

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\_400MP

Luminaire Tested: **GSM-AM-400-MP-MT-AR-SG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 769295\_400MP  
Test Lab: COOPER LIGHTING  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GSM-AM-400-MP-MT-AR-SG  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE- VERTICAL LAMP, ROUND DISTRIBUTION  
Light Source: 400 WATT PULSE-START CLEAR ED-37 VBU BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 44000 (1 lamp)  
Luminaire Lumens: 29705.9 lumens  
Efficiency: 67.5%  
Efficacy: 65.7 lumens/watt  
Luminous Opening: Circular (Dia: 1.6' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U3 - G5

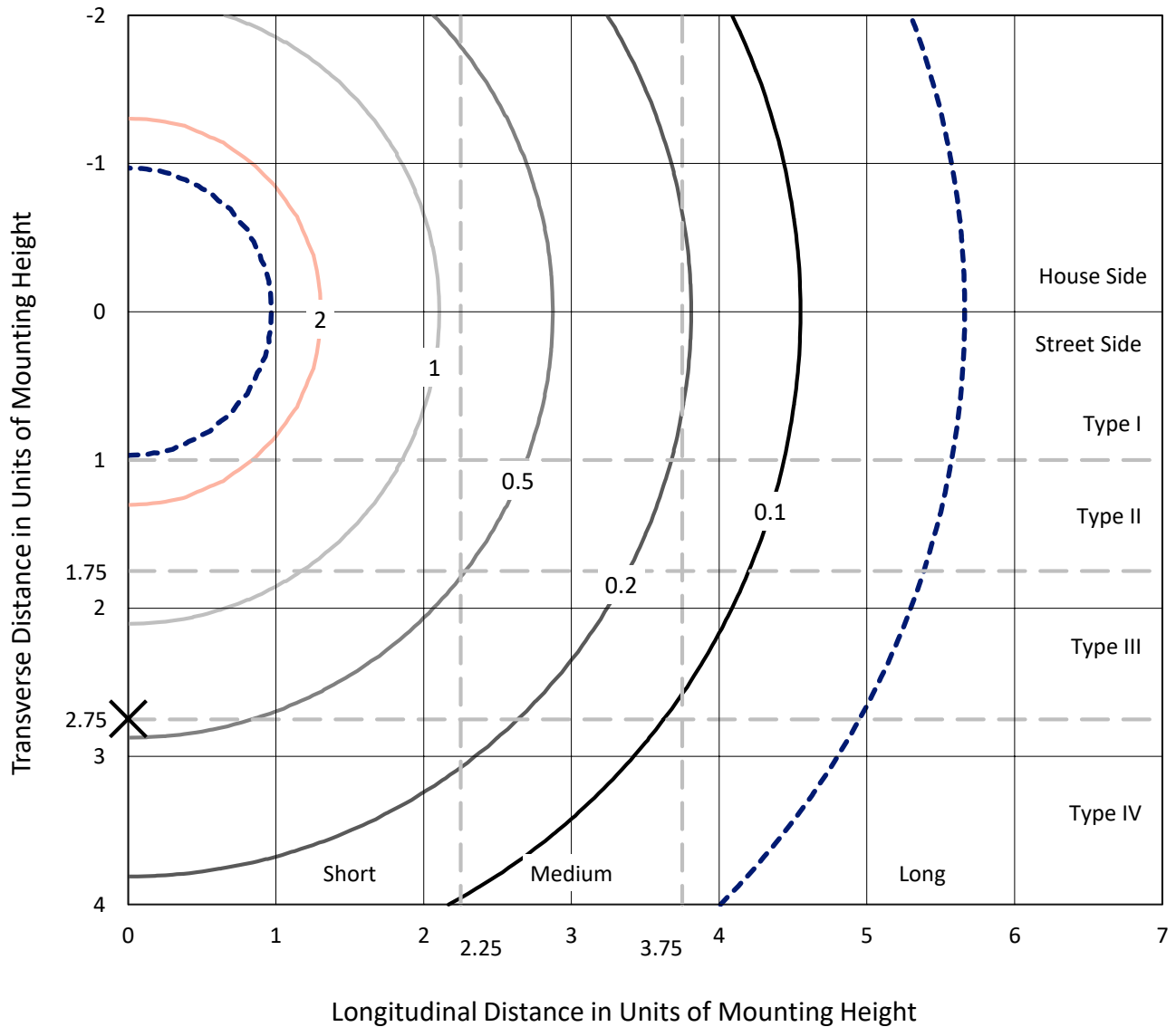
Input Watts (W): 452  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: 769295\_400MP  
 CATALOG NUMBER: GSM-AM-400-MP-MT-AR-SG

