

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: P641155

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE 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: 34766.9 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

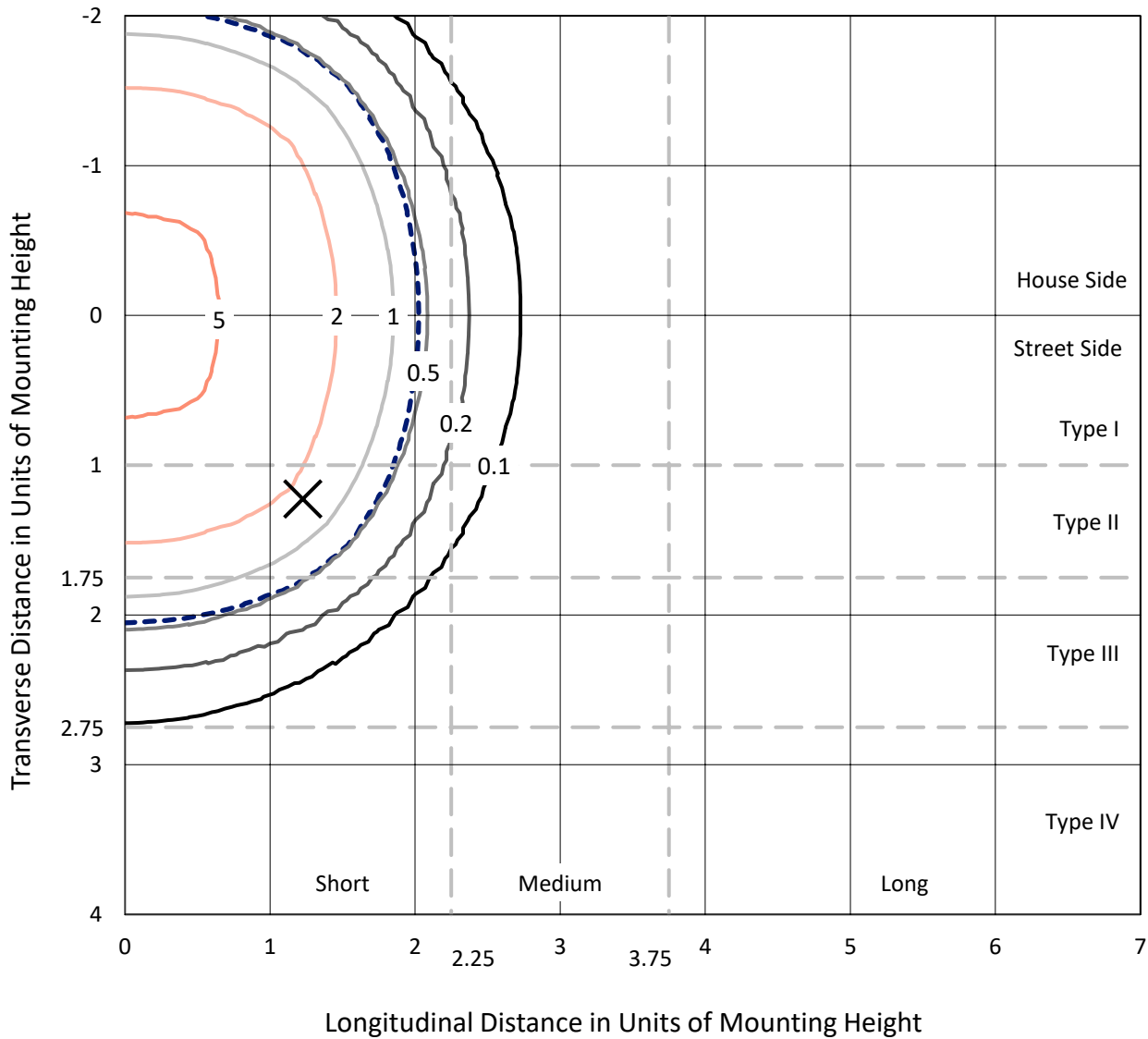
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641155
 CATALOG NUMBER: GWS-SA5F-735-U-5WQ-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

