

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: P631569

Luminaire Tested: GWS-SA1F-830-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6697.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

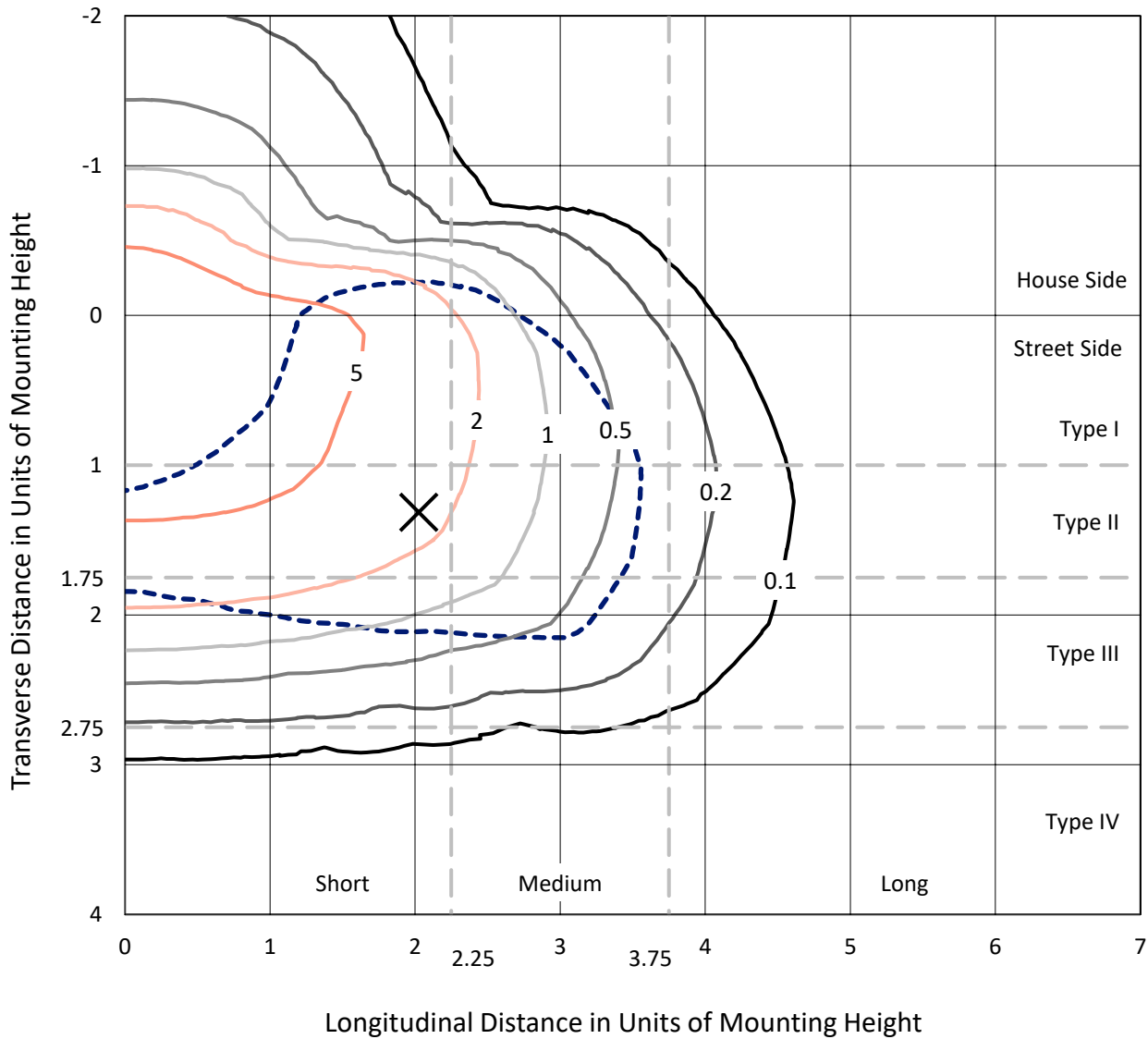
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

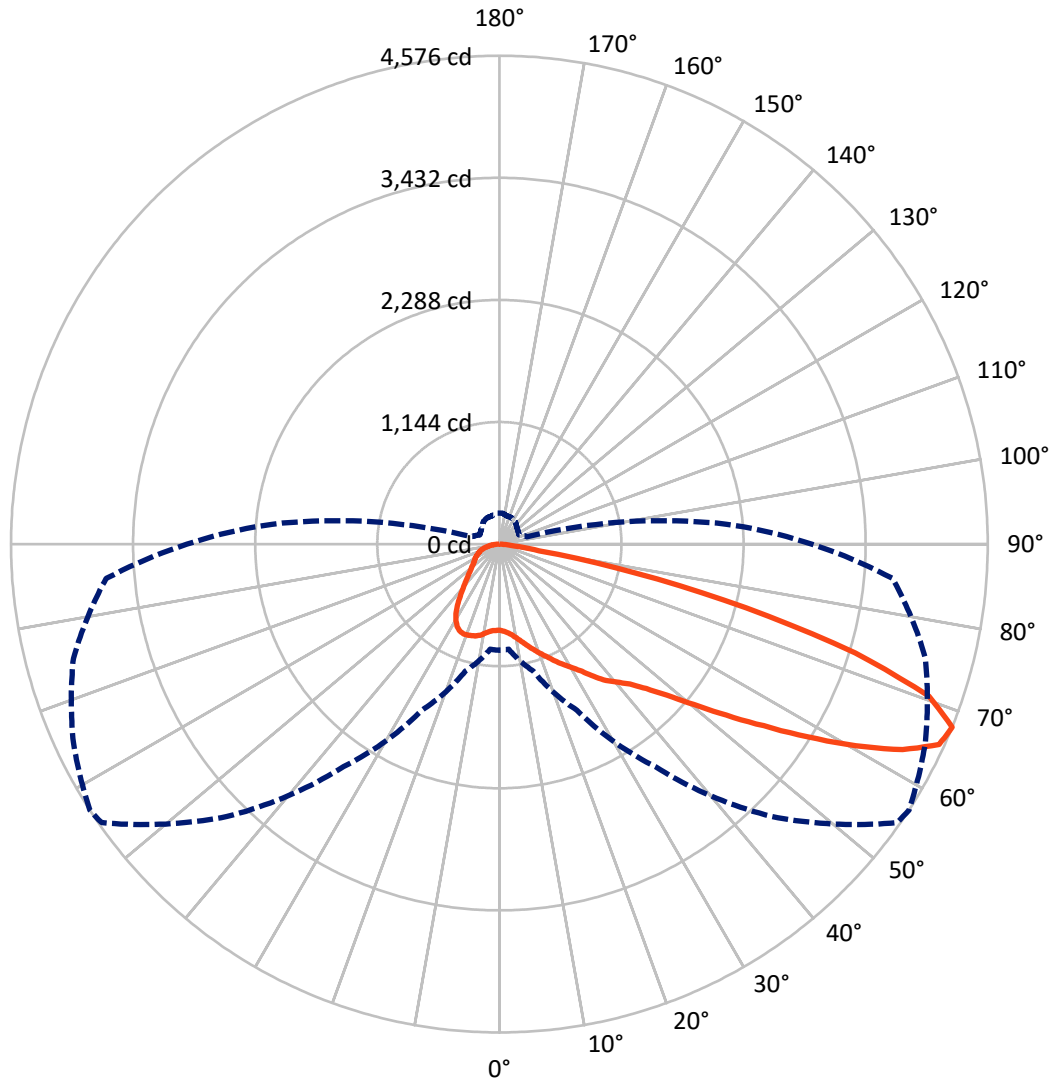
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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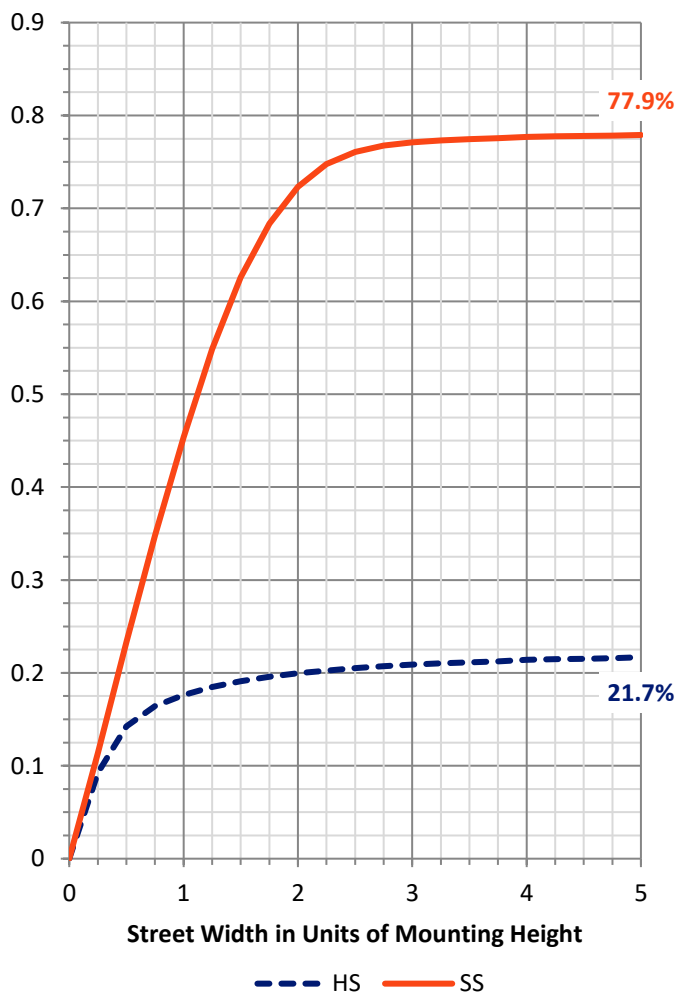
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1472.5	0.0	1472.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5224.7	0.0	5224.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	6697.2	0.0	6697.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.2
10°-20°	265.0	4.0
20°-30°	472.4	7.1
30°-40°	686.8	10.3
40°-50°	994.0	14.8
50°-60°	1555.5	23.2
60°-70°	1814.6	27.1
70°-80°	757.5	11.3
80°-90°	71.5	1.1
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°	6697.2	100.0
0°-180°	6697.2	100.0

Coefficient of Utilization



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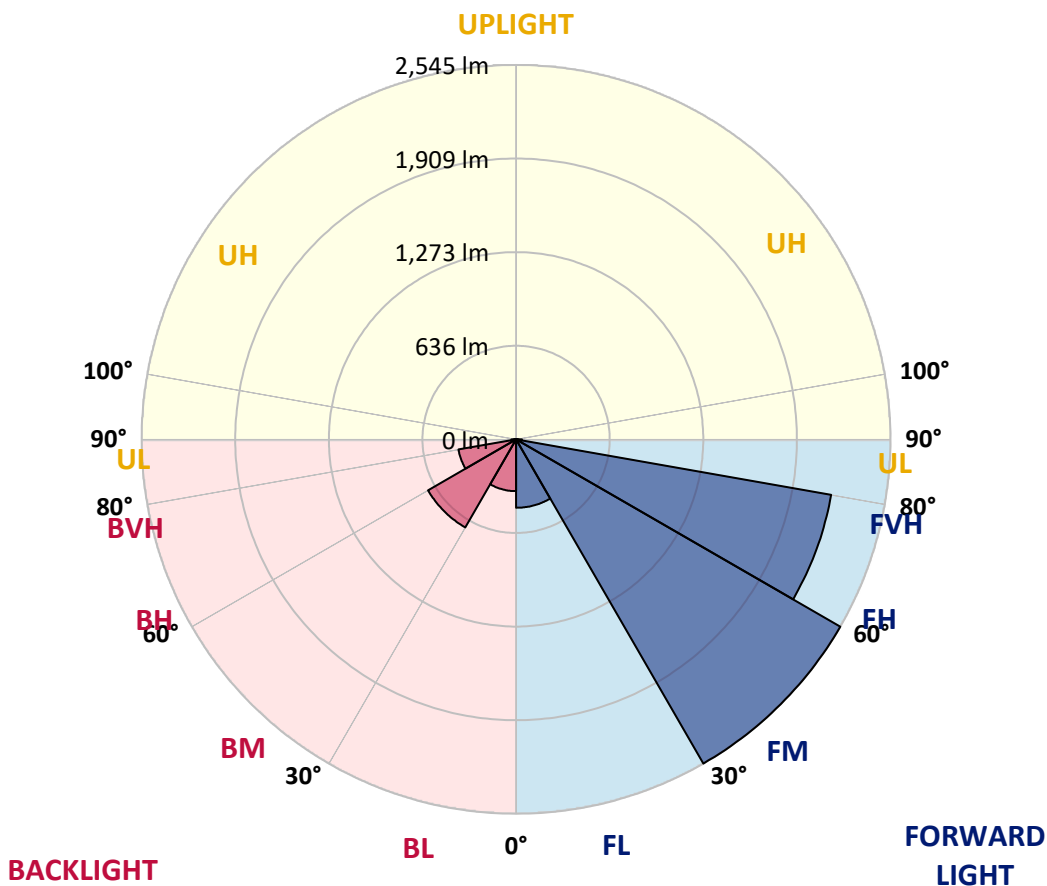
