

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: P641152

Luminaire Tested: GWS-SA5F-735-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37319.6 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

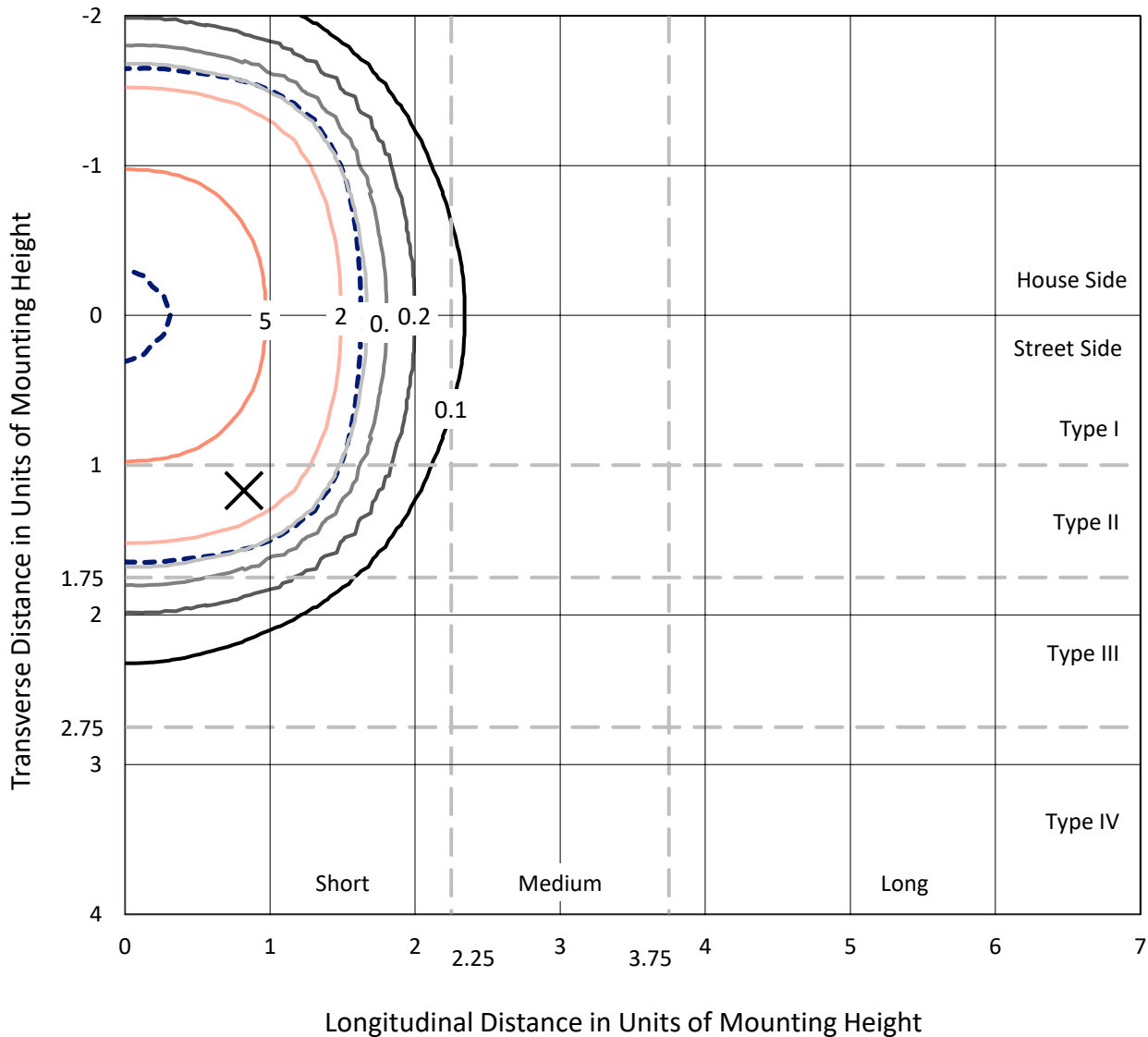
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

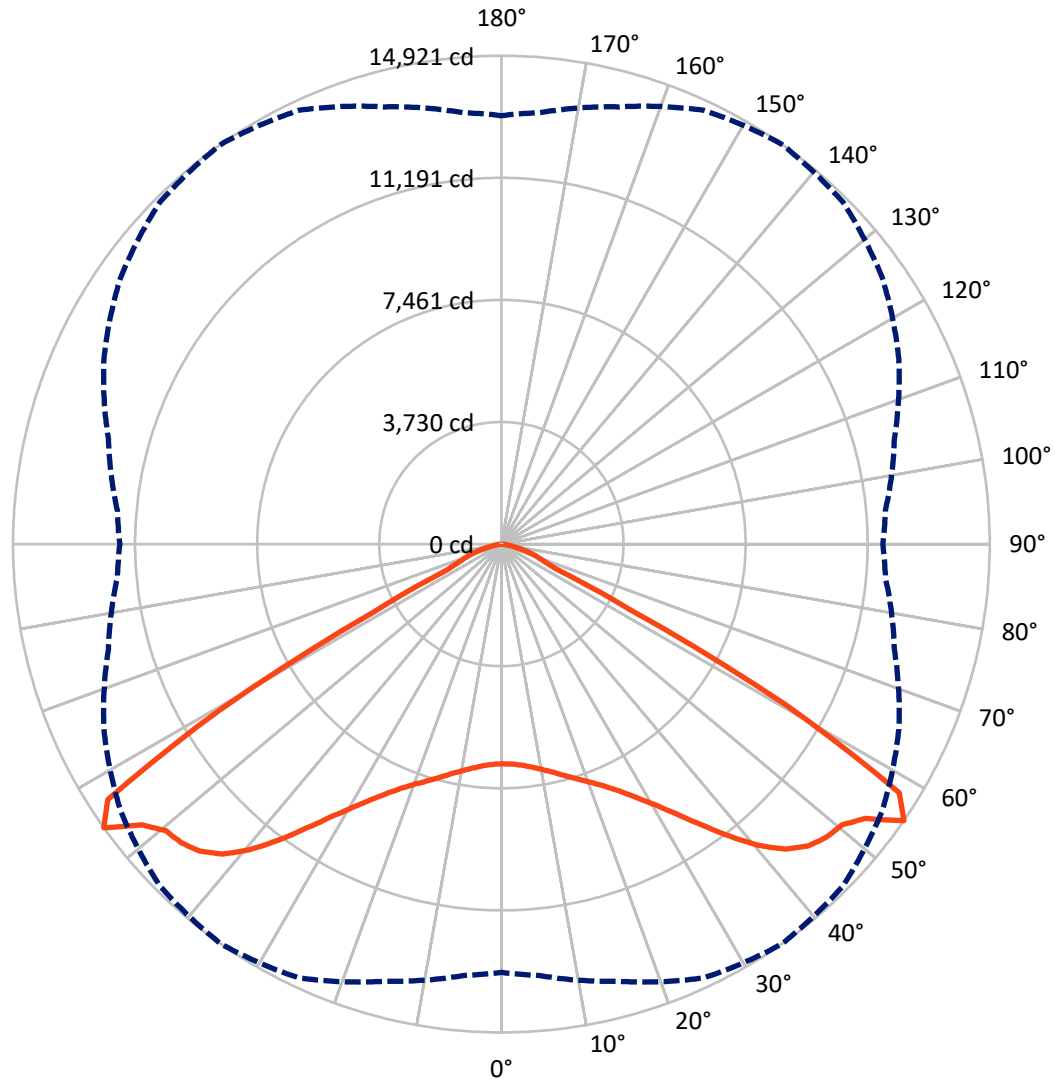
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18659.8	0.0	18659.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18659.8	0.0	18659.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	37319.6	0.0	37319.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.9	1.8
10°-20°	2084.9	5.6
20°-30°	3858.8	10.3
30°-40°	6454.9	17.3
40°-50°	9836.3	26.4
50°-60°	11018.7	29.5
60°-70°	2607.1	7.0
70°-80°	702.9	1.9
80°-90°	101.2	0.3
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°	37319.6	100.0
0°-180°	37319.6	100.0

Coefficient of Utilization



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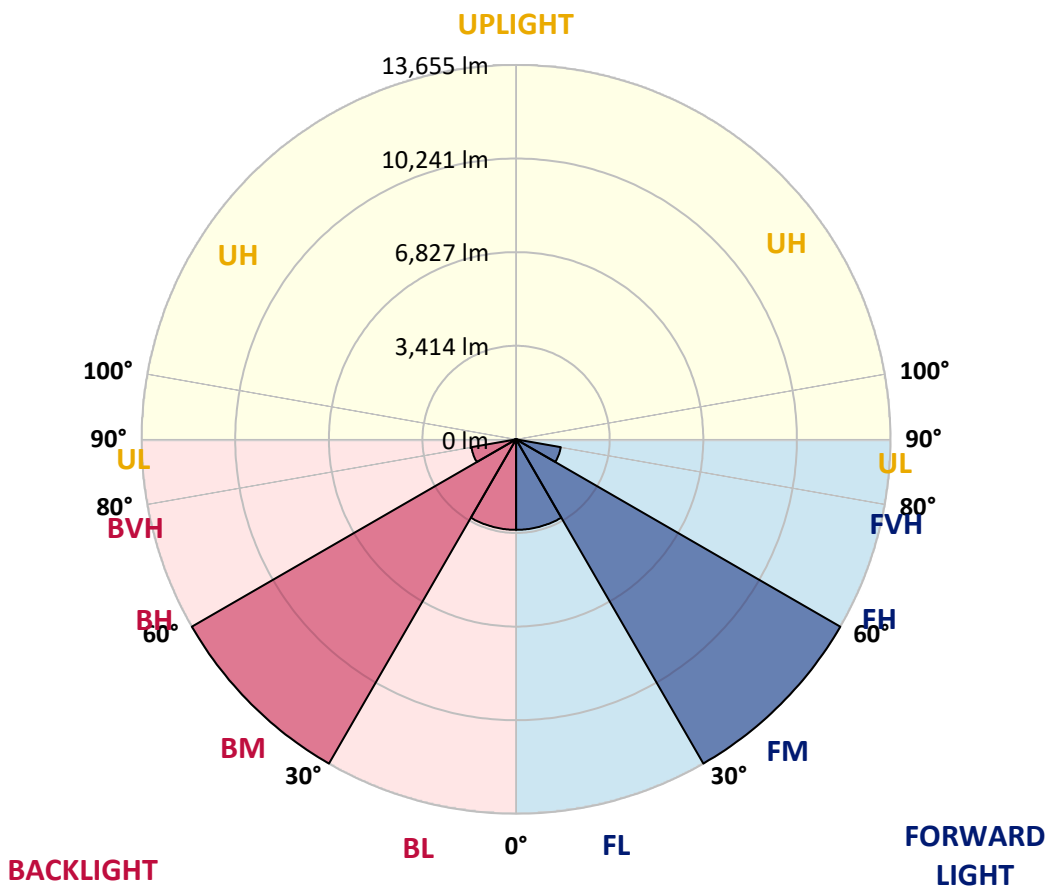
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3299.3	8.8			
FM (30°-60°)	13655.0	36.6			
