

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: P640657

Luminaire Tested: GWS-SA5E-735-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640657
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-SA5E-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: 33566.2 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

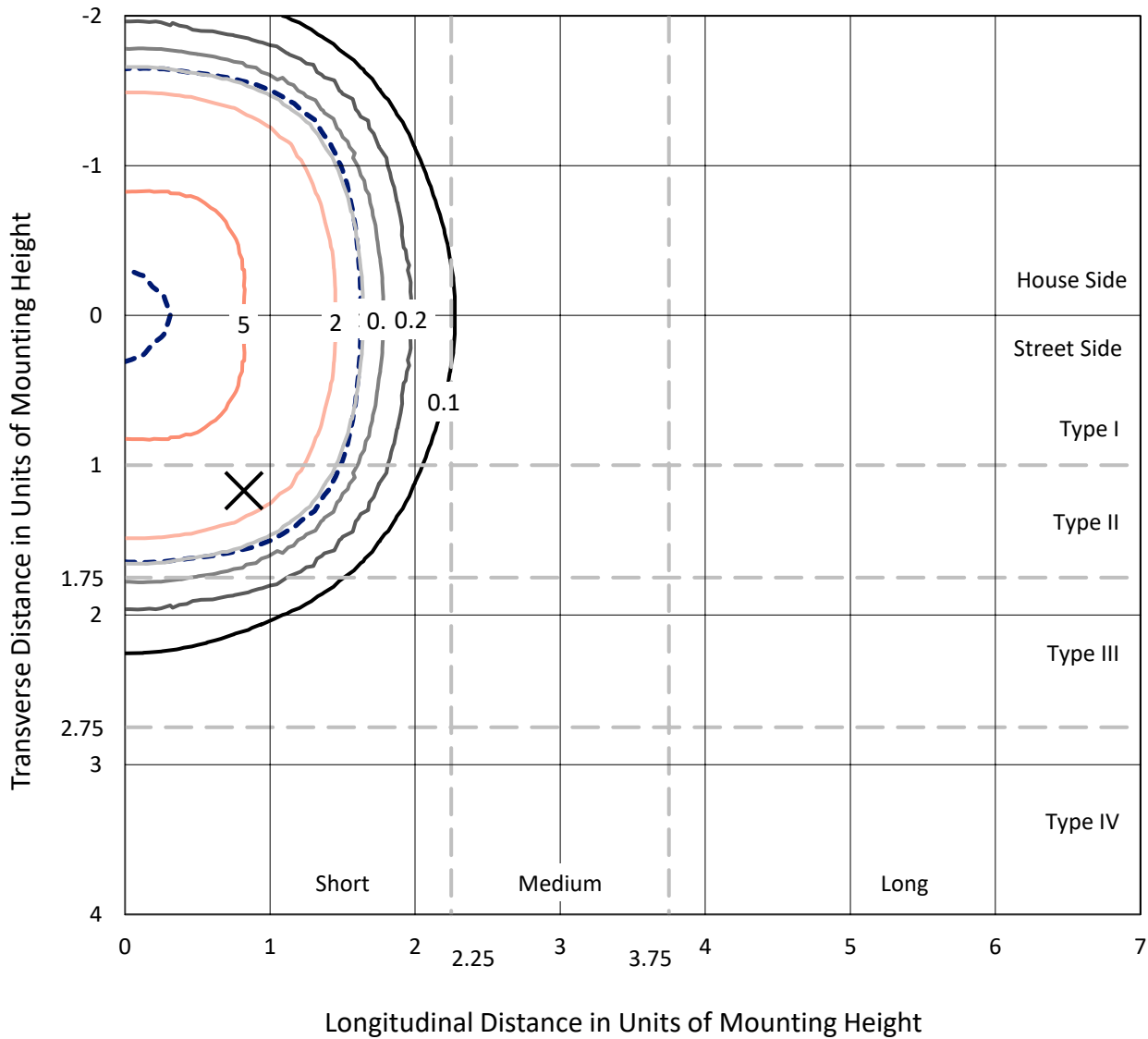
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640657
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Iso-Footcandle Lines of Horizontal Illumination

