

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: P628817

Luminaire Tested: GWS-SA1A-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2860 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

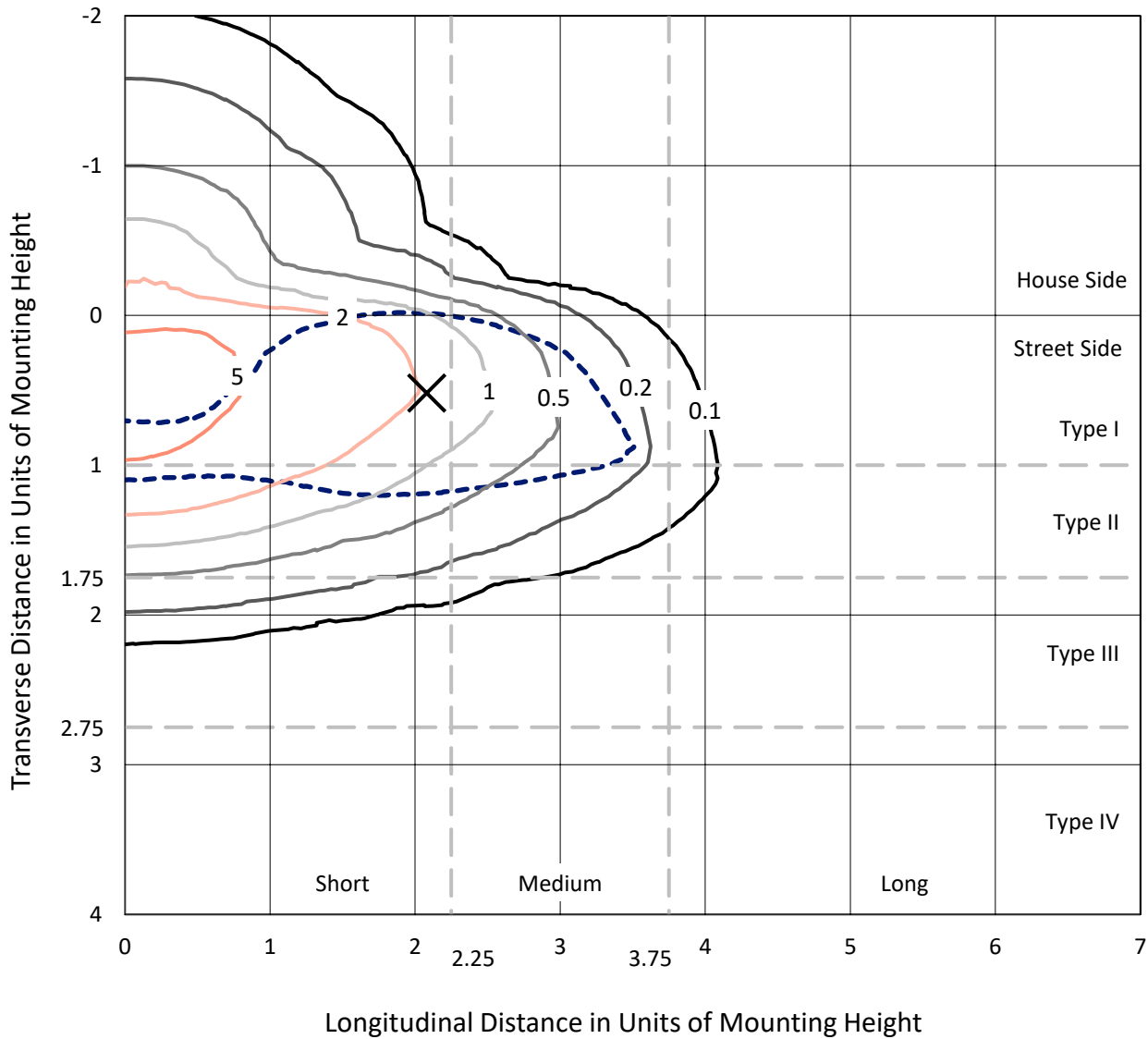
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

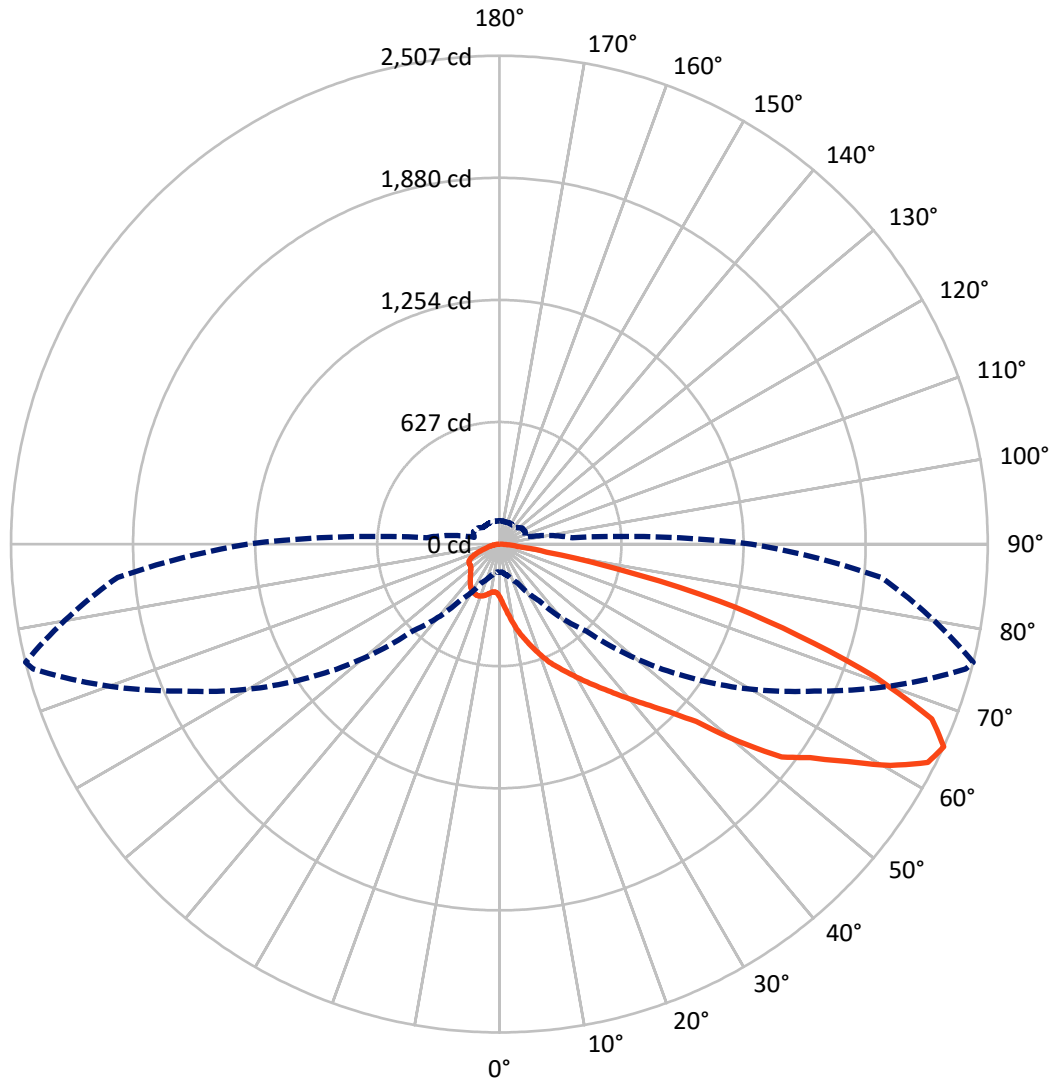
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.1	0.0	478.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	2382.0	0.0	2382.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	2860.0	0.0	2860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	1.1
10°-20°	122.6	4.3
20°-30°	238.8	8.4
30°-40°	399.5	14.0
40°-50°	571.9	20.0
50°-60°	677.1	23.7
60°-70°	563.0	19.7
70°-80°	230.4	8.1
80°-90°	24.5	0.9
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°	2860.0	100.0
0°-180°	2860.0	100.0

Coefficient of Utilization



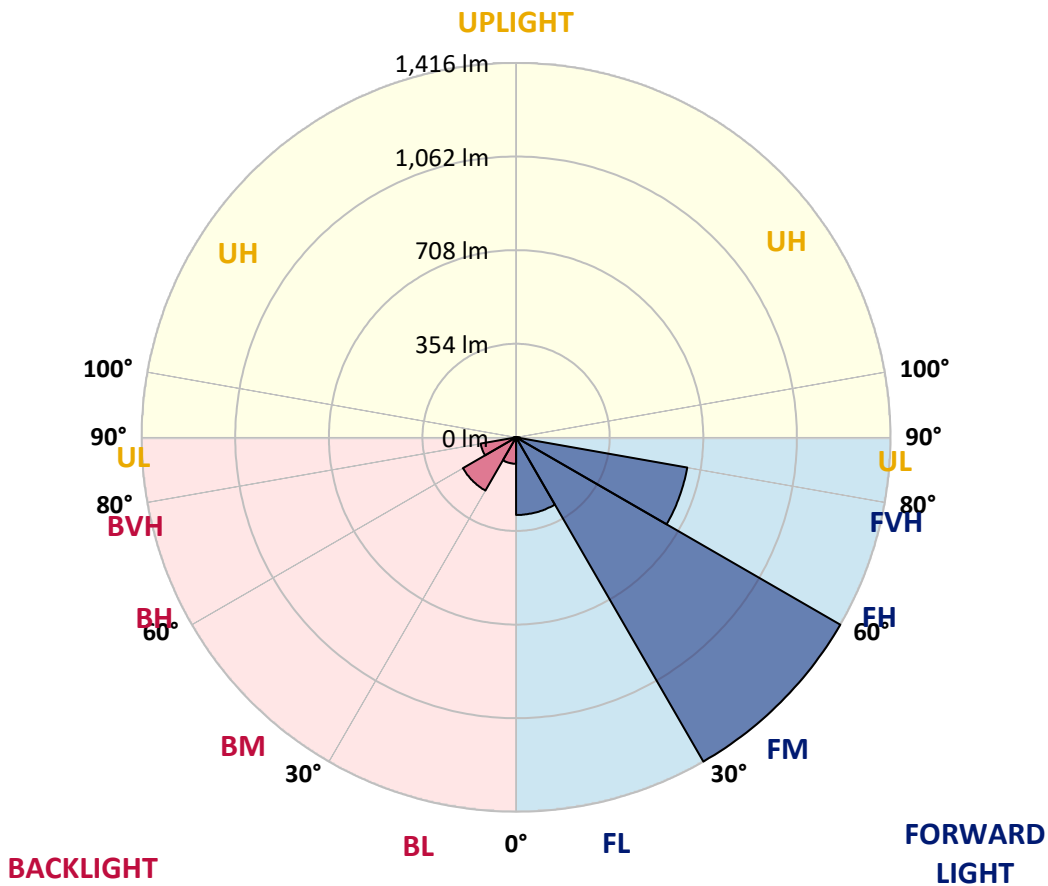
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.6	10.3			
FM (30°-60°)	1416.2	49.5			
FH (60°-80°)	657.6	23.0			G0/660
FVH (80°-90°)	14.6	0.5			G1/100
BL (0°-30°)	100.0	3.5	B0/110		
BM (30°-60°)	232.3	8.1	B1/1000		
BH (60°-80°)	135.8	4.7	B1/500		G1/500
BVH (80°-90°)	9.9	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8