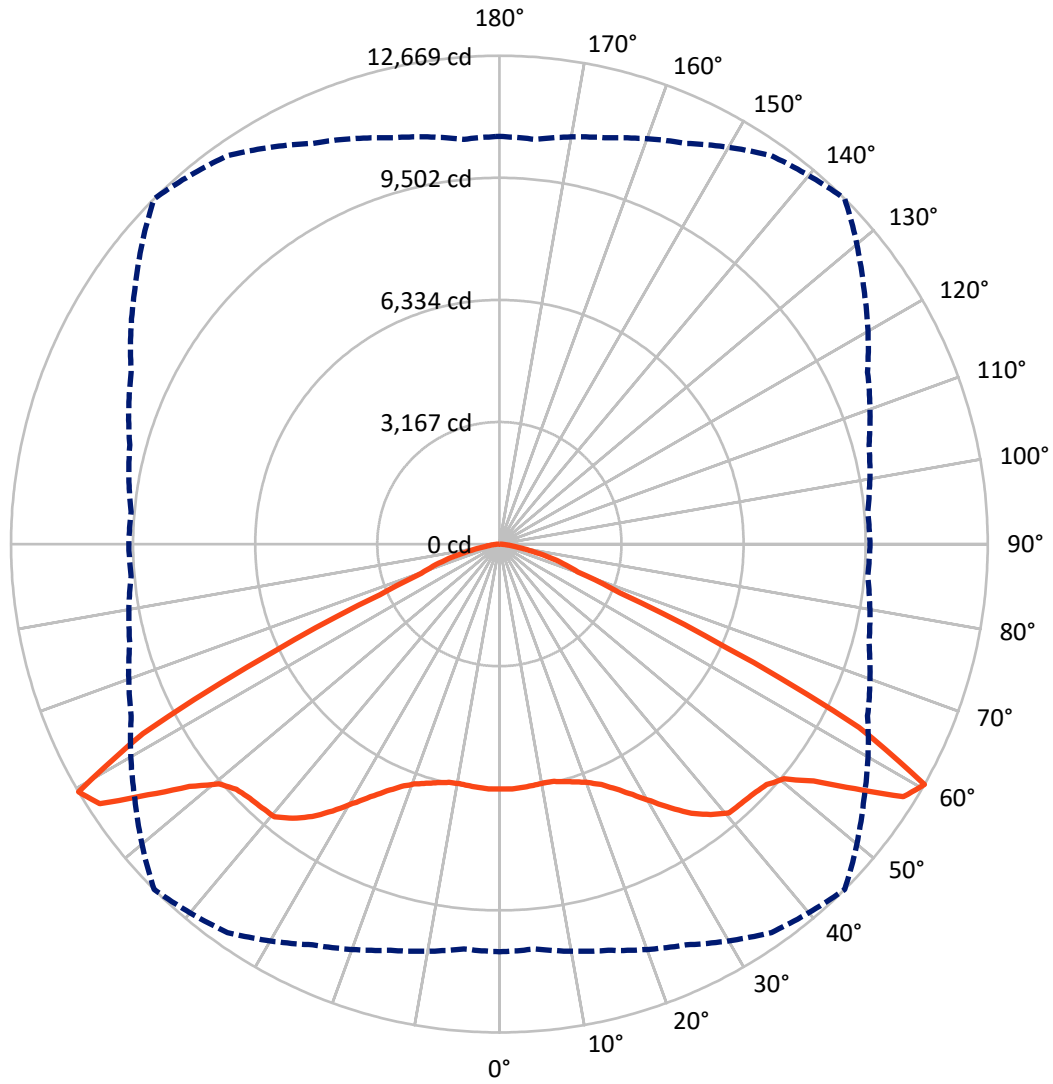
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

REPORT NUMBER: P641155
CATALOG NUMBER: GWS-SA5F-735-U-5WQ-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P641155

CATALOG NUMBER: GWS-SA5F-735-U-5WQ-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17383.4	0.0	17383.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17383.4	0.0	17383.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	34766.9	0.0	34766.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.5	1.7
10°-20°	1812.4	5.2
20°-30°	3206.4	9.2
30°-40°	5162.4	14.8
40°-50°	7095.6	20.4
50°-60°	9455.5	27.2
60°-70°	5893.1	17.0
70°-80°	1355.1	3.9
80°-90°	183.9	0.5
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°	34766.9	100.0
0°-180°	34766.9	100.0

