

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: P631080

Luminaire Tested: GWS-SA1E-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631080
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-SA1E-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: 5814.4 lumens
Efficiency: N/A
Efficacy: 99.6 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

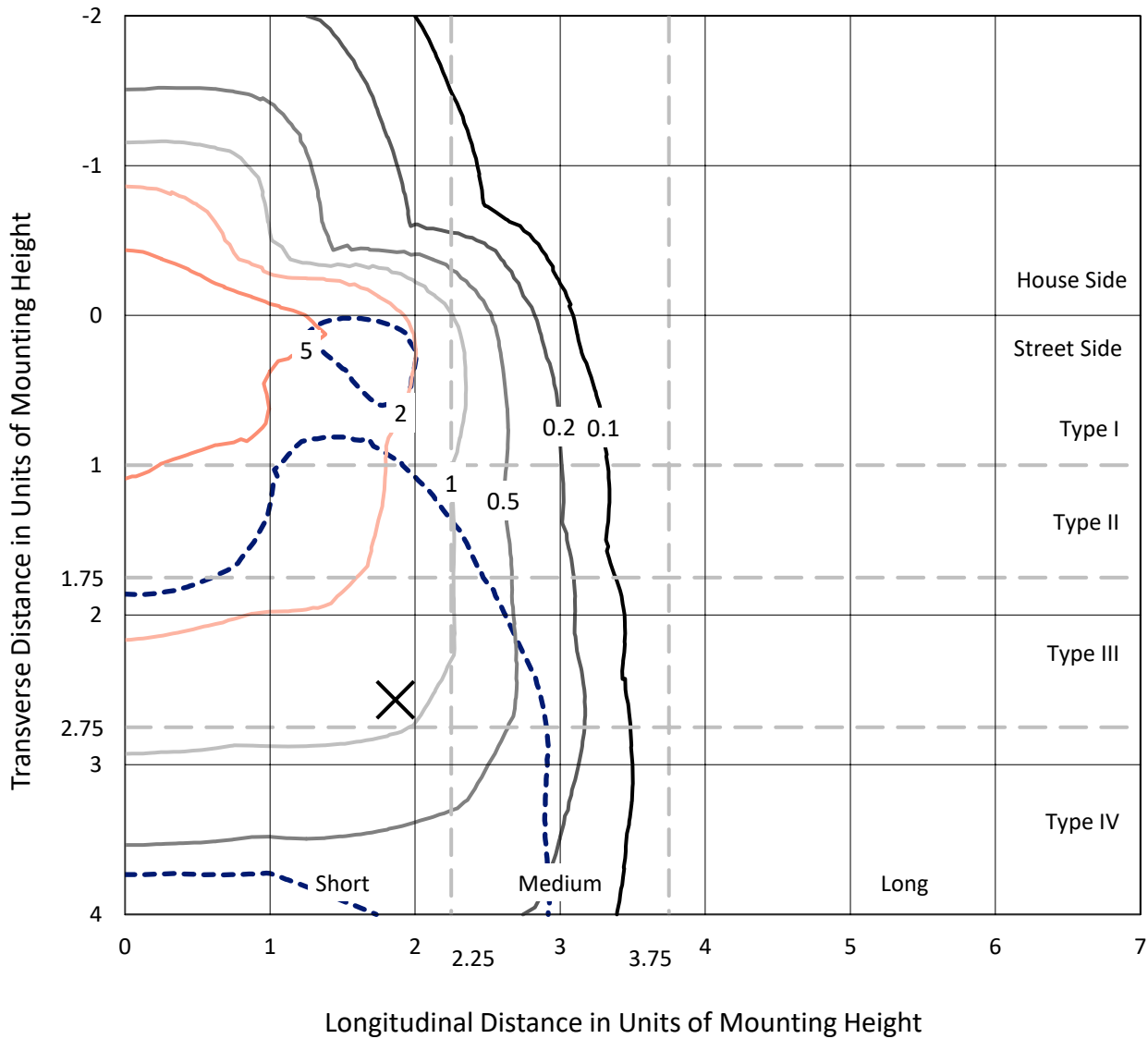
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

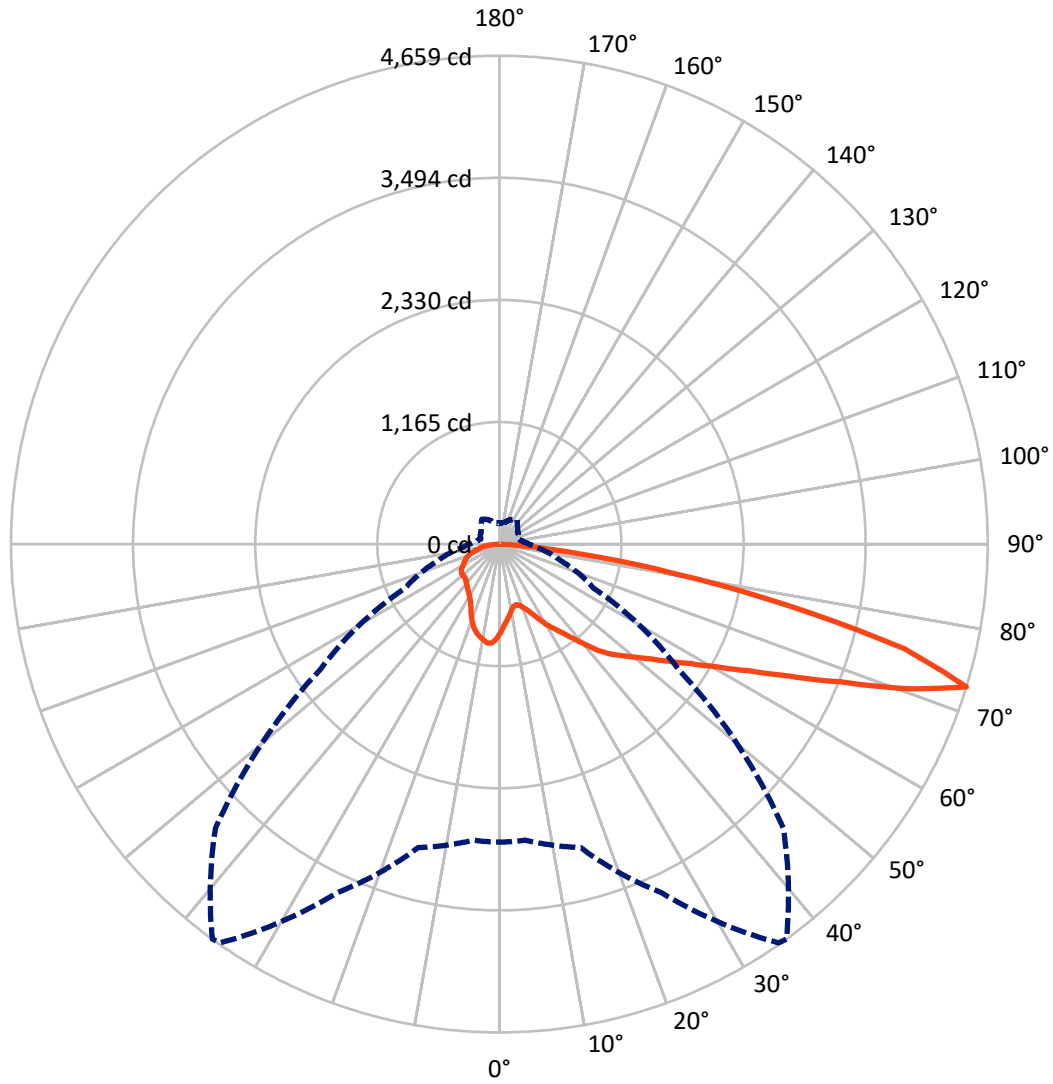
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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	1340.5	0.0	1340.5
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	4473.9	0.0	4473.9
	% Fixture	76.9	0.0	76.9
Total	Lumens	5814.4	0.0	5814.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.4
10°-20°	224.4	3.9
20°-30°	371.7	6.4
30°-40°	556.6	9.6
40°-50°	812.0	14.0
50°-60°	1155.8	19.9
60°-70°	1460.2	25.1
70°-80°	1040.5	17.9
80°-90°	113.6	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°	5814.4	100.0
0°-180°	5814.4	100.0

Coefficient of Utilization



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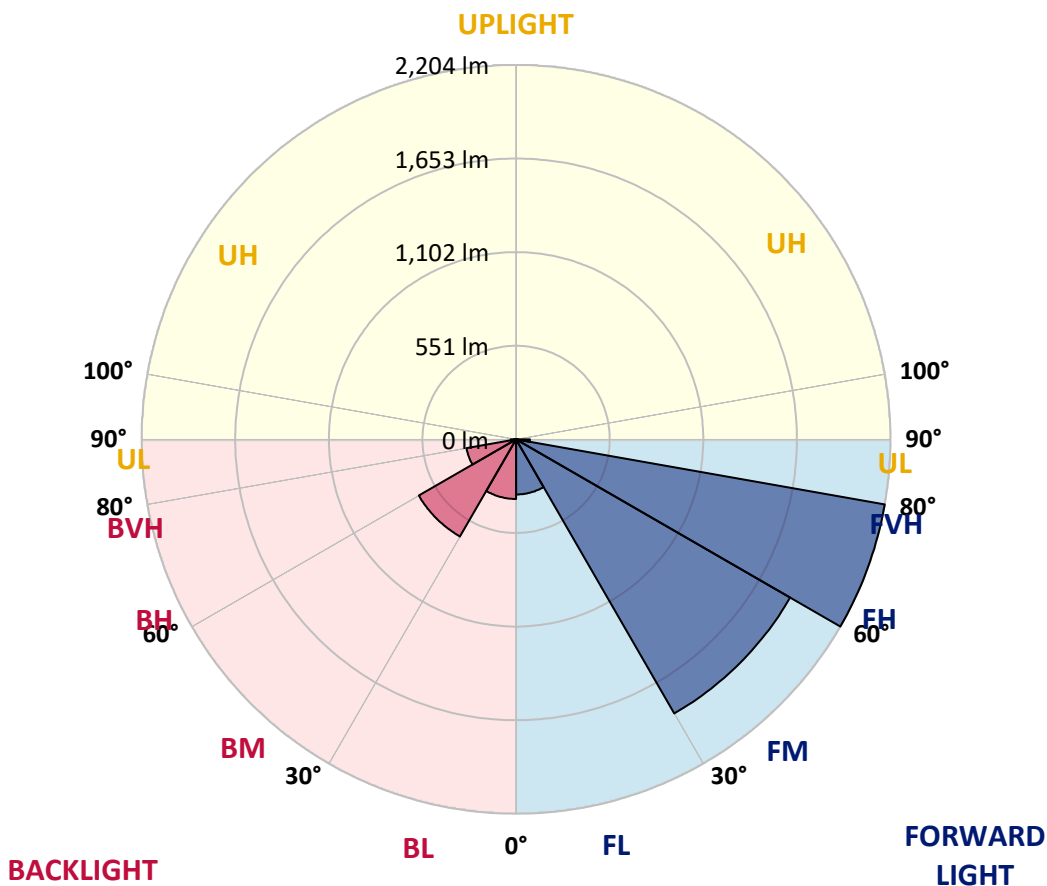
CATALOG NUMBER: GWS-SA1E-830-U-T4FT-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.6	5.6			
FM (30°-60°)	1863.4	32.0			
FH (60°-80°)	2204.4	37.9			G2/5000
FVH (80°-90°)	81.5	1.4			G1/100
BL (0°-30°)	351.0	6.0	B1/500		
