

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: P631575

Luminaire Tested: GWS-SA1F-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6464.5 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

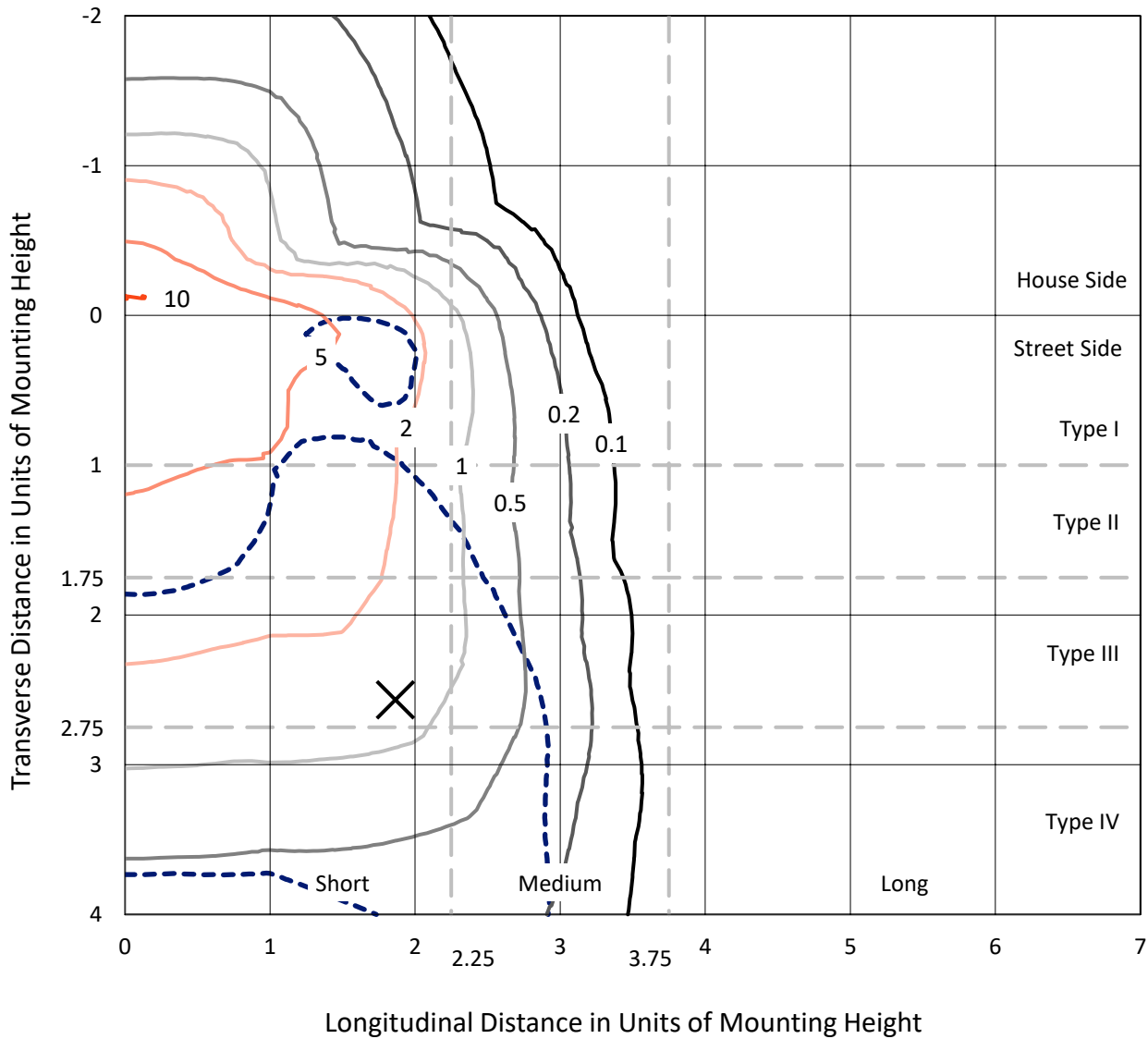
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

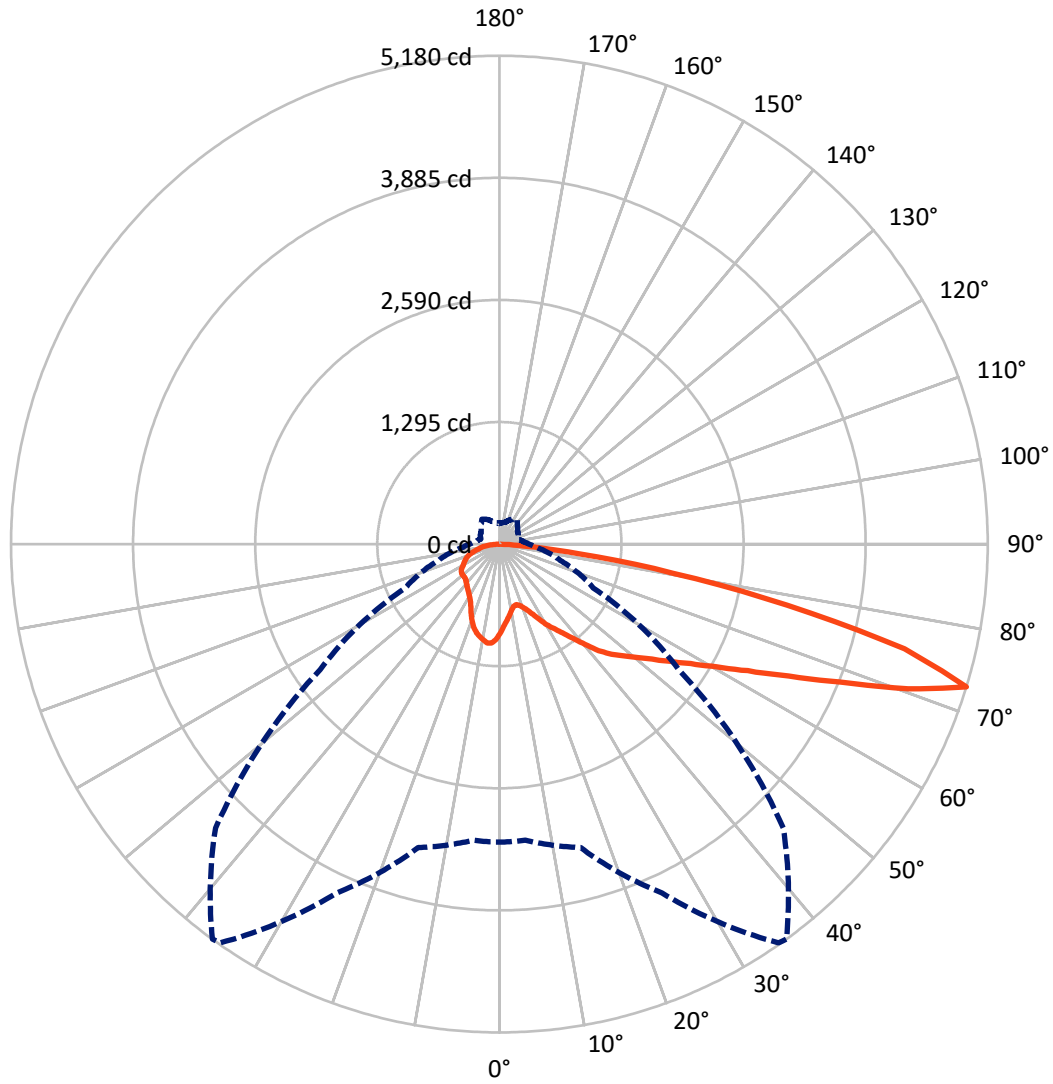
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1490.3	0.0	1490.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	4974.1	0.0	4974.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	6464.5	0.0	6464.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.4
10°-20°	249.5	3.9
20°-30°	413.2	6.4
30°-40°	618.8	9.6
40°-50°	902.8	14.0
50°-60°	1285.0	19.9
60°-70°	1623.5	25.1
70°-80°	1156.9	17.9
80°-90°	126.3	2.0
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°	6464.5	100.0
0°-180°	6464.5	100.0

Coefficient of Utilization



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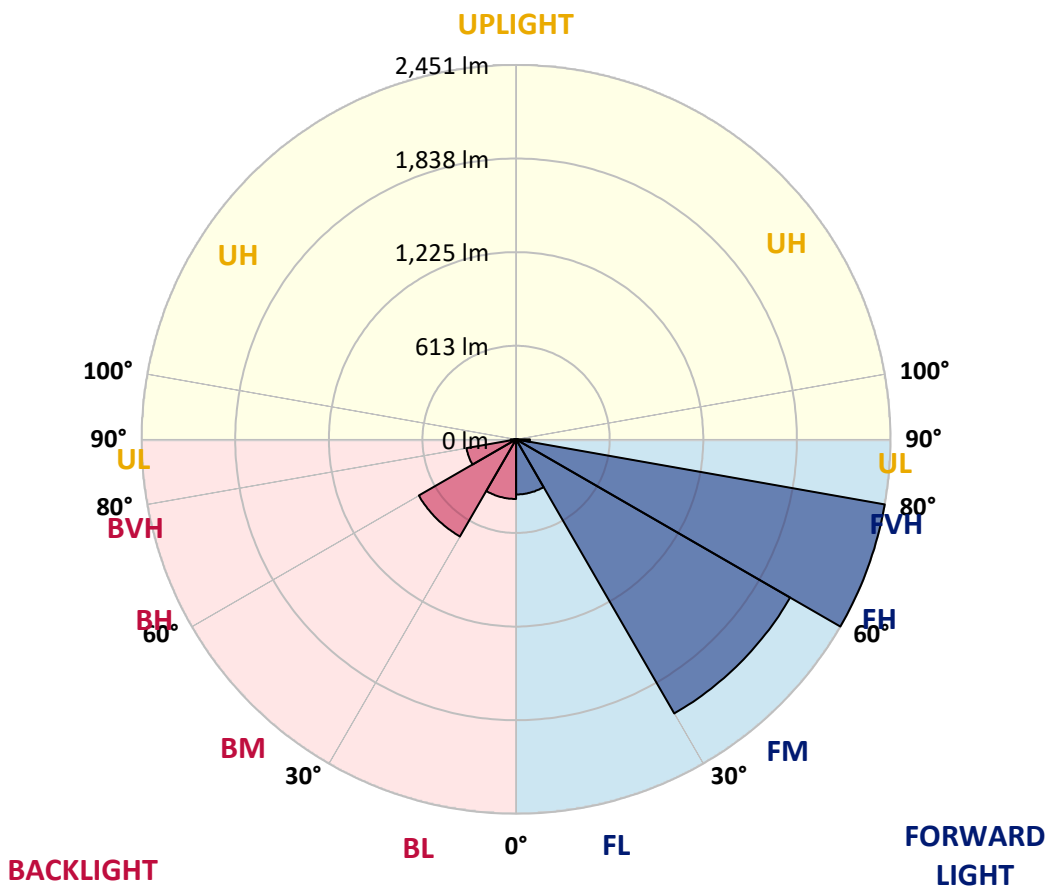
CATALOG NUMBER: GWS-SA1F-830-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.9	5.6			
FM (30°-60°)	2071.7	32.0			
FH (60°-80°)	2450.9	37.9			G2/5000
FVH (80°-90°)	90.6	1.4			G1/100
BL (0°-30°)	390.3	6.0	B1/500		
BM (30°-60°)	734.9	11.4	B1/1000		
BH (60°-80°)	329.5	5.1	B1/500		G1/500
BVH (80°-90°)	35.6	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1
