

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: P628865

Luminaire Tested: GWS-SA1A-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1689.2 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

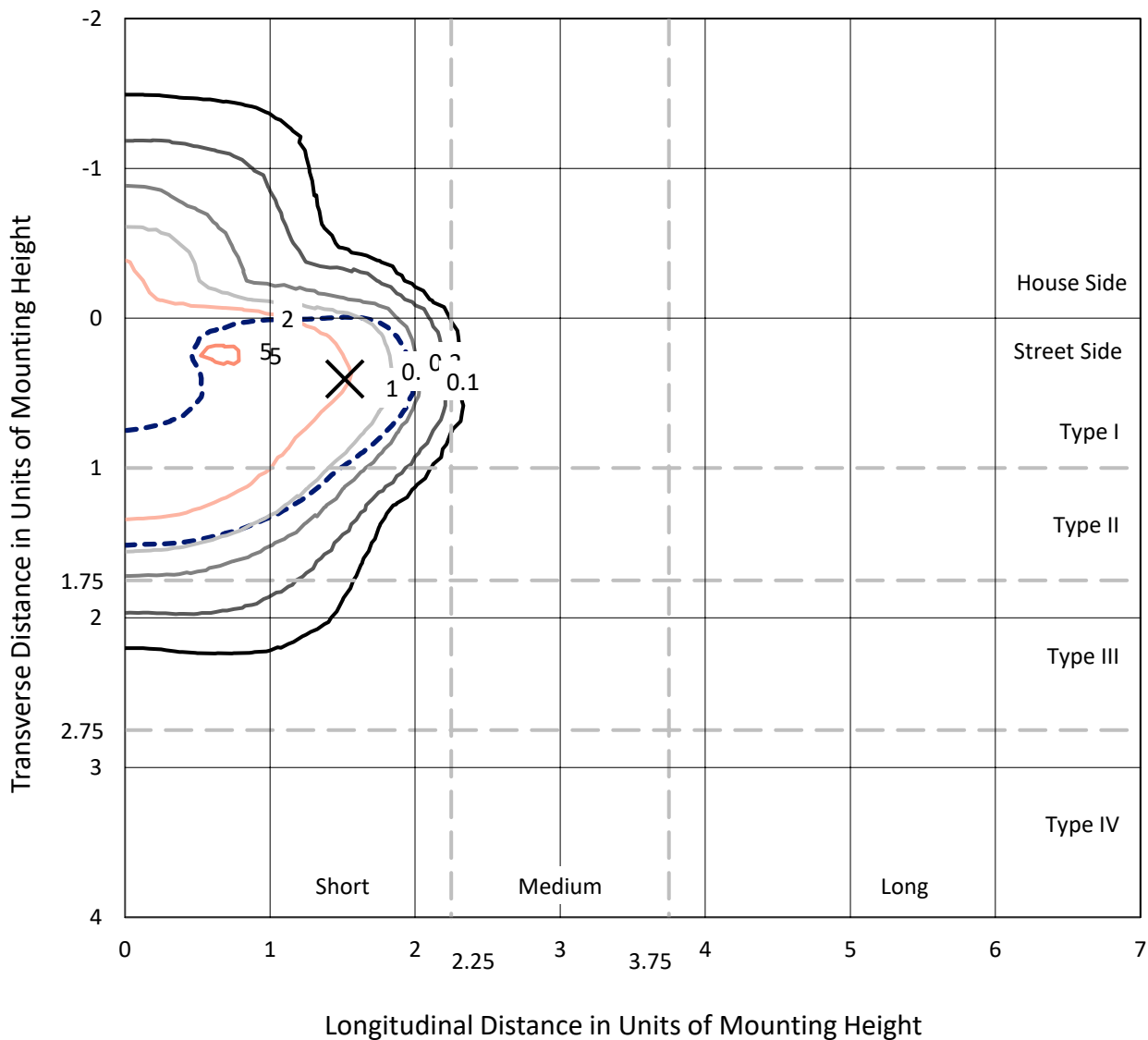
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

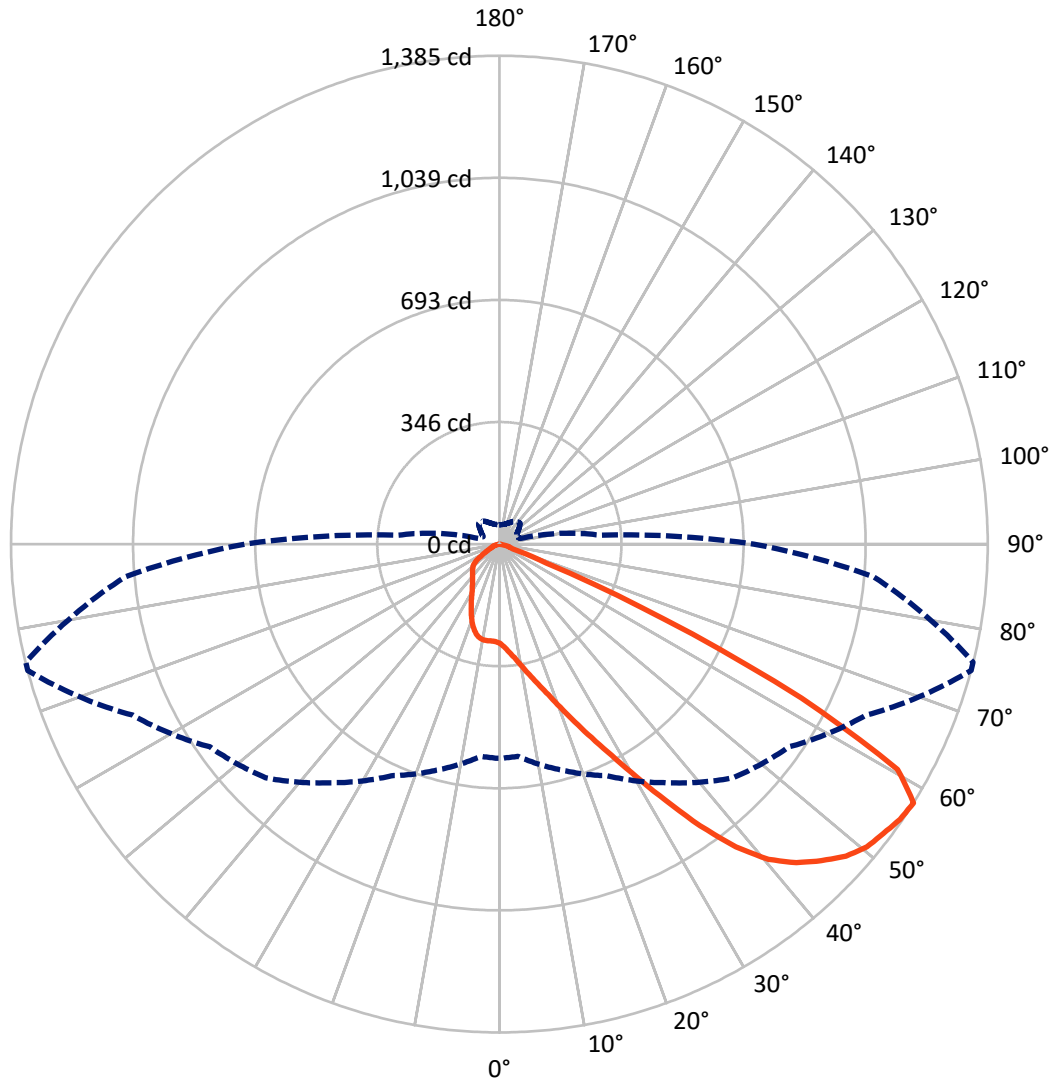
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	275.9	0.0	275.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	1413.3	0.0	1413.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	1689.2	0.0	1689.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	1.7
10°-20°	93.1	5.5
20°-30°	170.5	10.1
30°-40°	282.9	16.7
40°-50°	432.1	25.6
50°-60°	485.6	28.7
60°-70°	179.1	10.6
70°-80°	17.1	1.0
80°-90°	0.0	0.0
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°	1689.2	100.0
0°-180°	1689.2	100.0

Coefficient of Utilization



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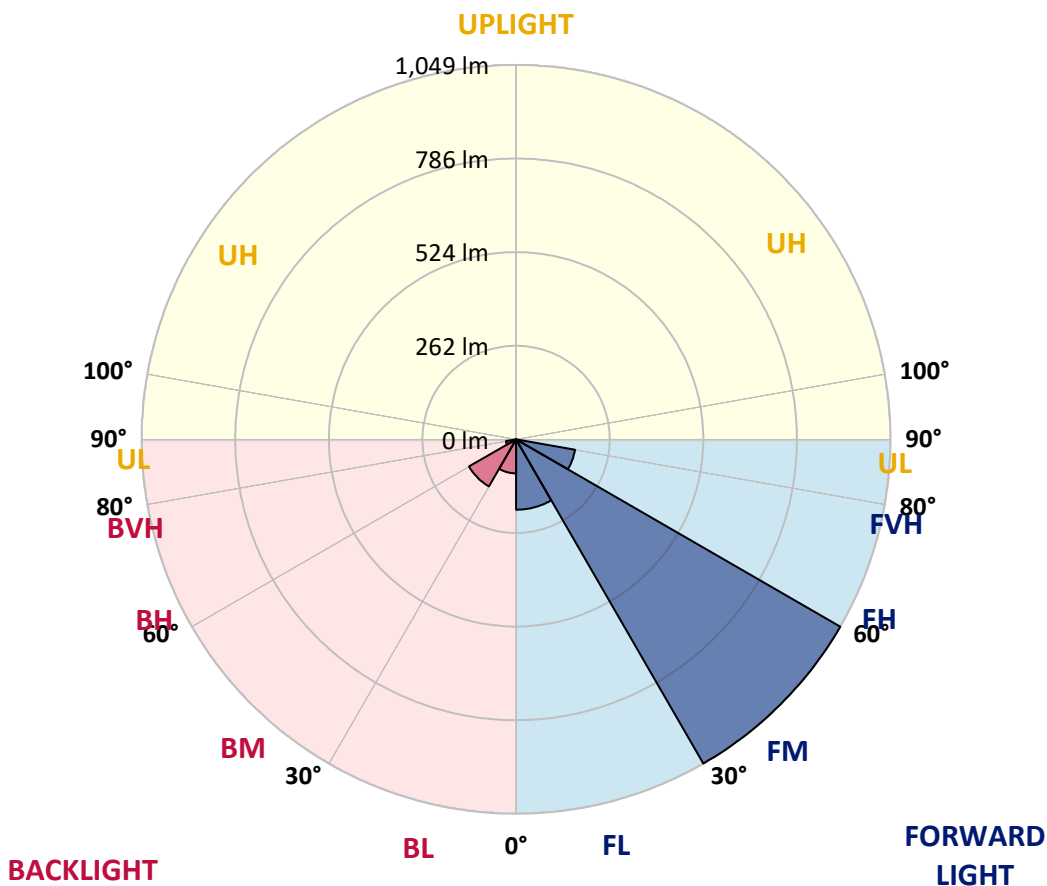
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.1	11.7			
FM (30°-60°)	1048.6	62.1			
FH (60°-80°)	167.6	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	95.2	5.6	B0/110		
BM (30°-60°)	152.1	9.0	B0/220		
BH (60°-80°)	28.7	1.7	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7
2.5°	314.8	318.0	317.0	315.0	313.7	309.5	306.8	299.1	293.6	292.9	287.9
5°	354.5	353.9	353.1	350.6	348.6	341.9	333.9	320.9	309.3	307.8	297.0