CATALOG NUMBER: GWS-SA1F-830-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	465.2	6.9			
FM (30°-60°)	2545.0	38.0			
FH (60°-80°)	2174.7	32.5			G2/5000
FVH (80°-90°)	39.8	0.6			G1/100
BL (0°-30°)	352.2	5.3	B1/500		
BM (30°-60°)	691.2	10.3	B1/1000		
BH (60°-80°)	397.4	5.9	B1/500		G1/500
BVH (80°-90°)	31.7	0.5			G1/100
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°	57°	65°	75°	85°
0°	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0
2.5°	818.5	817.5	817.0	819.9	819.0	818.5	818.5	818.0	817.0	813.2	807.9
5°	841.0	839.1	837.2	839.6	837.7	835.8	835.3	834.3	831.0	825.2	817.0
7.5°	864.5	862.6	863.1	864.5	863.1	862.1	860.7	859.7	854.5	845.3	834.3
10°	897.6	897.6	898.6	900.0	900.5	899.1	896.2	894.8	888.5	877.0	861.7
12.5°	945.6	944.7	944.7	943.7	945.1	943.7	940.8	938.4	930.7	915.9	893.8
15°	1008.9	1005.1	1001.8	995.5	993.6	988.3	989.3	987.8	980.6	960.5	932.7
17.5°	1076.6	1076.1	1070.8	1058.4	1045.9	1037.3	1039.2	1038.7	1034.9	1007.5	972.0
20°	1136.1	1138.5	1133.7	1124.1	1107.3	1091.0	1090.0	1092.4	1087.6	1060.3	1010.9
22.5°	1202.8	1200.9	1196.1	1183.6	1171.1	1153.8	1148.1	1146.2	1144.2	1113.1	1050.7
25°	1266.1	1271.9	1265.6	1254.1	1234.9	1216.2	1211.4	1213.3	1208.1	1166.8	1093.4
