

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: ITL52169

Luminaire Tested: **1900-OA-24-50MR16**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: ITL52169
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1900-OA-24-50MR16
Description: CYLINDRICAL METAL HOUSING, FABRICATED METAL SOCKET ASSEMBLY, TWO CLEAR FLAT GLASS INTERNAL PANELS BETWEEN LAMP AND UPPER OPTIC ASSEMBLY, CLEAR CYLINDRICAL PLASTIC LENS WITH CONVEX TOP AND WHITE PAINTED TOP SURFACE.
Light Source: ONE 50-WATT MR-16 HALOGEN INCANDESCENT, VERTICAL BASE-DOWN POSITION.
Ballast/Driver: -

Summary

Lumens per Lamp: 950 (1 lamp)
Luminaire Lumens: 83 lumens
Efficiency: 8.7%
Efficacy: 1.7 lumens/watt
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0.08 '
IES Classification: Type V - Short - Cutoff
BUG Rating: B0 - U2 - G0

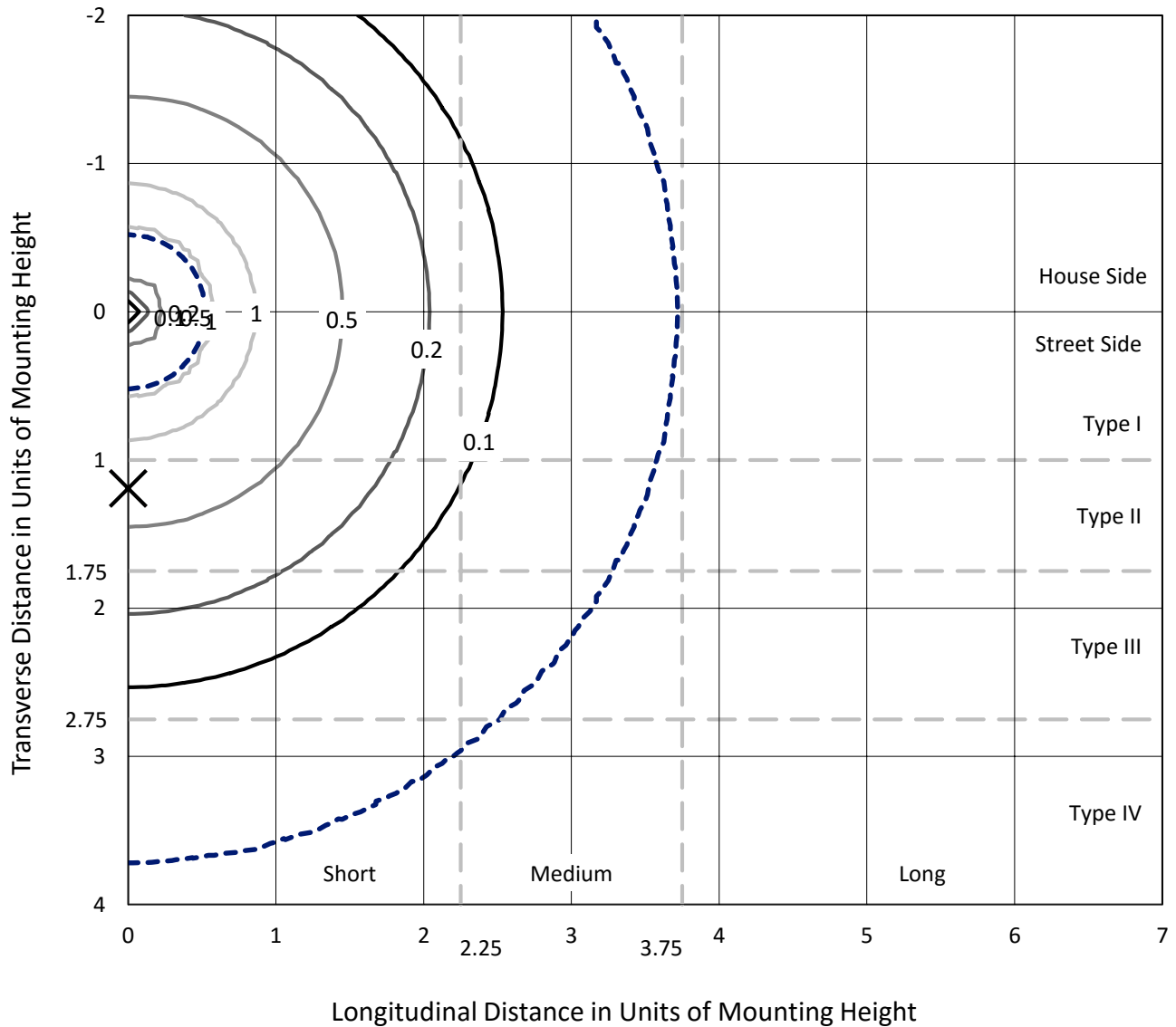
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

