

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: P631561

Luminaire Tested: GWS-SA1F-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6640.1 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

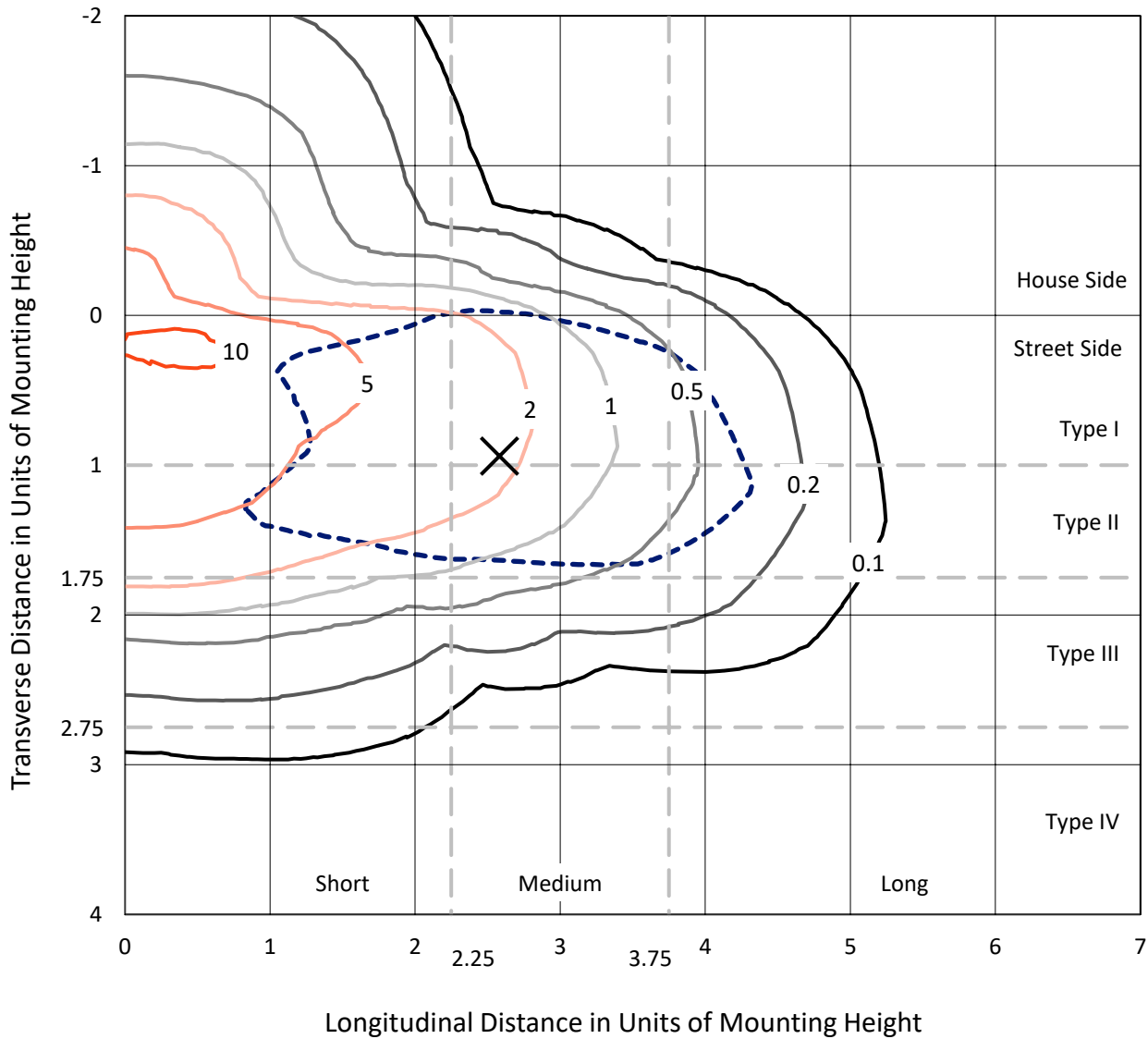
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

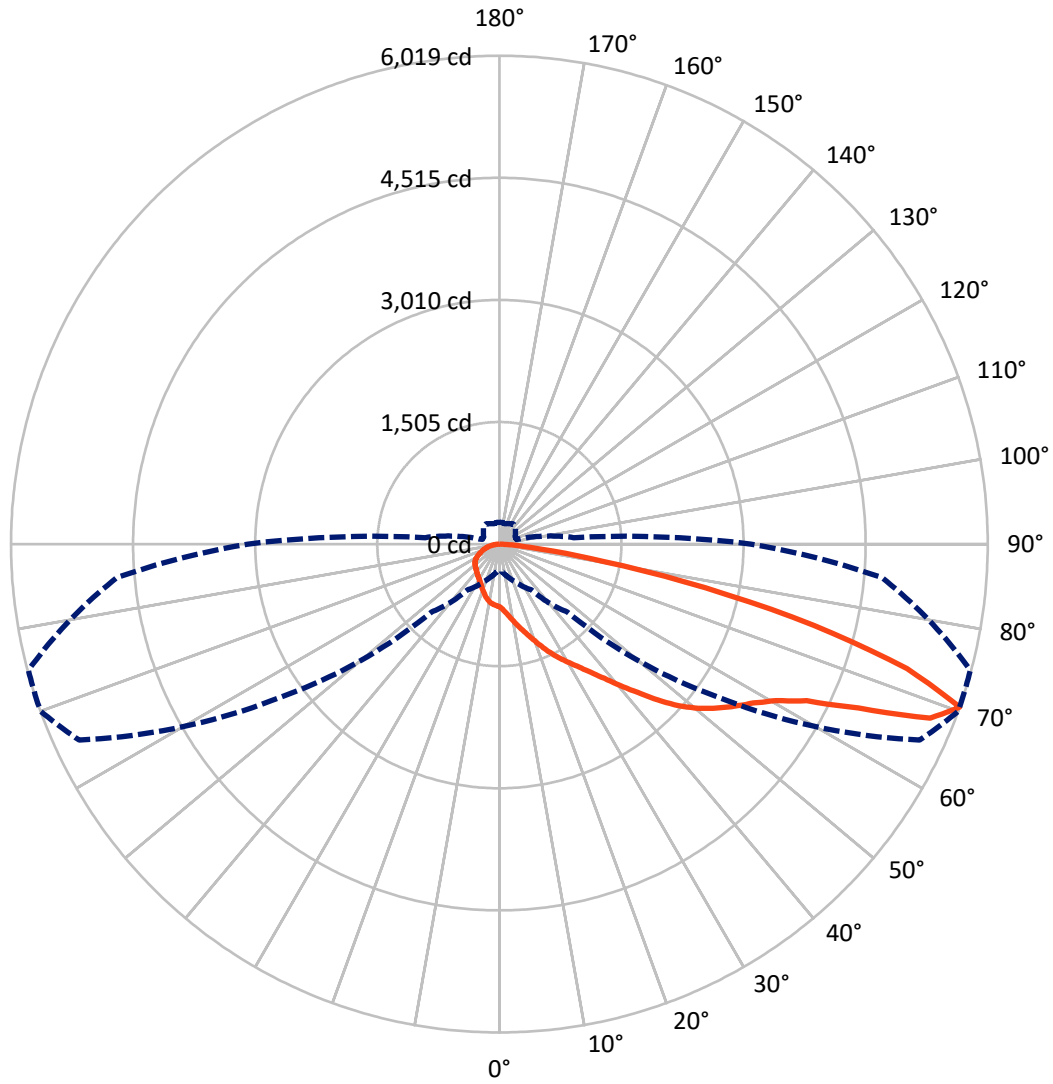
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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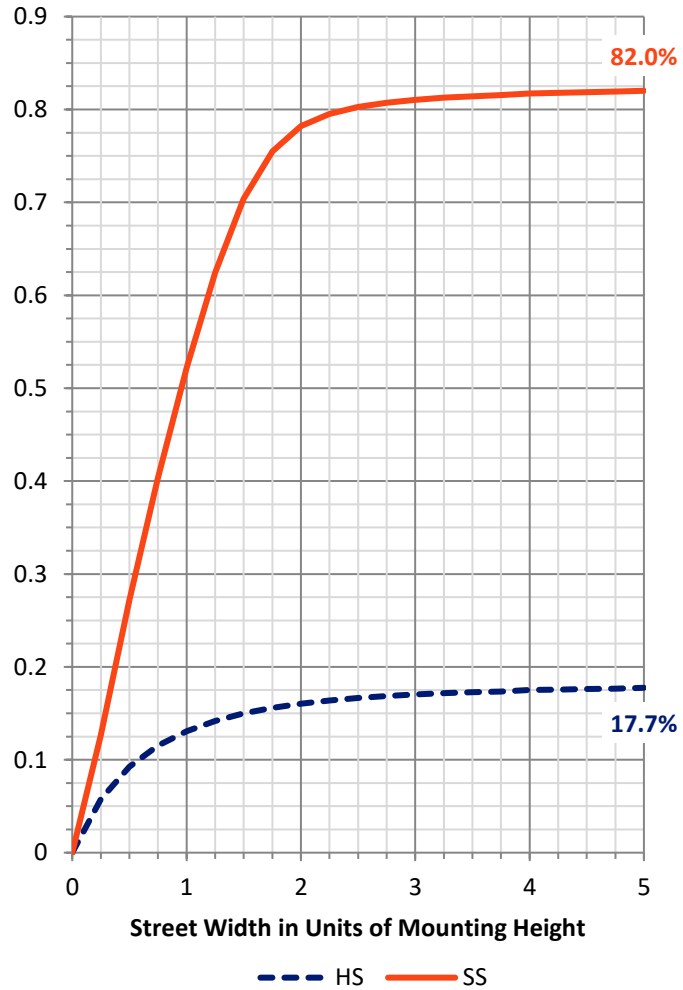
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.9	0.0	1189.9
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	5450.2	0.0	5450.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	6640.1	0.0	6640.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	1.2
10°-20°	256.0	3.9
20°-30°	453.6	6.8
30°-40°	682.6	10.3
40°-50°	1032.7	15.6
50°-60°	1479.5	22.3
60°-70°	1635.4	24.6
70°-80°	922.9	13.9
80°-90°	98.7	1.5
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°	6640.1	100.0
0°-180°	6640.1	100.0

Coefficient of Utilization



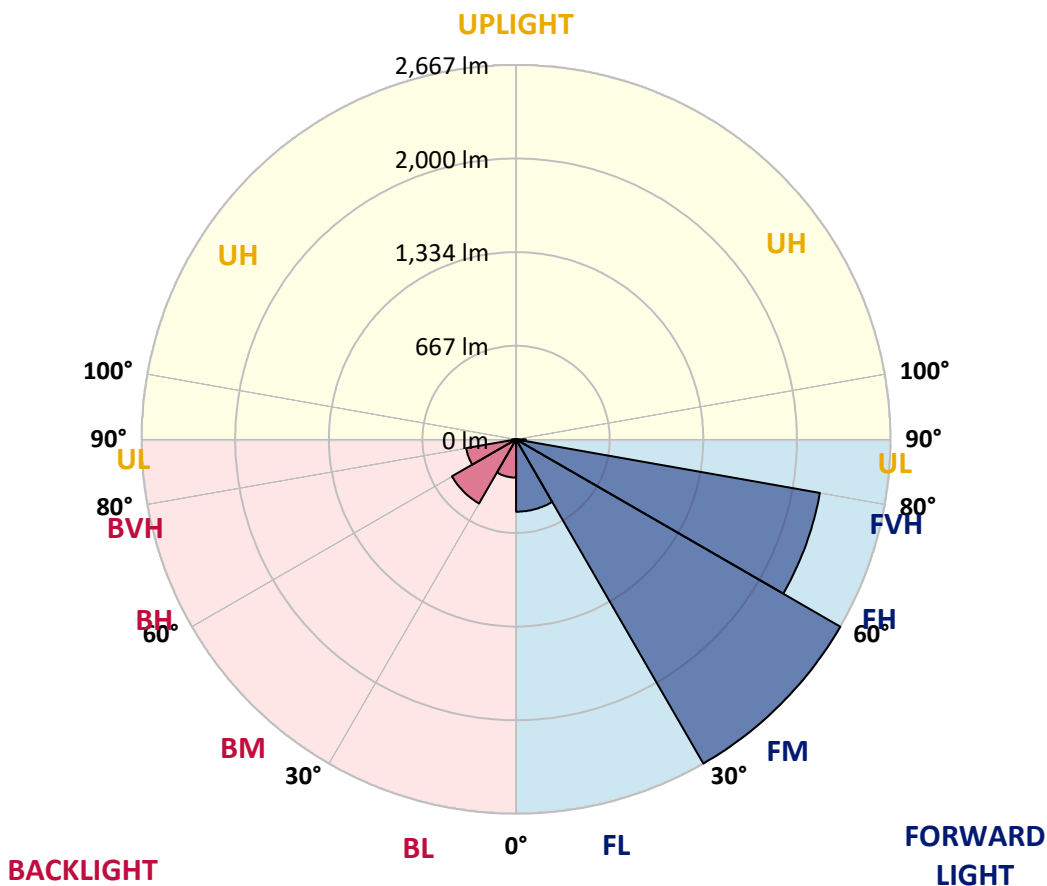
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.5	7.8			