7.5°	376.3	376.7	377.1	376.7	375.3	370.2	361.4	346.2	328.4	327.2	310.1
10°	385.3	386.1	388.2	392.0	395.5	395.1	390.0	374.3	352.5	350.4	327.4
12.5°	389.6	390.6	393.9	401.2	410.6	417.9	418.7	404.7	380.6	377.3	348.0
15°	395.5	396.5	400.6	410.2	423.8	438.3	447.7	438.7	411.8	408.3	370.6
17.5°	398.1	399.6	405.5	418.1	435.9	458.1	479.3	478.5	448.7	446.0	396.9
20°	403.2	404.3	409.6	423.2	444.6	476.6	512.3	525.1	493.7	489.9	428.7
22.5°	419.3	419.7	422.2	430.8	450.7	490.1	545.9	579.6	547.0	541.9	464.4
25°	445.6	445.4	446.5	447.9	462.6	503.7	578.4	640.9	607.9	602.4	504.8
27.5°	479.1	479.1	481.5	477.4	483.4	520.7	610.4	711.5	678.9	671.1	549.0
30°	518.4	518.2	523.9	517.4	519.2	547.4	644.8	788.3	764.5	754.9	600.0
32.5°	571.8	570.6	577.1	568.2	562.0	587.7	686.8	868.6	867.0	852.3	664.0
35°	639.3	637.3	639.3	630.5	619.5	644.2	741.8	948.8	980.8	965.3	740.2
37.5°	706.4	712.9	715.1	700.1	691.1	715.8	808.1	1020.5	1089.4	1073.3	819.5
40°	785.5	783.4	791.2	774.3	768.6	795.9	872.9	1073.9	1175.5	1160.2	890.1
42.5°	843.8	847.4	857.0	847.7	843.2	868.9	927.4	1105.1	1235.2	1220.1	940.4
45°	913.7	916.4	920.0	912.3	907.6	932.9	966.7	1118.8	1280.7	1264.3	974.2
47.5°	989.3	991.4	991.4	975.5	960.4	970.8	993.0	1126.5	1322.4	1306.7	999.3
50°	1043.6	1044.6	1053.6	1042.3	1009.5	993.4	1005.0	1134.1	1350.2	1335.5	1007.5
52.5°	995.5	994.2	1023.8	1047.0	1055.8	1023.8	1025.8	1145.1	1363.6	1351.0	1014.0