2.5°	379.6	381.0	376.4	374.8	363.9	349.2	337.0	318.5	301.4	298.8	283.5
5°	482.1	476.1	470.9	467.5	452.4	435.7	409.8	375.0	338.6	334.2	301.2
7.5°	543.1	542.1	535.6	533.6	522.0	505.3	478.5	435.3	382.4	375.2	325.1
10°	591.9	591.3	588.1	589.9	579.3	563.0	537.0	492.4	430.5	423.2	351.9
12.5°	634.6	635.6	635.0	641.6	636.2	623.5	596.6	547.5	478.5	470.7	384.4
15°	665.7	666.5	669.5	684.0	687.0	684.4	657.1	601.6	526.0	514.7	418.0
17.5°	674.6	676.2	683.4	706.7	723.0	733.9	713.6	656.7	572.6	560.4	452.2
20°	686.4	688.2	695.5	719.8	743.7	768.5	764.8	712.6	619.7	609.6	486.8
22.5°	741.3	739.9	736.7	748.4	765.4	796.2	805.3	766.2	668.3	658.7	525.0
25°	847.1	844.5	824.0	813.3	807.7	826.4	842.5	815.1	715.8	701.3	560.6
27.5°	963.7	962.3	936.1	910.8	876.2	868.2	877.6	857.7	761.8	747.1	591.5
30°	1074.1	1069.9	1042.5	1010.7	964.5	929.9	916.0	899.6	812.3	797.0	627.7
32.5°	1172.8	1167.4	1135.2	1100.0	1051.6	1010.7	969.3	944.0	869.4	851.7	664.7
35°	1253.8	1248.4	1215.4	1178.0	1124.7	1094.6	1037.9	992.2	927.5	909.6	708.3
37.5°	1316.6	1311.5	1277.2	1240.4	1193.9	1170.0	1120.7	1046.5	994.5	975.8	754.6
40°	1351.7	1348.1	1320.6	1291.4	1252.4	1231.7	1209.6	1115.1	1069.5	1050.8	809.1
42.5°	1362.4	1360.0	1340.7	1325.6	1299.3	1283.6	1296.3	1195.7	1149.5	1133.2	870.4
45°	1335.7	1335.7	1330.0	1337.7	1338.9	1338.7	1383.1	1286.8	1247.8	1229.9	956.9