FH (60°-80°)	1655.0	4.4			G1/1800
FVH (80°-90°)	50.6	0.1			G1/100
BL (0°-30°)	3299.3	8.8	B4/5000		
BM (30°-60°)	13655.0	36.6	B5		
BH (60°-80°)	1655.0	4.4	B3/2500		G1/1800
BVH (80°-90°)	50.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6713.9	6713.9	6713.9	6713.9	6713.9	6713.9	6713.9	6713.9	6713.9	6713.9	6713.9
2.5°	6699.1	6699.1	6710.9	6725.7	6728.7	6758.2	6752.3	6740.5	6734.6	6722.7	6749.3
5°	6772.9	6775.9	6784.7	6793.6	6787.7	6811.3	6802.4	6787.7	6778.8	6764.1	6790.6
7.5°	6870.3	6870.3	6879.2	6891.0	6885.1	6920.5	6902.8	6882.1	6867.4	6849.6	6873.3
10°	6958.8	6964.7	6973.6	6997.2	7009.0	7047.4	7035.6	7006.1	6982.5	6961.8	6988.4
12.5°	7091.6	7097.5	7106.4	7138.9	7159.5	7197.9	7180.2	7138.9	7103.4	7073.9	7103.4
15°	7262.8	7256.9	7280.5	7321.8	7348.4	7383.8	7363.2	7292.3	7245.1	7206.7	7236.3
17.5°	7436.9	7434.0	7457.6	7510.7	7549.1	7596.3	7560.9	7478.2	7428.1	7380.9	7410.4
20°	7625.8	7634.7	7658.3	7708.4	7764.5	7826.5	7797.0	7708.4	7652.4	7599.2	7622.9
22.5°	7858.9	7861.9	7888.5	7953.4	8027.2	8086.2	8068.5	7959.3	7888.5	7832.4	7861.9
