

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: 768832\_450MP

Luminaire Tested: **GSM-AM-450-MP-MT-AR-FG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 768832\_450MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GSM-AM-450-MP-MT-AR-FG  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-ROUND DISTRIBUTION  
Light Source: 450 WATT PULSE-START CLEAR ED-37 VBU BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 50000 (1 lamp)  
Luminaire Lumens: 35396.8 lumens  
Efficiency: 70.8%  
Efficacy: 69.7 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

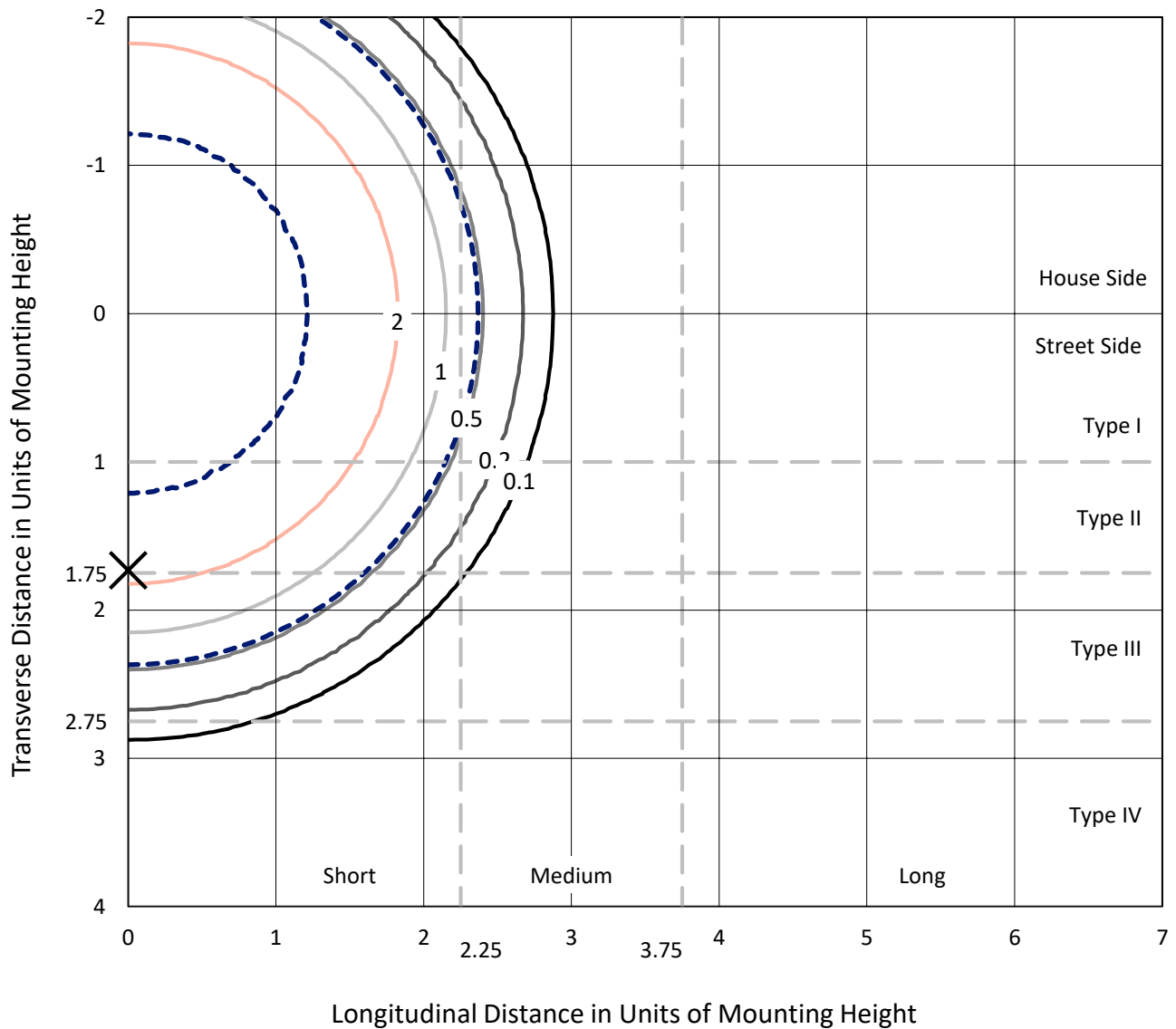
Input Watts (W): 508  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