47.5°	1267.3	1271.7	1280.0	1317.6	1357.2	1390.3	1484.6	1408.2	1374.3	1359.6	1079.3
50°	1142.2	1154.3	1182.4	1255.8	1340.1	1424.5	1580.8	1587.8	1620.2	1594.2	1259.5
52.5°	959.1	957.3	1029.0	1133.6	1262.1	1425.9	1633.6	1746.2	1833.3	1815.4	1393.4
55°	762.2	759.2	826.2	970.3	1142.4	1372.1	1665.4	1818.8	1951.5	1935.4	1513.8
57.5°	583.7	579.9	639.4	769.5	973.5	1257.6	1659.4	1905.3	2114.2	2105.9	1677.5
60°	401.7	397.1	452.8	566.6	773.7	1082.7	1592.6	1949.7	2304.6	2307.4	1852.6
62.5°	241.3	238.7	279.1	367.3	556.5	866.0	1436.4	1922.8	2456.2	2468.8	1965.2
65°	145.6	143.8	167.5	219.2	353.1	631.9	1195.5	1785.0	2478.1	2507.3	1967.8
67.5°	106.0	106.2	113.0	133.5	205.9	408.2	897.1	1538.1	2363.9	2394.1	1843.7
70°	92.1	92.5	96.1	100.7	124.5	233.6	583.3	1214.2	2026.3	2049.6	1546.4
72.5°	81.8	81.8	84.2	86.7	97.3	142.4	312.5	848.7	1599.3	1605.5	1180.2
75°	72.0	71.4	72.6	73.8	84.4	99.5	152.0	591.3	1181.2	1166.8	762.8
77.5°	57.3	56.7	56.9	58.1	67.8	71.2	77.0	369.4	665.7	628.3	337.0
80°	40.8	40.4	42.6	45.6	50.1	43.6	48.3	178.7	264.0	245.7	130.7
82.5°	24.3	25.1	28.6	31.0	34.6	27.3	31.2	59.7	93.5	91.1	53.1
85°	3.4	3.6	10.3	11.9	14.9	10.7	16.5	26.9	37.4	40.0	18.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.8	10.7	10.9	4.6
