

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: P640660

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640660  
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-SA5E-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**

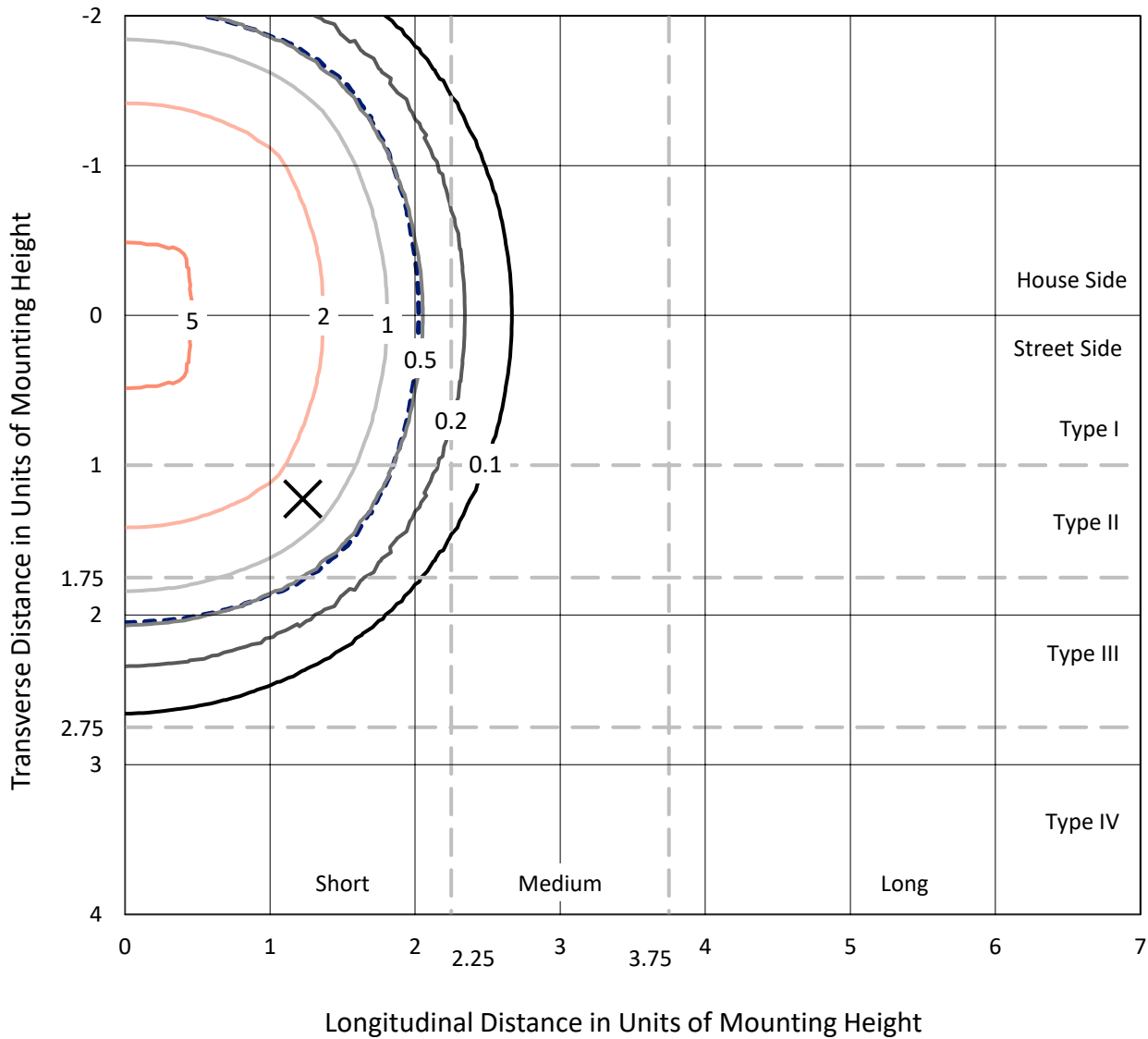
Lumens per Lamp: N/A  
Luminaire Lumens: 31270.3 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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: P640660  
 CATALOG NUMBER: GWS-SA5E-735-U-5WQ-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