25°	8139.3	8136.4	8171.8	8248.5	8351.8	8410.8	8372.4	8251.5	8174.7	8109.8	8133.4
27.5°	8461.0	8458.0	8511.2	8611.5	8759.1	8841.7	8762.0	8611.5	8505.3	8413.8	8434.4
30°	8865.3	8856.4	8915.5	9051.2	9243.0	9381.7	9263.7	9054.2	8915.5	8818.1	8838.7
32.5°	9313.9	9325.7	9399.5	9582.4	9824.4	10004.4	9827.4	9594.2	9408.3	9266.7	9290.3
35°	9806.7	9806.7	9957.2	10184.5	10529.8	10768.8	10494.3	10157.9	9910.0	9715.2	9721.1
37.5°	10355.6	10361.5	10559.3	10872.1	11323.6	11604.0	11232.1	10816.0	10515.0	10305.5	10293.7
40°	11025.5	11043.3	11246.9	11595.1	12102.7	12359.5	11961.1	11553.8	11246.9	10999.0	10975.4
42.5°	11781.0	11786.9	12002.4	12315.2	12743.1	12896.6	12583.8	12250.3	11999.4	11775.1	11751.5
45°	12501.1	12486.4	12672.3	12905.4	13153.3	13168.1	12994.0	12858.2	12639.8	12448.0	12412.6
47.5°	13061.8	13050.0	13218.3	13345.2	13374.7	13230.1	13286.1	13306.8	13053.0	12793.3	12725.4
50°	13404.2	13427.8	13587.2	13658.0	13483.9	13247.8	13460.3	13407.1	13044.1	12704.8	12595.6
52.5°	13610.8	13646.2	13923.6	14103.6	13923.6	13699.3	13728.8	13416.0	12893.6	12445.1	12303.4