55°	838.3	836.2	877.8	934.3	1011.6	1052.5	1050.9	1151.6	1378.5	1370.8	1037.6
57.5°	607.7	604.2	662.1	724.9	826.2	937.4	1002.6	1147.9	1385.0	1384.4	1065.2
60°	365.3	362.5	417.1	483.1	561.4	673.1	781.4	1028.3	1297.8	1299.0	993.6
62.5°	224.9	227.5	276.8	310.5	339.6	373.3	435.9	691.7	961.4	969.4	698.2
65°	151.3	153.3	199.0	241.4	241.4	197.3	169.4	330.7	512.9	499.5	330.3
67.5°	101.5	103.8	139.8	189.4	196.5	137.6	68.7	98.7	142.9	138.6	81.7
70°	59.7	62.2	93.2	129.9	143.1	95.8	45.9	41.8	40.6	39.3	31.8
72.5°	26.7	27.7	47.5	66.1	60.3	40.4	32.4	33.4	31.6	31.0	25.9
75°	8.2	8.6	12.2	14.3	14.5	14.5	19.6	26.3	24.9	25.1	20.0
77.5°	2.0	2.0	3.3	3.1	1.6	1.4	3.7	5.9	6.1	5.5	4.1
80°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7	281.7
2.5°	285.6	280.3	276.8	271.9	268.5	264.8	261.6	258.9	257.5	257.1	257.3
5°	292.1	283.8	275.6	266.2	259.7	253.6	248.7	244.8	243.0	242.4	242.4
7.5°	302.1	290.5	276.0	261.3	250.3	240.8	235.1	230.8	229.1	228.7	227.5
10°	315.2	299.3	275.4	252.6	237.1	227.1	223.0	221.8	222.4	222.6	222.4
12.5°	330.9	308.4	271.5	239.7	223.0	216.9	217.3	220.6	224.2	226.1	226.5
15°	347.6	316.8	262.8	224.5	211.0	210.8	216.7	224.2	231.4	234.4	235.3
17.5°	366.3	323.5	249.3	208.1	200.6	206.5	217.1	228.7	238.3	243.4	244.4
20°	386.9	329.0	232.2	192.9	191.4	202.0	216.7	231.0	242.8	248.5	249.5
22.5°	408.3	332.9	212.4	178.8	183.1	196.9	212.8	226.7	237.9	244.4	245.2
25°	432.8	333.3	192.2	167.0	175.3	190.0	203.5	214.9	224.2	230.0	230.6