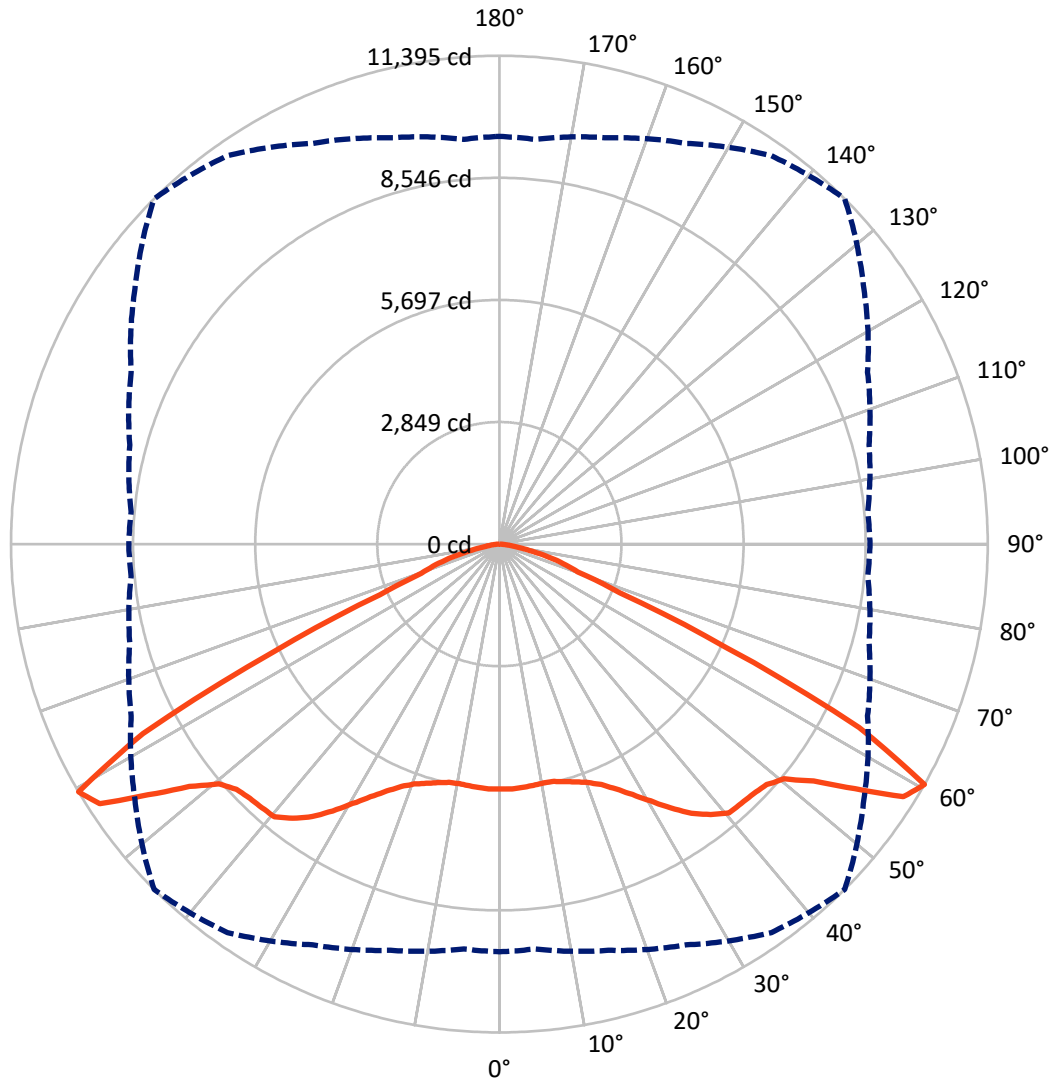
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type V - Short - N/A

REPORT NUMBER: P640660  
CATALOG NUMBER: GWS-SA5E-735-U-5WQ-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P640660

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

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15635.1	0.0	15635.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15635.1	0.0	15635.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31270.3	0.0	31270.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.9	1.7
10°-20°	1630.1	5.2
20°-30°	2883.9	9.2
30°-40°	4643.2	14.8
40°-50°	6381.9	20.4
50°-60°	8504.6	27.2
60°-70°	5300.4	17.0
70°-80°	1218.8	3.9
80°-90°	165.4	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°	31270.3	100.0
0°-180°	31270.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640660