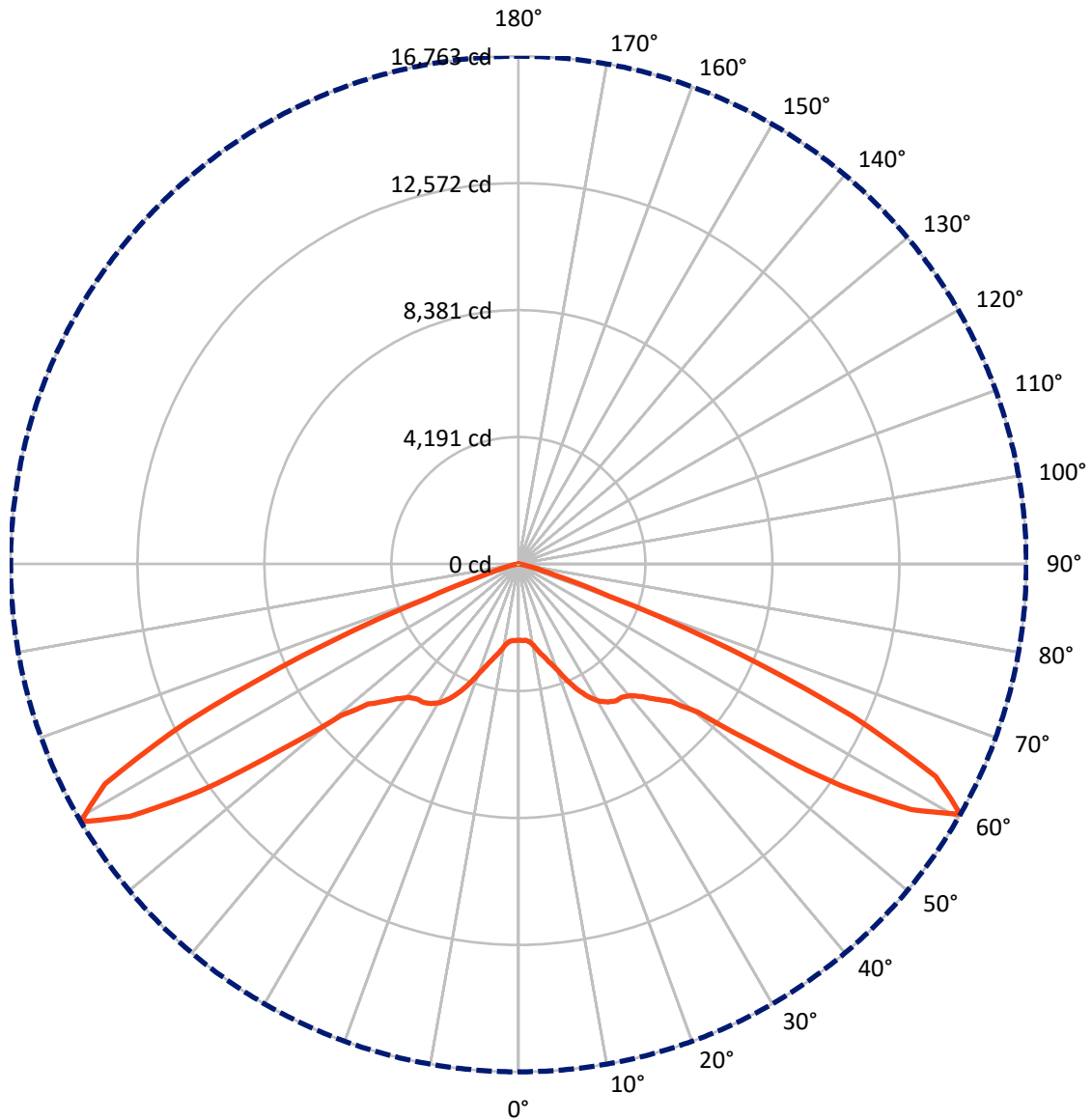
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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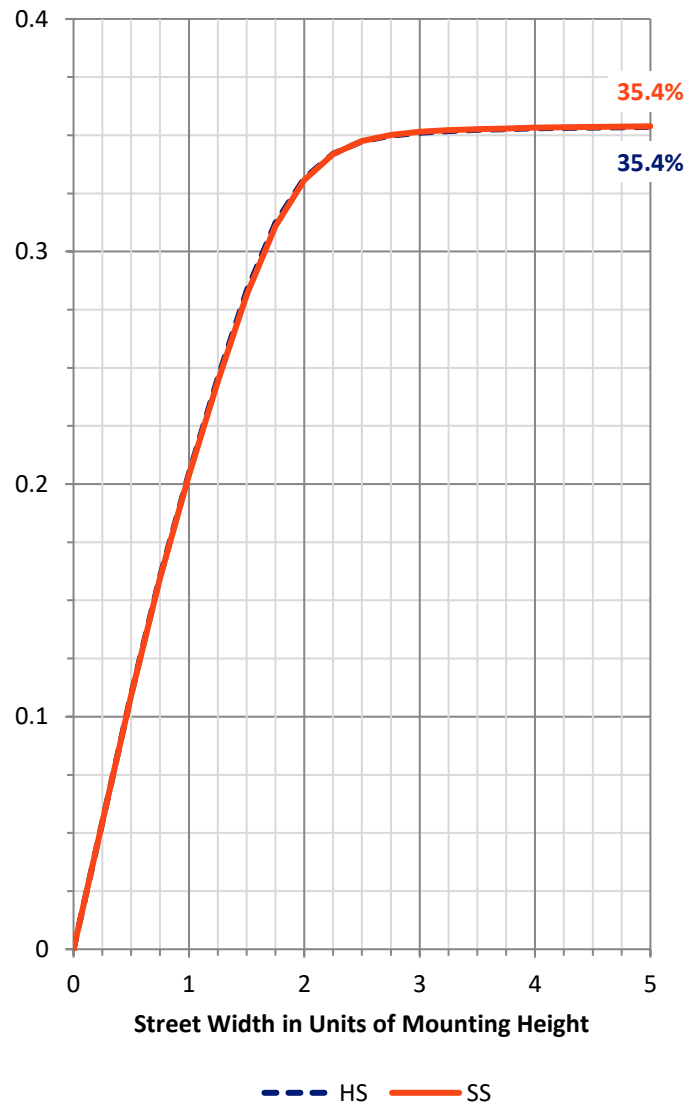
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17698.4	0.0	17698.4
	% Lamp	35.4	0.0	35.4
<b>Street Side</b>	Lumens	17698.4	0.0	17698.4
	% Lamp	35.4	0.0	35.4
<b>Total</b>	Lumens	35396.8	0.0	35396.8
	% Lamp	70.8	0.0	70.8