### Iso-Footcandle Lines of Horizontal Illumination

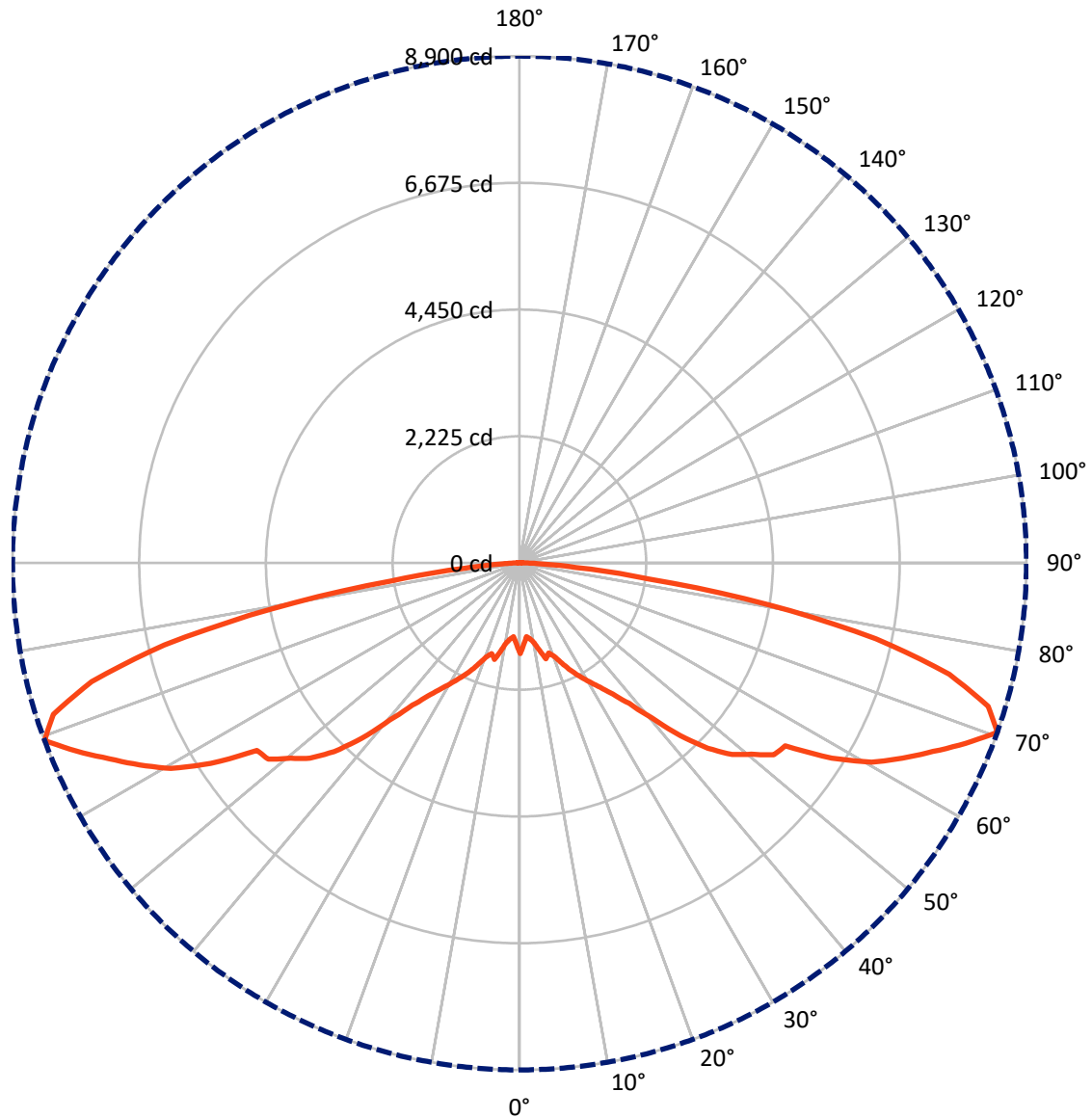
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: 769295\_400MP  
CATALOG NUMBER: GSM-AM-400-MP-MT-AR-SG

