

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: 768841

Luminaire Tested: **GSM-AM-400-HPS-MT-AR-FG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 768841  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GSM-AM-400-HPS-MT-AR-FG  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-ROUND DISTRIBUTION  
Light Source: 400 WATT HPS CLEAR E-18  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 50000 (1 lamp)  
Luminaire Lumens: 36397.5 lumens  
Efficiency: 72.8%  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

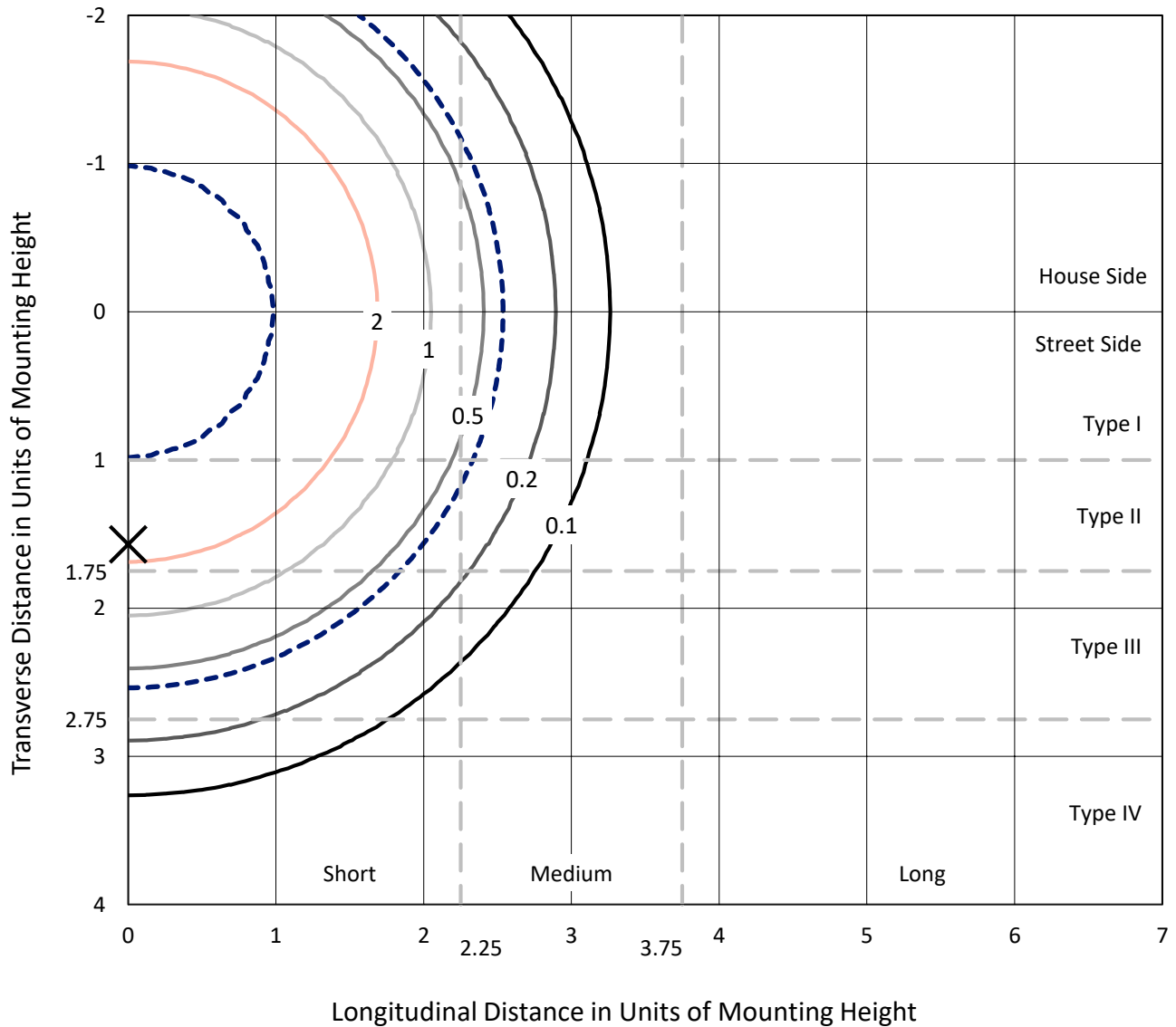
Input Watts (W): 400  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