FM (30°-60°)	2667.3	40.2			
FH (60°-80°)	2197.6	33.1			G2/5000
FVH (80°-90°)	69.8	1.1			G1/100
BL (0°-30°)	272.8	4.1	B1/500		
BM (30°-60°)	527.5	7.9	B1/1000		
BH (60°-80°)	360.7	5.4	B1/500		G1/500
BVH (80°-90°)	28.9	0.4			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	857.9	856.4	857.4	856.4	851.1	838.2	827.6	814.2	805.1	799.8	787.3
5°	958.6	957.2	953.8	949.0	939.4	921.7	895.3	866.0	848.3	834.8	808.4
7.5°	1031.1	1031.1	1030.6	1024.8	1018.1	999.4	968.2	929.8	903.9	880.9	837.7
10°	1068.0	1070.4	1073.8	1081.9	1080.5	1070.4	1041.1	999.9	967.2	940.4	876.1
12.5°	1088.2	1089.6	1095.3	1112.1	1129.4	1131.8	1114.5	1071.4	1035.9	999.9	918.8
15°	1114.1	1114.5	1122.2	1142.4	1167.8	1193.2	1188.9	1145.7	1109.3	1069.4	966.3
17.5°	1134.2	1137.6	1151.5	1175.0	1206.7	1241.7	1262.8	1235.9	1190.8	1145.2	1018.1
20°	1141.4	1143.8	1162.0	1198.0	1241.2	1290.6	1337.6	1330.4	1284.9	1231.1	1076.6
22.5°	1167.3	1167.3	1180.8	1211.0	1261.8	1333.8	1410.1	1428.8	1388.5	1325.6	1139.5
25°	1224.4	1222.5	1228.7	1241.2	1279.6	1368.3	1481.6	1537.7	1492.6	1422.1	1202.3
27.5°	1302.6	1301.7	1301.2	1303.1	1316.1	1398.6	1542.0	1639.4	1594.3	1514.7	1258.5
