

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: P634043

Luminaire Tested: GWS-SA2F-830-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-830-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9461 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

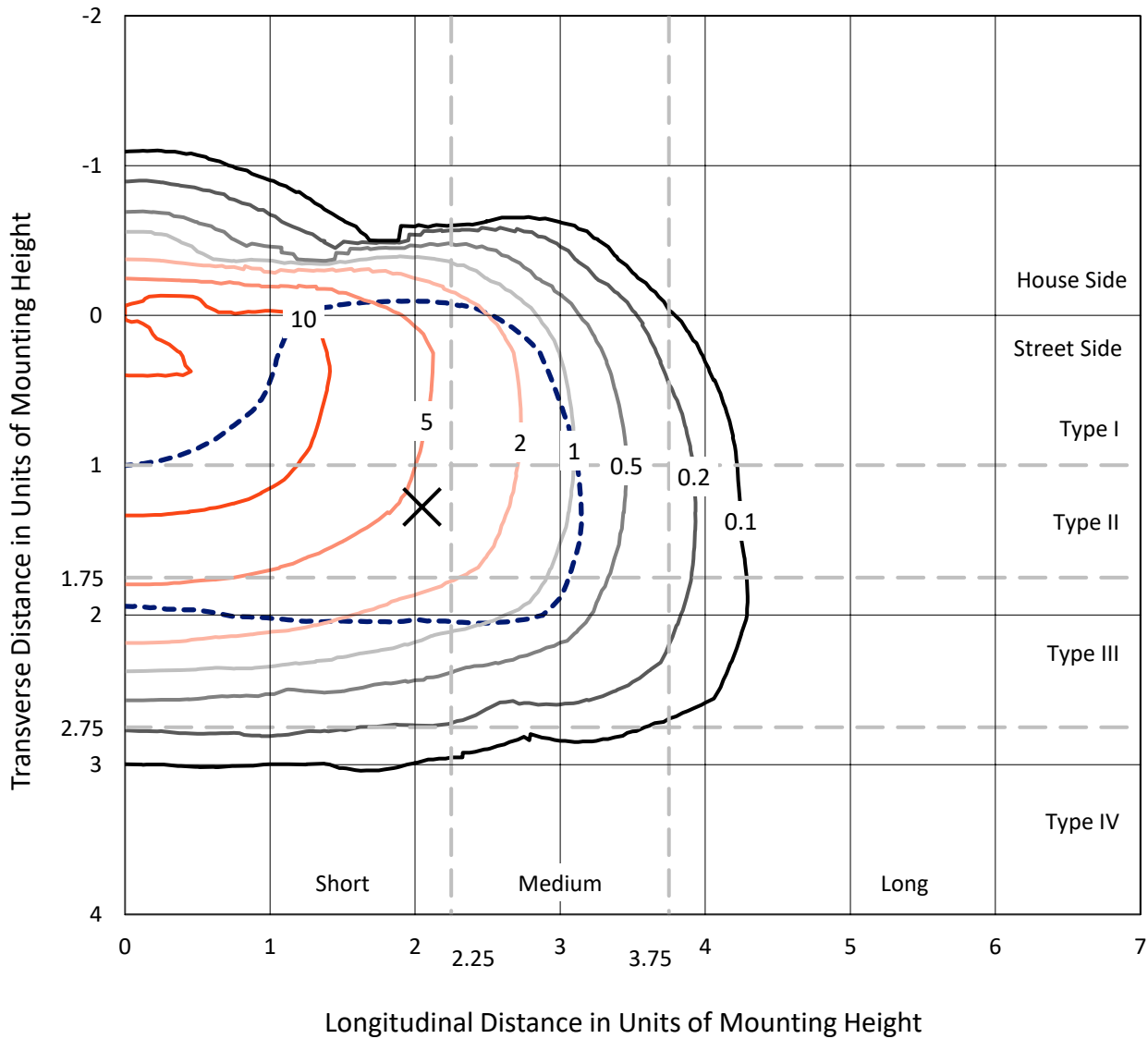
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

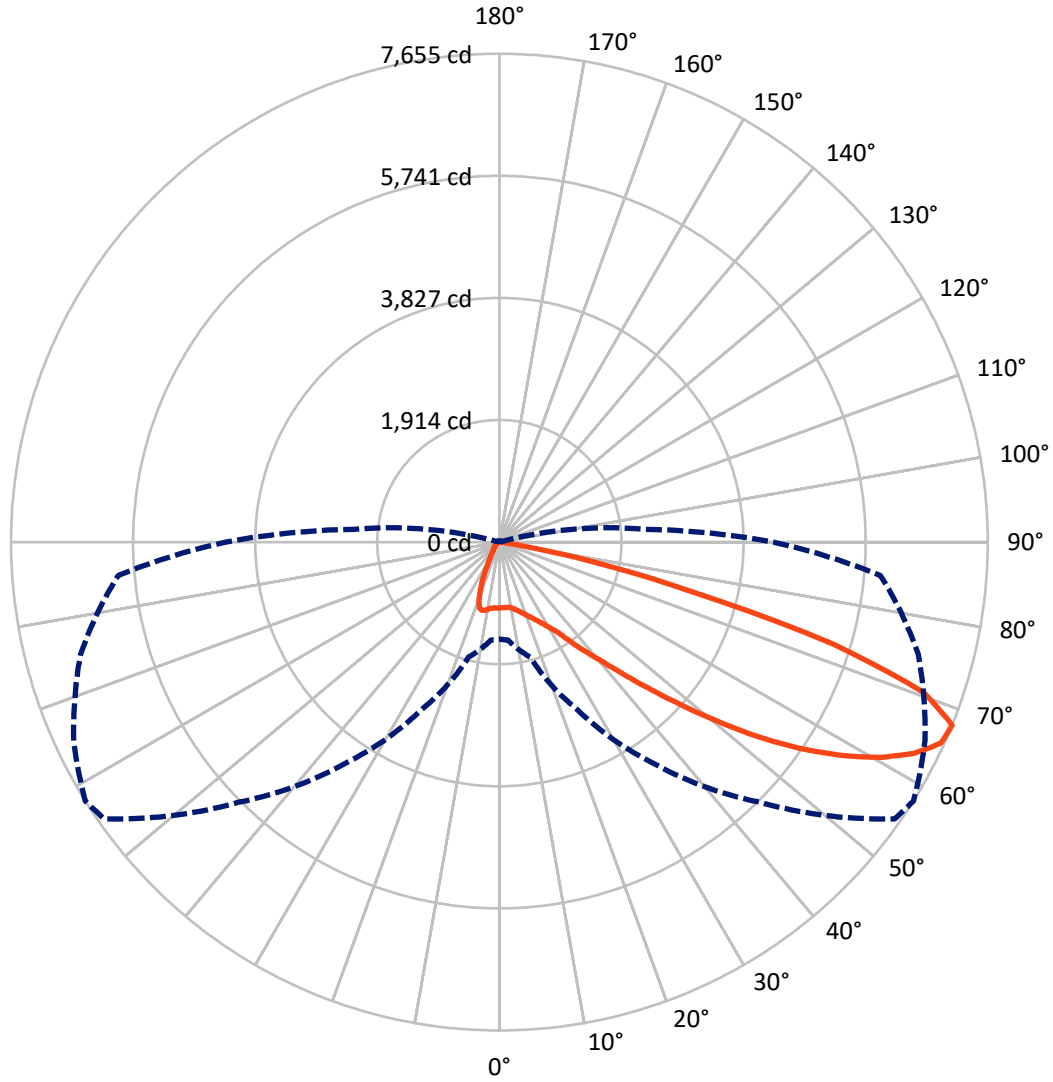
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.2	0.0	1032.2
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	8428.8	0.0	8428.8
	% Fixture	89.1	0.0	89.1
Total	Lumens	9461.0	0.0	9461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	1.0
10°-20°	271.9	2.9
20°-30°	474.6	5.0
30°-40°	847.6	9.0
40°-50°	1549.3	16.4
50°-60°	2576.7	27.2
60°-70°	2798.8	29.6
70°-80°	821.7	8.7
80°-90°	23.4	0.2
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°	9461.0	100.0
0°-180°	9461.0	100.0

Coefficient of Utilization



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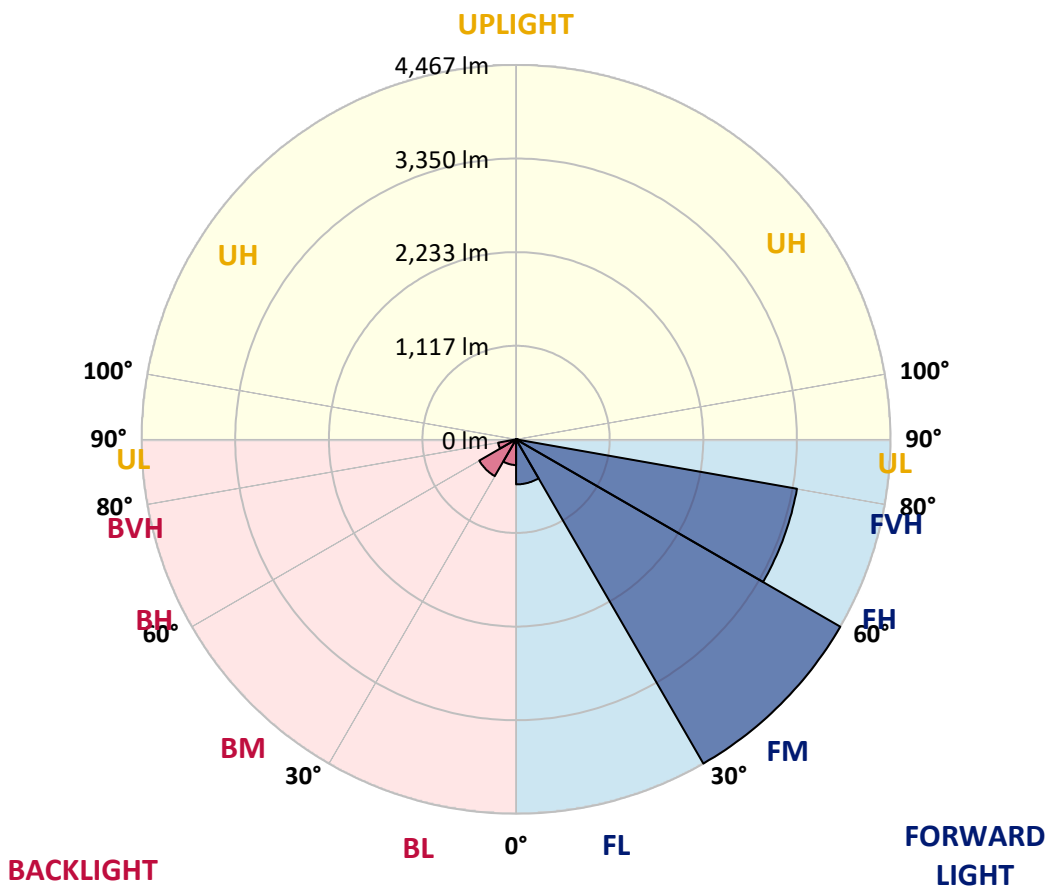
CATALOG NUMBER: GWS-SA2F-830-U-T3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.2	5.7			
FM (30°-60°)	4466.7	47.2			
FH (60°-80°)	3402.6	36.0			G2/5000
FVH (80°-90°)	22.2	0.2			G1/100
BL (0°-30°)	306.2	3.2	B1/500		
BM (30°-60°)	507.0	5.4	B1/1000		
BH (60°-80°)	217.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0
