

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\_320MP

Luminaire Tested: **GSM-AM-320-MP-MT-AR-FG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 768832\_320MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GSM-AM-320-MP-MT-AR-FG  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-ROUND DISTRIBUTION  
Light Source: 320 WATT PULSE-START CLEAR ED-37 VBU BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 33000 (1 lamp)  
Luminaire Lumens: 23361.8 lumens  
Efficiency: 70.8%  
Efficacy: 66.7 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

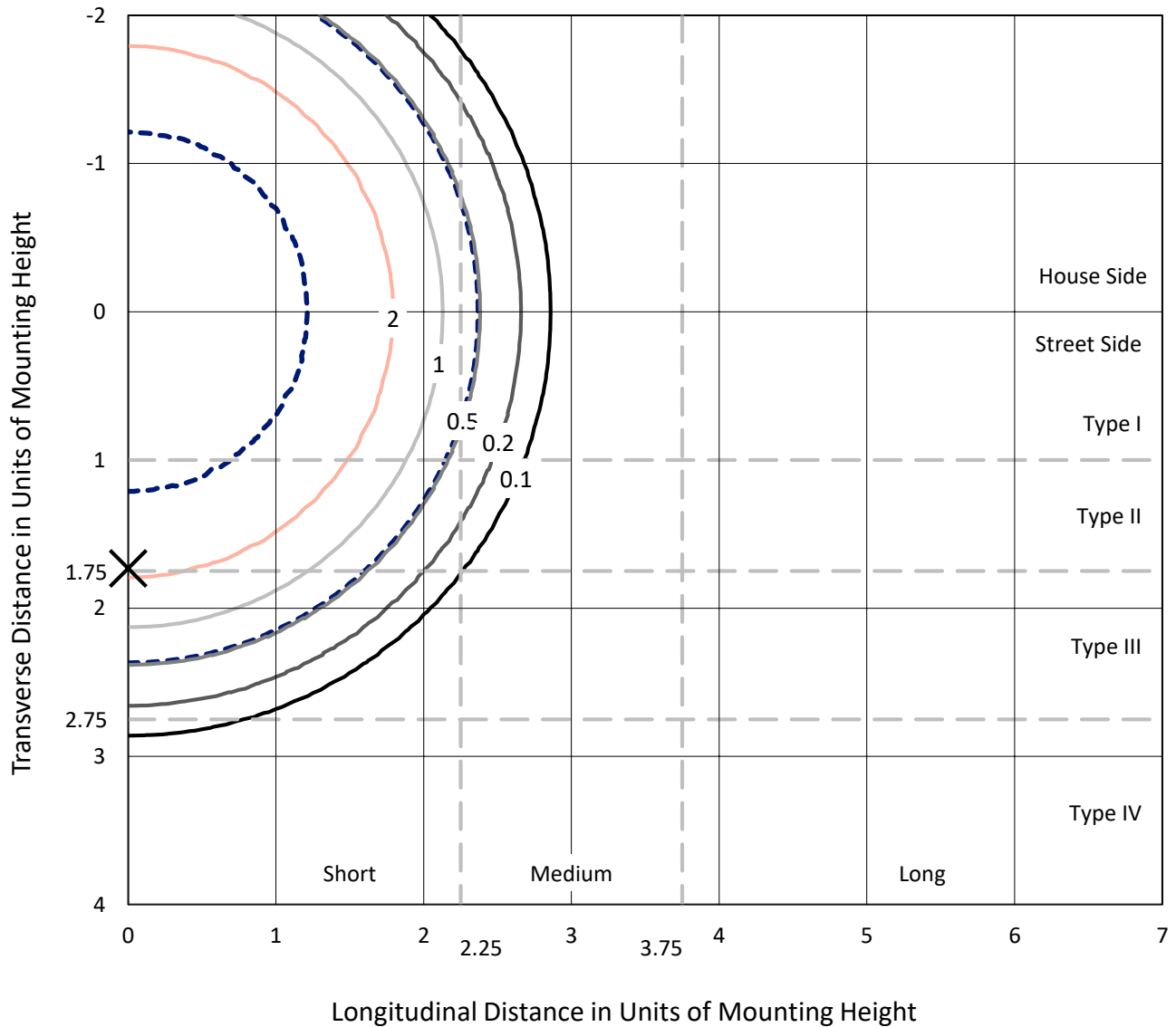
Input Watts (W): 350  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