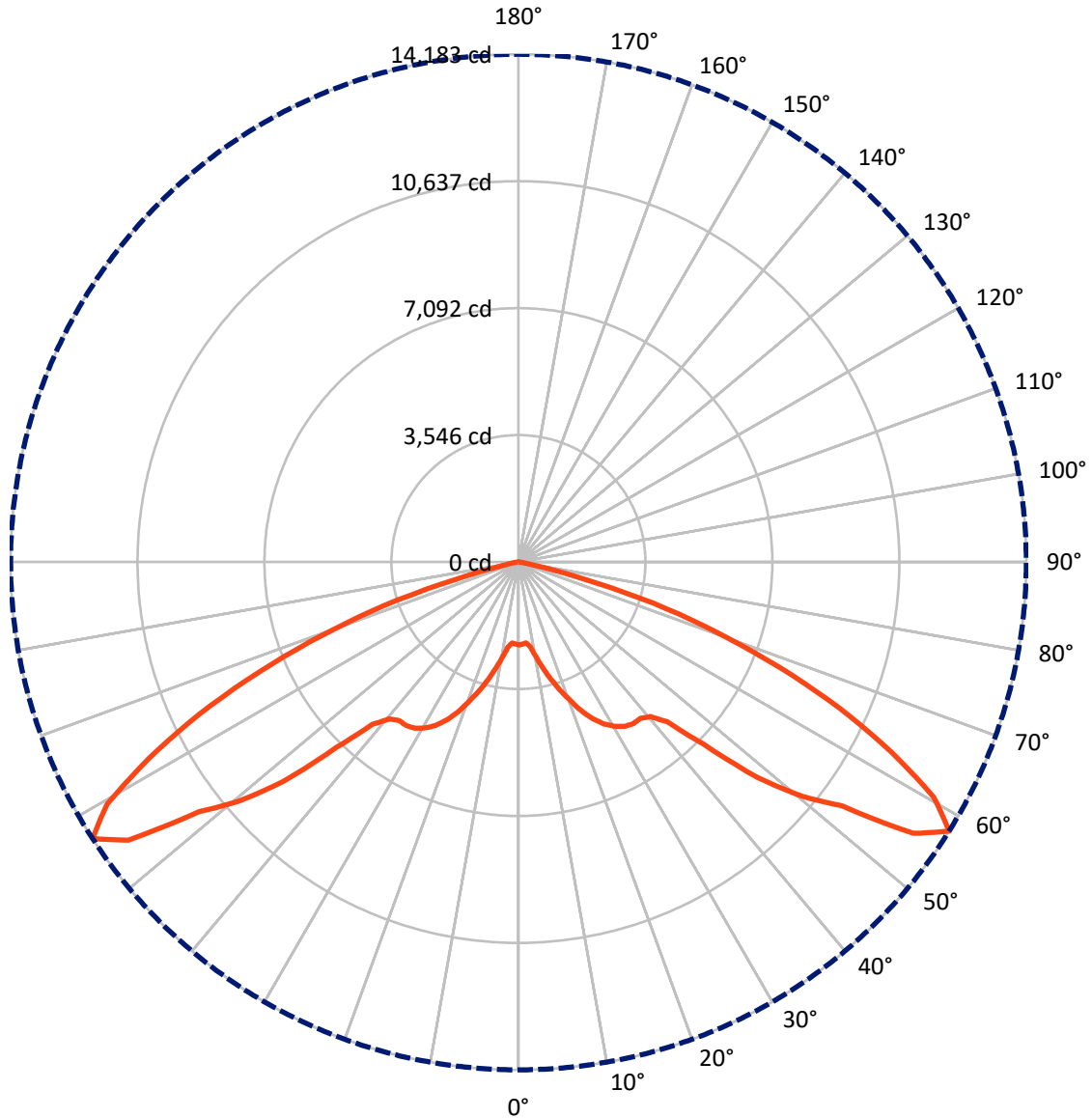
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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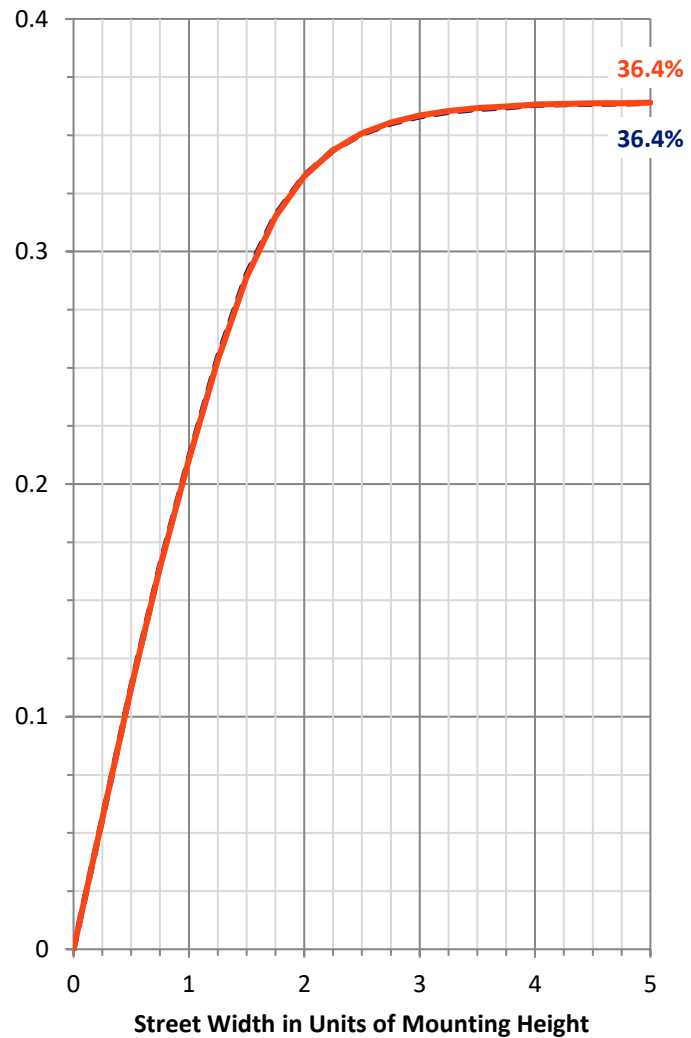
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18198.8	0.0	18198.8
	% Lamp	36.4	0.0	36.4
<b>Street Side</b>	Lumens	18198.8	0.0	18198.8
	% Lamp	36.4	0.0	36.4
<b>Total</b>	Lumens	36397.5	0.0	36397.5
	% Lamp	72.8	0.0	72.8

