

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: P640164

Luminaire Tested: GWS-SA5D-735-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640164  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-5WQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

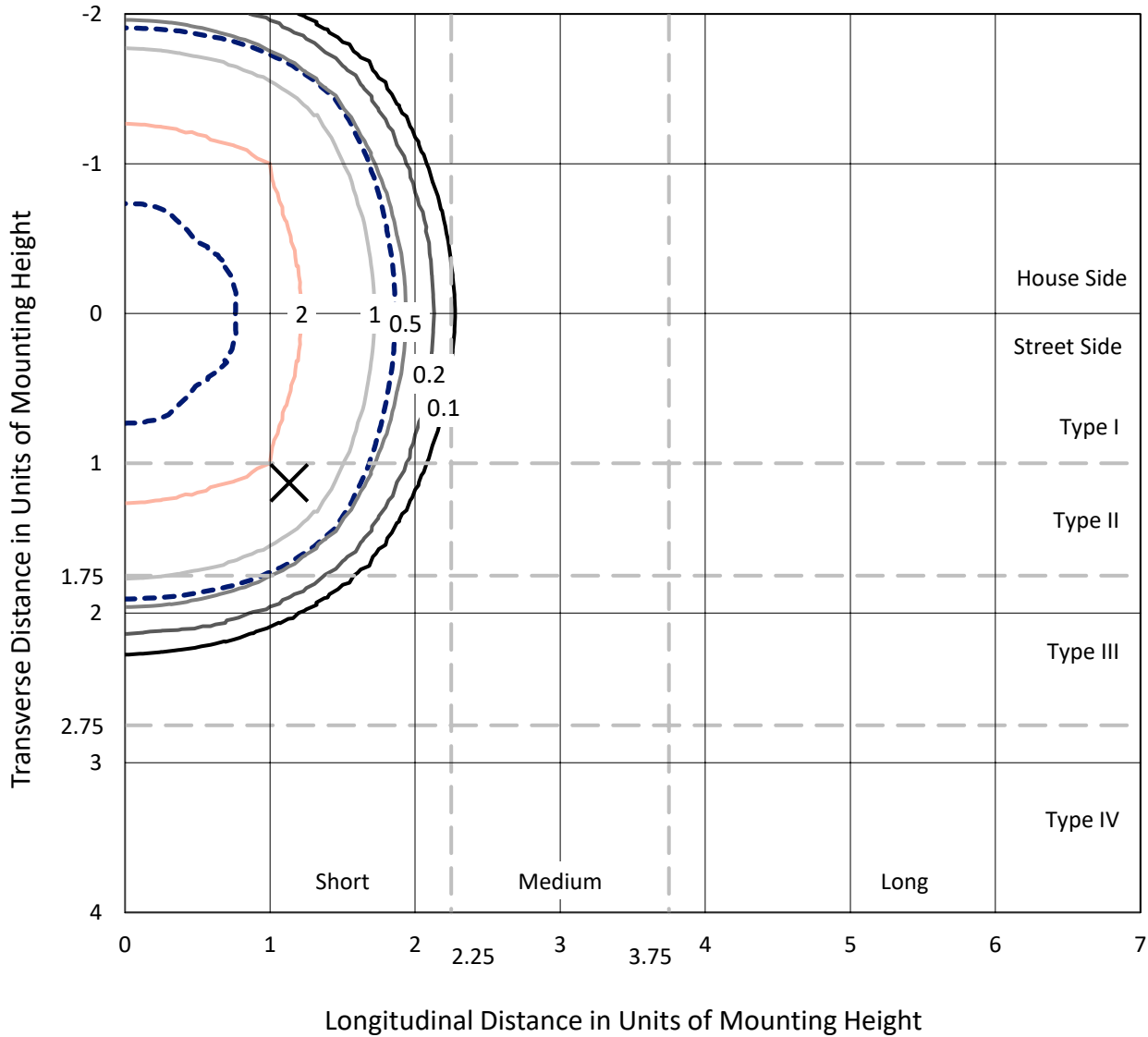
Lumens per Lamp: N/A  
Luminaire Lumens: 15592.5 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

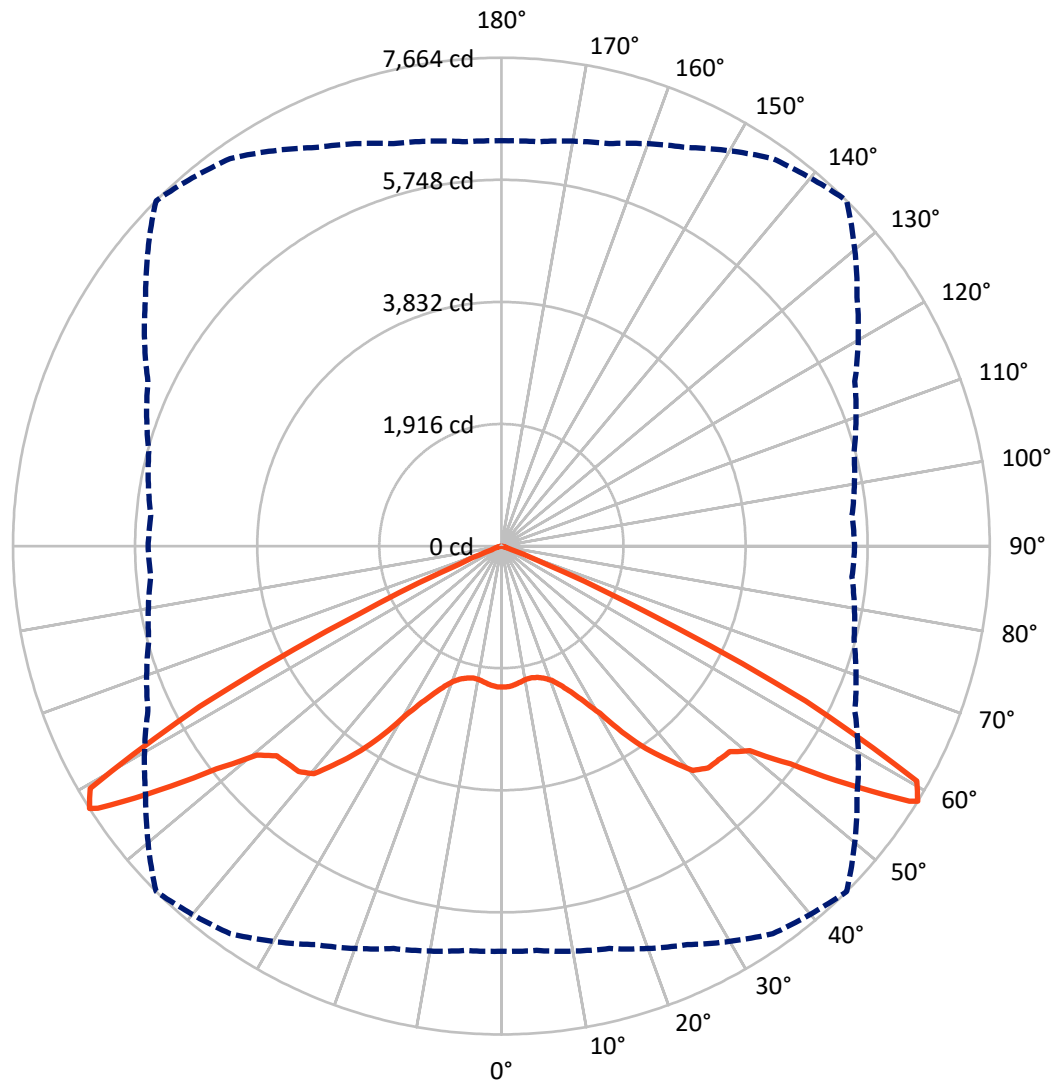
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7796.2	0.0	7796.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7796.2	0.0	7796.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15592.5	0.0	15592.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.3	1.3
10°-20°	610.5	3.9
20°-30°	1154.5	7.4
30°-40°	2277.0	14.6
40°-50°	3603.4	23.1
50°-60°	5296.7	34.0
60°-70°	2364.2	15.2
70°-80°	79.2	0.5
80°-90°	0.6	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°	15592.5	100.0
0°-180°	15592.5	100.0