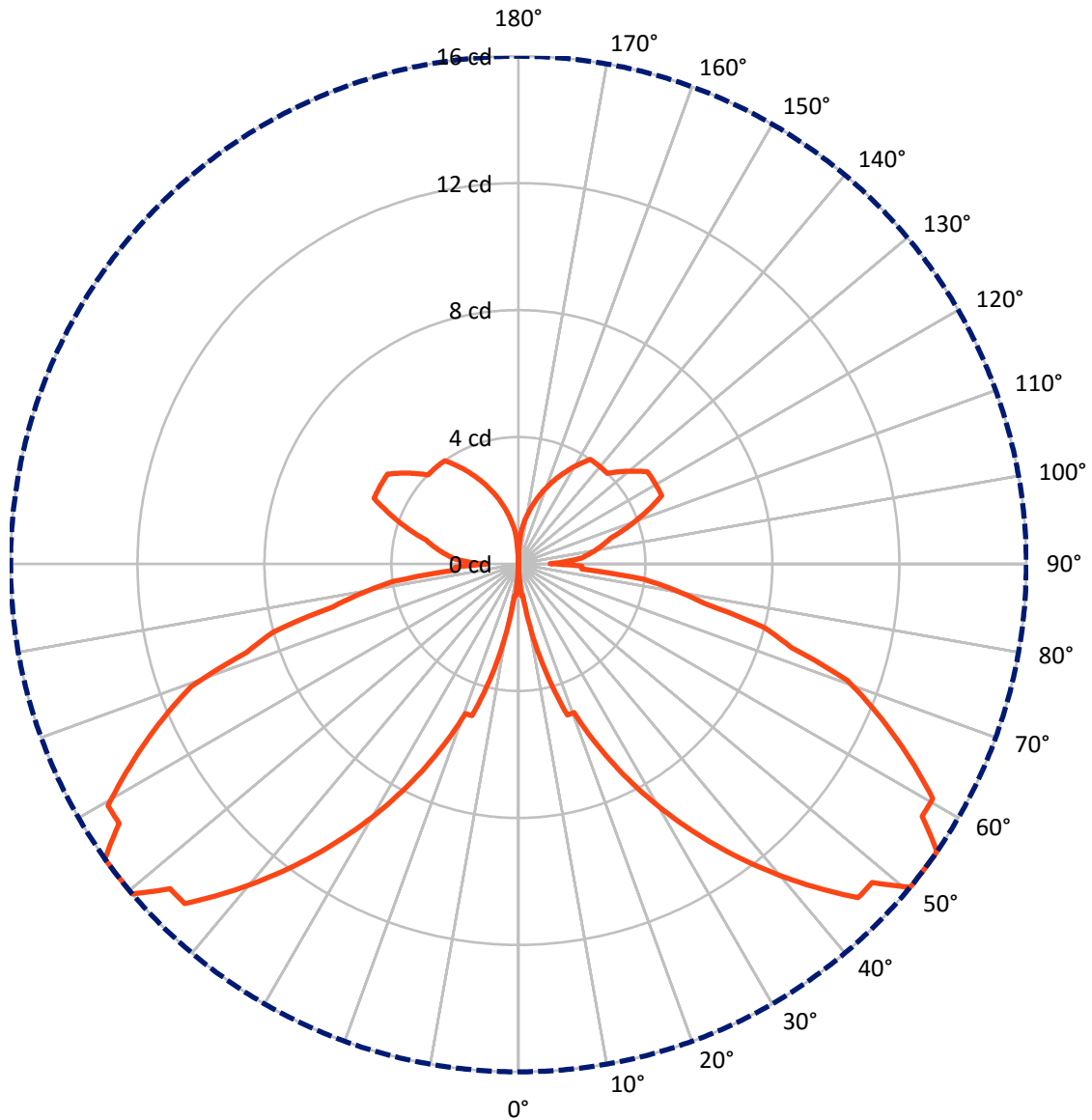
✕ Max cd
 - - - 1/2 Max cd



Based on 2.4 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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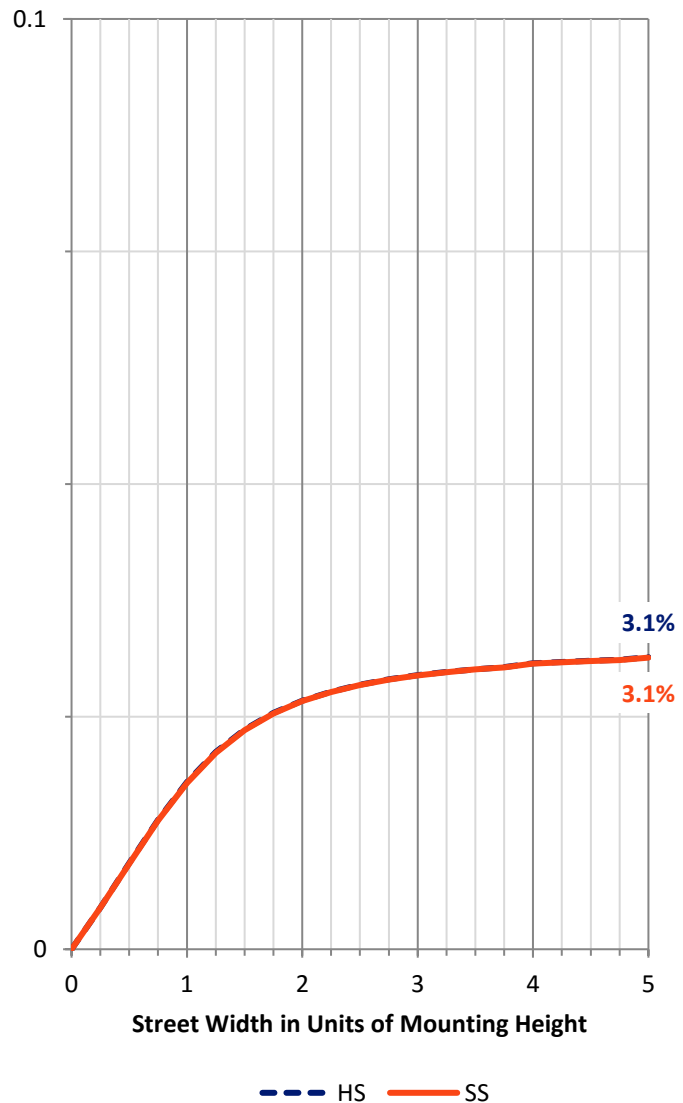
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30.5	11.1	41.5
	% Lamp	3.2	1.2	4.4
Street Side	Lumens	30.5	11.1	41.5
	% Lamp	3.2	1.2	4.4
Total	Lumens	60.9	22.1	83.0
	% Lamp	6.4	2.3	8.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.1	0.1	0.0
10°-20°	1.1	1.4	0.1
20°-30°	3.3	4.0	0.3
30°-40°	7.0	8.4	0.7
40°-50°	11.4	13.7	1.2
50°-60°	14.0	16.9	1.5
60°-70°	12.9	15.5	1.4
70°-80°	8.2	9.8	0.9
80°-90°	3.0	3.6	0.3
90°-100°	2.0	2.5	0.2
100°-110°	3.4	4.1	0.4
110°-120°	4.5	5.4	0.5
120°-130°	4.3	5.1	0.4
130°-140°	3.3	4.0	0.3
140°-150°	2.4	2.8	0.2
150°-160°	1.4	1.7	0.1
160°-170°	0.6	0.7	0.1
170°-180°	0.1	0.1	0.0
0°-90°	60.9	73.4	6.4
0°-180°	83.0	100.0	8.7



