

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_320MP

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769295_320MP
Test Lab: COOPER LIGHTING
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-AM-320-MP-MT-AR-SG
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: 22279.4 lumens
Efficiency: 67.5%
Efficacy: 63.7 lumens/watt
Luminous Opening: Circular (Dia: 1.6' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U2 - G4

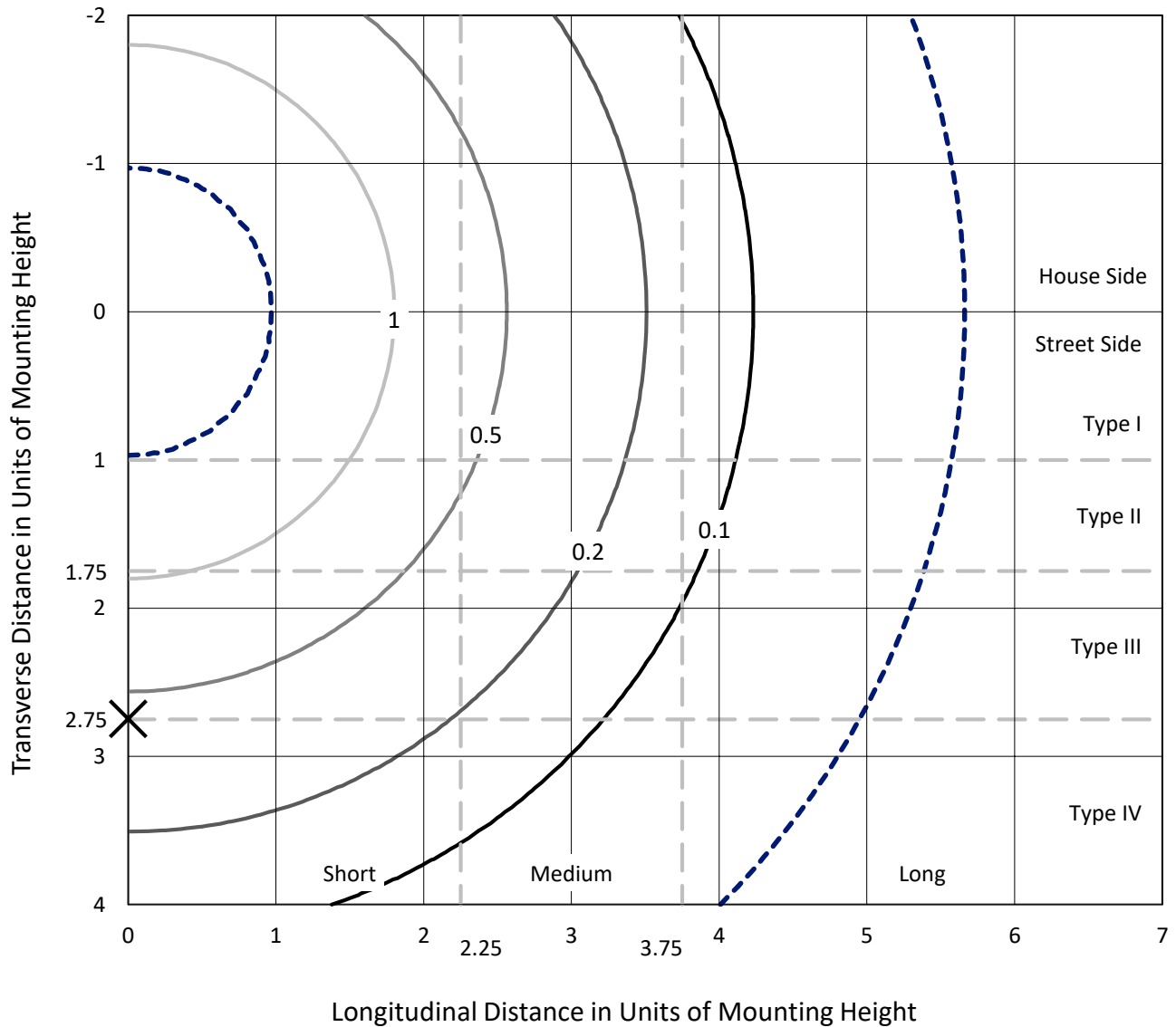
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

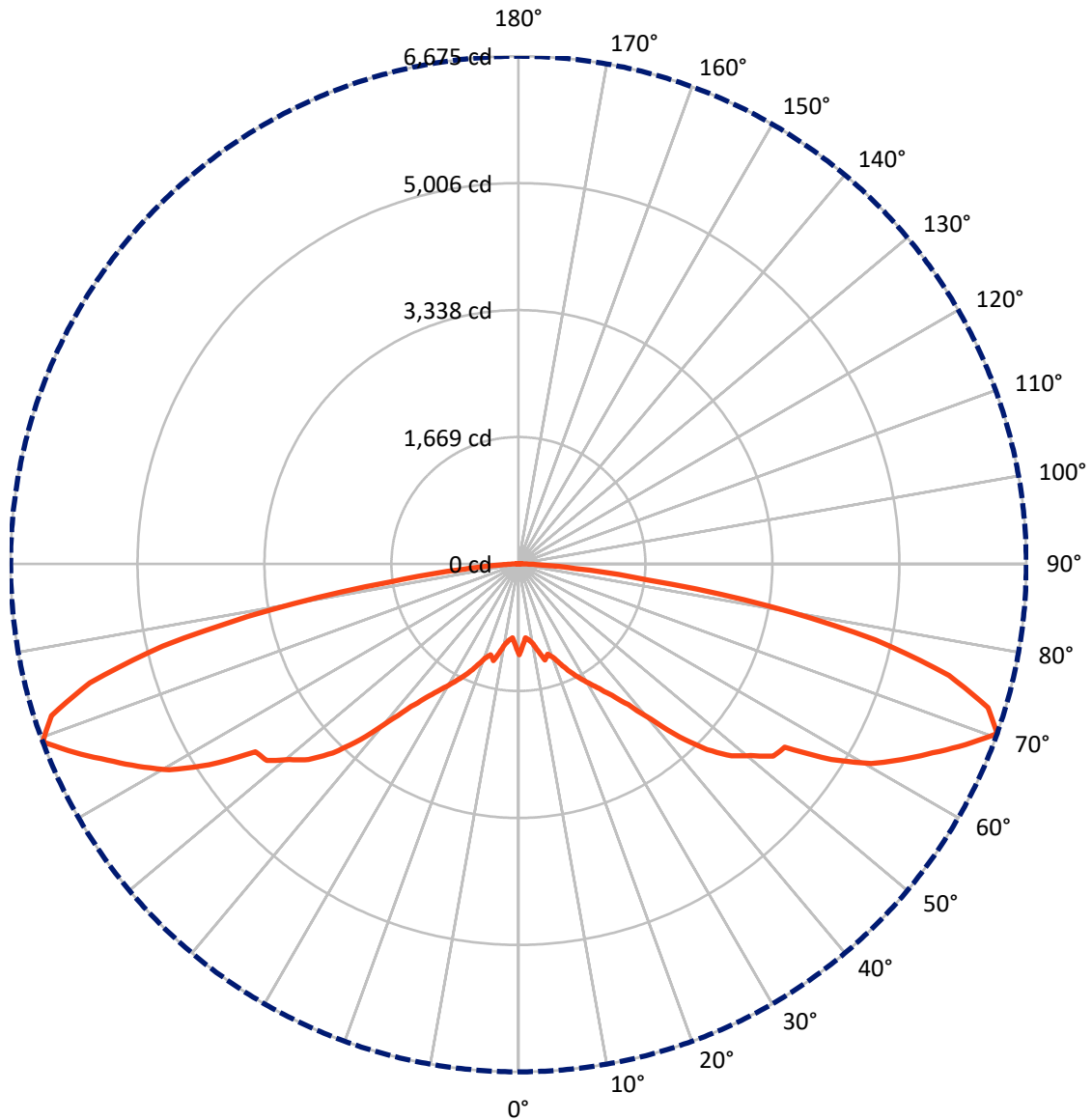