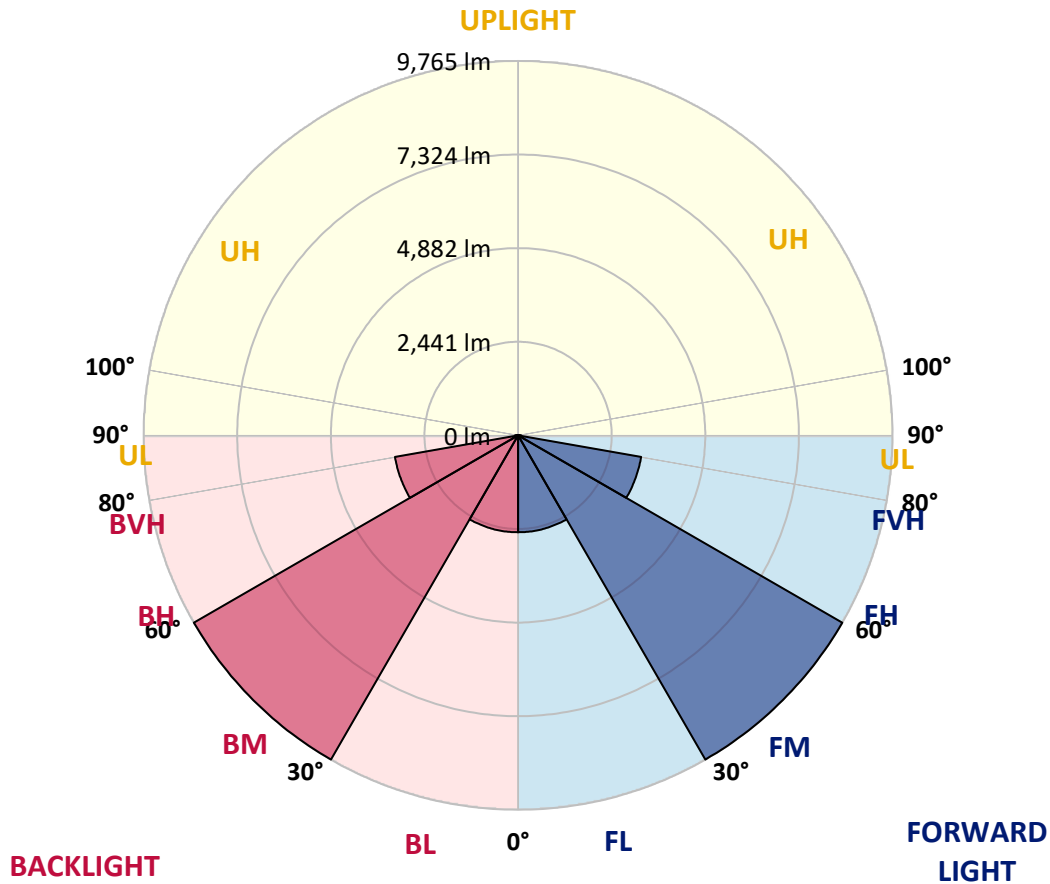
CATALOG NUMBER: GWS-SA5E-735-U-5WQ-W-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2528.0	8.1			
FM (30°-60°)	9764.8	31.2			
FH (60°-80°)	3259.6	10.4			G2/5000
FVH (80°-90°)	82.7	0.3			G1/100
BL (0°-30°)	2528.0	8.1	B4/5000		
BM (30°-60°)	9764.8	31.2	B5		
BH (60°-80°)	3259.6	10.4	B4/5000		G2/5000
BVH (80°-90°)	82.7	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: P640660

