

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: SHAPER

Report Number: 18804

Luminaire Tested: **902-PT-LCS-MH1/70**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 18804
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 902-PT-LCS-MH1/70
Description: POST TOP HID LUMINAIRE WITH WHITE INTERIOR AND CLEAR GLASS CYLINDER LENS
Light Source: ONE VENTURE 70 WATT MH LAMP

MH70W/U. LUMEN RATING = 5600 LMS.

Ballast/Driver: -

Summary

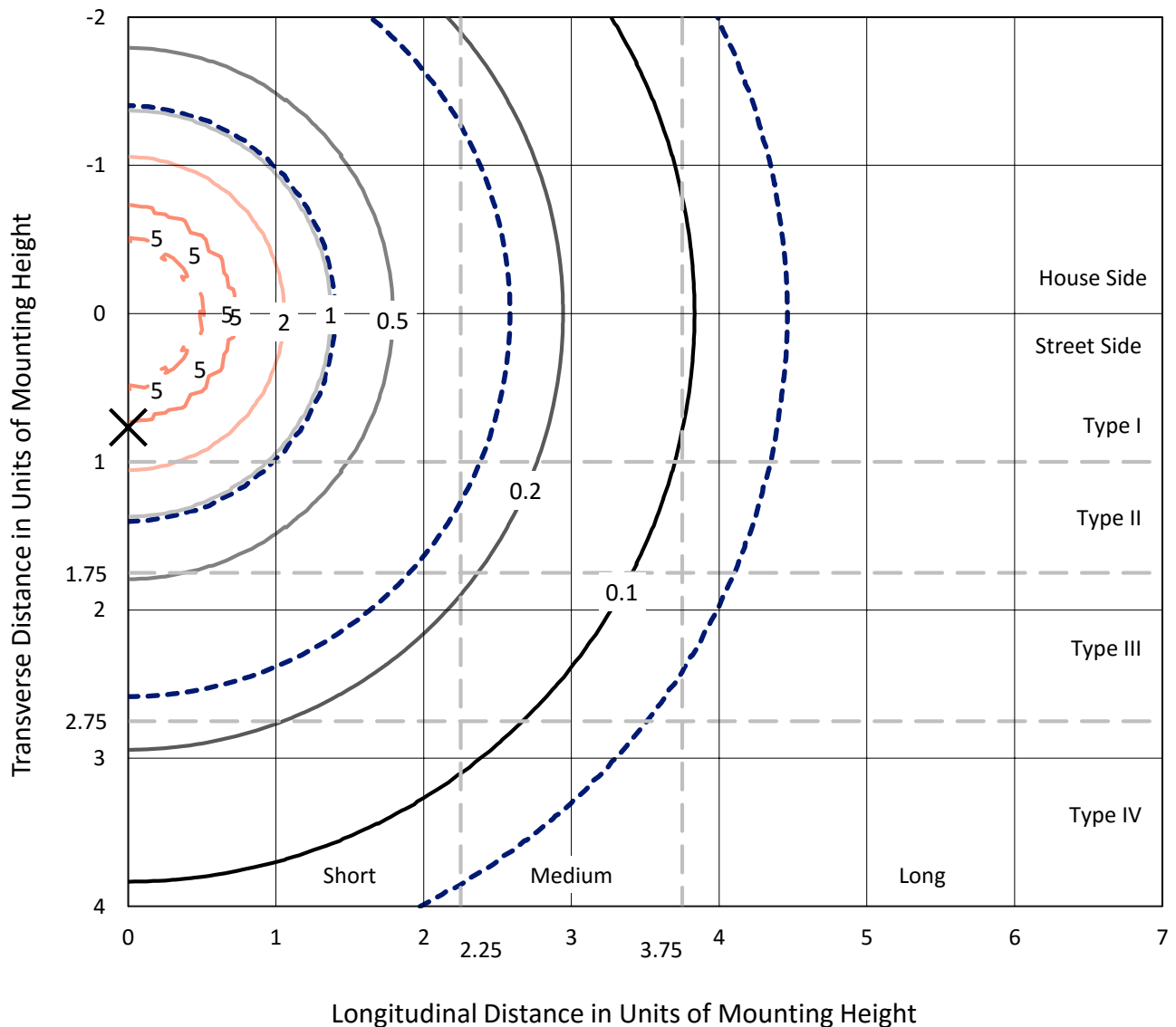
Lumens per Lamp: 5600 (1 lamp)
Luminaire Lumens: 2537 lumens
Efficiency: 45.3%
Efficacy: -
Luminous Opening: (L: 0' x W: -2' x H: 0'
IES Classification: Type V - Short - Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 0
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: 18804
 CATALOG NUMBER: 902-PT-LCS-MH1/70