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	229.9	0.6	0.5
10°-20°	983.5	2.7	2.0
20°-30°	2240.4	6.2	4.5
30°-40°	3465.4	9.5	6.9
40°-50°	5926.6	16.3	11.9
50°-60°	11403.1	31.3	22.8
60°-70°	9639.9	26.5	19.3
70°-80°	2442.4	6.7	4.9
80°-90°	66.4	0.2	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°	36397.5	100.0	72.8
0°-180°	36397.5	100.0	72.8



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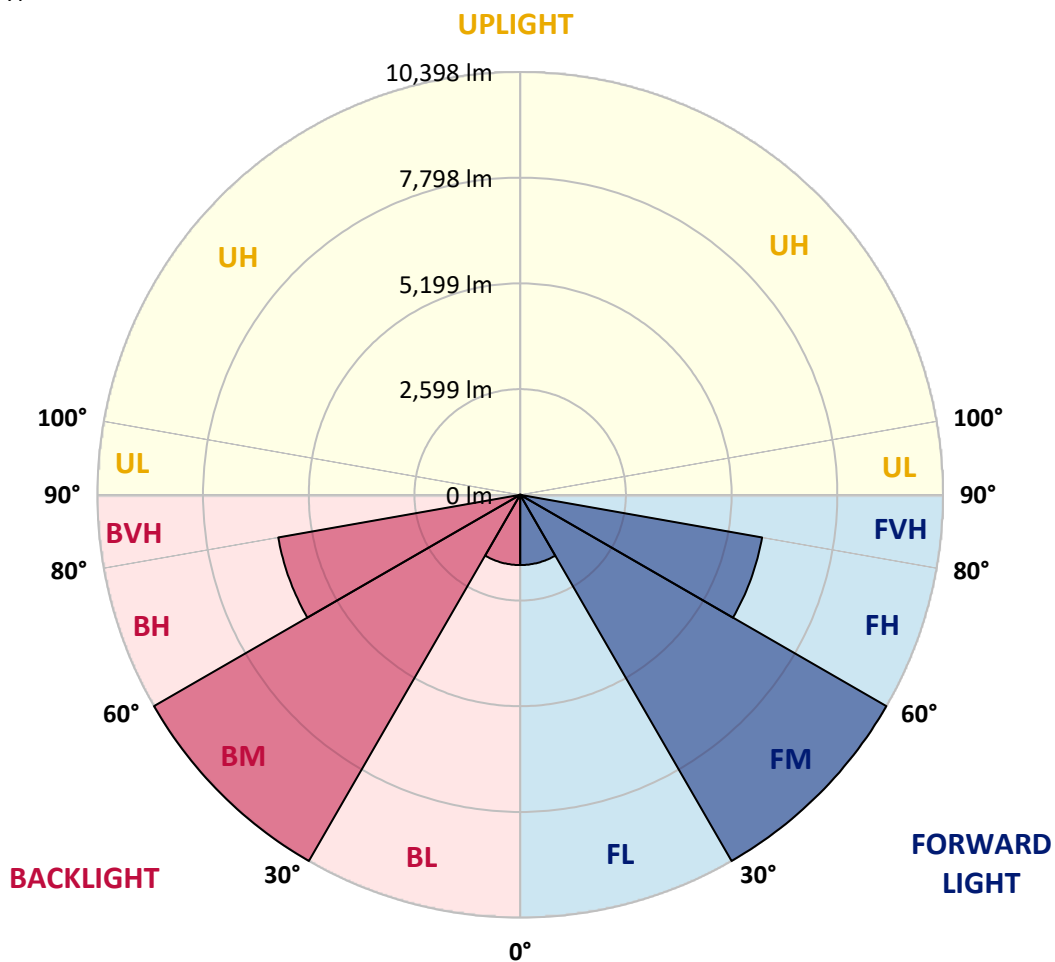
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1726.9	3.5			
FM (30°-60°)	10397.5	20.8			
FH (60°-80°)	6041.1	12.1			G3/7500
FVH (80°-90°)	33.2	0.1			G1/100
BL (0°-30°)	1726.9	3.5	B3/2500		
BM (30°-60°)	10397.5	20.8	B5		
BH (60°-80°)	6041.1	12.1	B5		G3/7500
BVH (80°-90°)	33.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	13602.5	27.2			

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2316
2.5°	2292
5°	2265
7.5°	2390
10°	2683
12.5°	3029
15°	3392
17.5°	3759
20°	4123
22.5°	4519
25°	4850
27.5°	5127
30°	5325
32.5°	5470
35°	5538
37.5°	5537
40°	5675
42.5°	6094
45°	7258
47.5°	8998
50°	10292
52.5°	11314
55°	13376
57.5°	14183
60°	13326
62.5°	11687
65°	9878
67.5°	7878
70°	5863
72.5°	3962
75°	1825
77.5°	500
80°	215
82.5°	99
85°	38
87.5°	0
90°	0

(END OF REPORT)