

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: P637745

Luminaire Tested: GWS-SA4D-740-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637745  
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-SA4D-740-U-5WQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

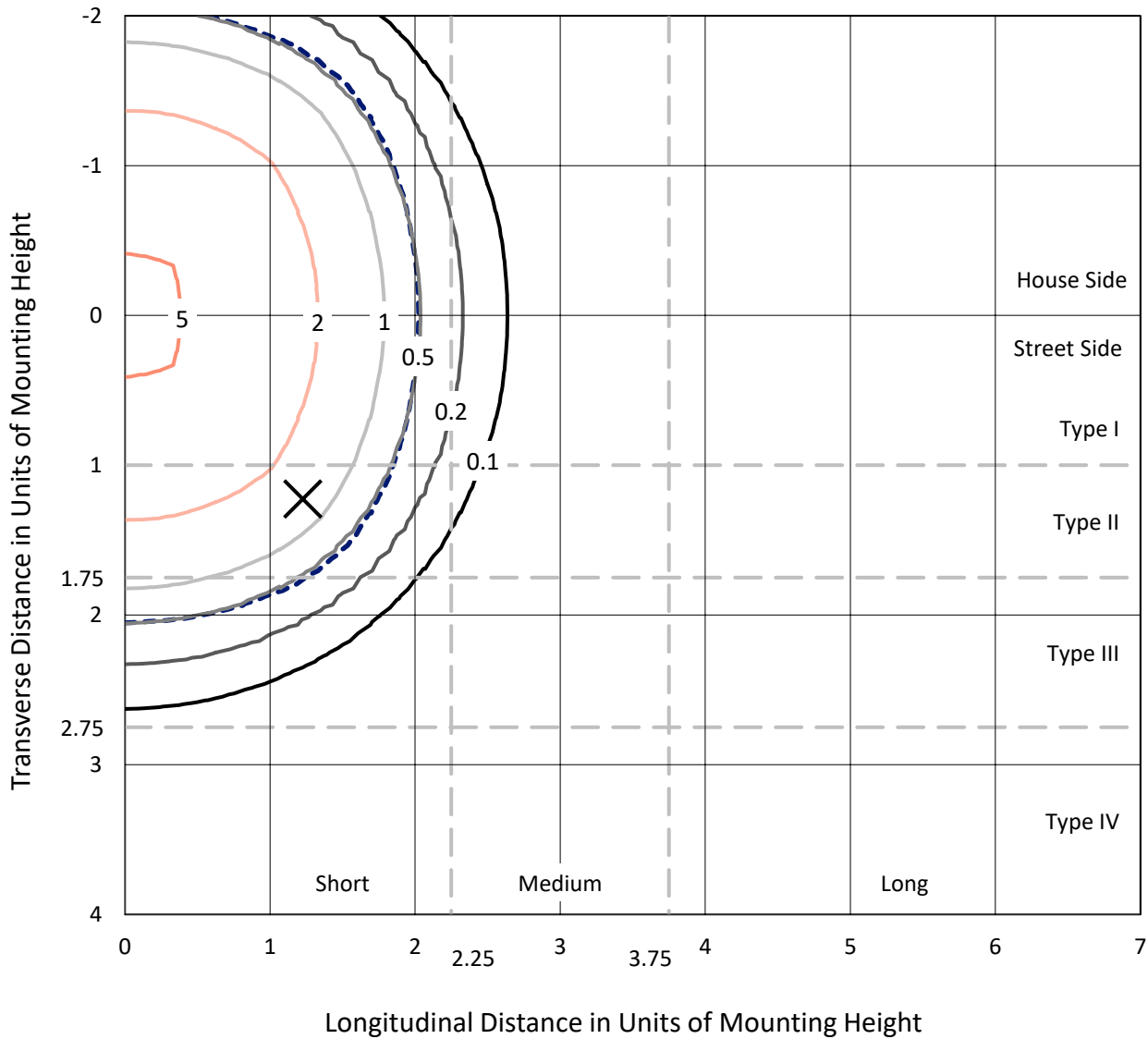
Lumens per Lamp: N/A  
Luminaire Lumens: 20682.1 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

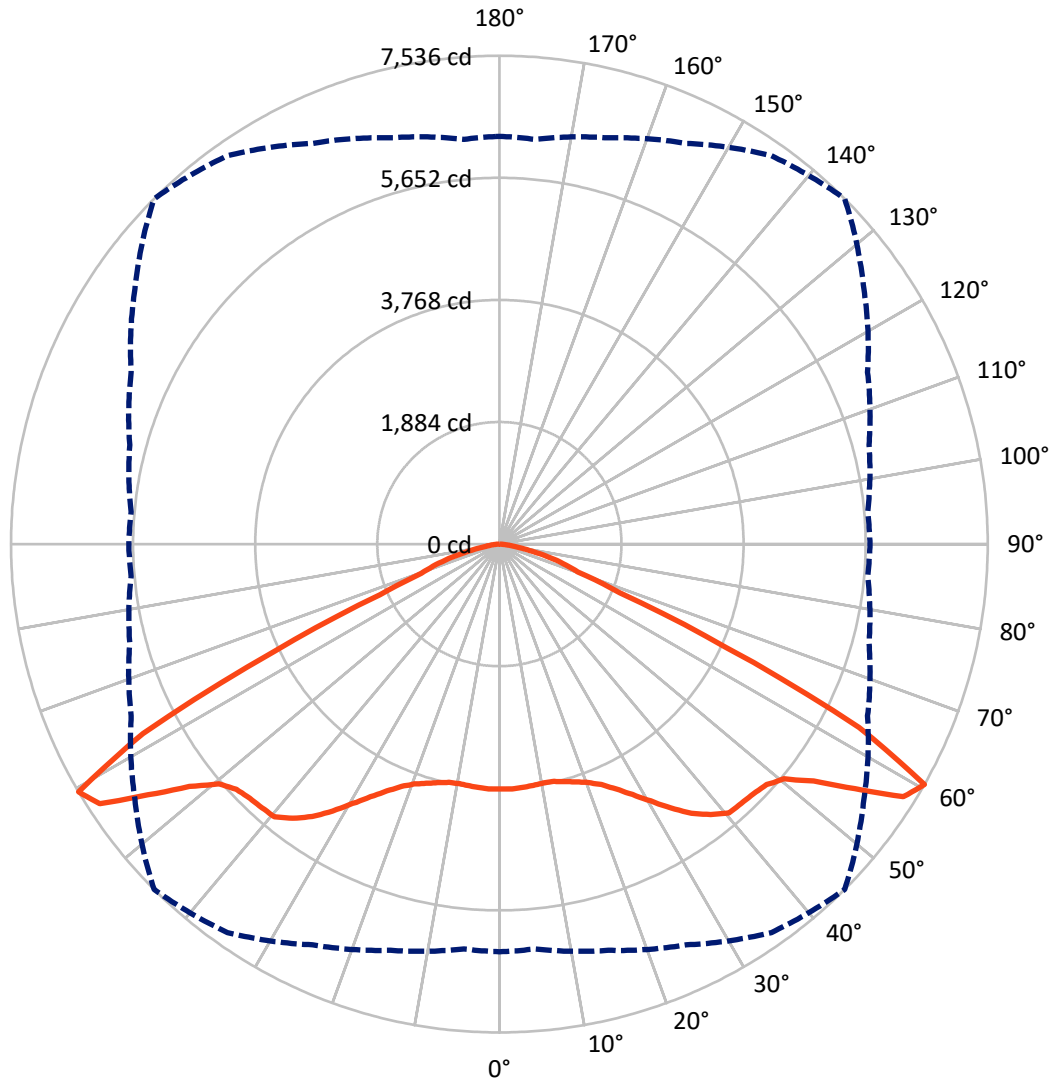
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10341.1	0.0	10341.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10341.1	0.0	10341.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20682.1	0.0	20682.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.4	1.7
10°-20°	1078.1	5.2
20°-30°	1907.4	9.2
30°-40°	3071.0	14.8
40°-50°	4221.0	20.4
50°-60°	5624.9	27.2
60°-70°	3505.7	17.0
70°-80°	806.1	3.9
80°-90°	109.4	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°	20682.1	100.0
0°-180°	20682.1	100.0

**Coefficient of Utilization**



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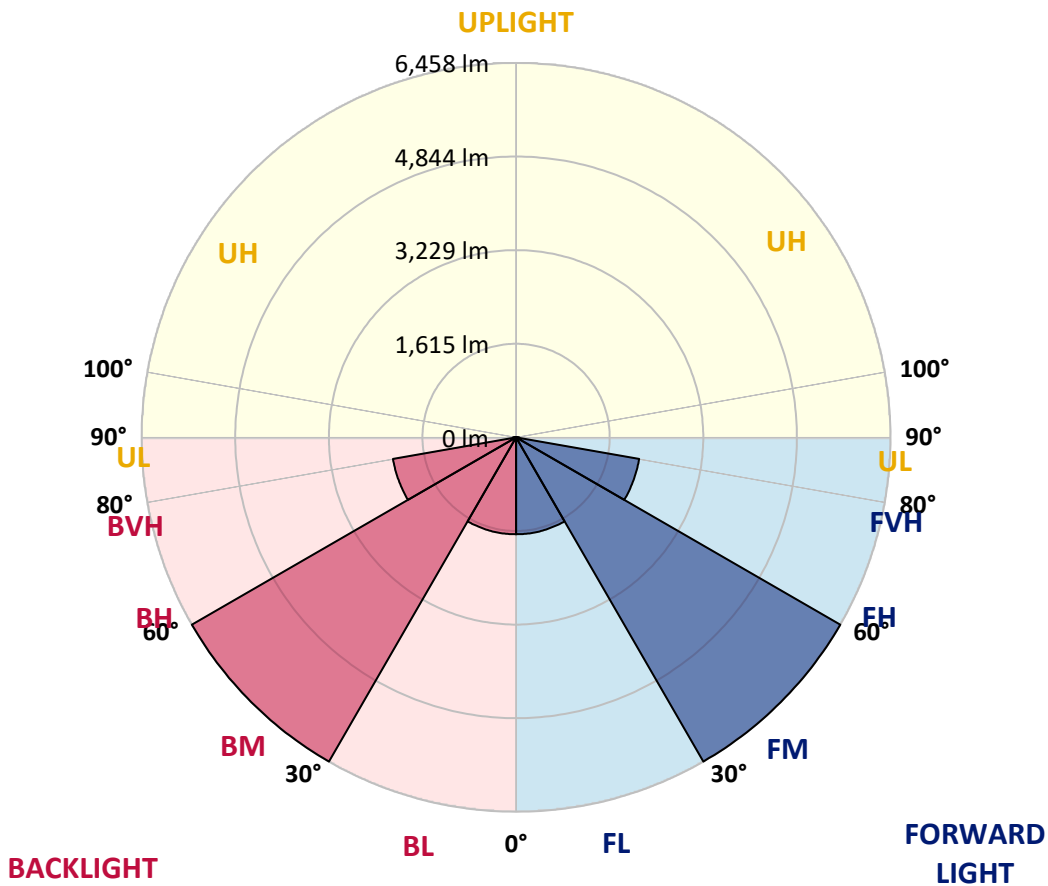