2.5°	1011.6	1009.7	1009.7	1017.1	1018.0	1021.7	1030.0	1031.0	1035.6	1033.7	1027.3
5°	958.9	959.8	965.4	978.3	989.4	1003.3	1023.6	1028.2	1038.4	1043.9	1040.2
7.5°	909.9	910.9	919.2	939.5	960.8	988.5	1021.7	1031.0	1051.3	1066.1	1067.0
10°	891.5	890.5	898.9	922.0	949.7	988.5	1036.5	1048.5	1079.0	1104.9	1109.5
12.5°	897.0	896.1	904.4	925.7	956.1	1005.1	1062.4	1079.0	1117.8	1157.5	1165.8
15°	919.2	918.3	923.8	941.4	974.6	1025.4	1095.6	1120.6	1169.5	1217.6	1230.5
17.5°	985.7	981.1	975.5	977.4	996.8	1049.4	1138.1	1168.6	1229.6	1286.9	1297.9
20°	1103.9	1091.9	1077.2	1057.8	1048.5	1084.5	1187.1	1222.2	1296.1	1361.7	1363.5
22.5°	1282.2	1277.6	1243.4	1187.1	1147.4	1148.3	1244.4	1285.0	1375.5	1447.6	1437.4
25°	1530.7	1528.0	1475.3	1382.9	1279.5	1244.4	1317.3	1358.9	1469.8	1546.4	1514.1
27.5°	1839.3	1819.9	1758.0	1633.3	1479.0	1369.1	1409.7	1446.7	1569.5	1641.6	1580.6
30°	2108.1	2109.0	2050.8	1920.6	1746.9	1556.6	1522.4	1554.8	1661.0	1736.8	1662.8
32.5°	2366.8	2375.1	2311.4	2194.0	2003.7	1801.4	1684.1	1689.6	1778.3	1860.5	1770.9
35°	2607.0	2613.4	2569.1	2469.3	2292.0	2057.3	1909.5	1906.7	1954.8	2038.8	1921.5
37.5°	2875.8	2882.3	2838.9	2749.2	2583.0	2350.2	2165.4	2161.7	2181.1	2249.5	2115.5
40°	3162.2	3174.2	3126.2	3050.4	2891.5	2694.7	2462.9	2429.6	2410.2	2490.6	2366.8