27.5°	1346.2	1348.6	1344.8	1329.0	1312.6	1286.3	1277.1	1277.1	1275.2	1217.2	1127.0
30°	1431.6	1438.3	1431.6	1418.7	1401.9	1364.0	1344.3	1342.4	1336.6	1269.0	1166.3
32.5°	1517.5	1522.3	1517.5	1505.0	1485.8	1452.7	1424.4	1420.1	1412.4	1325.6	1206.6
35°	1593.8	1598.1	1597.1	1600.0	1584.2	1542.4	1525.2	1523.3	1503.1	1399.5	1261.3
37.5°	1677.3	1682.5	1675.3	1681.1	1674.9	1635.5	1630.2	1620.7	1591.9	1469.0	1318.9
40°	1772.3	1777.1	1765.5	1767.9	1760.7	1738.7	1711.8	1698.9	1656.2	1544.4	1409.6
42.5°	1874.0	1885.0	1890.3	1886.0	1869.2	1856.7	1809.7	1793.4	1757.9	1680.1	1558.8
45°	2021.3	2037.6	2045.2	2034.2	2027.0	2009.3	1951.7	1932.0	1913.3	1871.6	1767.0
47.5°	2180.1	2194.9	2219.4	2224.2	2230.0	2216.5	2135.4	2116.2	2119.6	2114.8	2023.2
50°	2306.7	2319.2	2374.4	2433.4	2482.3	2486.1	2382.5	2361.9	2380.1	2395.5	2331.7
52.5°	2398.8	2409.9	2482.8	2604.7	2715.5	2797.5	2685.7	2662.2	2677.1	2711.6	2682.4
55°	2473.7	2489.0	2565.3	2752.4	2976.5	3106.0	3034.5	3004.8	2998.5	3041.2	3058.0
57.5°	2513.0	2517.8	2624.8	2868.0	3167.9	3408.7	3439.9	3406.3	3346.9	3370.4	3457.7