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.0	8.1			
FM (30°-60°)	6458.4	31.2			
FH (60°-80°)	2155.9	10.4			G2/5000
FVH (80°-90°)	54.7	0.3			G1/100
BL (0°-30°)	1672.0	8.1	B3/2500		
BM (30°-60°)	6458.4	31.2	B4/8500		
BH (60°-80°)	2155.9	10.4	B3/2500		G2/5000
BVH (80°-90°)	54.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3779.6	3779.6	3779.6	3779.6	3779.6	3779.6	3779.6	3779.6	3779.6	3779.6	3779.6
2.5°	3753.3	3756.8	3763.8	3769.1	3776.1	3783.1	3786.6	3779.6	3776.1	3762.1	3777.9
5°	3756.8	3760.3	3765.6	3765.6	3767.3	3772.6	3772.6	3763.8	3755.0	3739.2	3756.8
7.5°	3751.5	3755.0	3756.8	3755.0	3756.8	3758.6	3755.0	3744.5	3735.7	3721.7	3735.7
10°	3742.8	3746.3	3749.8	3746.3	3742.8	3748.0	3748.0	3741.0	3735.7	3721.7	3737.5
12.5°	3762.1	3767.3	3769.1	3760.3	3756.8	3758.6	3758.6	3751.5	3751.5	3739.2	3756.8
15°	3807.7	3811.2	3806.0	3795.4	3797.2	3802.4	3790.2	3772.6	3769.1	3763.8	3777.9
17.5°	3842.8	3846.3	3841.1	3834.0	3846.3	3858.6	3835.8	3802.4	3791.9	3788.4	3804.2
20°	3881.4	3886.7	3879.7	3888.5	3913.0	3927.1	3899.0	3853.4	3832.3	3827.0	3846.3