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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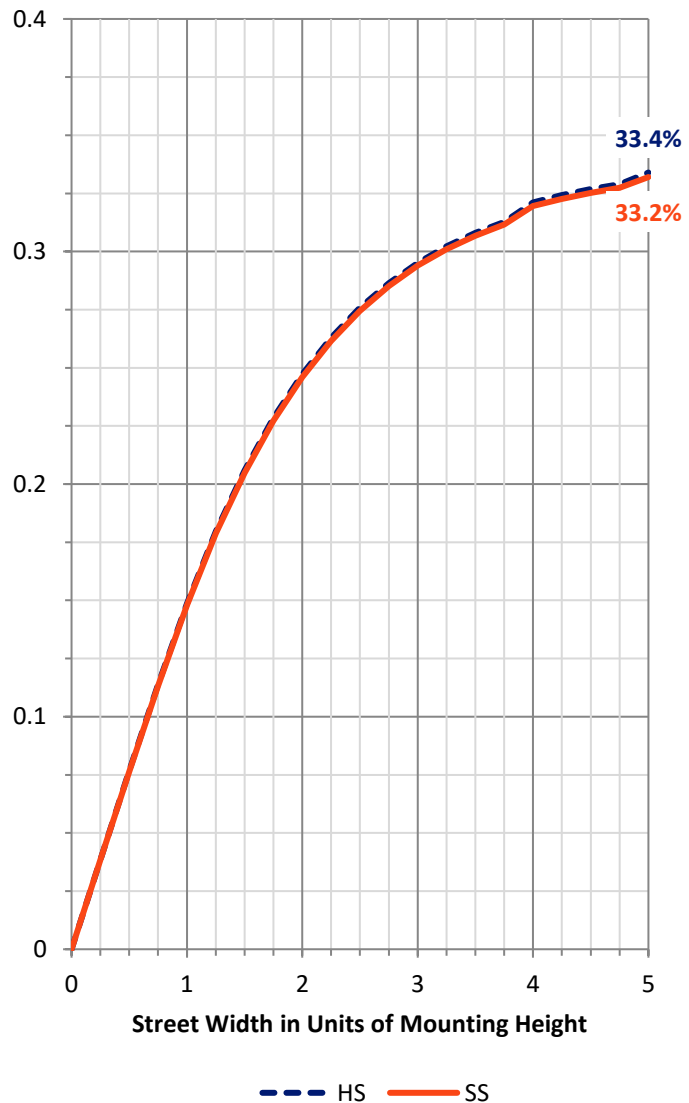
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11116.1	23.6	11139.7
	% Lamp	33.7	0.1	33.8
Street Side	Lumens	11116.1	23.6	11139.7
	% Lamp	33.7	0.1	33.8
Total	Lumens	22232.2	47.2	22279.4
	% Lamp	67.4	0.1	67.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	98.0	0.4	0.3
10°-20°	352.2	1.6	1.1
20°-30°	729.9	3.3	2.2
30°-40°	1370.9	6.2	4.2
40°-50°	2661.9	11.9	8.1
50°-60°	4034.1	18.1	12.2
60°-70°	5961.2	26.8	18.1
70°-80°	5832.5	26.2	17.7
80°-90°	1191.6	5.3	3.6
90°-100°	42.1	0.2	0.1
