

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: P643177

Luminaire Tested: GWS-SA6E-735-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-735-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

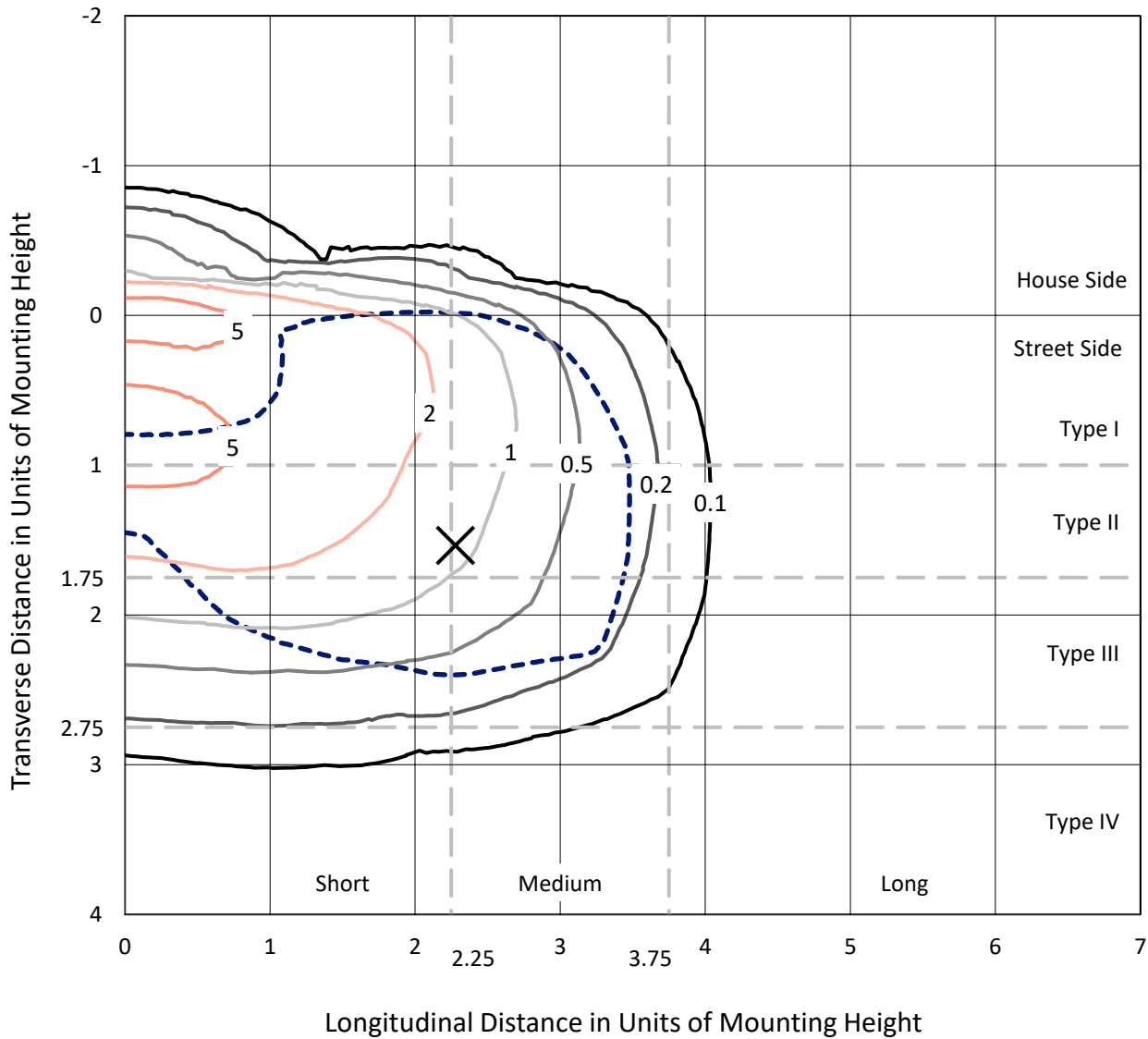
Lumens per Lamp: N/A  
Luminaire Lumens: 34562.5 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

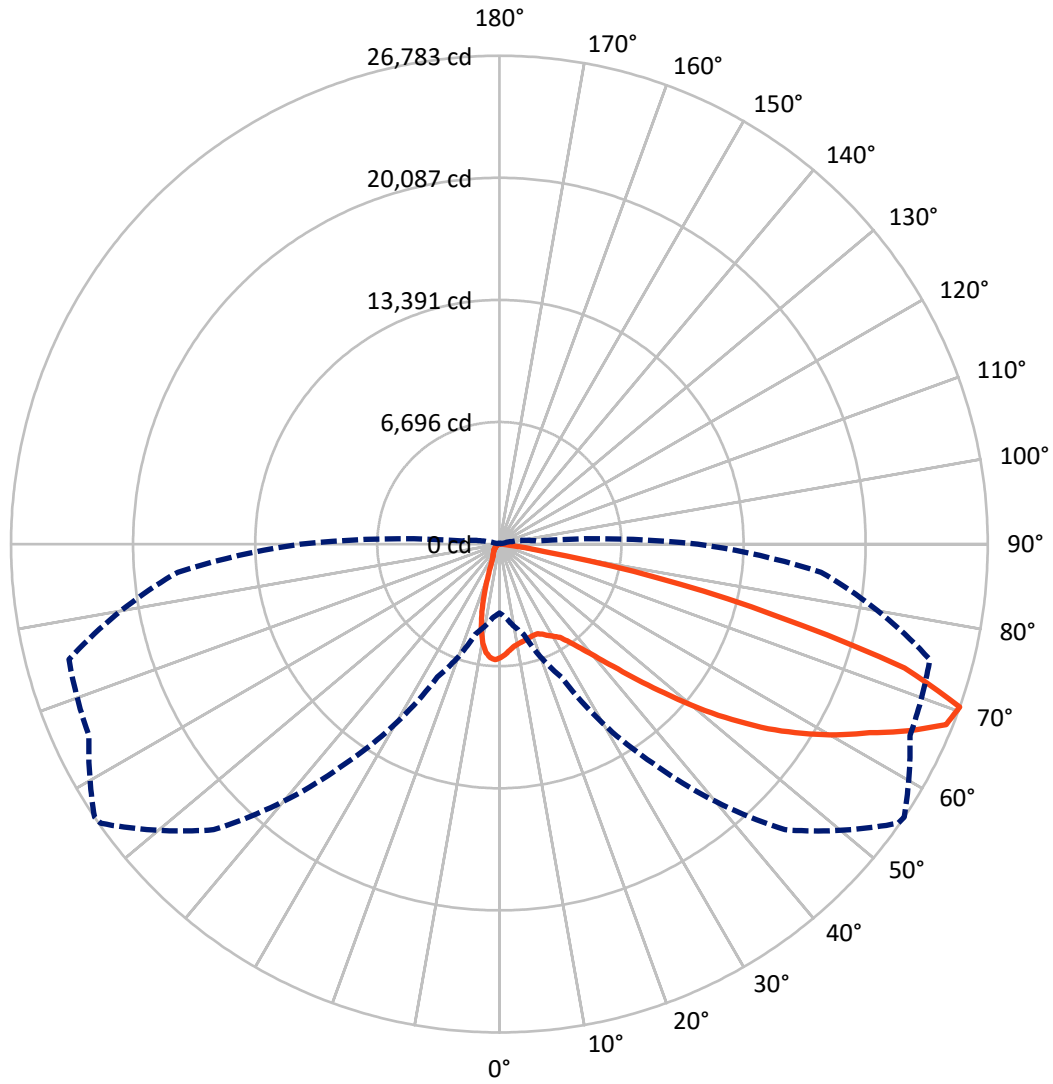
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3104.4	0.0	3104.4
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	31458.1	0.0	31458.1
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	34562.5	0.0	34562.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.1	1.5
10°-20°	1203.4	3.5
20°-30°	1906.2	5.5
30°-40°	3287.3	9.5
40°-50°	5551.1	16.1
50°-60°	8156.4	23.6
60°-70°	9669.9	28.0
70°-80°	4123.6	11.9
80°-90°	129.5	0.4
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°	34562.5	100.0
0°-180°	34562.5	100.0

**Coefficient of Utilization**







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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0
2.5°	5801.5	5792.0	5798.4	5845.8	5934.5	5975.6	6045.2	6057.9	6114.9	6187.7	6216.1
5°	5424.9	5393.2	5409.1	5475.5	5576.8	5690.7	5820.5	5855.3	5997.8	6159.2	6279.4
7.5°	5079.9	5045.1	5083.1	5187.5	5329.9	5453.4	5646.4	5668.6	5896.5	6181.3	6399.7
10°	4538.7	4548.2	4624.1	4807.7	5026.1	5282.5	5542.0	5573.6	5855.3	6254.1	6592.8
12.5°	4124.0	4101.9	4184.2	4393.1	4700.1	5073.6	5462.9	5504.0	5858.5	6364.9	6839.7
15°	3931.0	3924.7	3959.5	4111.4	4408.9	4848.8	5390.1	5443.9	5899.6	6466.2	7073.9
17.5°	3937.3	3927.8	3924.7	4013.3	4234.8	4681.1	5310.9	5380.6	5934.5	6577.0	7320.7