2.5°	863.1	861.7	858.8	867.4	876.1	875.1	887.1	898.6	911.1	924.0	941.3
5°	794.0	793.1	790.7	803.6	816.6	816.1	835.8	854.5	879.9	907.7	942.3
7.5°	724.9	722.5	725.9	742.2	760.4	762.4	789.2	819.9	856.9	898.6	947.5
10°	664.0	663.5	665.0	683.2	710.5	712.5	747.0	789.7	838.6	894.3	959.5
12.5°	648.2	647.2	643.4	652.5	673.1	676.0	713.9	766.2	826.2	896.7	975.9
15°	674.1	671.7	658.2	653.9	664.0	666.4	698.5	752.3	819.0	901.0	996.5
17.5°	718.7	717.3	691.8	674.1	680.8	682.7	706.7	749.9	817.1	909.6	1021.9
20°	783.9	777.7	737.9	711.0	711.0	713.9	728.3	760.4	819.4	920.2	1050.7
22.5°	870.3	857.8	801.7	765.2	755.6	759.5	765.7	786.8	829.5	938.0	1086.7
25°	967.2	955.7	889.0	837.7	824.2	825.7	820.4	824.2	851.6	962.4	1131.3
27.5°	1070.4	1062.7	991.7	926.4	905.3	905.3	886.6	877.5	882.3	990.2	1181.2
30°	1162.5	1151.9	1092.0	1020.5	992.6	992.6	957.1	937.5	926.0	1024.3	1247.9
32.5°	1210.9	1204.7	1164.9	1110.2	1076.1	1070.8	1040.1	1017.1	990.2	1074.7	1338.1
35°	1274.3	1272.8	1248.8	1206.1	1163.0	1155.3	1134.2	1115.9	1069.4	1137.5	1458.0
37.5°	1353.9	1351.5	1347.7	1322.2	1270.4	1269.0	1250.3	1228.2	1167.8	1228.2	1603.4
40°	1443.2	1438.8	1434.0	1433.6	1402.4	1397.1	1395.7	1370.7	1286.3	1337.6	1755.0
42.5°	1566.0	1551.1	1506.0	1526.2	1549.2	1544.4	1562.6	1525.2	1434.0	1467.6	1898.5
45°	1717.1	1680.6	1591.4	1597.2	1655.2	1664.8	1728.1	1719.0	1596.7	1617.8	2049.6