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5714.6	5714.6	5714.6	5714.6	5714.6	5714.6	5714.6	5714.6	5714.6	5714.6	5714.6
2.5°	5674.8	5680.1	5690.7	5698.7	5709.3	5719.9	5725.2	5714.6	5709.3	5688.1	5711.9
5°	5680.1	5685.4	5693.4	5693.4	5696.0	5704.0	5704.0	5690.7	5677.4	5653.6	5680.1
7.5°	5672.1	5677.4	5680.1	5677.4	5680.1	5682.8	5677.4	5661.5	5648.2	5627.0	5648.2
10°	5658.9	5664.2	5669.5	5664.2	5658.9	5666.8	5666.8	5656.2	5648.2	5627.0	5650.9
12.5°	5688.1	5696.0	5698.7	5685.4	5680.1	5682.8	5682.8	5672.1	5672.1	5653.6	5680.1
15°	5757.1	5762.4	5754.4	5738.5	5741.1	5749.1	5730.5	5704.0	5698.7	5690.7	5711.9
17.5°	5810.2	5815.5	5807.5	5796.9	5815.5	5834.0	5799.5	5749.1	5733.2	5727.9	5751.8
20°	5868.5	5876.5	5865.9	5879.2	5916.3	5937.6	5895.1	5826.1	5794.2	5786.3	5815.5
22.5°	5964.1	5974.7	5974.7	6003.9	6059.7	6094.2	6041.1	5948.2	5900.4	5887.1	5916.3
25°	6115.4	6123.4	6131.3	6189.7	6280.0	6327.7	6242.8	6115.4	6049.0	6027.8	6043.7
27.5°	6325.1	6338.4	6351.6	6436.6	6548.0	6617.0	6495.0	6335.7	6253.4	6210.9	6242.8
30°	6574.6	6593.2	6625.0	6720.6	6877.2	6954.1	6797.5	6603.8	6510.9	6465.8	6508.2
32.5°	6914.3	6917.0	6940.9	7047.0	7254.1	7341.7	7145.2	6930.2	6834.7	6781.6	6805.5
35°	7317.8	7320.4	7283.3	7392.1	7615.0	7713.3	7482.3	7264.7	7185.1	7169.1	7230.2
37.5°	7731.8	7707.9	7670.8	7718.6	7944.2	8007.9	7763.7	7577.9	7543.4	7572.6	7662.8
40°	8026.5	7986.6	7912.3	7946.8	8175.1	8249.4	7989.3	7814.1	7803.5	7875.2	7984.0
42.5°	8217.6	8175.1	8087.5	8087.5	8244.1	8276.0	8074.2	7981.3	8005.2	8087.5	8191.0
45°	8310.5	8286.6	8236.1	8209.6	8297.2	8310.5	8156.5	8119.4	8164.5	8204.3	8283.9
47.5°	8382.1	8382.1	8366.2	8339.7	8379.5	8387.4	8273.3	8262.7	8321.1	8321.1	8374.2
50°	8509.5	8522.8	8544.0	8538.7	8581.2	8607.7	8522.8	8506.9	8530.8	8453.8	8480.3
52.5°	8844.0	8878.5	8939.5	8987.3	9096.1	9178.4	9027.1	8899.7	8775.0	8605.1	8610.4
55°	9443.8	9459.8	9579.2	9719.9	9903.0	10070.2	9759.7	9364.2	9093.5	8894.4	8897.0
57.5°	9950.8	9974.7	10149.9	10444.5	10855.9	11116.0	10428.6	9767.6	9385.4	9141.2	9149.2
60°	9512.8	9481.0	9812.8	10317.1	11062.9	11394.7	10380.8	9478.3	8928.9	8626.3	8647.6
62.5°	7360.2	7299.2	7668.1	8196.3	9090.8	9422.6	8488.3	7623.0	7102.8	6866.5	6832.0
65°	4480.4	4424.6	4690.1	5013.9	5619.0	5828.7	5401.4	4942.2	4488.3	4345.0	4305.2
67.5°	2439.3	2431.3	2503.0	2662.2	2927.6	3025.8	2943.6	2725.9	2609.1	2508.3	2508.3
70°	1934.9	1919.0	1905.8	1908.4	1932.3	1945.6	1948.2	1937.6	1950.9	1953.5	1942.9
72.5°	1603.2	1597.9	1571.3	1574.0	1563.4	1558.0	1576.6	1587.2	1608.5	1611.1	1611.1
75°	1162.6	1149.3	1162.6	1165.2	1154.6	1154.6	1167.9	1165.2	1175.8	1181.1	1151.9
77.5°	660.9	660.9	679.5	700.7	716.6	716.6	729.9	729.9	743.2	740.5	735.2
80°	363.6	363.6	374.2	387.5	403.4	419.4	432.6	435.3	443.3	440.6	432.6
82.5°	207.0	209.7	215.0	223.0	238.9	252.2	265.4	268.1	276.0	276.0	268.1
85°	98.2	95.6	98.2	103.5	111.5	122.1	135.4	143.3	148.6	148.6	143.3
87.5°	18.6	21.2	18.6	21.2	23.9	31.9	37.2	42.5	50.4	53.1	47.8
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)