

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: 769295_450MP

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769295_450MP
Test Lab: COOPER LIGHTING
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-AM-450-MP-MT-AR-SG
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: 33756.7 lumens
Efficiency: 67.5%
Efficacy: 66.5 lumens/watt
Luminous Opening: Circular (Dia: 1.6' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U3 - G5

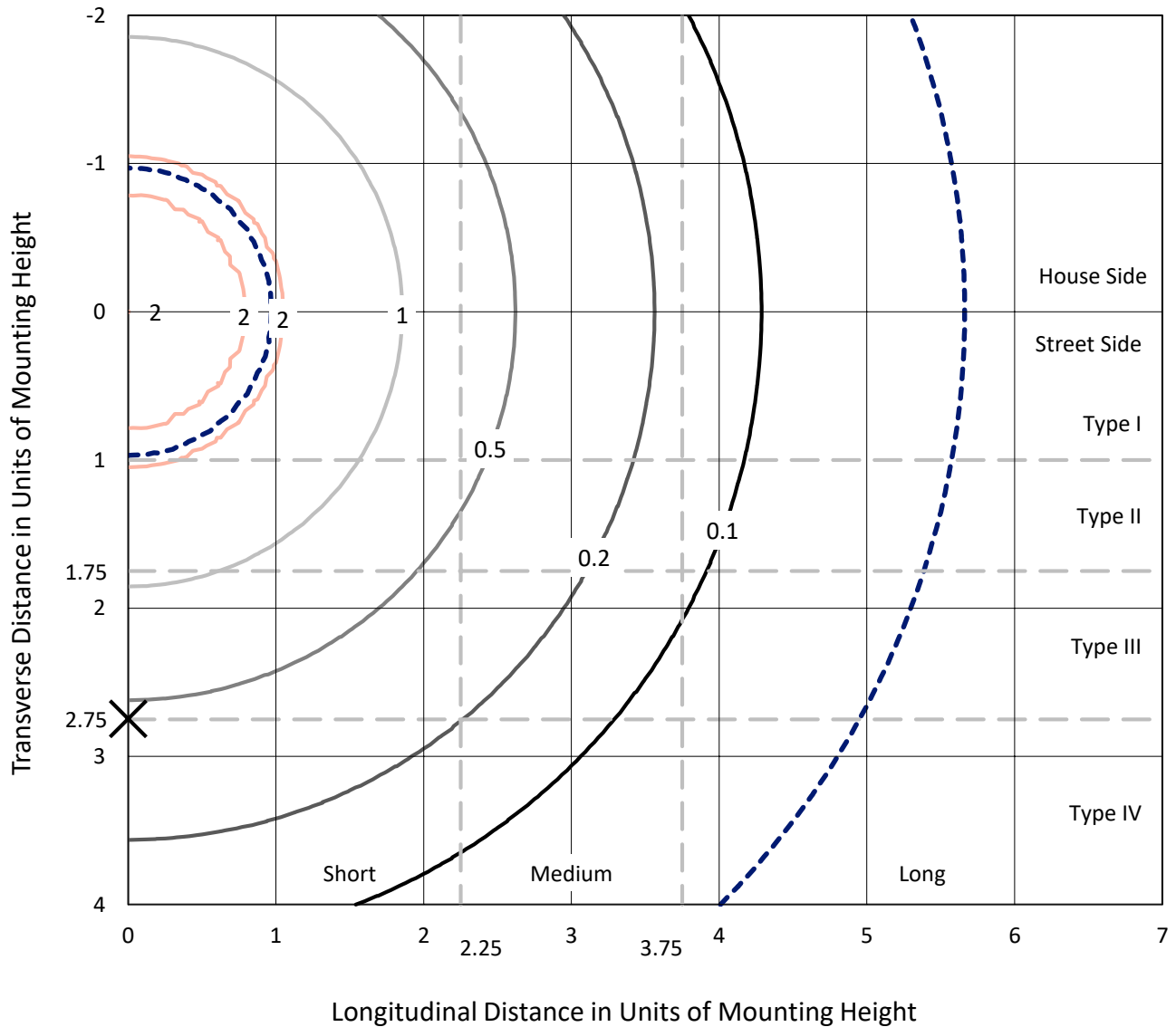
Input Watts (W): 508
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