55°	13088.4	13230.1	13829.2	14626.0	14921.1	14764.7	14203.9	13398.3	12430.3	11778.1	11657.1
57.5°	9700.5	9924.8	10813.1	12539.5	14333.8	14903.4	13265.5	11232.1	9765.4	8927.3	8856.4
60°	4952.1	5202.9	5914.1	7687.8	9995.6	10798.3	9240.1	7192.0	5716.4	5037.6	4960.9
62.5°	2021.5	2062.9	2296.0	2980.7	4417.9	5096.7	4476.9	3143.0	2360.9	2175.0	2178.0
65°	1590.7	1599.5	1587.7	1629.0	1850.4	2054.0	1897.6	1667.4	1626.1	1646.7	1632.0
67.5°	1387.0	1390.0	1381.1	1381.1	1390.0	1381.1	1398.9	1407.7	1413.6	1437.2	1422.5
70°	1159.8	1162.8	1162.8	1168.7	1165.7	1151.0	1177.5	1189.3	1192.3	1207.0	1198.2
72.5°	897.2	906.0	911.9	914.9	911.9	903.1	917.8	938.5	935.5	950.3	935.5
75°	607.9	619.7	625.6	637.5	634.5	634.5	652.2	661.1	652.2	664.0	652.2
77.5°	345.3	354.1	371.8	383.7	395.5	404.3	416.1	422.0	419.1	425.0	419.1
80°	200.7	203.6	218.4	224.3	239.0	253.8	265.6	271.5	274.5	277.4	274.5
82.5°	115.1	118.0	123.9	129.9	141.7	153.5	165.3	174.1	174.1	177.1	174.1
85°	56.1	56.1	59.0	62.0	67.9	76.7	85.6	94.4	97.4	97.4	97.4
87.5°	8.9	8.9	11.8	11.8	14.8	17.7	23.6	29.5	32.5	32.5	32.5
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)