0	2182.1	2163.6	2190.4	2359.5	2765.9	3224.2	3076.3	3041.2	2487.9
30°	2349.3	2348.4	2374.2	2344.7	2353.0	2480.5	2922.1	3572.4	3464.4	3420.9	2718.8
32.5°	2591.3	2585.8	2615.4	2574.7	2547.0	2663.4	3112.4	3936.4	3929.0	3862.5	3008.9
35°	2897.1	2887.9	2897.1	2857.4	2807.5	2919.3	3361.8	4299.5	4444.5	4374.3	3354.4
37.5°	3201.1	3230.6	3240.8	3172.4	3131.8	3243.6	3662.1	4624.7	4936.9	4864.0	3713.8
40°	3559.5	3550.3	3585.4	3508.7	3482.8	3606.6	3955.8	4866.7	5326.8	5257.5	4033.4
42.5°	3823.7	3840.4	3883.8	3841.3	3821.0	3937.4	4202.5	5008.1	5597.5	5529.1	4261.6
45°	4140.6	4152.6	4169.2	4134.1	4112.9	4227.4	4380.8	5070.0	5803.5	5729.6	4415.0
47.5°	4483.3	4492.6	4492.6	4420.5	4352.2	4399.3	4500.0	5105.1	5992.9	5921.7	4528.6
50°	4729.1	4733.7	4774.3	4723.5	4574.8	4501.8	4554.5	5139.3	6118.5	6052.0	4565.6
52.5°	4511.1	4505.5	4639.5	4744.8	4784.5	4639.5	4648.7	5189.1	6179.5	6122.2	4595.1
55°	3798.8	3789.5	3978.0	4233.9	4584.0	4769.7	4762.3	5218.7	6246.9	6211.8	4702.3
57.5°	2753.9	2738.2	3000.6	3285.1	3744.3	4247.8	4543.4	5202.1	6276.5	6273.7	4827.0
60°	1655.5	1642.6	1890.2	2189.5	2544.2	3050.5	3541.0	4659.8	5881.1	5886.6	4502.7
62.5°	1019.0	1031.0	1254.6	1407.0	1539.1	1691.5	1975.1	3134.5	4356.8	4392.8	3164.1
65°	685.5	694.7	901.7	1093.8	1093.8	894.3	767.7	1498.4	2324.4	2263.4	1496.6
67.5°	460.1	470.2	633.7	858.2	890.6	623.6	311.3	447.1	647.6	628.2	370.5
70°	270.7	281.8	422.2	588.5	648.5	434.2	207.9	189.4	183.8	178.3	144.1
72.5°	121.0	125.6	215.3	299.3	273.5	182.9	146.9	151.5	143.2	140.4	117.3
75°	37.0	38.8	55.4	64.7	65.6	65.6	88.7	119.2	112.7	113.6	90.5
77.5°	9.2	9.2	14.8	13.9	7.4	6.5	16.6	26.8	27.7	24.9	18.5
80°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7	1276.7
2.5°	1294.3	1270.3	1254.6	1232.4	1216.7	1200.1	1185.3	1173.3	1166.8	1164.9	1165.9
5°	1323.8	1286.0	1249.0	1206.5	1177.0	1149.2	1127.1	1109.5	1101.2	1098.4	1098.4
7.5°	1369.1	1316.5	1250.9	1184.3	1134.5	1091.0	1065.2	1045.8	1038.4	1036.5	1031.0
10°	1428.2	1356.2	1248.1	1144.6	1074.4	1029.1	1010.7	1005.1	1007.9	1008.8	1007.9
12.5°	1499.4	1397.8	1230.5	1086.4	1010.7	983.0	984.8	999.6	1016.2	1024.5	1026.4
15°	1575.1	1435.6	1190.8	1017.1	956.2	955.2	982.0	1016.2	1048.5	1062.4	1066.1
17.5°	1660.1	1466.1	1129.8	943.2	909.0	935.8	983.9	1036.5	1080.0	1103.1	1107.7
20°	1753.4	1491.1	1052.2	873.9	867.5	915.5	982.0	1046.7	1100.3	1126.1	1130.8
22.5°	1850.4	1508.6	962.6	810.2	829.6	892.4	964.5	1027.3	1078.1	1107.7	1111.4
25°	1961.3	1510.5	871.2	756.6	794.5	861.0	922.0	973.7	1016.2	1042.1	1044.8
27.5°	2058.3	1488.3	789.9	713.2	762.2	822.2	862.9	891.5	921.1	935.8	936.8
30°	2170.1	1449.5	713.2	678.1	728.9	774.2	794.5	801.0	803.7	806.5	802.8
32.5°	2303.1	1402.4	655.9	643.9	691.0	721.5	727.1	714.1	698.4	676.2	670.7
35°	2466.6	1359.9	608.8	610.7	649.5	667.9	663.3	635.6	605.1	578.3	573.7
37.5°	2644.0	1323.8	572.8	578.3	604.2	617.1	603.3	572.8	558.9	535.8	536.7
40°	2801.0	1294.3	540.4	546.0	558.0	570.0	547.8	527.5	553.4	551.5	553.4
42.5°	2912.8	1269.3	512.7	510.0	518.3	526.6	510.0	499.8	543.2	531.2	537.7
45°	2978.4	1246.2	489.6	473.0	485.9	500.7	489.6	476.7	491.5	436.0	431.4
47.5°	3022.8	1233.3	469.3	437.0	460.1	485.9	462.8	431.4	410.2	362.1	358.4
50°	3027.4	1226.8	445.3	400.0	429.6	457.3	430.5	387.1	356.6	335.3	332.6
52.5°	3051.4	1239.8	412.0	352.9	385.2	429.6	411.1	367.7	326.1	307.6	303.9
55°	3158.6	1294.3	356.6	288.2	335.3	408.3	395.4	328.0	288.2	277.1	274.4
57.5°	3269.4	1305.4	280.8	228.2	291.9	377.8	361.2	302.1	263.3	250.4	247.6
60°	2989.5	1075.3	210.6	188.5	257.7	349.2	334.4	286.4	241.1	225.4	222.6
62.5°	1964.1	581.1	167.2	159.8	217.1	295.6	304.9	258.7	215.3	198.6	197.7
65°	905.4	269.8	128.4	126.6	170.0	235.6	262.4	226.3	182.0	167.2	167.2
67.5°	246.7	134.0	100.7	93.3	115.5	158.0	191.2	169.1	129.3	111.8	110.9
70°	122.9	108.1	90.5	80.4	83.1	97.9	112.7	94.2	65.6	53.6	52.7
72.5°	100.7	88.7	76.7	68.4	62.8	60.0	58.2	47.1	30.5	23.1	22.2
75°	74.8	63.7	54.5	44.3	37.9	35.1	31.4	23.1	12.9	7.4	6.5
77.5°	16.6	15.7	14.8	11.1	10.2	8.3	6.5	4.6	1.8	0.0	0.0
80°	0.9	0.9	0.9	0.9	0.9	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)