100°-110°	5.1	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°	22232.2	99.8	67.4
0°-180°	22279.4	100.0	67.5



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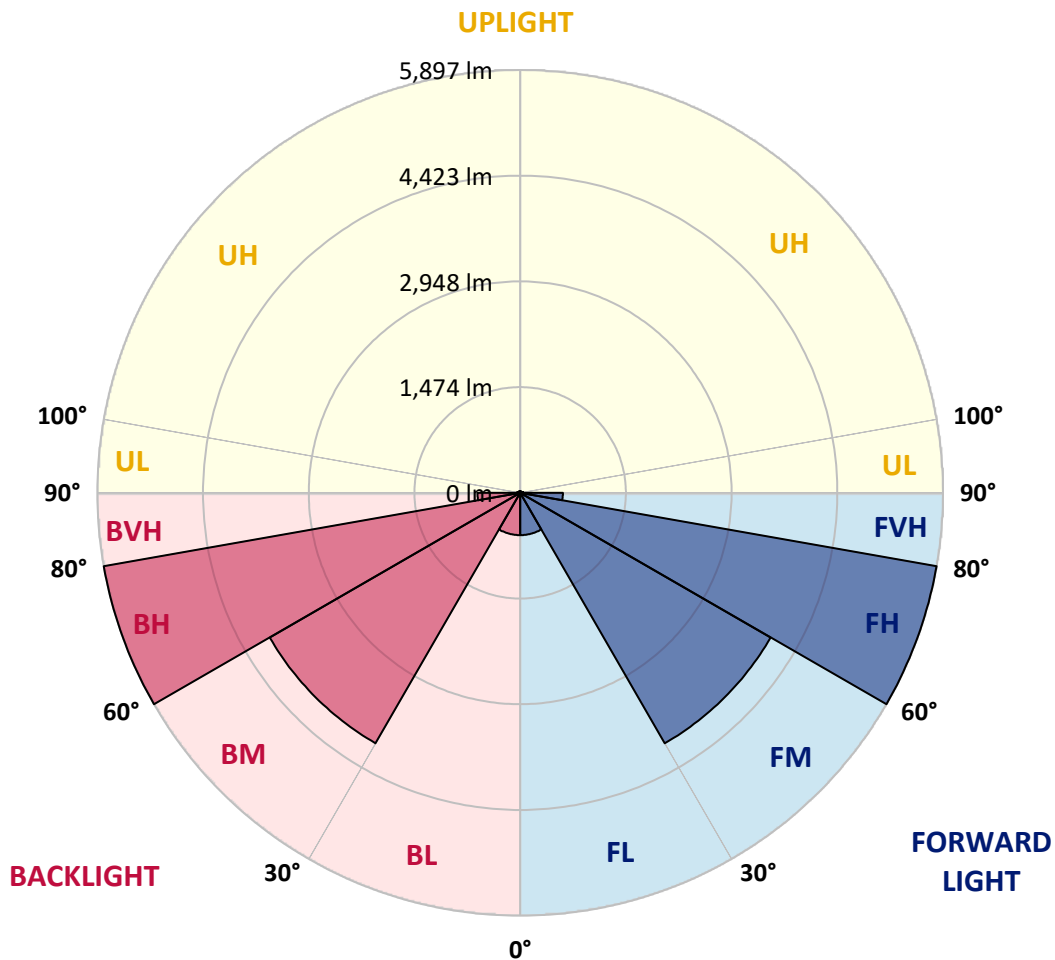
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.0	1.8			
FM	(30°-60°)	4033.4	12.2			
FH	(60°-80°)	5896.8	17.9			G3/7500
FVH	(80°-90°)	595.8	1.8			G4/750
BL	(0°-30°)	590.0	1.8	B2/1000		
BM	(30°-60°)	4033.4	12.2	B3/5000		
BH	(60°-80°)	5896.8	17.9	B5		G3/7500
BVH	(80°-90°)	595.8	1.8			G4/750
UL	(90°-100°)	42.1	0.1		U2/50	
UH	(100°-180°)	23.6	0.1		U2/50	
Trapped Light		10720.6	32.5			

BUG Rating: B5-U2-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1192.6
2.5°	1073.4
5°	973.5
7.5°	1008.3
10°	1068.8
12.5°	1183.4
15°	1309.9
17.5°	1245.8
20°	1311.8
22.5°	1432.8
25°	1564.8
27.5°	1688.5
30°	1813.2
32.5°	1951.6
35°	2121.2
37.5°	2344.8
40°	2679.4
42.5°	3109.3
45°	3480.6
47.5°	3769.3
50°	3958.2
52.5°	4196.5
55°	4246.9
57.5°	4848.2
60°	5328.6
62.5°	5662.2
65°	5985.8
67.5°	6337.8
70°	6675.2
72.5°	6453.3
75°	5845.6
77.5°	4799.7
80°	3329.3
82.5°	1714.2
85°	745.2
87.5°	220.9
90°	78.8
92.5°	48.6
95°	32.1
97.5°	24.8
100°	18.3
102.5°	8.2
105°	1.8
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)