BM (30°-60°)	661.0	11.4	B1/1000		
BH (60°-80°)	296.3	5.1	B1/500		G1/500
BVH (80°-90°)	32.1	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°	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0
2.5°	776.3	775.0	772.4	780.2	788.0	787.1	797.9	808.2	819.5	831.1	846.6
5°	714.2	713.3	711.2	722.8	734.5	734.0	751.7	768.5	791.4	816.4	847.5
7.5°	652.0	649.9	652.9	667.6	684.0	685.7	709.9	737.5	770.7	808.2	852.3
10°	597.2	596.8	598.1	614.5	639.1	640.8	671.9	710.3	754.3	804.4	863.0
12.5°	583.0	582.1	578.7	586.9	605.4	608.0	642.1	689.1	743.1	806.5	877.7
15°	606.3	604.1	592.0	588.2	597.2	599.4	628.3	676.6	736.6	810.4	896.3
17.5°	646.4	645.1	622.3	606.3	612.3	614.1	635.6	674.5	734.9	818.2	919.1
20°	705.1	699.5	663.7	639.5	639.5	642.1	655.1	684.0	737.0	827.7	945.0
22.5°	782.8	771.6	721.1	688.3	679.6	683.1	688.7	707.7	746.1	843.6	977.4
25°	870.0	859.6	799.6	753.4	741.4	742.7	737.9	741.4	766.0	865.6	1017.5
27.5°	962.7	955.8	892.0	833.3	814.3	814.3	797.5	789.3	793.6	890.7	1062.4
30°	1045.6	1036.1	982.1	917.8	892.8	892.8	860.9	843.2	832.8	921.3	1122.4
32.5°	1089.2	1083.6	1047.7	998.5	967.9	963.2	935.5	914.8	890.7	966.6	1203.5
35°	1146.1	1144.8	1123.3	1084.8	1046.0	1039.1	1020.1	1003.7	961.9	1023.1	1311.4
37.5°	1217.8	1215.6	1212.1	1189.3	1142.7	1141.4	1124.5	1104.7	1050.3	1104.7	1442.2
40°	1298.0	1294.1	1289.8	1289.4	1261.3	1256.6	1255.3	1232.9	1156.9	1203.1	1578.5