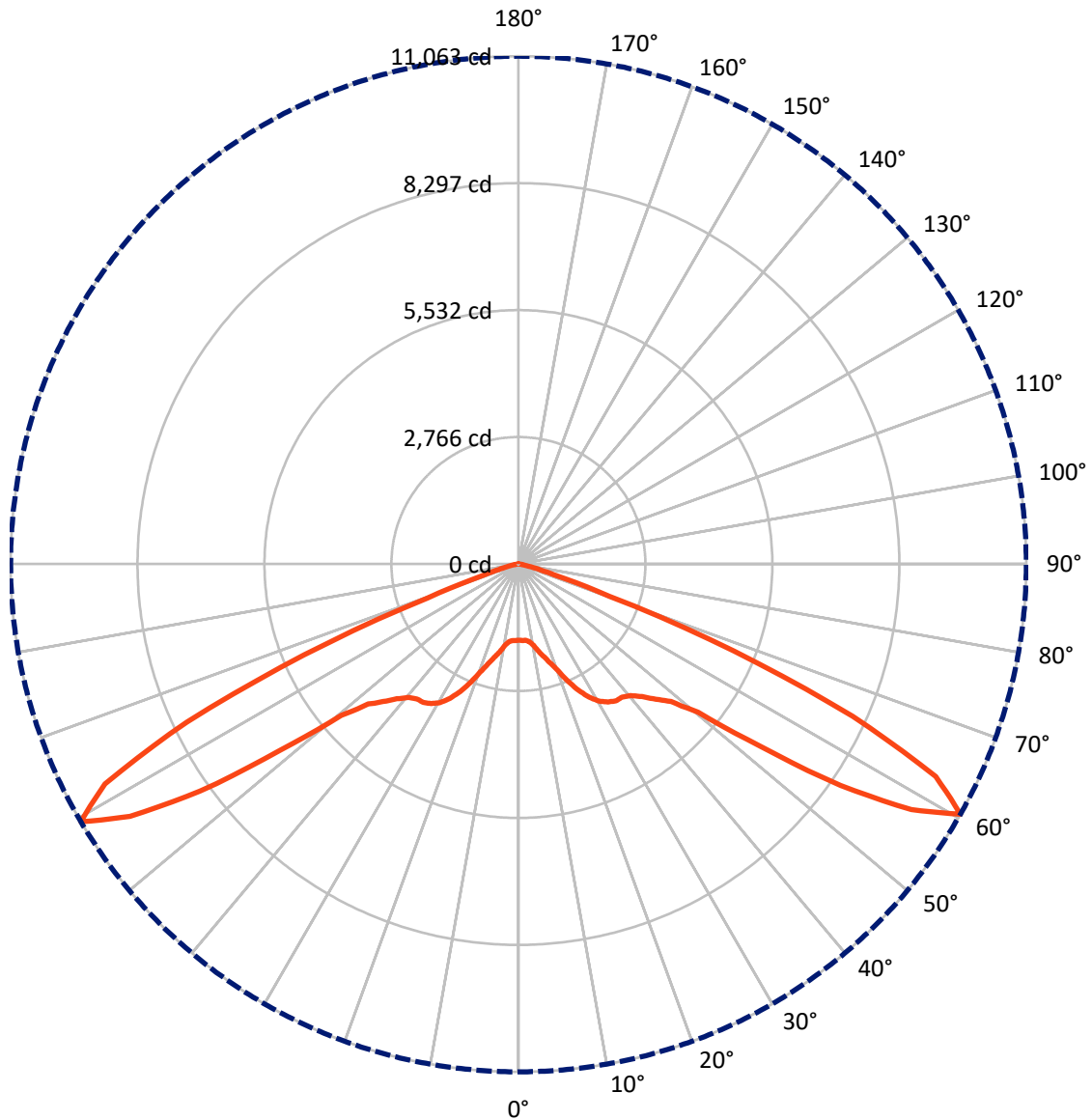
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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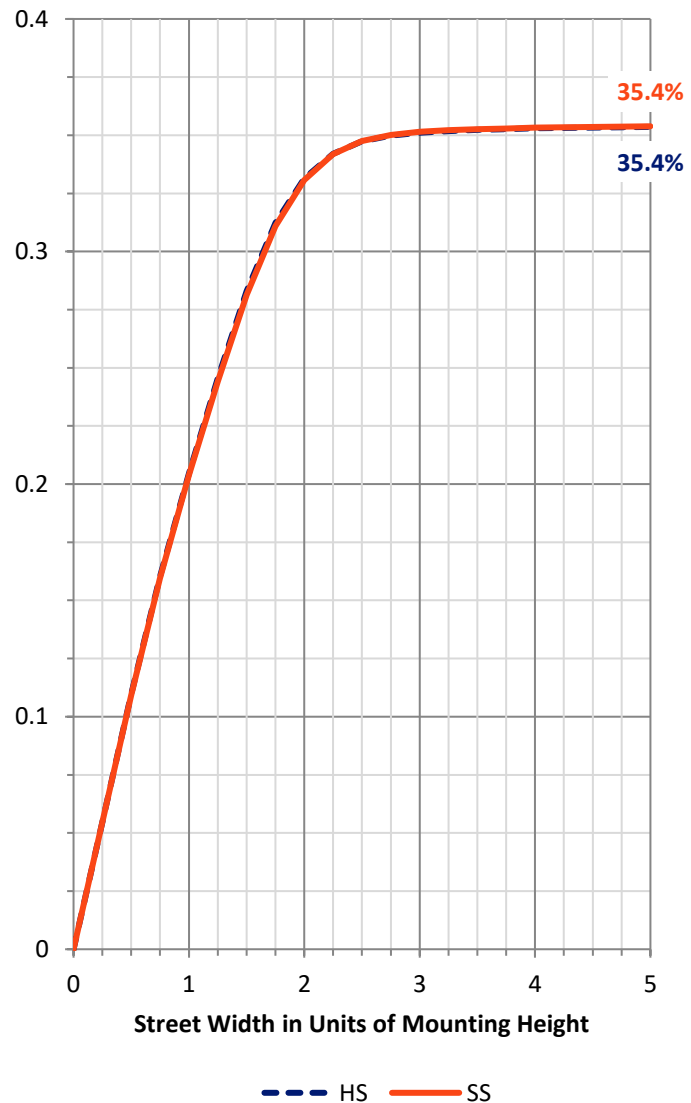
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11680.9	0.0	11680.9
	% Lamp	35.4	0.0	35.4
<b>Street Side</b>	Lumens	11680.9	0.0	11680.9
	% Lamp	35.4	0.0	35.4
<b>Total</b>	Lumens	23361.8	0.0	23361.8
	% Lamp	70.8	0.0	70.8