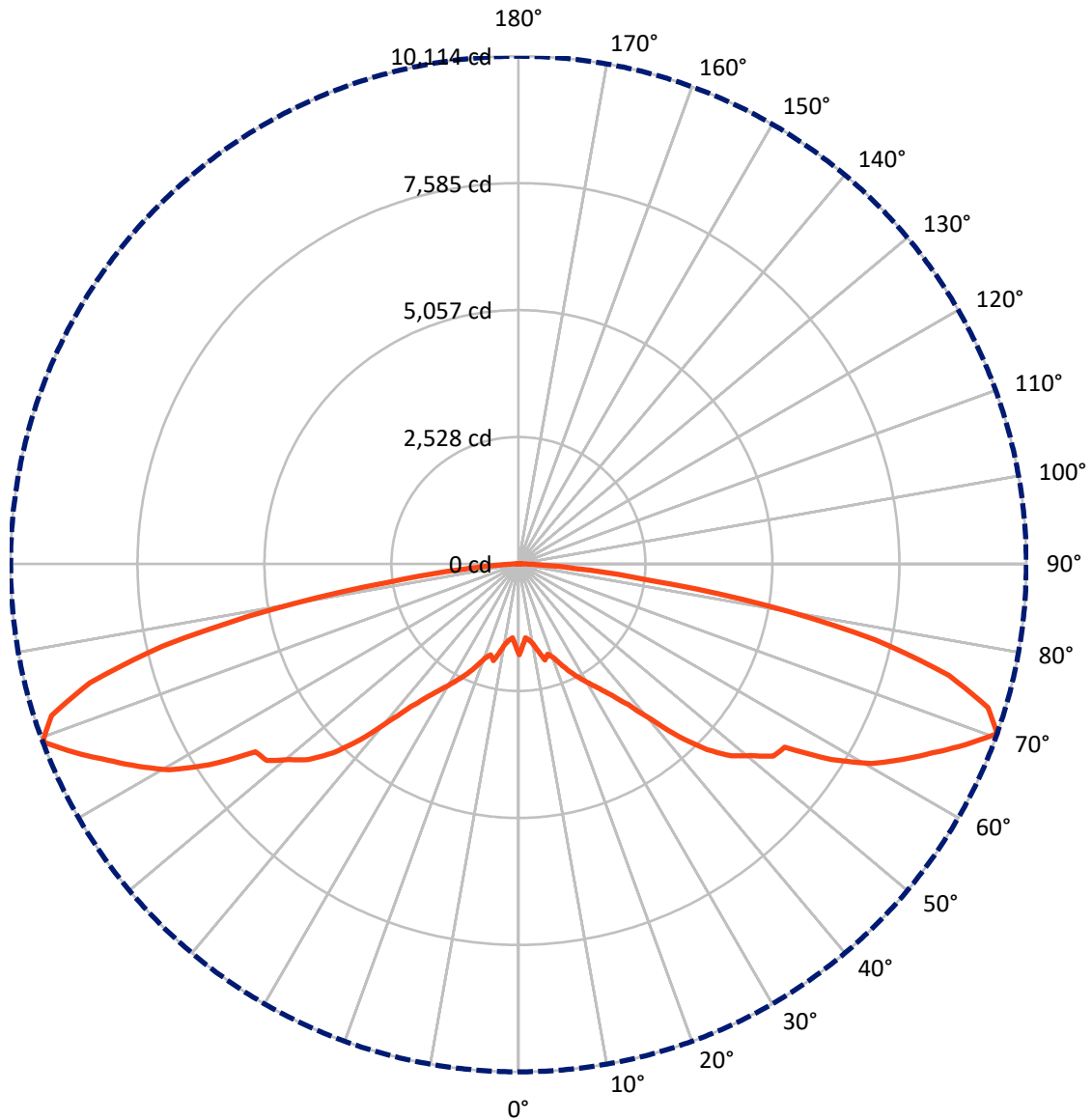
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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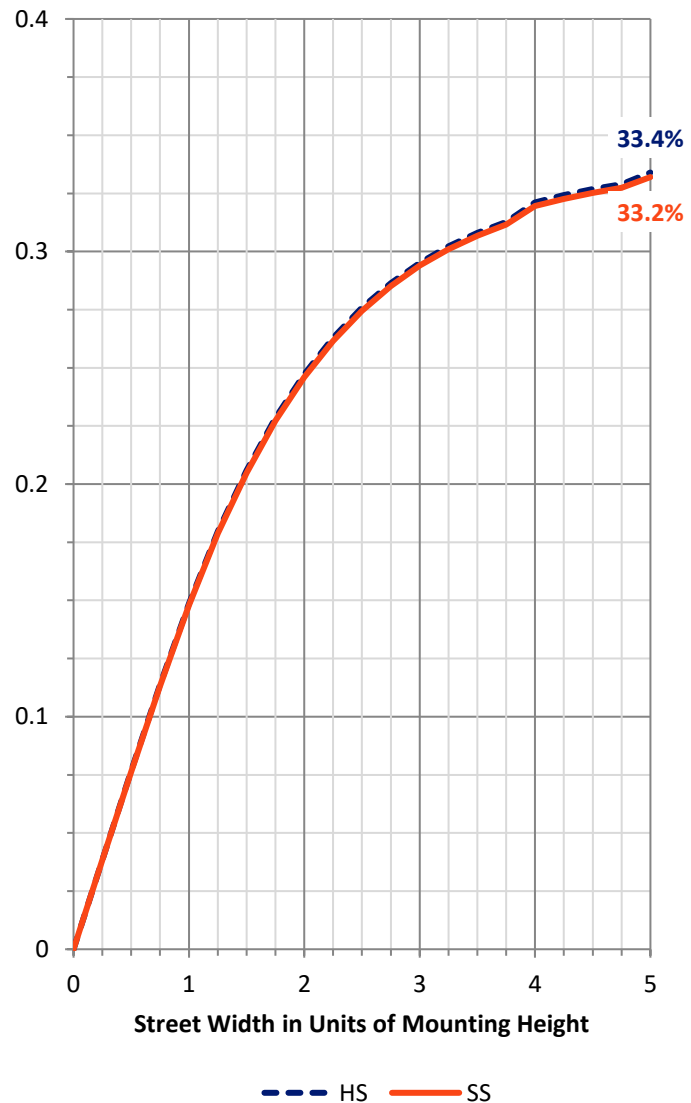
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16842.5	35.8	16878.3
	% Lamp	33.7	0.1	33.8
Street Side	Lumens	16842.5	35.8	16878.3
	% Lamp	33.7	0.1	33.8
Total	Lumens	33685.1	71.6	33756.7
	% Lamp	67.4	0.1	67.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	148.5	0.4	0.3
10°-20°	533.6	1.6	1.1
20°-30°	1105.9	3.3	2.2
30°-40°	2077.0	6.2	4.2
40°-50°	4033.2	11.9	8.1
50°-60°	6112.2	18.1	12.2
60°-70°	9032.1	26.8	18.1
70°-80°	8837.1	26.2	17.7
80°-90°	1805.4	5.3	3.6
90°-100°	63.7	0.2	0.1
100°-110°	7.8	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°	33685.1	99.8	67.4
0°-180°	33756.7	100.0	67.5