27.5°	454.2	328.4	174.3	157.4	168.2	181.4	190.4	196.7	203.2	206.5	206.7
30°	478.9	319.9	157.4	149.6	160.8	170.8	175.3	176.7	177.4	178.0	177.2
32.5°	508.2	309.5	144.7	142.1	152.5	159.2	160.4	157.6	154.1	149.2	148.0
35°	544.3	300.1	134.3	134.8	143.3	147.4	146.4	140.3	133.5	127.6	126.6
37.5°	583.4	292.1	126.4	127.6	133.3	136.2	133.1	126.4	123.3	118.2	118.4
40°	618.1	285.6	119.3	120.5	123.1	125.8	120.9	116.4	122.1	121.7	122.1
42.5°	642.8	280.1	113.1	112.5	114.4	116.2	112.5	110.3	119.9	117.2	118.6
45°	657.2	275.0	108.0	104.4	107.2	110.5	108.0	105.2	108.5	96.2	95.2
47.5°	667.0	272.2	103.6	96.4	101.5	107.2	102.1	95.2	90.5	79.9	79.1
50°	668.1	270.7	98.3	88.3	94.8	100.9	95.0	85.4	78.7	74.0	73.4
52.5°	673.4	273.6	90.9	77.9	85.0	94.8	90.7	81.1	72.0	67.9	67.1
55°	697.0	285.6	78.7	63.6	74.0	90.1	87.3	72.4	63.6	61.2	60.5
57.5°	721.5	288.1	62.0	50.4	64.4	83.4	79.7	66.7	58.1	55.2	54.6
60°	659.7	237.3	46.5	41.6	56.9	77.1	73.8	63.2	53.2	49.7	49.1
62.5°	433.4	128.2	36.9	35.3	47.9	65.2	67.3	57.1	47.5	43.8	43.6
65°	199.8	59.5	28.3	27.9	37.5	52.0	57.9	49.9	40.2	36.9	36.9
67.5°	54.4	29.6	22.2	20.6	25.5	34.9	42.2	37.3	28.5	24.7	24.5
70°	27.1	23.9	20.0	17.7	18.3	21.6	24.9	20.8	14.5	11.8	11.6
72.5°	22.2	19.6	16.9	15.1	13.9	13.3	12.8	10.4	6.7	5.1	4.9
75°	16.5	14.1	12.0	9.8	8.4	7.7	6.9	5.1	2.9	1.6	1.4
77.5°	3.7	3.5	3.3	2.4	2.2	1.8	1.4	1.0	0.4	0.0	0.0
80°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)