30°	1387.5	1384.7	1390.9	1385.1	1382.3	1434.6	1593.4	1730.6	1695.6	1606.3	1305.0
32.5°	1503.2	1497.9	1496.4	1477.7	1466.2	1490.7	1634.6	1834.2	1806.4	1705.2	1357.3
35°	1655.7	1650.9	1626.5	1596.7	1562.7	1574.2	1686.0	1935.5	1937.4	1828.9	1425.9
37.5°	1809.7	1810.7	1791.5	1721.5	1686.4	1679.7	1764.2	2058.8	2100.0	1976.7	1514.7
40°	1937.9	1943.6	1943.6	1869.7	1817.4	1811.2	1874.0	2205.1	2287.1	2158.1	1627.0
42.5°	2035.2	2040.5	2057.3	2004.1	1948.9	1970.5	2007.4	2351.9	2499.2	2382.1	1769.0
45°	2142.2	2146.6	2155.7	2125.0	2092.8	2150.4	2158.6	2527.5	2742.0	2633.5	1934.0
47.5°	2284.3	2280.4	2281.4	2258.8	2233.9	2327.0	2325.0	2675.3	2976.6	2908.9	2113.0
50°	2460.8	2468.0	2461.3	2416.7	2387.4	2472.3	2483.4	2838.9	3182.9	3181.5	2293.4
52.5°	2630.7	2633.5	2669.0	2671.0	2611.0	2593.2	2622.0	3003.9	3357.1	3430.9	2466.6
55°	2639.3	2650.3	2756.8	2833.6	2930.5	2788.0	2762.1	3161.3	3525.5	3675.2	2646.5
57.5°	2455.5	2473.3	2654.2	2819.7	3089.3	3122.4	3002.0	3364.7	3693.9	3915.5	2854.7
60°	2063.1	2100.0	2345.7	2599.0	3017.8	3362.8	3492.8	3641.1	3915.0	4161.2	3107.6
62.5°	1317.5	1331.9	1676.4	2100.5	2695.9	3339.3	4027.3	4128.1	4251.9	4481.2	3497.2