47.5°	1807.8	1776.1	1693.1	1688.3	1760.8	1772.8	1910.4	1927.7	1771.8	1798.7	2236.2
50°	1882.1	1860.1	1791.9	1798.7	1875.4	1887.4	2091.3	2128.3	1936.8	1983.9	2453.1
52.5°	1971.9	1940.2	1887.4	1919.1	2013.1	2027.5	2292.3	2332.2	2085.6	2187.3	2677.6
55°	2022.2	2009.3	2010.2	2058.7	2176.7	2196.4	2503.0	2496.2	2221.8	2361.4	2846.5
57.5°	2138.3	2133.5	2177.7	2195.9	2367.7	2393.1	2713.6	2656.0	2345.6	2496.2	2927.6
60°	2343.2	2331.2	2369.6	2397.4	2603.7	2639.7	2948.7	2812.4	2429.6	2596.5	2900.2
62.5°	2631.1	2616.2	2617.6	2661.8	2919.9	2957.8	3210.1	2942.9	2455.5	2611.9	2727.0
65°	2989.0	2967.4	2942.9	3002.9	3339.7	3371.4	3494.7	3037.9	2393.6	2464.1	2365.3
67.5°	3366.6	3348.8	3320.0	3445.7	3883.3	3902.5	3813.7	3029.8	2197.4	2068.8	1659.0
70°	3388.6	3392.9	3529.2	3984.0	4592.8	4597.6	4115.5	2865.7	1779.5	1341.0	826.6
72.5°	3161.2	3154.0	3331.5	4082.4	5163.8	5180.1	4258.0	2321.6	1099.6	668.8	387.7
75°	2567.7	2580.2	2766.8	3571.9	4425.9	4440.3	3471.1	1368.8	522.5	327.2	248.0
77.5°	1105.4	1175.0	1542.9	2516.4	3169.8	3125.2	1789.1	554.6	278.7	233.2	190.0
80°	319.0	346.4	549.8	1196.5	1899.4	1865.8	708.1	207.7	194.3	175.1	136.3
82.5°	103.2	114.2	201.5	476.4	851.1	850.2	268.7	122.8	127.1	119.0	87.8
85°	28.8	33.1	61.9	144.4	263.4	258.1	77.7	58.1	67.6	68.6	43.7
87.5°	0.0	0.0	0.5	1.0	1.0	1.0	1.9	8.6	19.7	24.9	17.8