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	163.3	0.7	0.5
10°-20°	610.6	2.6	1.9
20°-30°	1413.0	6.0	4.3
30°-40°	2286.0	9.8	6.9
40°-50°	3311.8	14.2	10.0
50°-60°	7515.7	32.2	22.8
60°-70°	7350.4	31.5	22.3
70°-80°	679.5	2.9	2.1
80°-90°	31.5	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°	23361.8	100.0	70.8
0°-180°	23361.8	100.0	70.8

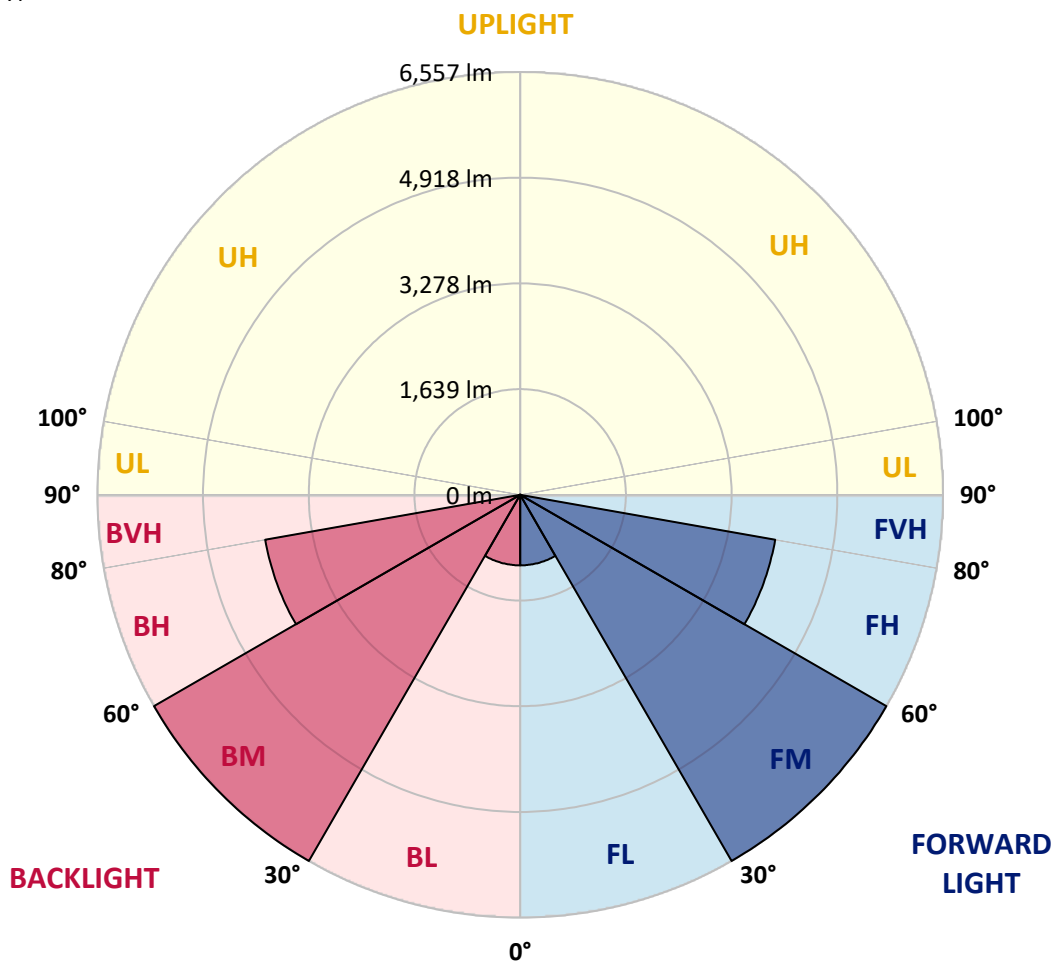


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1093.5	3.3			
FM	(30°-60°)	6556.7	19.9			
FH	(60°-80°)	4015.0	12.2			G2/5000
FVH	(80°-90°)	15.7	0.0			G1/100
BL	(0°-30°)	1093.5	3.3	B3/2500		
BM	(30°-60°)	6556.7	19.9	B4/8500		
BH	(60°-80°)	4015.0	12.2	B4/5000		G2/5000
BVH	(80°-90°)	15.7	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		9638.2	29.2			

**BUG Rating: B4-U0-G2**  
 Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1659.2
2.5°	1667.4
5°	1670.2
7.5°	1706.8
10°	1797.6
12.5°	1956.2
15°	2100.1
17.5°	2276.1
20°	2495.2
22.5°	2775.7
25°	3050.7
27.5°	3286.2
30°	3468.7
32.5°	3583.2
35°	3659.3
37.5°	3676.8
40°	3764.8
42.5°	3949.9
45°	4200.2
47.5°	4471.5
50°	5071.9
52.5°	6584.4
55°	8520.4
57.5°	10091.6
60°	11063.2
62.5°	10202.5
65°	8005.2
67.5°	5068.2
70°	2105.6
72.5°	811.2
75°	435.4
77.5°	238.3
80°	112.8
82.5°	52.2
85°	7.3
87.5°	0.0
90°	0.0

(END OF REPORT)