65°	659.7	705.8	907.8	1253.7	1944.1	2942.5	4297.4	5020.0	4868.4	5029.1	4128.6
67.5°	447.6	462.5	564.7	753.3	1140.0	2084.7	4130.0	5771.3	5726.7	5753.1	4801.7
70°	330.1	339.7	420.3	533.5	689.5	1183.6	3288.0	5714.7	6019.4	6009.8	4731.2
72.5°	240.9	245.6	306.6	407.3	511.0	612.2	2007.9	4616.5	5254.6	5531.4	4137.7
75°	175.1	180.9	213.0	304.7	397.3	381.9	991.2	3334.5	4007.2	4539.7	3371.0
77.5°	130.5	137.7	152.6	191.0	278.3	273.5	428.4	2165.3	2591.8	2965.1	2047.7
80°	94.0	95.5	104.1	122.3	176.6	160.2	203.9	1128.9	1294.5	1418.2	802.7
82.5°	57.1	58.5	69.6	75.3	109.4	100.8	106.0	365.6	523.9	556.1	299.9
85°	16.8	17.8	31.7	34.5	45.6	43.2	42.7	148.7	177.5	226.9	118.0
87.5°	0.0	0.0	0.0	0.0	0.5	2.9	5.3	26.4	39.8	55.2	28.8
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°	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4	774.4
2.5°	782.5	771.5	765.7	755.7	748.5	741.3	734.1	727.4	724.5	720.2	721.1
5°	796.4	779.2	761.9	742.2	725.4	711.5	699.0	688.0	683.2	678.9	680.8
7.5°	817.6	791.6	758.5	722.6	696.2	677.0	664.0	656.3	653.9	650.6	650.6
10°	844.4	805.6	747.5	696.2	664.5	649.1	643.4	642.9	645.3	645.8	644.8