Iso-Footcandle Lines of Horizontal Illumination

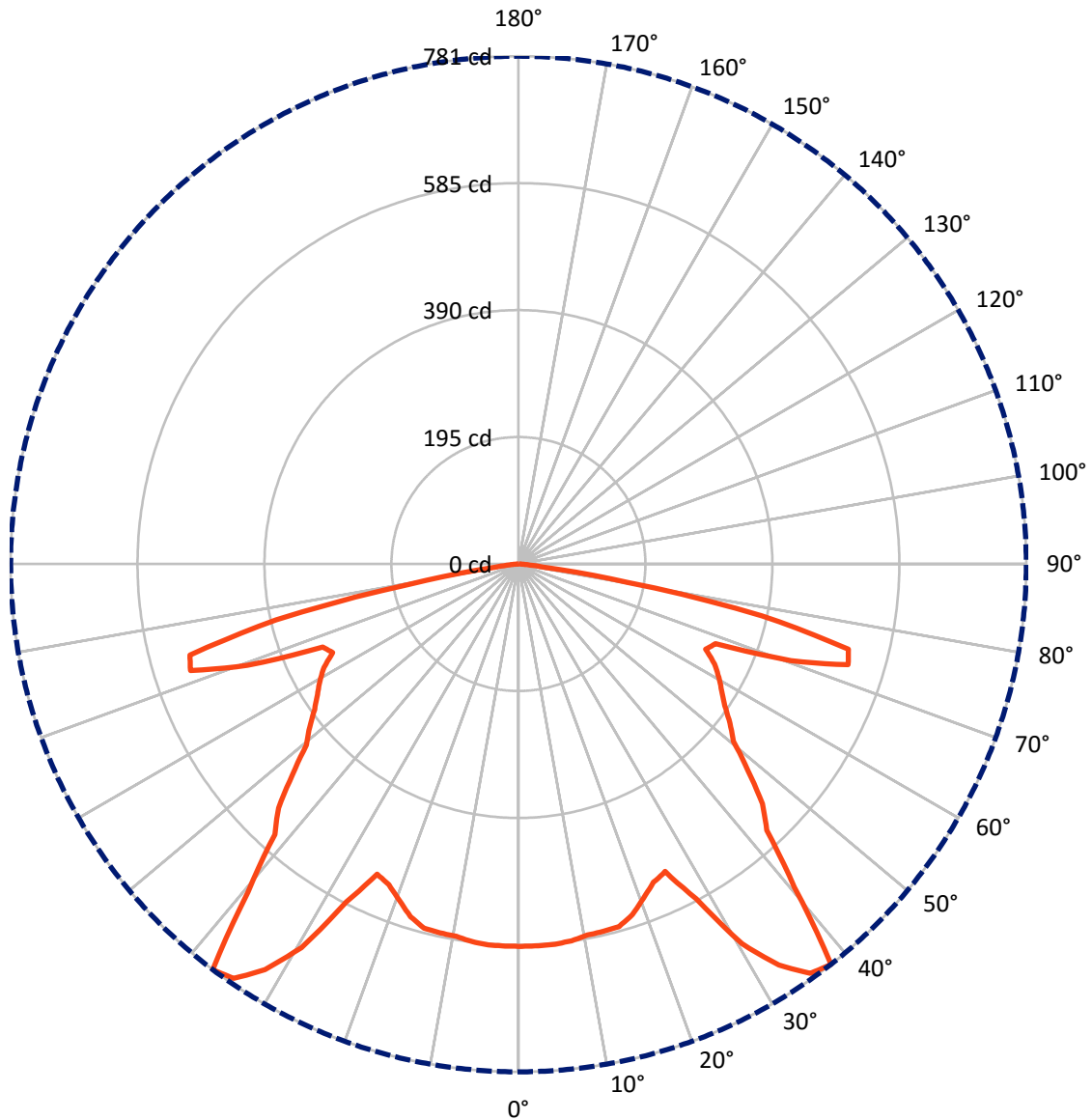
✕ Max cd
 - - - 1/2 Max cd



Based on 9 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Cutoff

REPORT NUMBER: 18804
CATALOG NUMBER: 902-PT-LCS-MH1/70

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 37.5-Deg Vertical

REPORT NUMBER: 18804

CATALOG NUMBER: 902-PT-LCS-MH1/70

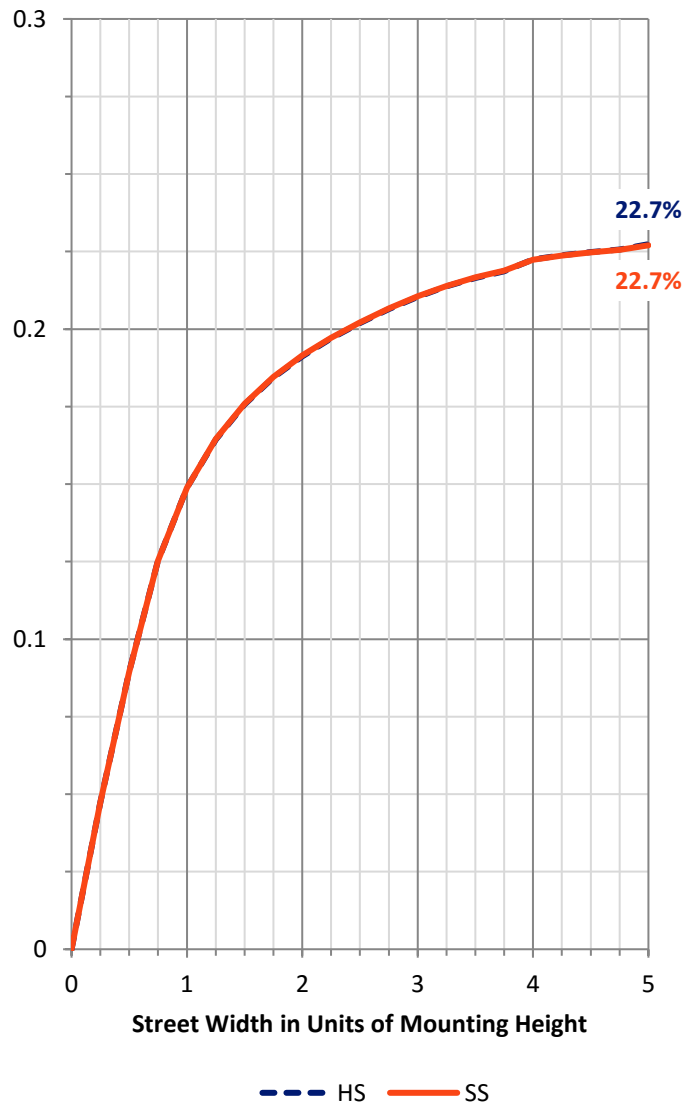
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1268.5	0.0	1268.5
	% Lamp	22.7	0.0	22.7
Street Side	Lumens	1268.5	0.0	1268.5
	% Lamp	22.7	0.0	22.7
Total	Lumens	2537.0	0.0	2537.0
	% Lamp	45.3	0.0	45.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	55.8	2.2	1.0
10°-20°	161.8	6.4	2.9
20°-30°	262.0	10.3	4.7
30°-40°	464.2	18.3	8.3
40°-50°	404.6	15.9	7.2
50°-60°	347.3	13.7	6.2
60°-70°	342.8	13.5	6.1
70°-80°	460.1	18.1	8.2
80°-90°	38.4	1.5	0.7
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°	2537.0	100.0	45.3
0°-180°	2537.0	100.0	45.3