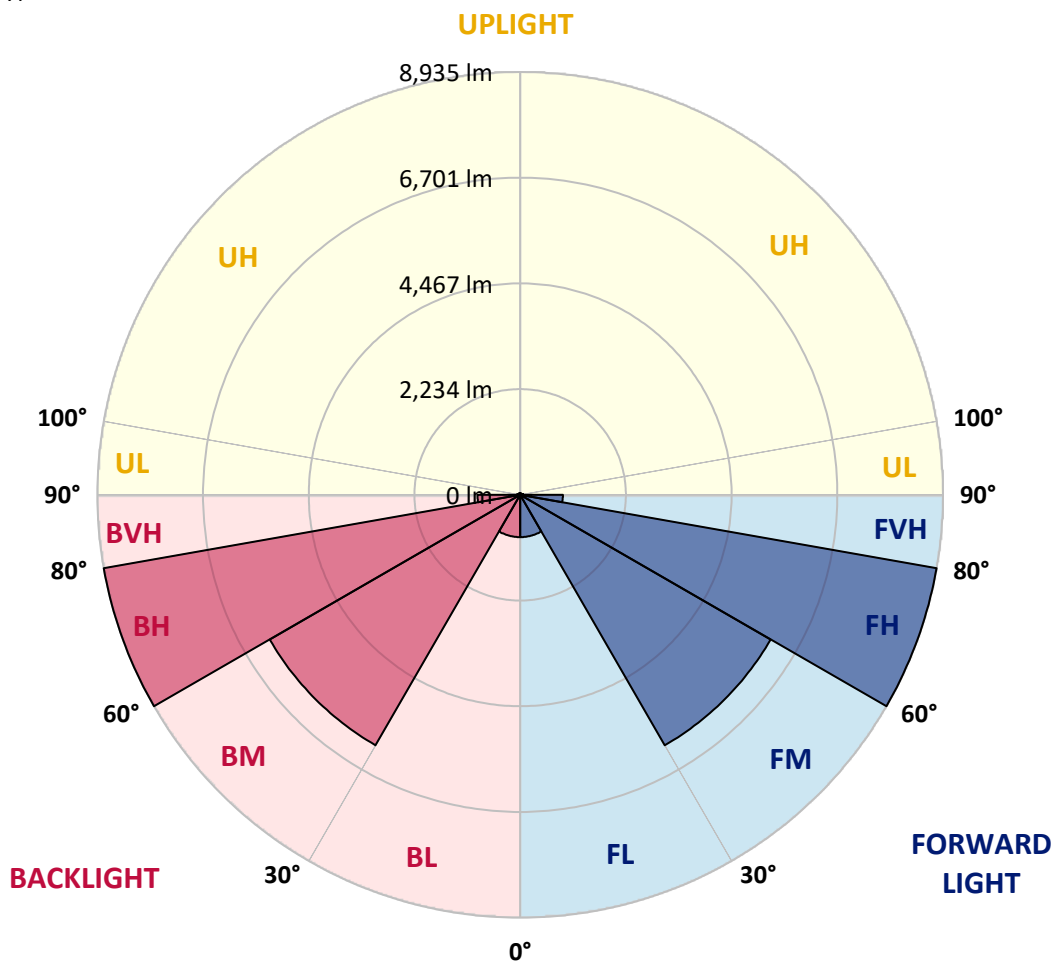


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	894.0	1.8			
FM	(30°-60°)	6111.3	12.2			
FH	(60°-80°)	8934.6	17.9			G4/12000
FVH	(80°-90°)	902.7	1.8			G5
BL	(0°-30°)	894.0	1.8	B2/1000		
BM	(30°-60°)	6111.3	12.2	B4/8500		
BH	(60°-80°)	8934.6	17.9	B5		G4/12000
BVH	(80°-90°)	902.7	1.8			G5
UL	(90°-100°)	63.7	0.1		U3/500	
UH	(100°-180°)	35.8	0.1		U2/50	
Trapped Light		16243.3	32.5			

BUG Rating: B5-U3-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	1806.9
2.5°	1626.4
5°	1475.0
7.5°	1527.8
10°	1619.4
12.5°	1793.1
15°	1984.7
17.5°	1887.5
20°	1987.5
22.5°	2170.8
25°	2370.8
27.5°	2558.3
30°	2747.2
32.5°	2956.9
35°	3213.9
37.5°	3552.8
40°	4059.7
42.5°	4711.1
45°	5273.6
47.5°	5711.1
50°	5997.2
52.5°	6358.3
55°	6434.7
57.5°	7345.8
60°	8073.6
62.5°	8579.2
65°	9069.4
67.5°	9602.8
70°	10113.9
72.5°	9777.8
75°	8856.9
77.5°	7272.2
80°	5044.4
82.5°	2597.2
85°	1129.2
87.5°	334.7
90°	119.4
92.5°	73.6
95°	48.6
97.5°	37.5
100°	27.8
102.5°	12.5
105°	2.8
107.5°	0.0
110°	0.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)