42.5°	1408.5	1395.1	1354.6	1372.7	1393.4	1389.1	1405.5	1371.8	1289.8	1320.0	1707.5
45°	1544.4	1511.6	1431.4	1436.5	1488.8	1497.4	1554.3	1546.1	1436.1	1455.1	1843.5
47.5°	1626.0	1597.5	1522.8	1518.5	1583.7	1594.5	1718.3	1733.9	1593.6	1617.8	2011.3
50°	1692.9	1673.0	1611.7	1617.8	1686.8	1697.6	1881.0	1914.2	1742.1	1784.3	2206.4
52.5°	1773.6	1745.1	1697.6	1726.1	1810.7	1823.6	2061.8	2097.6	1875.8	1967.3	2408.3
55°	1818.9	1807.2	1808.1	1851.7	1957.8	1975.5	2251.3	2245.2	1998.4	2124.0	2560.2
57.5°	1923.3	1919.0	1958.7	1975.1	2129.6	2152.4	2440.7	2388.9	2109.7	2245.2	2633.2
60°	2107.6	2096.8	2131.3	2156.3	2341.9	2374.2	2652.1	2529.6	2185.2	2335.4	2608.6
62.5°	2366.5	2353.1	2354.4	2394.1	2626.2	2660.3	2887.3	2647.0	2208.5	2349.2	2452.8
65°	2688.4	2669.0	2647.0	2700.9	3003.8	3032.3	3143.2	2732.4	2152.9	2216.3	2127.4
67.5°	3028.0	3012.0	2986.1	3099.2	3492.7	3510.0	3430.2	2725.1	1976.4	1860.7	1492.2
70°	3047.8	3051.7	3174.3	3583.4	4131.0	4135.3	3701.6	2577.5	1600.5	1206.1	743.5
72.5°	2843.3	2836.8	2996.5	3671.8	4644.5	4659.2	3829.8	2088.1	989.1	601.5	348.7
75°	2309.5	2320.7	2488.6	3212.7	3980.8	3993.7	3122.1	1231.1	469.9	294.3	223.1
77.5°	994.2	1056.8	1387.8	2263.3	2851.1	2810.9	1609.1	498.8	250.7	209.7	170.9
80°	287.0	311.6	494.5	1076.2	1708.4	1678.2	636.9	186.8	174.8	157.5	122.6
82.5°	92.8	102.7	181.2	428.5	765.5	764.7	241.7	110.5	114.4	107.0	79.0
85°	25.9	29.8	55.7	129.9	236.9	232.2	69.9	52.2	60.8	61.7	39.3