**Coefficient of Utilization**



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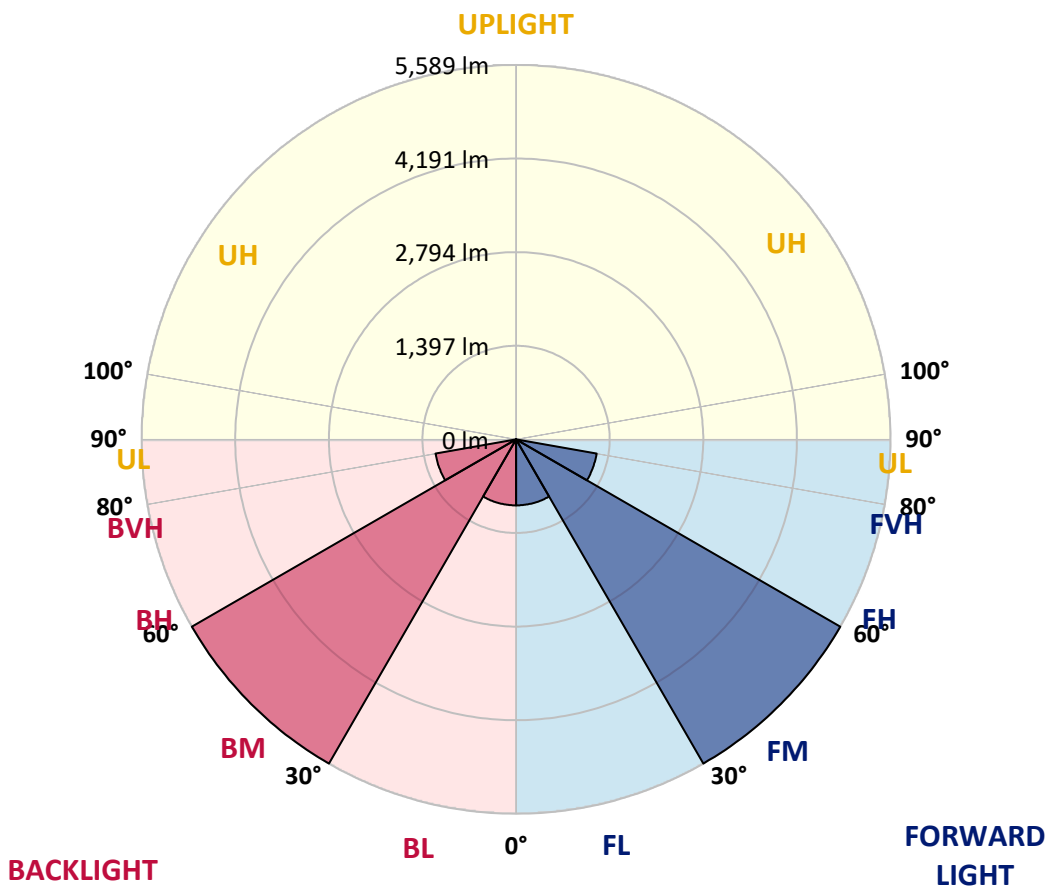
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.7	6.3			
FM (30°-60°)	5588.5	35.8			
FH (60°-80°)	1221.7	7.8			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	985.7	6.3	B2/1000		
BM (30°-60°)	5588.5	35.8	B4/8500		
BH (60°-80°)	1221.7	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2
2.5°	2190.0	2194.2	2198.5	2200.6	2202.7	2209.1	2211.2	2204.9	2204.9	2192.1	2207.0
5°	2179.4	2183.6	2187.9	2185.7	2185.7	2185.7	2183.6	2175.1	2173.0	2160.2	2175.1
7.5°	2160.2	2164.5	2164.5	2158.1	2153.9	2153.9	2151.7	2141.1	2139.0	2126.3	2141.1
10°	2145.4	2147.5	2145.4	2132.6	2124.1	2124.1	2122.0	2117.8	2119.9	2111.4	2124.1
12.5°	2153.9	2156.0	2147.5	2130.5	2119.9	2117.8	2111.4	2105.0	2111.4	2109.3	2122.0
15°	2181.5	2183.6	2168.7	2147.5	2139.0	2139.0	2122.0	2105.0	2113.5	2115.6	2130.5
17.5°	2215.5	2215.5	2196.4	2177.2	2179.4	2179.4	2151.7	2122.0	2124.1	2132.6	2147.5
20°	2255.8	2255.8	2236.7	2232.5	2247.3	2249.5	2215.5	2168.7	2158.1	2164.5	2181.5