60°	2423.3	2431.5	2577.8	2897.8	3319.0	3709.1	3865.5	3837.7	3711.0	3723.9	3820.4
62.5°	2175.3	2186.8	2362.8	2756.3	3331.5	3909.6	4258.4	4240.7	4070.8	4000.8	4029.6
65°	1744.9	1748.7	1931.1	2406.0	3083.5	3934.6	4532.4	4528.0	4322.2	4158.1	4034.8
67.5°	995.0	988.3	1232.0	1716.1	2544.7	3610.2	4550.1	4575.5	4403.8	4132.2	3699.0
70°	431.3	432.3	544.5	846.8	1647.0	2917.9	4226.3	4269.9	4167.7	3700.9	2942.9
72.5°	199.6	202.5	250.9	366.5	703.3	1810.2	3446.2	3485.5	3397.7	2962.1	2141.2
75°	141.1	143.5	167.4	210.1	323.4	705.3	2305.3	2387.8	2430.5	2215.6	1411.0
77.5°	107.0	110.3	122.3	145.8	199.6	250.0	1103.0	1299.7	1548.2	1378.4	726.8
80°	68.1	68.1	81.1	97.4	121.9	130.0	318.6	377.6	757.6	568.0	285.5
82.5°	46.1	47.5	55.2	61.9	70.0	73.9	136.7	145.8	218.8	193.3	117.5
85°	24.5	25.4	28.8	28.3	33.6	29.3	57.6	57.1	80.1	87.8	44.6
87.5°	0.0	0.0	0.5	0.5	1.0	1.4	6.2	6.7	16.8	26.9	14.9
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0	807.0
2.5°	810.8	805.0	807.9	807.0	809.8	809.8	804.6	803.1	803.6	797.9	795.9
5°	818.0	811.3	812.7	810.8	813.7	816.1	813.7	813.7	816.6	812.2	809.8
7.5°	834.3	826.6	826.6	824.2	827.6	829.5	827.6	830.5	835.8	831.4	829.0
10°	860.2	851.1	851.6	848.7	850.1	849.2	841.5	839.1	840.6	836.7	834.8