### Luminous Intensity Polar Plot



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

REPORT NUMBER: 769295\_400MP  
 CATALOG NUMBER: GSM-AM-400-MP-MT-AR-SG

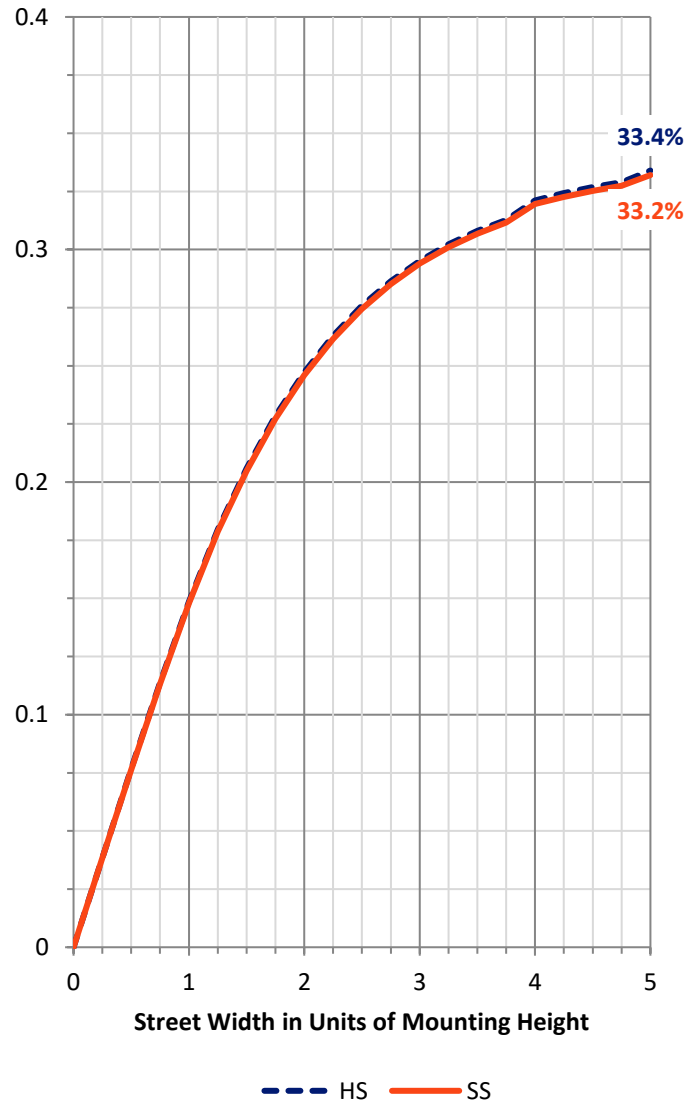
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14821.5	31.5	14853.0
	% Lamp	33.7	0.1	33.8
<b>Street Side</b>	Lumens	14821.5	31.5	14853.0
	% Lamp	33.7	0.1	33.8
<b>Total</b>	Lumens	29643.0	63.0	29705.9
	% Lamp	67.4	0.1	67.5

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	130.7	0.4	0.3
10°-20°	469.5	1.6	1.1
20°-30°	973.2	3.3	2.2
30°-40°	1827.8	6.2	4.2
40°-50°	3549.3	11.9	8.1
50°-60°	5378.8	18.1	12.2
60°-70°	7948.2	26.8	18.1
70°-80°	7776.7	26.2	17.7
80°-90°	1588.8	5.3	3.6
90°-100°	56.1	0.2	0.1
100°-110°	6.9	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°	29643.0	99.8	67.4
0°-180°	29705.9	100.0	67.5