22.5°	2328.1	2328.1	2313.2	2323.8	2357.8	2368.4	2317.4	2251.6	2226.1	2230.3	2247.3
25°	2440.6	2440.6	2436.4	2461.9	2510.7	2534.1	2466.1	2379.0	2336.5	2330.2	2349.3
27.5°	2629.7	2631.8	2625.4	2663.7	2725.3	2752.9	2659.4	2544.7	2493.7	2483.1	2502.2
30°	2874.0	2874.0	2876.1	2929.2	3009.9	3046.0	2922.8	2789.0	2729.5	2695.5	2721.0
32.5°	3145.8	3150.1	3171.3	3260.5	3402.9	3477.2	3296.7	3109.7	3014.1	2978.0	3005.7
35°	3594.0	3553.7	3528.2	3594.0	3800.1	3897.8	3666.3	3447.5	3375.2	3371.0	3441.1
37.5°	4038.0	4014.6	3961.5	4029.5	4214.3	4258.9	4004.0	3821.3	3770.3	3798.0	3868.0
40°	4390.6	4348.1	4278.0	4341.7	4583.9	4628.5	4314.1	4133.6	4114.4	4176.0	4271.6
42.5°	4668.8	4609.4	4515.9	4530.8	4726.2	4758.1	4479.8	4343.9	4356.6	4433.1	4541.4
45°	4794.2	4747.4	4664.6	4658.2	4781.4	4783.6	4564.8	4494.7	4528.7	4588.1	4673.1
47.5°	4847.3	4826.0	4779.3	4768.7	4838.8	4821.8	4685.8	4656.1	4688.0	4705.0	4753.8
50°	4979.0	4979.0	4985.3	4993.8	5066.1	5049.1	4953.5	4919.5	4879.1	4819.7	4834.5
52.5°	5348.6	5363.4	5425.0	5493.0	5624.7	5679.9	5524.9	5327.3	5134.0	5004.5	5004.5