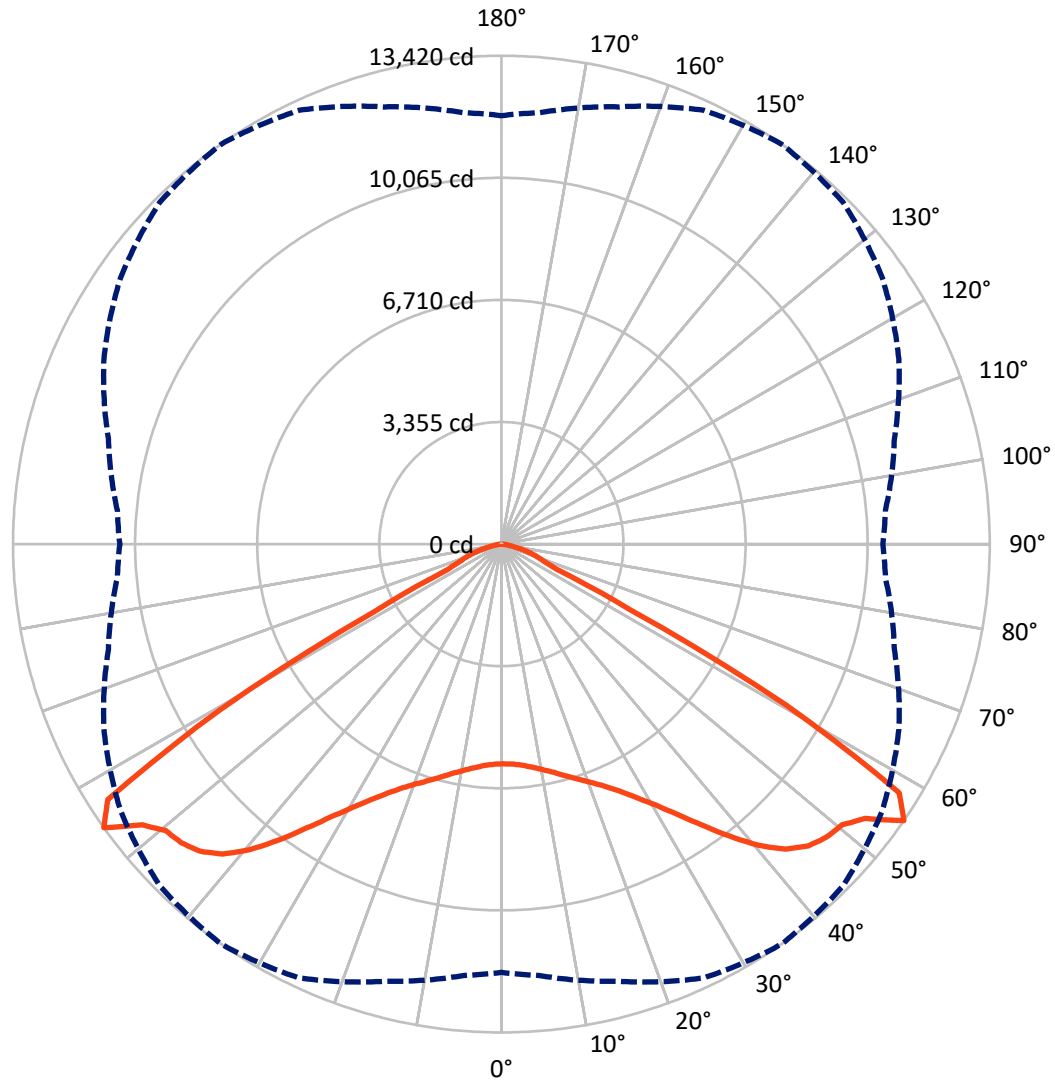
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

REPORT NUMBER: P640657
CATALOG NUMBER: GWS-SA5E-735-U-5NQ-W-GRSWH

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA5E-735-U-5NQ-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16783.1	0.0	16783.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16783.1	0.0	16783.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	33566.2	0.0	33566.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.0	1.8
10°-20°	1875.2	5.6
20°-30°	3470.7	10.3
30°-40°	5805.7	17.3
40°-50°	8847.0	26.4
50°-60°	9910.5	29.5
60°-70°	2344.9	7.0
70°-80°	632.2	1.9
80°-90°	91.0	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°	33566.2	100.0
0°-180°	33566.2	100.0