20°	4212.7	4168.4	4089.2	4048.1	4181.0	4573.5	5257.1	5336.3	5985.1	6694.1	7583.4
22.5°	4788.7	4804.5	4592.5	4370.9	4307.6	4586.1	5250.8	5342.6	6095.9	6877.6	7906.3
25°	5940.8	5915.5	5523.0	5026.1	4681.1	4731.7	5361.6	5472.4	6314.3	7140.3	8210.1
27.5°	7384.0	7406.2	6868.1	6076.9	5355.3	5032.4	5564.1	5674.9	6567.5	7304.9	8412.7
30°	8957.1	8934.9	8358.9	7482.2	6311.1	5532.5	5766.7	5864.8	6694.1	7393.5	8621.6
32.5°	10444.6	10394.0	9824.3	8906.4	7529.6	6320.6	6045.2	6102.2	6861.8	7586.6	8903.3
35°	11713.8	11710.7	11213.7	10235.7	8783.0	7308.1	6523.2	6570.6	7175.1	7893.6	9317.9
37.5°	13024.1	12979.8	12422.8	11530.2	10071.2	8390.5	7254.3	7235.3	7668.9	8346.2	9827.5
40°	14100.3	14071.8	13644.5	12786.8	11410.0	9586.9	8140.5	8083.5	8254.4	8972.9	10536.4
42.5°	14897.8	14901.0	14768.1	14245.9	12827.9	10970.0	9254.6	9166.0	9162.8	9919.2	11473.3
45°	15502.4	15543.5	15742.9	15663.8	14502.2	12581.0	10682.0	10590.2	10435.1	11147.3	12546.2
47.5°	15784.1	15837.9	16439.2	16755.7	15967.6	14179.4	12381.6	12188.6	11884.7	12780.4	13745.8
50°	15755.6	15850.5	16689.3	17651.4	17297.0	15799.9	14233.2	14141.4	13644.5	14508.5	14932.7
52.5°	15109.9	15312.5	16705.1	18195.8	18319.3	17293.8	16148.0	15977.1	15736.6	16312.6	16046.8
55°	13356.5	13603.3	16037.3	18369.9	19116.9	18597.8	18021.7	17882.5	17483.7	18015.4	17018.4
57.5°	12403.8	12615.9	14632.0	18284.4	19794.2	19803.7	19689.7	19575.8	19246.6	19699.2	18157.8
60°	11830.9	12043.0	13881.9	17971.1	20408.2	21076.0	21256.4	21243.8	20769.0	21614.1	19493.5
62.5°	10992.2	11283.4	13100.1	17157.7	20845.0	22329.4	22873.8	22788.3	22259.7	23608.0	20816.5
65°	9298.9	9552.1	11498.6	15815.7	20588.6	23367.5	24627.2	24671.5	24060.6	25484.9	21860.9