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°	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8	270.8
2.5°	275.7	266.2	252.7	241.5	232.0	224.4	218.0	213.1	211.7	209.7	209.7
5°	285.7	268.6	244.5	227.4	217.5	211.7	207.7	205.7	204.7	203.5	202.9
7.5°	299.6	275.7	243.1	225.8	218.2	214.5	211.9	210.7	209.9	208.7	208.7
10°	318.7	286.1	247.5	231.4	225.4	221.8	218.8	216.7	214.9	213.1	212.7
12.5°	339.4	299.8	255.6	239.1	232.6	228.2	224.0	221.0	218.8	216.5	215.9
15°	362.3	313.9	264.2	246.5	238.5	232.4	227.4	222.8	219.8	216.5	216.1
17.5°	384.8	328.1	271.4	251.5	241.3	233.8	226.6	220.6	216.7	213.1	212.1
20°	411.8	342.4	276.5	252.9	240.7	230.8	222.2	214.5	210.3	206.1	205.5
22.5°	436.5	355.7	278.9	250.9	236.0	224.4	214.3	206.1	201.5	197.2	196.4
25°	460.4	367.3	277.9	246.1	229.0	215.5	205.1	196.8	192.4	188.0	186.8
27.5°	483.6	375.2	273.8	238.7	220.2	205.7	195.6	188.2	184.4	180.6	178.9
30°	506.3	382.4	267.6	229.0	208.9	195.4	187.2	182.0	178.1	174.1	172.9
32.5°	529.2	387.6	258.2	217.8	197.4	186.4	181.4	177.5	173.5	169.5	168.3
35°	552.3	389.9	246.7	204.9	187.8	180.6	178.7	174.3	168.9	164.1	162.5
37.5°	579.9	391.9	232.4	192.2	179.3	177.7	177.3	170.7	164.3	157.6	155.8
40°	613.0	394.5	217.8	180.8	172.5	176.7	175.1	166.1	153.2	146.8	144.8
42.5°	653.7	399.3	202.5	170.3	167.5	172.9	171.1	154.8	146.2	142.6	141.5