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	247.5	0.7	0.5
10°-20°	925.1	2.6	1.9
20°-30°	2140.9	6.0	4.3
30°-40°	3463.6	9.8	6.9
40°-50°	5017.8	14.2	10.0
50°-60°	11387.5	32.2	22.8
60°-70°	11137.1	31.5	22.3
70°-80°	1029.6	2.9	2.1
80°-90°	47.7	0.1	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	35396.8	100.0	70.8
0°-180°	35396.8	100.0	70.8

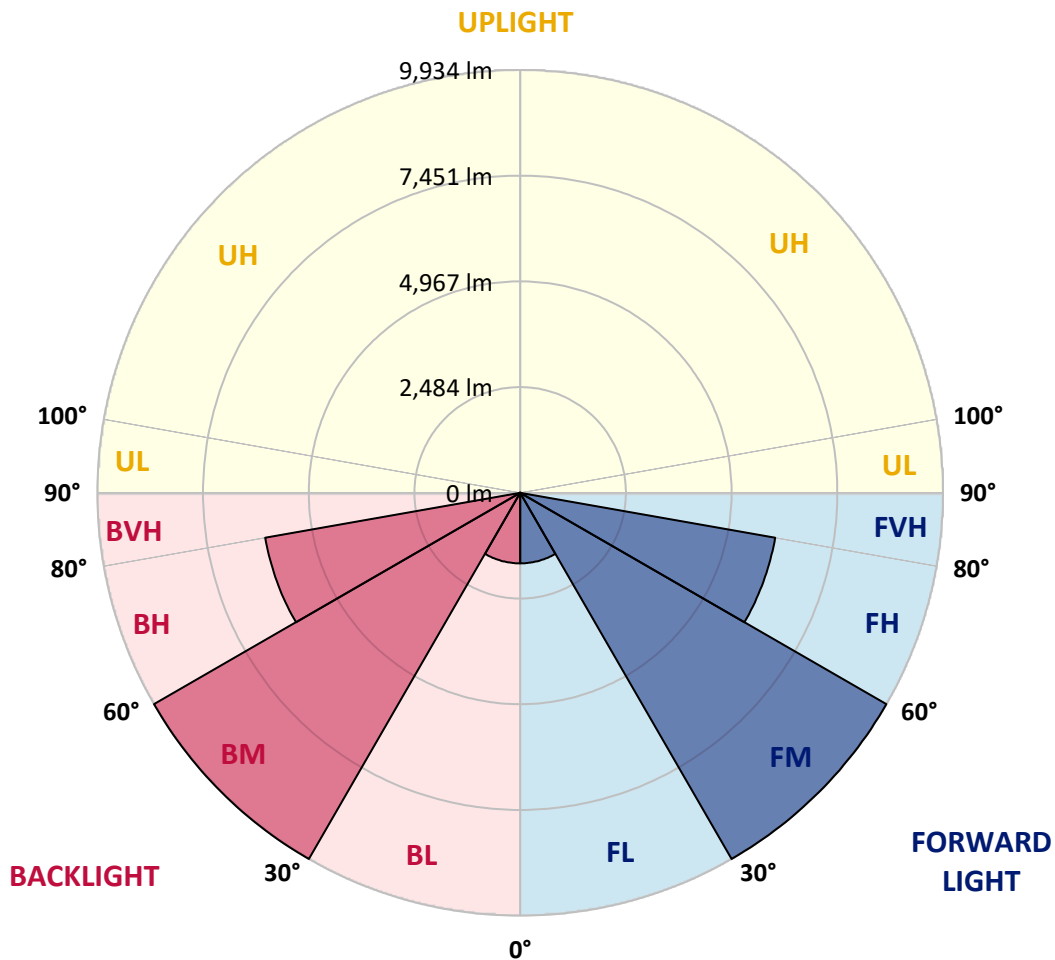


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1656.7	3.3			
FM	(30°-60°)	9934.5	19.9			
FH	(60°-80°)	6083.3	12.2			G3/7500
FVH	(80°-90°)	23.8	0.0			G1/100
BL	(0°-30°)	1656.7	3.3	B3/2500		
BM	(30°-60°)	9934.5	19.9	B5		
BH	(60°-80°)	6083.3	12.2	B5		G3/7500
BVH	(80°-90°)	23.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		14603.2	29.2			

**BUG Rating: B5-U0-G3**  
 Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2513.9
2.5°	2526.4
5°	2530.6
7.5°	2586.1
10°	2723.6
12.5°	2963.9
15°	3181.9
17.5°	3448.6
20°	3780.6
22.5°	4205.6
25°	4622.2
27.5°	4979.2
30°	5255.6
32.5°	5429.2
35°	5544.4
37.5°	5570.8
40°	5704.2
42.5°	5984.7
45°	6363.9
47.5°	6775.0
50°	7684.7
52.5°	9976.4
55°	12909.7
57.5°	15290.3
60°	16762.5
62.5°	15458.3
65°	12129.2
67.5°	7679.2
70°	3190.3
72.5°	1229.2
75°	659.7
77.5°	361.1
80°	170.8
82.5°	79.2
85°	11.1
87.5°	0.0
90°	0.0

(END OF REPORT)