REPORT NUMBER: 18804

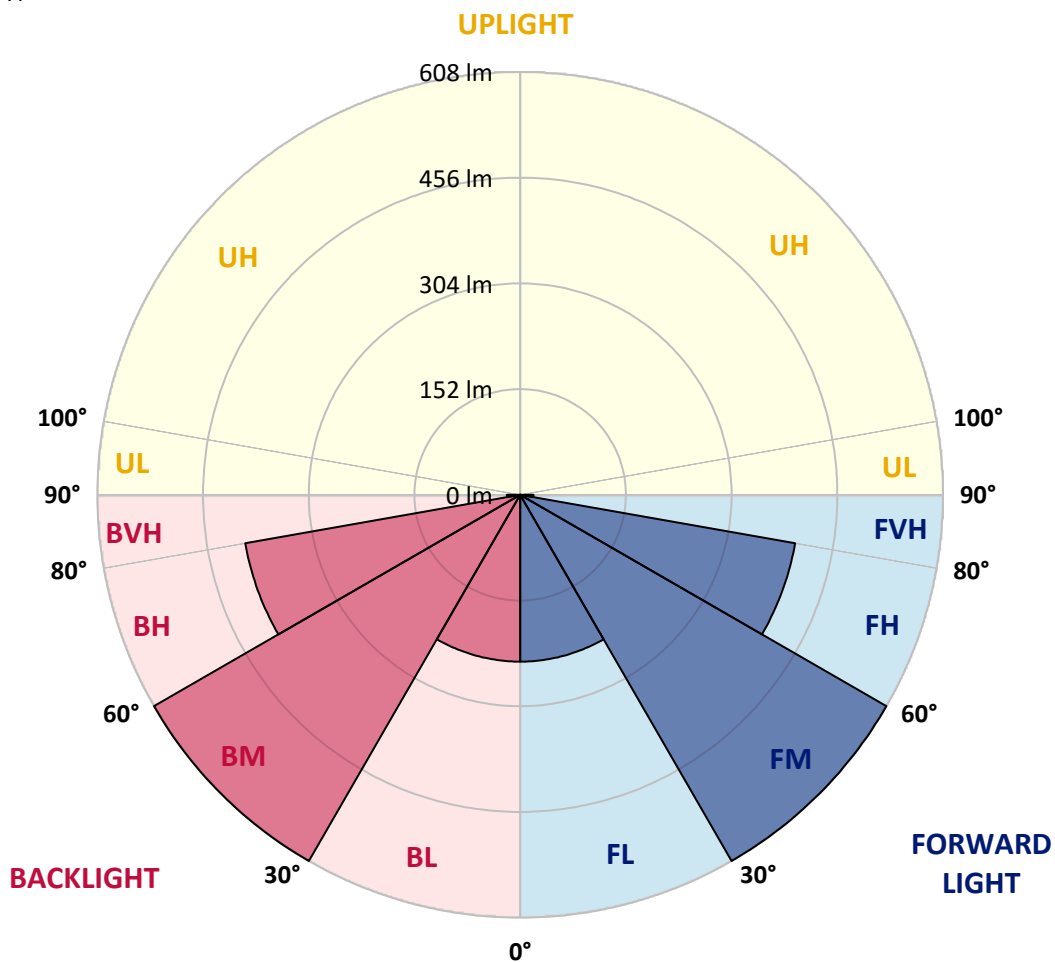
CATALOG NUMBER: 902-PT-LCS-MH1/70

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	239.8	4.3			
FM (30°-60°)	608.0	10.9			
FH (60°-80°)	401.5	7.2			G0/660
FVH (80°-90°)	19.2	0.3			G1/100
BL (0°-30°)	239.8	4.3	B1/500		
BM (30°-60°)	608.0	10.9	B1/1000		
BH (60°-80°)	401.5	7.2	B1/500		G0/660
BVH (80°-90°)	19.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	3063.0	54.7			

BUG Rating: B1-U0-G1

Type V Short



REPORT NUMBER: 18804
CATALOG NUMBER: 902-PT-LCS-MH1/70

CANDELA DISTRIBUTION (FULL):

	0°
0°	587.6
2.5°	587.5
5°	587.2
7.5°	584.8
10°	580.1
12.5°	579.6
15°	578.3
17.5°	566.8
20°	548.3
22.5°	531.5
25°	523.6
27.5°	582.9
30°	677.3
32.5°	735.1
35°	772.8
37.5°	780.6
40°	653.2
42.5°	559.7
45°	525.9
47.5°	474.5
50°	428.5
52.5°	407.0
55°	384.8
57.5°	368.2
60°	354.1
62.5°	338.3
65°	316.1
67.5°	326.6
70°	444.5
72.5°	529.9
75°	523.9
77.5°	382.4
80°	170.5
82.5°	37.1
85°	13.1
87.5°	5.7
90°	0.5

(END OF REPORT)