Coefficient of Utilization



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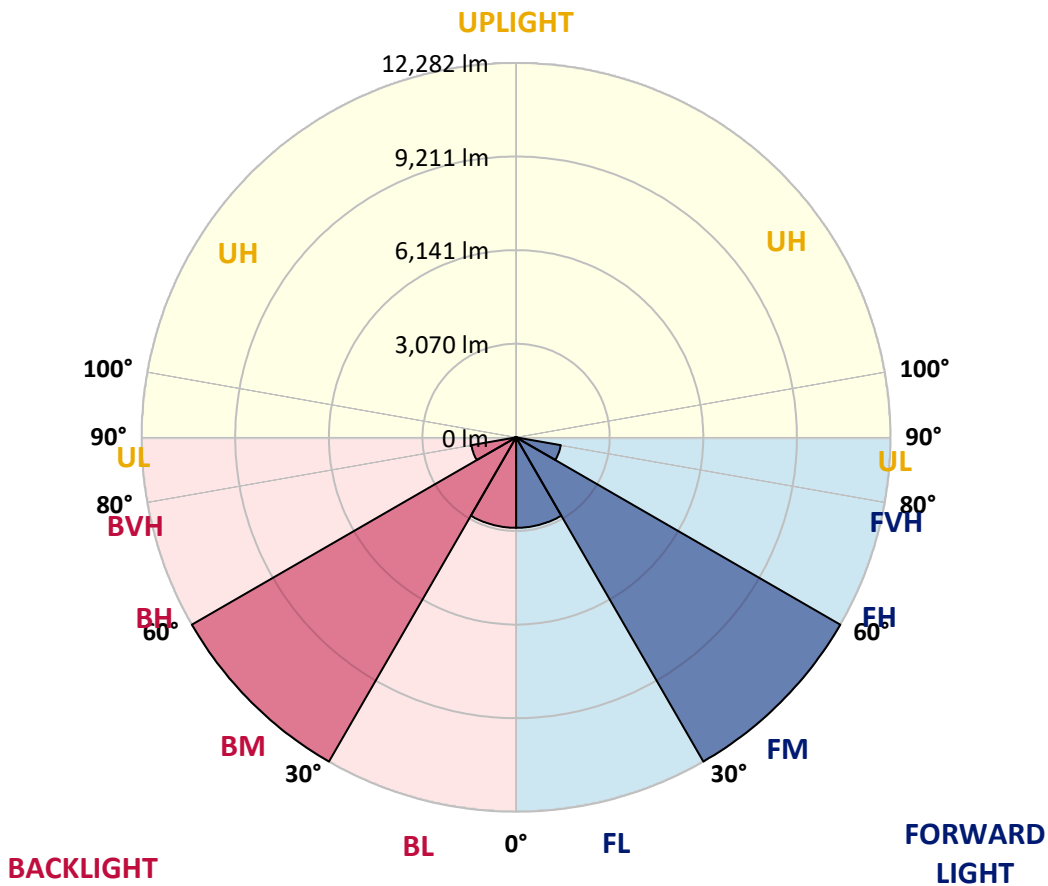
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2967.4	8.8			
FM (30°-60°)	12281.6	36.6			
FH (60°-80°)	1488.6	4.4			G1/1800
FVH (80°-90°)	45.5	0.1			G1/100
BL (0°-30°)	2967.4	8.8	B4/5000		
BM (30°-60°)	12281.6	36.6	B5		
BH (60°-80°)	1488.6	4.4	B3/2500		G1/1800
BVH (80°-90°)	45.5	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°	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6	6038.6
2.5°	6025.4	6025.4	6036.0	6049.3	6051.9	6078.5	6073.2	6062.5	6057.2	6046.6	6070.5
5°	6091.7	6094.4	6102.4	6110.3	6105.0	6126.2	6118.3	6105.0	6097.0	6083.8	6107.7
7.5°	6179.3	6179.3	6187.3	6197.9	6192.6	6224.5	6208.5	6189.9	6176.7	6160.7	6182.0
10°	6259.0	6264.3	6272.2	6293.5	6304.1	6338.6	6328.0	6301.4	6280.2	6261.6	6285.5
12.5°	6378.4	6383.7	6391.7	6420.9	6439.5	6474.0	6458.0	6420.9	6389.0	6362.5	6389.0
15°	6532.4	6527.1	6548.3	6585.4	6609.3	6641.2	6622.6	6558.9	6516.4	6481.9	6508.5
17.5°	6689.0	6686.3	6707.5	6755.3	6789.8	6832.3	6800.4	6726.1	6681.0	6638.5	6665.1
20°	6858.8	6866.8	6888.0	6933.2	6983.6	7039.3	7012.8	6933.2	6882.7	6835.0	6856.2
22.5°	7068.5	7071.2	7095.1	7153.5	7219.8	7272.9	7257.0	7158.8	7095.1	7044.6	7071.2
25°	7320.7	7318.0	7349.9	7418.9	7511.8	7564.9	7530.4	7421.6	7352.6	7294.2	7315.4
27.5°	7610.0	7607.4	7655.1	7745.4	7878.1	7952.4	7880.8	7745.4	7649.8	7567.6	7586.1
30°	7973.7	7965.7	8018.8	8140.9	8313.4	8438.2	8332.0	8143.6	8018.8	7931.2	7949.8
32.5°	8377.1	8387.8	8454.1	8618.7	8836.3	8998.3	8839.0	8629.3	8462.1	8334.7	8355.9
35°	8820.4	8820.4	8955.8	9160.2	9470.7	9685.7	9438.9	9136.3	8913.3	8738.1	8743.4