45°	713.4	417.0	187.2	162.1	163.7	167.5	164.7	148.2	144.8	142.4	141.1
47.5°	819.7	444.1	173.9	155.8	160.6	162.7	151.8	146.4	143.8	140.5	139.1
50°	930.3	456.0	163.3	152.0	157.2	158.2	144.8	144.0	142.2	138.7	137.3
52.5°	1005.1	454.4	156.8	150.6	154.4	150.6	141.5	141.3	140.1	136.1	134.5
55°	1089.6	457.2	154.0	151.0	153.2	137.7	137.5	138.1	137.5	133.1	132.3
57.5°	1203.6	465.9	152.6	152.4	152.4	131.5	133.7	134.5	133.3	131.3	130.7
60°	1313.1	466.5	150.0	154.0	151.8	127.7	129.3	130.1	128.7	128.3	128.1
62.5°	1354.4	437.5	144.2	152.8	149.4	123.5	124.7	125.1	123.7	124.7	124.5
65°	1293.0	376.0	134.5	147.0	142.0	119.6	118.8	119.8	117.4	120.0	120.2
67.5°	1148.1	298.8	119.8	135.9	131.5	115.4	113.8	113.8	109.8	113.8	113.6
70°	925.7	211.1	98.3	118.2	120.0	110.4	109.6	105.0	98.5	104.6	103.9
72.5°	701.7	151.6	77.4	93.5	103.3	103.3	103.5	95.7	88.3	91.1	88.7
75°	444.5	106.8	61.9	71.6	81.0	90.7	95.3	80.8	74.2	73.0	71.8
77.5°	200.3	70.2	48.3	54.9	57.5	71.6	87.1	69.6	60.5	57.9	57.1
80°	83.8	43.6	34.4	38.8	35.4	60.1	76.8	54.1	44.4	40.8	38.2
82.5°	36.8	25.9	21.9	20.9	22.1	44.6	57.3	36.0	27.7	37.6	38.0
85°	15.5	13.7	11.3	10.3	9.0	17.1	26.9	14.1	17.3	9.9	8.0
87.5°	3.6	4.0	3.0	2.0	1.2	0.2	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

(END OF REPORT)