67.5°	6520.0	6706.7	8640.6	12998.8	18847.8	23709.3	26421.8	26418.6	25377.3	26447.1	21398.8
70°	3779.1	4035.4	5105.2	8036.0	14663.6	22155.3	26690.8	26782.6	24842.4	24437.3	17708.4
72.5°	1462.2	1674.3	2892.8	4269.6	7646.7	16971.0	22959.2	23228.2	20791.2	18851.0	12324.7
75°	436.8	487.4	1361.0	2272.5	3070.1	8197.5	15543.5	15619.5	14261.7	11758.1	6317.4
77.5°	326.0	360.8	595.0	1148.9	1076.1	2484.6	8042.4	8783.0	7570.8	4200.0	1740.8
80°	221.6	262.7	424.1	560.2	398.8	661.5	2259.8	2481.4	2310.5	943.2	436.8
82.5°	98.1	126.6	300.7	281.7	145.6	189.9	696.3	740.6	477.9	284.9	151.9
85°	9.5	12.7	113.9	123.4	53.8	44.3	145.6	145.6	104.4	98.1	63.3
87.5°	0.0	0.0	3.2	6.3	6.3	9.5	12.7	15.8	19.0	25.3	31.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0	6232.0
2.5°	6288.9	6251.0	6298.4	6336.4	6345.9	6276.3	6235.1	6175.0	6162.3	6165.5	6149.7
5°	6374.4	6355.4	6390.2	6349.1	6241.5	6038.9	5864.8	5671.8	5567.3	5507.2	5500.8
7.5°	6532.6	6523.2	6485.2	6298.4	5962.9	5513.5	5079.9	4655.8	4393.1	4298.1	4282.3
10°	6766.9	6747.9	6592.8	6149.7	5434.4	4570.3	3842.4	3234.7	2864.4	2756.8	2623.8
12.5°	7035.9	6997.9	6659.2	5830.0	4636.8	3440.4	2532.0	1851.5	1531.9	1436.9	1436.9
15°	7295.4	7213.1	6621.3	5301.4	3655.6	2237.7	1414.8	1069.8	971.7	946.3	946.3
17.5°	7561.3	7403.0	6472.5	4579.8	2525.7	1323.0	943.2	876.7	864.1	867.2	870.4
20°	7811.3	7564.4	6209.8	3712.6	1611.0	924.2	845.1	829.2	822.9	829.2	826.1
22.5°	8083.5	7713.2	5811.0	2766.2	1047.6	832.4	803.9	791.3	784.9	794.4	794.4
25°	8352.5	7820.8	5282.5	1861.0	832.4	775.4	759.6	746.9	740.6	743.8	743.8
27.5°	8491.8	7779.7	4589.3	1186.9	746.9	718.5	702.6	686.8	677.3	674.2	677.3
30°	8586.8	7653.1	3741.1	845.1	677.3	642.5	626.7	614.0	588.7	572.9	579.2