22.5°	3944.6	3951.7	3951.7	3971.0	4007.8	4030.7	3995.6	3934.1	3902.5	3893.7	3913.0
25°	4044.7	4050.0	4055.2	4093.9	4153.5	4185.1	4129.0	4044.7	4000.8	3986.8	3997.3
27.5°	4183.4	4192.2	4200.9	4257.1	4330.9	4376.5	4295.7	4190.4	4136.0	4107.9	4129.0
30°	4348.4	4360.7	4381.8	4445.0	4548.5	4599.4	4495.9	4367.7	4306.3	4276.4	4304.5
32.5°	4573.1	4574.9	4590.7	4660.9	4797.8	4855.8	4725.8	4583.7	4520.5	4485.3	4501.1
35°	4840.0	4841.7	4817.1	4889.1	5036.6	5101.5	4948.8	4804.8	4752.2	4741.6	4782.0
37.5°	5113.8	5098.0	5073.4	5105.0	5254.3	5296.4	5134.9	5012.0	4989.2	5008.5	5068.2
40°	5308.7	5282.3	5233.2	5256.0	5407.0	5456.1	5284.1	5168.2	5161.2	5208.6	5280.6
42.5°	5435.1	5407.0	5349.1	5349.1	5452.6	5473.7	5340.3	5278.8	5294.6	5349.1	5417.5
45°	5496.5	5480.7	5447.4	5429.8	5487.7	5496.5	5394.7	5370.1	5400.0	5426.3	5479.0
47.5°	5543.9	5543.9	5533.4	5515.8	5542.2	5547.4	5471.9	5464.9	5503.5	5503.5	5538.7
50°	5628.2	5637.0	5651.0	5647.5	5675.6	5693.1	5637.0	5626.4	5642.2	5591.3	5608.9
52.5°	5849.4	5872.2	5912.6	5944.2	6016.2	6070.6	5970.5	5886.2	5803.7	5691.4	5694.9