12.5°	893.8	881.3	881.3	875.6	872.2	862.1	846.3	840.6	841.5	838.2	836.7
15°	925.9	914.4	912.0	900.5	885.2	866.5	852.1	848.2	849.2	845.8	843.4
17.5°	963.9	949.0	940.3	919.2	890.9	871.7	857.3	848.2	840.6	832.9	831.0
20°	998.9	980.2	964.3	931.7	897.2	870.8	843.9	821.4	802.6	792.6	790.2
22.5°	1034.9	1010.9	983.0	940.3	896.7	853.5	804.1	770.0	742.2	727.3	730.2
25°	1068.9	1038.7	1000.8	948.5	881.3	815.1	748.0	697.1	665.4	653.9	650.6
27.5°	1097.2	1059.8	1017.1	944.7	849.7	759.9	671.2	614.6	583.9	570.9	567.6
30°	1128.9	1086.7	1040.6	926.9	799.8	682.7	584.4	538.3	516.2	503.8	504.2
32.5°	1165.4	1121.2	1073.7	892.8	736.0	599.2	512.9	481.2	463.5	451.0	449.1
35°	1214.3	1170.6	1095.8	841.5	654.9	522.5	463.9	438.0	416.0	399.6	396.3
37.5°	1274.7	1245.0	1098.2	772.9	568.0	469.7	428.9	401.1	374.2	352.6	350.2
40°	1378.4	1344.3	1078.5	687.0	494.2	435.6	399.6	367.5	336.3	312.3	309.0
42.5°	1526.1	1456.1	1036.3	590.1	438.5	408.8	371.8	331.0	299.4	282.6	280.2
45°	1714.2	1580.8	973.0	499.0	397.2	382.4	342.6	299.9	283.1	271.1	268.7
47.5°	1944.5	1726.2	900.0	428.0	365.1	358.4	312.8	289.3	274.4	264.4	262.0