Coefficient of Utilization



REPORT NUMBER: P641155

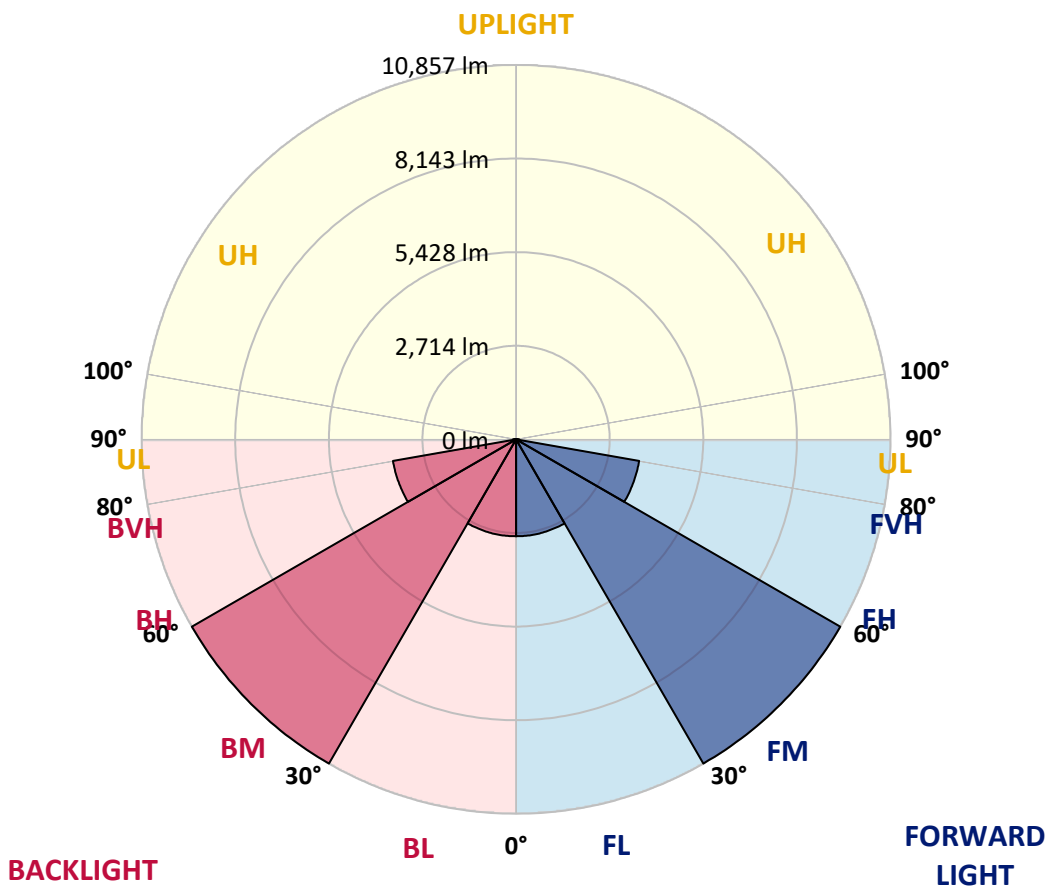
CATALOG NUMBER: GWS-SA5F-735-U-5WQ-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2810.7	8.1			
FM (30°-60°)	10856.7	31.2			
FH (60°-80°)	3624.1	10.4			G2/5000
FVH (80°-90°)	91.9	0.3			G1/100
BL (0°-30°)	2810.7	8.1	B4/5000		
BM (30°-60°)	10856.7	31.2	B5		
BH (60°-80°)	3624.1	10.4	B4/5000		G2/5000
BVH (80°-90°)	91.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