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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 CATALOG NUMBER: GWS-SA1F-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1	946.1
2.5°	951.9	950.4	970.1	985.4	999.8	1009.4	1012.3	1014.2	1018.1	1020.0	1018.1
5°	958.6	965.8	998.4	1022.4	1041.6	1053.1	1053.6	1052.6	1055.5	1053.1	1051.7
7.5°	973.0	986.9	1028.1	1053.6	1066.1	1066.5	1055.0	1041.6	1034.9	1029.1	1027.2
10°	992.2	1012.8	1057.9	1074.7	1070.8	1053.1	1027.7	1006.6	994.6	985.9	984.0
12.5°	1018.6	1041.6	1084.3	1083.8	1059.8	1028.1	998.4	973.0	955.7	945.6	942.3
15°	1043.5	1072.8	1103.5	1080.9	1043.0	1004.6	966.3	932.2	909.2	893.3	890.5
17.5°	1074.2	1105.4	1117.4	1071.8	1021.9	972.5	921.2	876.5	845.4	826.6	825.2
20°	1109.7	1137.5	1124.1	1056.0	994.6	929.8	860.2	810.3	776.7	758.5	760.0
22.5°	1151.0	1171.1	1126.0	1034.4	956.7	869.3	791.6	743.6	721.1	711.5	712.0
25°	1195.1	1208.1	1122.7	1005.1	898.6	795.5	721.1	699.0	697.1	694.7	695.7
27.5°	1247.4	1244.5	1112.6	963.9	820.4	709.6	671.7	677.4	685.1	684.2	685.1
30°	1317.5	1290.1	1099.6	906.8	727.3	637.6	642.4	658.7	668.8	669.8	672.6
32.5°	1397.6	1340.5	1079.0	829.0	638.6	597.3	615.1	634.7	646.7	649.1	653.0
35°	1493.0	1398.1	1042.5	732.1	574.8	573.3	589.6	603.1	616.0	617.0	617.0
37.5°	1602.9	1455.6	984.5	625.1	535.4	552.7	568.0	570.9	574.3	571.4	572.8
40°	1703.7	1511.3	902.0	527.7	503.3	534.5	547.4	537.8	527.3	520.1	521.5