87.5°	0.0	0.0	0.4	0.9	0.9	0.9	1.7	7.8	17.7	22.4	16.0
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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 CATALOG NUMBER: GWS-SA1E-830-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0	851.0
2.5°	856.1	854.8	872.5	886.3	899.3	907.9	910.5	912.2	915.7	917.4	915.7
5°	862.2	868.7	898.0	919.6	936.8	947.2	947.6	946.8	949.4	947.2	945.9
7.5°	875.1	887.6	924.8	947.6	958.8	959.3	948.9	936.8	930.8	925.6	923.9
10°	892.4	910.9	951.5	966.6	963.2	947.2	924.3	905.3	894.5	886.8	885.1
12.5°	916.1	936.8	975.2	974.8	953.2	924.8	898.0	875.1	859.6	850.5	847.5
15°	938.6	964.9	992.5	972.2	938.1	903.6	869.1	838.4	817.7	803.5	800.9
17.5°	966.2	994.2	1005.0	964.0	919.1	874.7	828.5	788.4	760.3	743.5	742.2
20°	998.1	1023.1	1011.1	949.8	894.5	836.3	773.7	728.8	698.6	682.2	683.5
22.5°	1035.2	1053.3	1012.8	930.4	860.5	781.9	712.0	668.9	648.6	639.9	640.4
25°	1074.9	1086.6	1009.8	904.0	808.2	715.5	648.6	628.7	627.0	624.8	625.7
27.5°	1122.0	1119.4	1000.7	866.9	737.9	638.2	604.1	609.3	616.2	615.4	616.2
30°	1185.0	1160.4	989.1	815.6	654.2	573.5	577.8	592.5	601.5	602.4	605.0
32.5°	1257.0	1205.7	970.5	745.7	574.4	537.2	553.2	570.9	581.7	583.9	587.3
35°	1342.9	1257.5	937.7	658.5	517.0	515.7	530.3	542.4	554.1	554.9	554.9
37.5°	1441.7	1309.2	885.5	562.3	481.6	497.1	510.9	513.5	516.5	513.9	515.2
40°	1532.3	1359.3	811.3	474.7	452.7	480.7	492.4	483.7	474.2	467.8	469.1