55°	6246.1	6256.7	6335.7	6428.7	6549.8	6660.4	6455.0	6193.5	6014.4	5882.7	5884.5
57.5°	6581.4	6597.2	6713.1	6908.0	7180.1	7352.1	6897.4	6460.3	6207.5	6046.0	6051.3
60°	6291.8	6270.7	6490.1	6823.7	7317.0	7536.4	6865.8	6268.9	5905.6	5705.4	5719.5
62.5°	4868.0	4827.7	5071.7	5421.0	6012.6	6232.1	5614.1	5041.8	4697.8	4541.5	4518.7
65°	2963.3	2926.4	3102.0	3316.2	3716.4	3855.1	3572.5	3268.8	2968.6	2873.8	2847.4
67.5°	1613.3	1608.1	1655.5	1760.8	1936.3	2001.3	1946.9	1802.9	1725.7	1659.0	1659.0
70°	1279.8	1269.2	1260.5	1262.2	1278.0	1286.8	1288.5	1281.5	1290.3	1292.1	1285.0
72.5°	1060.3	1056.8	1039.3	1041.0	1034.0	1030.5	1042.8	1049.8	1063.8	1065.6	1065.6
75°	768.9	760.1	768.9	770.7	763.6	763.6	772.4	770.7	777.7	781.2	761.9
77.5°	437.1	437.1	449.4	463.5	474.0	474.0	482.8	482.8	491.5	489.8	486.3
80°	240.5	240.5	247.5	256.3	266.8	277.4	286.1	287.9	293.2	291.4	286.1
82.5°	136.9	138.7	142.2	147.5	158.0	166.8	175.6	177.3	182.6	182.6	177.3
85°	65.0	63.2	65.0	68.5	73.7	80.8	89.5	94.8	98.3	98.3	94.8
87.5°	12.3	14.0	12.3	14.0	15.8	21.1	24.6	28.1	33.4	35.1	31.6
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)