42.5°	3452.3	3470.7	3454.1	3378.4	3242.6	3080.0	2849.0	2797.3	2755.7	2856.4	2725.2
45°	3812.5	3834.7	3827.3	3769.1	3663.8	3531.7	3313.7	3253.6	3234.2	3327.5	3171.4
47.5°	4159.0	4183.0	4209.8	4196.8	4122.0	4061.0	3819.0	3784.8	3779.3	3879.1	3637.0
50°	4416.7	4438.9	4541.4	4615.3	4666.1	4653.2	4443.5	4392.7	4384.4	4448.1	4128.5
52.5°	4601.5	4622.7	4764.1	4995.0	5181.6	5283.2	5071.7	5060.6	5015.3	4993.2	4588.5
55°	4744.7	4774.2	4923.0	5272.2	5648.1	5873.6	5741.4	5701.7	5585.3	5457.8	5015.3
57.5°	4773.3	4785.3	4995.0	5466.2	6010.3	6375.2	6375.2	6305.9	6081.4	5905.0	5508.6
60°	4516.5	4553.4	4837.0	5450.4	6165.5	6703.1	6900.8	6852.8	6549.8	6332.7	5983.5
62.5°	3946.5	3988.1	4333.6	5074.5	6010.3	6770.6	7299.0	7291.6	6949.8	6686.5	6377.0
65°	3026.4	3056.9	3358.0	4244.9	5354.4	6511.0	7583.5	7603.8	7265.7	6920.2	6512.8
67.5°	1520.6	1541.8	1867.0	2899.8	4244.0	5763.6	7564.1	7654.6	7361.8	6796.4	5994.6
70°	531.2	552.4	705.8	1244.4	2583.0	4401.0	6910.1	7057.9	6797.4	5801.5	4422.3
72.5°	182.0	192.2	292.8	461.9	1005.1	2608.8	5254.6	5477.2	5010.7	3894.8	2541.4
75°	103.5	109.9	157.0	250.4	421.3	858.2	2981.1	3117.8	2921.1	2122.9	1045.7
77.5°	70.2	75.8	97.9	142.3	232.8	276.2	1215.7	1530.7	1334.9	692.9	267.0
80°	41.6	45.3	60.0	84.1	119.2	107.2	260.5	346.4	446.2	206.9	80.4
82.5°	19.4	22.2	38.8	55.4	60.0	45.3	76.7	93.3	125.6	101.6	33.3