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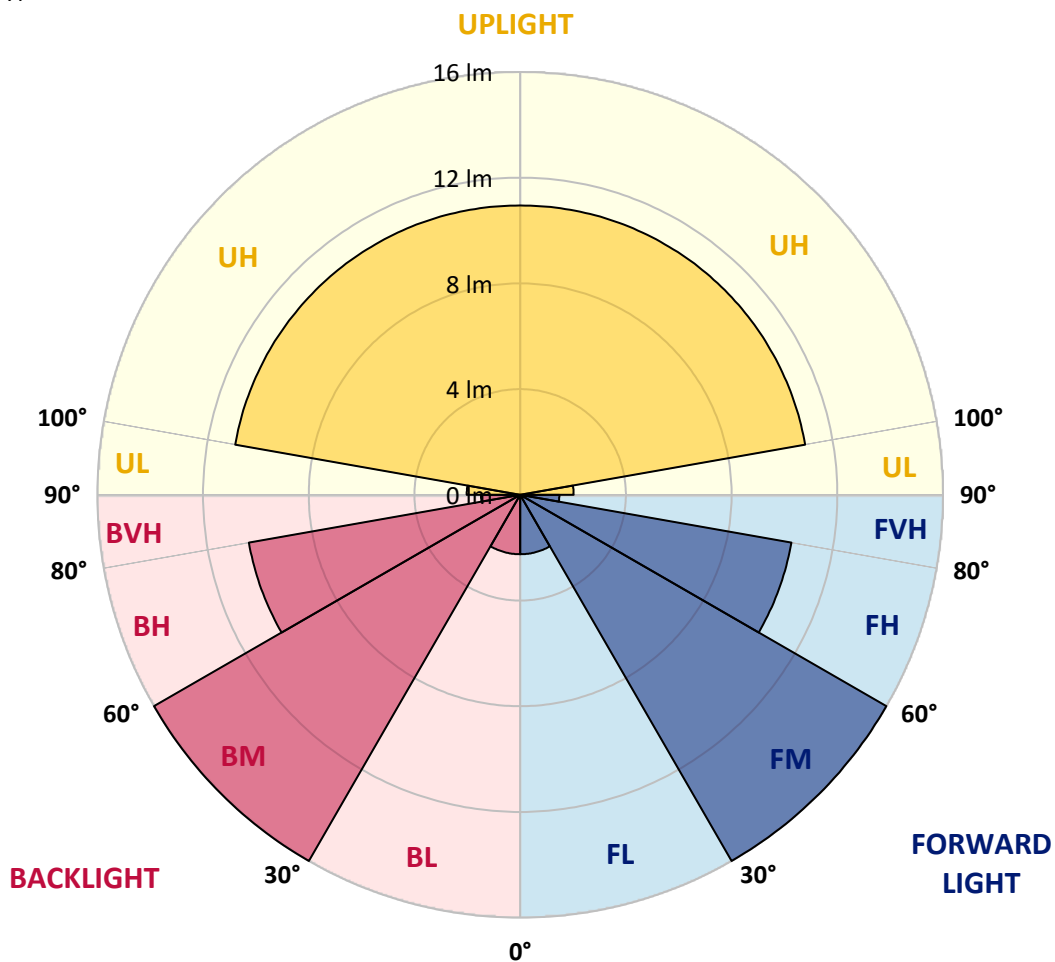
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2.3	0.2			
FM (30°-60°)	16.2	1.7			
FH (60°-80°)	10.5	1.1			G0/660
FVH (80°-90°)	1.5	0.2			G0/10
BL (0°-30°)	2.3	0.2	B0/110		
BM (30°-60°)	16.2	1.7	B0/220		
BH (60°-80°)	10.5	1.1	B0/110		G0/660
BVH (80°-90°)	1.5	0.2			G0/10
UL (90°-100°)	2.0	0.2		U1/10	
UH (100°-180°)	11.1	1.2		U2/50	
Trapped Light	867.0	91.3			

BUG Rating: B0-U2-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°
0°	0
2.5°	0
5°	1
7.5°	1
10°	2
12.5°	3
15°	4
17.5°	5
20°	5
22.5°	6
25°	7
27.5°	8
30°	9
32.5°	10
35°	11
37.5°	12
40°	13
42.5°	14
45°	15
47.5°	15
50°	16
52.5°	16
55°	16
57.5°	15
60°	15
62.5°	14
65°	13
67.5°	12
70°	11
72.5°	9
75°	8
77.5°	6
80°	5
82.5°	4
85°	2
87.5°	2
90°	1
95°	2
105°	3
115°	5
125°	5
135°	4
145°	4
155°	3
165°	2



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CANDELA DISTRIBUTION (continued):

	0°
175°	1
180°	0

(END OF REPORT)