50°	2219.9	1911.4	840.1	372.3	336.3	330.6	303.2	283.1	271.1	262.9	261.0
52.5°	2534.1	2117.2	810.8	332.5	311.4	305.6	299.9	281.6	271.5	265.3	262.9
55°	2860.4	2334.1	783.5	301.8	290.3	293.6	300.3	286.4	278.7	270.6	268.2
57.5°	3175.6	2537.5	716.3	277.8	274.9	287.9	302.7	291.2	282.1	273.9	271.1
60°	3392.9	2648.8	602.6	258.6	263.4	280.7	296.5	284.0	272.5	269.1	267.7
62.5°	3451.4	2635.4	467.8	238.9	249.5	264.8	280.2	272.0	260.0	265.3	265.8
65°	3314.7	2491.4	351.2	219.7	231.2	244.2	263.4	260.0	255.7	270.1	270.6
67.5°	2927.5	2137.8	267.7	202.9	212.5	228.4	258.1	272.0	273.0	291.2	289.3
70°	2215.1	1597.1	209.7	187.1	198.1	228.4	274.9	281.1	269.6	286.4	282.6
72.5°	1531.4	1054.0	178.5	173.2	180.4	217.8	274.4	274.4	262.0	262.0	254.8
75°	951.4	619.9	155.4	155.4	155.4	190.5	266.8	252.8	230.8	220.7	214.9
77.5°	469.7	301.3	130.5	135.3	130.0	159.3	217.8	206.8	193.3	182.8	179.0
80°	200.5	150.6	105.5	110.8	104.6	119.9	172.7	170.3	157.4	143.5	139.1
82.5°	92.1	77.7	84.4	86.8	76.3	90.2	126.2	126.2	119.0	99.8	92.6
85°	39.3	41.3	58.5	58.5	48.0	50.9	67.6	64.3	57.6	47.0	43.2
87.5°	13.4	20.2	29.7	25.9	10.1	4.3	2.4	1.0	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)