85°	0.0	0.0	12.9	23.1	22.2	12.9	21.2	23.1	34.2	50.8	12.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.8	5.5	10.2	5.5
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-SA2F-830-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0	1031.0
2.5°	1034.7	1028.2	1035.6	1031.9	1035.6	1034.7	1027.3	1022.7	1022.7	1014.3	1011.6
5°	1047.6	1041.1	1043.0	1034.7	1032.8	1028.2	1019.0	1015.3	1015.3	1006.9	1004.2
7.5°	1076.2	1066.1	1064.2	1047.6	1040.2	1027.3	1010.6	1004.2	1003.3	994.9	992.2
10°	1121.5	1109.5	1101.2	1079.9	1058.7	1032.8	997.7	968.1	951.5	929.3	927.5
12.5°	1176.9	1162.1	1149.2	1116.9	1081.8	1023.6	920.1	812.0	745.5	692.9	696.5
15°	1238.8	1225.0	1204.6	1155.7	1083.6	932.1	715.9	549.7	468.4	425.0	423.1
17.5°	1306.3	1285.9	1252.7	1186.2	1025.4	712.3	465.6	328.9	286.4	271.6	267.9
20°	1369.1	1344.1	1302.6	1192.6	857.3	482.2	291.0	255.0	247.6	243.0	243.0
22.5°	1435.6	1404.2	1342.3	1142.7	637.4	308.6	247.6	239.3	233.7	227.3	226.3
25°	1503.0	1462.4	1378.3	1012.5	417.6	243.0	231.9	222.6	212.5	202.3	199.5
27.5°	1560.3	1507.6	1406.0	818.5	267.9	218.9	211.6	195.8	182.0	170.9	169.1
30°	1628.7	1561.2	1418.0	598.6	210.6	193.1	182.0	165.4	148.7	137.6	134.0
32.5°	1720.1	1646.2	1399.6	389.8	186.6	170.0	152.4	133.0	116.4	104.4	102.5
35°	1862.4	1774.6	1314.6	248.5	169.1	146.9	125.6	105.3	91.5	82.2	80.4