12.5°	874.2	819.0	731.2	665.0	638.1	633.3	637.6	645.8	653.9	658.3	657.3
15°	904.9	827.6	703.4	635.2	618.9	625.2	639.1	655.4	671.2	679.4	678.9
17.5°	933.7	829.5	667.4	606.4	602.1	618.0	642.0	667.4	689.0	700.5	701.0
20°	965.8	826.2	630.4	580.5	585.3	611.2	642.9	673.6	699.0	710.6	713.4
22.5°	995.1	814.7	594.5	556.1	570.9	603.1	635.2	664.0	686.6	697.6	701.4
25°	1021.5	792.6	555.1	535.4	559.9	591.6	616.0	636.2	652.0	658.7	664.0
27.5°	1035.9	759.5	525.4	519.1	549.4	575.3	588.7	594.9	600.2	598.3	602.1
30°	1038.7	718.2	499.5	506.2	533.5	552.7	555.6	549.4	540.2	525.4	528.7
32.5°	1035.9	670.7	477.9	492.3	515.8	527.3	523.4	507.1	485.1	462.0	463.5
35°	1036.8	622.8	460.1	476.9	495.1	501.4	491.8	469.2	445.7	424.6	423.7
37.5°	1047.4	582.5	445.2	462.0	475.0	475.9	465.4	441.9	429.9	414.1	412.1
40°	1076.6	552.7	431.8	447.2	455.3	454.8	442.8	426.0	434.2	428.9	427.5
42.5°	1124.6	534.5	420.8	431.3	437.1	438.0	428.4	417.9	435.6	428.9	426.5
45°	1201.9	533.5	413.1	415.5	424.6	431.3	424.6	412.6	419.3	386.7	380.5
47.5°	1293.5	549.8	407.3	401.6	417.4	429.4	418.9	399.7	385.7	356.0	351.7