32.5°	8735.5	7526.5	2820.1	709.0	620.3	566.5	541.2	509.6	474.8	458.9	458.9
35°	8912.8	7352.4	1978.2	639.3	560.2	503.2	455.8	402.0	360.8	348.2	348.2
37.5°	9147.0	7187.8	1316.7	591.9	509.6	449.4	383.0	319.7	275.4	269.0	265.9
40°	9498.3	7048.5	927.4	557.0	465.3	392.5	313.3	246.9	215.2	205.7	205.7
42.5°	9954.1	6906.1	734.3	522.2	427.3	338.7	250.0	196.2	170.9	164.6	161.4
45°	10517.4	6738.4	639.3	490.6	389.3	281.7	199.4	164.6	145.6	139.3	139.3
47.5°	11128.3	6510.5	595.0	449.4	345.0	227.9	167.7	142.4	132.9	129.8	126.6
50°	11729.6	6203.5	557.0	411.5	294.3	186.7	145.6	129.8	123.4	120.3	120.3
52.5°	12255.0	5845.8	509.6	367.1	240.5	161.4	129.8	120.3	113.9	107.6	104.4
55°	12704.5	5456.5	449.4	316.5	196.2	142.4	120.3	110.8	104.4	98.1	95.0
57.5°	13283.7	5235.0	360.8	256.4	161.4	126.6	110.8	101.3	95.0	85.5	85.5
60°	13926.2	5073.6	269.0	202.6	139.3	117.1	101.3	91.8	85.5	76.0	76.0
62.5°	14442.1	4833.0	212.1	164.6	120.3	104.4	91.8	82.3	76.0	66.5	66.5
65°	14638.3	4336.1	174.1	129.8	98.1	91.8	82.3	76.0	66.5	57.0	57.0
67.5°	13752.1	3342.3	145.6	104.4	82.3	79.1	72.8	69.6	57.0	50.6	47.5
70°	10890.9	2038.3	120.3	85.5	69.6	66.5	66.5	60.1	50.6	47.5	44.3
72.5°	7463.2	1050.8	98.1	69.6	60.1	60.1	57.0	53.8	47.5	44.3	44.3
75°	3877.2	351.3	76.0	53.8	47.5	50.6	50.6	47.5	44.3	44.3	41.1
77.5°	1110.9	158.3	57.0	41.1	38.0	38.0	41.1	41.1	41.1	38.0	38.0
80°	288.0	91.8	41.1	31.7	31.7	31.7	31.7	34.8	38.0	34.8	34.8
82.5°	117.1	50.6	28.5	25.3	25.3	25.3	25.3	28.5	31.7	31.7	31.7
85°	72.8	25.3	22.2	22.2	22.2	19.0	19.0	22.2	22.2	25.3	25.3
87.5°	44.3	19.0	19.0	19.0	19.0	15.8	15.8	15.8	15.8	15.8	15.8
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)