37.5°	2036.1	1954.8	1175.1	186.6	151.5	127.5	102.5	83.1	73.0	66.5	64.7
40°	2293.8	2180.2	1002.3	163.5	134.0	108.1	84.1	68.4	61.0	55.4	53.6
42.5°	2628.2	2446.2	803.7	148.7	117.3	90.5	68.4	56.4	49.9	46.2	45.3
45°	3019.0	2705.8	594.0	134.0	101.6	74.8	56.4	46.2	41.6	38.8	37.9
47.5°	3419.0	2933.1	410.2	118.2	86.8	61.9	47.1	39.7	36.0	32.3	31.4
50°	3845.8	3125.2	279.9	102.5	73.9	50.8	40.6	36.0	31.4	28.6	27.7
52.5°	4159.0	3196.4	194.9	88.7	62.8	43.4	36.0	32.3	28.6	24.9	24.0
55°	4448.1	3194.5	147.8	74.8	53.6	37.9	32.3	28.6	24.9	22.2	21.2
57.5°	4736.3	3169.6	116.4	63.7	46.2	34.2	28.6	24.9	23.1	19.4	18.5
60°	4923.0	3075.3	90.5	53.6	39.7	29.6	24.9	22.2	19.4	16.6	15.7
62.5°	5021.8	2944.2	69.3	42.5	32.3	25.9	22.2	19.4	16.6	13.9	12.9
65°	4887.9	2711.4	54.5	33.3	24.9	22.2	18.5	15.7	12.9	10.2	9.2
67.5°	4293.8	2286.4	42.5	26.8	19.4	16.6	15.7	12.9	9.2	7.4	6.5
70°	3034.7	1565.8	33.3	20.3	14.8	12.9	12.0	10.2	7.4	5.5	4.6
72.5°	1665.6	789.9	24.0	14.8	11.1	10.2	9.2	8.3	6.5	4.6	4.6
75°	641.1	217.1	17.6	10.2	7.4	7.4	6.5	6.5	5.5	3.7	3.7
77.5°	167.2	64.7	11.1	6.5	4.6	4.6	4.6	3.7	3.7	2.8	2.8
80°	53.6	21.2	6.5	4.6	3.7	2.8	2.8	1.8	2.8	1.8	1.8
82.5°	17.6	7.4	3.7	3.7	2.8	1.8	1.8	0.9	0.9	0.0	0.0
85°	6.5	3.7	2.8	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0
87.5°	3.7	1.8	1.8	1.8	1.8	0.9	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)