REPORT NUMBER: P641155

CATALOG NUMBER: GWS-SA5F-735-U-5WQ-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6353.6	6353.6	6353.6	6353.6	6353.6	6353.6	6353.6	6353.6	6353.6	6353.6	6353.6
2.5°	6309.3	6315.2	6327.0	6335.9	6347.7	6359.5	6365.4	6353.6	6347.7	6324.1	6350.7
5°	6315.2	6321.1	6330.0	6330.0	6332.9	6341.8	6341.8	6327.0	6312.3	6285.7	6315.2
7.5°	6306.4	6312.3	6315.2	6312.3	6315.2	6318.2	6312.3	6294.6	6279.8	6256.2	6279.8
10°	6291.6	6297.5	6303.4	6297.5	6291.6	6300.5	6300.5	6288.7	6279.8	6256.2	6282.8
12.5°	6324.1	6332.9	6335.9	6321.1	6315.2	6318.2	6318.2	6306.4	6306.4	6285.7	6315.2
15°	6400.8	6406.7	6397.9	6380.2	6383.1	6392.0	6371.3	6341.8	6335.9	6327.0	6350.7
17.5°	6459.8	6465.7	6456.9	6445.1	6465.7	6486.4	6448.0	6392.0	6374.3	6368.4	6394.9
20°	6524.8	6533.6	6521.8	6536.6	6577.9	6601.5	6554.3	6477.5	6442.1	6433.3	6465.7
22.5°	6631.0	6642.8	6642.8	6675.3	6737.2	6775.6	6716.6	6613.3	6560.2	6545.4	6577.9
25°	6799.2	6808.1	6816.9	6881.8	6982.2	7035.3	6940.9	6799.2	6725.4	6701.8	6719.5
27.5°	7032.3	7047.1	7061.9	7156.3	7280.2	7357.0	7221.2	7044.1	6952.7	6905.4	6940.9
30°	7309.7	7330.4	7365.8	7472.0	7646.2	7731.7	7557.6	7342.2	7238.9	7188.7	7236.0
32.5°	7687.5	7690.4	7717.0	7835.0	8065.2	8162.6	7944.2	7705.2	7598.9	7539.9	7566.5
35°	8136.0	8139.0	8097.7	8218.7	8466.5	8575.7	8319.0	8077.0	7988.5	7970.8	8038.6
37.5°	8596.4	8569.8	8528.5	8581.6	8832.5	8903.3	8631.8	8425.2	8386.9	8419.3	8519.7
40°	8924.0	8879.7	8797.1	8835.4	9089.2	9171.8	8882.6	8687.9	8676.1	8755.8	8876.7
42.5°	9136.4	9089.2	8991.8	8991.8	9165.9	9201.4	8977.1	8873.8	8900.4	8991.8	9106.9
45°	9239.7	9213.2	9157.1	9127.6	9225.0	9239.7	9068.6	9027.2	9077.4	9121.7	9210.2
47.5°	9319.4	9319.4	9301.7	9272.2	9316.5	9325.3	9198.4	9186.6	9251.5	9251.5	9310.5
50°	9461.1	9475.8	9499.4	9493.5	9540.7	9570.2	9475.8	9458.1	9484.7	9399.1	9428.6
52.5°	9832.9	9871.2	9939.1	9992.2	10113.2	10204.7	10036.5	9894.9	9756.2	9567.3	9573.2
55°	10499.8	10517.5	10650.3	10806.7	11010.4	11196.3	10851.0	10411.3	10110.3	9889.0	9891.9
57.5°	11063.5	11090.0	11284.8	11612.4	12069.8	12359.0	11594.7	10859.8	10434.9	10163.4	10172.3
60°	10576.5	10541.1	10910.0	11470.7	12300.0	12668.8	11541.5	10538.2	9927.3	9590.9	9614.5
62.5°	8183.2	8115.4	8525.6	9112.8	10107.3	10476.2	9437.4	8475.4	7897.0	7634.4	7596.0
65°	4981.4	4919.4	5214.5	5574.5	6247.4	6480.5	6005.4	5494.8	4990.2	4830.9	4786.6
67.5°	2712.0	2703.2	2782.8	2959.9	3255.0	3364.2	3272.7	3030.7	2900.9	2788.7	2788.7
70°	2151.3	2133.6	2118.9	2121.8	2148.4	2163.1	2166.1	2154.3	2169.0	2172.0	2160.2
72.5°	1782.4	1776.5	1747.0	1750.0	1738.2	1732.3	1752.9	1764.7	1788.3	1791.3	1791.3
75°	1292.6	1277.8	1292.6	1295.5	1283.7	1283.7	1298.5	1295.5	1307.3	1313.2	1280.8
77.5°	734.8	734.8	755.5	779.1	796.8	796.8	811.5	811.5	826.3	823.3	817.4
80°	404.3	404.3	416.1	430.9	448.6	466.3	481.0	484.0	492.8	489.9	481.0
82.5°	230.2	233.1	239.0	247.9	265.6	280.3	295.1	298.1	306.9	306.9	298.1
85°	109.2	106.2	109.2	115.1	123.9	135.7	150.5	159.4	165.3	165.3	159.4
87.5°	20.7	23.6	20.7	23.6	26.6	35.4	41.3	47.2	56.1	59.0	53.1
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)