42.5°	1788.1	1549.2	792.6	459.6	470.7	518.2	528.2	508.6	487.9	474.5	476.4
45°	1883.1	1584.2	664.0	413.6	442.8	506.6	513.4	487.9	461.5	441.4	438.5
47.5°	2014.1	1655.7	549.8	381.4	423.2	500.4	511.4	476.9	442.3	412.1	408.8
50°	2175.8	1756.9	454.3	360.3	414.0	497.0	511.0	464.9	423.6	388.1	385.7
52.5°	2352.3	1855.8	383.8	344.0	404.9	487.0	508.6	451.5	404.0	365.6	362.7
55°	2469.9	1894.6	336.3	328.6	390.1	471.1	499.0	438.5	374.2	339.2	334.9
57.5°	2504.4	1844.7	303.2	314.7	370.9	449.1	480.7	411.2	356.0	328.2	324.8
60°	2444.9	1719.0	282.6	303.2	349.8	420.8	449.1	395.3	341.6	316.6	314.3
62.5°	2277.0	1525.2	266.8	291.2	328.2	391.0	428.9	376.1	325.8	306.1	302.7
65°	1939.2	1250.8	253.8	278.7	307.5	362.7	406.8	356.9	308.5	293.6	289.8
67.5°	1356.3	878.5	239.9	263.9	286.9	335.4	383.8	339.2	290.7	279.7	275.9
70°	663.0	465.9	223.1	246.6	264.8	307.5	360.8	317.6	267.2	261.0	255.7
72.5°	315.7	260.5	203.4	223.1	234.6	270.6	322.4	286.4	239.4	226.0	216.9
75°	211.6	185.2	177.5	195.3	198.1	226.9	276.3	247.1	211.1	195.7	188.1
77.5°	160.2	141.5	149.2	165.0	159.3	186.6	227.4	220.2	190.5	176.6	172.7
80°	112.7	103.2	118.5	128.1	123.8	158.8	204.9	188.6	156.9	141.5	138.7
82.5°	71.0	69.1	87.3	88.8	90.2	125.7	168.4	148.2	121.9	100.3	93.1
85°	35.5	39.3	52.3	52.3	51.8	64.8	96.0	83.5	65.7	52.3	50.9
87.5°	12.0	16.8	22.5	18.2	13.9	11.0	12.5	15.4	16.3	15.8	15.8
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)