50°	1403.9	582.9	402.1	386.7	406.9	422.2	411.7	385.3	364.2	348.3	345.9
52.5°	1534.8	626.6	395.3	369.9	391.0	418.4	411.7	383.8	356.0	341.6	339.2
55°	1672.1	677.0	387.7	349.8	373.3	419.3	415.0	373.8	349.8	342.1	340.2
57.5°	1842.4	737.4	373.8	326.3	357.4	410.7	401.6	368.0	345.4	339.2	337.3
60°	2063.6	827.1	347.4	302.3	339.2	395.3	389.6	358.4	333.9	328.7	327.2
62.5°	2413.8	979.2	315.2	279.2	317.6	363.2	371.8	340.2	319.5	319.1	318.6
65°	2984.7	1162.0	277.3	258.6	295.1	336.8	348.3	321.5	304.7	309.9	309.5
67.5°	3384.9	1177.9	246.1	237.0	268.7	308.0	324.8	302.3	284.0	294.1	293.6
70°	3100.4	918.8	219.3	214.5	240.4	276.8	299.4	278.3	260.0	269.6	267.7
72.5°	2614.8	704.3	193.8	191.0	211.6	244.2	266.8	254.3	235.1	235.1	230.8
75°	2101.5	581.0	167.0	165.5	179.4	211.1	236.5	215.4	197.7	196.7	193.8
77.5°	1205.2	380.9	140.1	139.1	143.5	176.6	183.8	179.4	166.0	159.8	157.8
80°	480.3	198.2	110.4	104.1	108.4	129.5	144.9	137.7	126.2	118.5	114.2
82.5°	186.2	99.3	77.7	68.1	74.4	93.6	105.1	102.7	95.0	77.7	72.9
85°	75.8	48.5	46.5	39.3	43.2	50.4	60.5	52.3	43.2	30.7	29.3
87.5°	20.2	17.8	17.3	10.6	8.2	2.4	0.5	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)