37.5°	9314.1	9319.4	9497.3	9778.6	10184.7	10436.9	10102.5	9728.2	9457.5	9269.0	9258.4
40°	9916.7	9932.6	10115.7	10428.9	10885.5	11116.4	10758.1	10391.8	10115.7	9892.8	9871.5
42.5°	10596.2	10601.5	10795.2	11076.6	11461.5	11599.5	11318.2	11018.2	10792.6	10590.9	10569.6
45°	11243.8	11230.6	11397.8	11607.5	11830.4	11843.7	11687.1	11565.0	11368.6	11196.1	11164.2
47.5°	11748.2	11737.5	11888.8	12003.0	12029.5	11899.5	11949.9	11968.5	11740.2	11506.6	11445.6
50°	12056.1	12077.3	12220.6	12284.3	12127.7	11915.4	12106.5	12058.7	11732.2	11427.0	11328.8
52.5°	12241.9	12273.7	12523.2	12685.1	12523.2	12321.5	12348.0	12066.7	11596.9	11193.4	11066.0
55°	11772.0	11899.5	12438.3	13155.0	13420.4	13279.7	12775.4	12050.8	11180.1	10593.5	10484.7
57.5°	8724.9	8926.6	9725.5	11278.3	12892.2	13404.5	11931.3	10102.5	8783.2	8029.4	7965.7
60°	4454.0	4679.6	5319.3	6914.6	8990.3	9712.3	8310.8	6468.7	5141.5	4531.0	4462.0
62.5°	1818.2	1855.4	2065.1	2680.9	3973.6	4584.1	4026.7	2826.9	2123.5	1956.3	1958.9
65°	1430.7	1438.7	1428.0	1465.2	1664.3	1847.4	1706.7	1499.7	1462.5	1481.1	1467.9
67.5°	1247.5	1250.2	1242.2	1242.2	1250.2	1242.2	1258.2	1266.1	1271.4	1292.7	1279.4
70°	1043.2	1045.8	1045.8	1051.1	1048.5	1035.2	1059.1	1069.7	1072.4	1085.6	1077.7
72.5°	806.9	814.9	820.2	822.8	820.2	812.2	825.5	844.1	841.4	854.7	841.4
75°	546.8	557.4	562.7	573.3	570.7	570.7	586.6	594.6	586.6	597.2	586.6
77.5°	310.6	318.5	334.4	345.1	355.7	363.6	374.3	379.6	376.9	382.2	376.9
80°	180.5	183.2	196.4	201.7	215.0	228.3	238.9	244.2	246.9	249.5	246.9
82.5°	103.5	106.2	111.5	116.8	127.4	138.0	148.6	156.6	156.6	159.3	156.6
85°	50.4	50.4	53.1	55.7	61.1	69.0	77.0	84.9	87.6	87.6	87.6
87.5°	8.0	8.0	10.6	10.6	13.3	15.9	21.2	26.5	29.2	29.2	29.2
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)