55°	6015.5	6030.4	6102.6	6217.3	6459.5	6591.2	6230.1	5794.6	5529.1	5352.8	5376.2
57.5°	6383.0	6400.0	6548.7	6858.8	7328.3	7551.3	6776.0	6130.3	5758.5	5556.7	5573.7
58°	6359.7	6370.3	6538.1	6901.3	7423.9	7663.9	6814.2	6119.6	5728.8	5522.8	5544.0
60°	5650.2	5635.3	5903.0	6421.3	7158.3	7489.7	6434.0	5586.5	5131.9	4921.6	4932.2
62.5°	3693.9	3702.4	3933.9	4475.6	5049.1	5361.3	4494.7	3863.8	3498.4	3371.0	3339.1
65°	1542.1	1514.5	1656.8	1958.5	2302.6	2476.7	2128.4	1801.3	1576.1	1491.1	1514.5
67.5°	397.2	386.6	395.1	494.9	605.4	715.8	601.1	458.8	399.3	403.6	403.6
70°	225.2	212.4	172.1	159.3	155.1	155.1	155.1	155.1	178.4	210.3	216.7
72.5°	169.9	159.3	125.3	108.3	95.6	89.2	93.5	108.3	129.6	157.2	161.4
75°	85.0	85.0	76.5	72.2	63.7	59.5	61.6	68.0	78.6	89.2	87.1
77.5°	17.0	19.1	21.2	25.5	21.2	21.2	21.2	25.5	25.5	27.6	25.5
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	0.0	2.1	2.1	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
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)