42.5°	1608.3	1393.4	712.9	413.4	423.3	466.0	475.1	457.4	438.9	426.8	428.5
45°	1693.7	1424.9	597.2	372.0	398.3	455.7	461.7	438.9	415.1	397.0	394.4
47.5°	1811.5	1489.2	494.5	343.1	380.6	450.1	460.0	428.9	397.9	370.7	367.7
50°	1957.0	1580.2	408.7	324.1	372.4	447.1	459.6	418.1	381.0	349.1	346.9
52.5°	2115.8	1669.1	345.2	309.4	364.2	438.0	457.4	406.1	363.3	328.8	326.2
55°	2221.5	1704.1	302.5	295.6	350.8	423.8	448.8	394.4	336.6	305.1	301.2
57.5°	2252.6	1659.2	272.7	283.1	333.6	403.9	432.4	369.8	320.2	295.2	292.1
60°	2199.0	1546.1	254.2	272.7	314.6	378.4	403.9	355.6	307.2	284.8	282.6
62.5°	2048.0	1371.8	239.9	261.9	295.2	351.7	385.8	338.3	293.0	275.3	272.3
65°	1744.2	1125.0	228.3	250.7	276.6	326.2	365.9	321.1	277.5	264.1	260.6
67.5°	1219.9	790.1	215.8	237.3	258.1	301.6	345.2	305.1	261.5	251.6	248.1
70°	596.4	419.0	200.7	221.8	238.2	276.6	324.5	285.7	240.4	234.7	230.0
72.5°	283.9	234.3	183.0	200.7	211.0	243.4	290.0	257.6	215.3	203.2	195.0
75°	190.3	166.6	159.7	175.6	178.2	204.1	248.6	222.2	189.9	176.1	169.2
77.5°	144.1	127.3	134.2	148.4	143.3	167.9	204.5	198.1	171.3	158.8	155.3
80°	101.4	92.8	106.6	115.2	111.3	142.8	184.3	169.6	141.1	127.3	124.7
82.5°	63.9	62.1	78.5	79.8	81.1	113.1	151.5	133.3	109.6	90.2	83.7
85°	31.9	35.4	47.0	47.0	46.6	58.3	86.3	75.1	59.1	47.0	45.7
87.5°	10.8	15.1	20.3	16.4	12.5	9.9	11.2	13.8	14.7	14.2	14.2
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)