REPORT NUMBER: 769295\_400MP

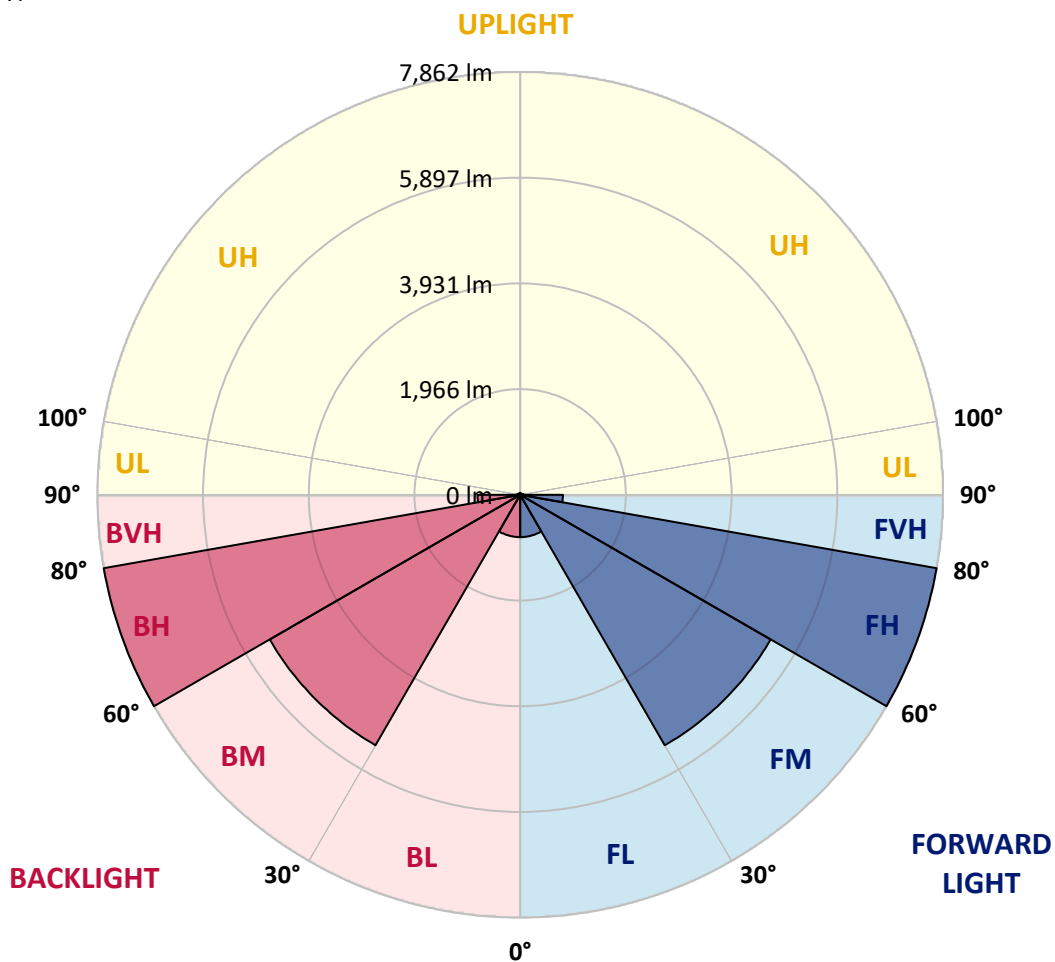
CATALOG NUMBER: GSM-AM-400-MP-MT-AR-SG

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

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	786.7	1.8			
FM	(30°-60°)	5377.9	12.2			
FH	(60°-80°)	7862.5	17.9			G4/12000
FVH	(80°-90°)	794.4	1.8			G5
BL	(0°-30°)	786.7	1.8	B2/1000		
BM	(30°-60°)	5377.9	12.2	B4/8500		
BH	(60°-80°)	7862.5	17.9	B5		G4/12000
BVH	(80°-90°)	794.4	1.8			G5
UL	(90°-100°)	56.1	0.1		U3/500	
UH	(100°-180°)	31.5	0.1		U2/50	
Trapped Light		14294.1	32.5			

**BUG Rating: B5-U3-G5**

Type V Short



REPORT NUMBER: 769295\_400MP

CATALOG NUMBER: GSM-AM-400-MP-MT-AR-SG

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1590.1
2.5°	1431.2
5°	1298.0
7.5°	1344.4
10°	1425.1
12.5°	1577.9
15°	1746.6
17.5°	1661.0
20°	1749.0
22.5°	1910.3
25°	2086.3
27.5°	2251.3
30°	2417.6
32.5°	2602.1
35°	2828.2
37.5°	3126.4
40°	3572.6
42.5°	4145.8
45°	4640.8
47.5°	5025.8
50°	5277.6
52.5°	5595.3
55°	5662.6
57.5°	6464.3
60°	7104.8
62.5°	7549.7
65°	7981.1
67.5°	8450.4
70°	8900.2
72.5°	8604.4
75°	7794.1
77.5°	6399.6
80°	4439.1
82.5°	2285.6
85°	993.7
87.5°	294.6
90°	105.1
92.5°	64.8
95°	42.8
97.5°	33.0
100°	24.4
102.5°	11.0
105°	2.4
107.5°	0.0
110°	0.0



REPORT NUMBER: 769295\_400MP  
CATALOG NUMBER: GSM-AM-400-MP-MT-AR-SG

**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)