

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: STREETWORKS

Report Number: 738404

Luminaire Tested: **RMA10SXX55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 738404
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: RMA10SXX55
Description: RMA 100W HPS TYPE V ACRYLIC
Light Source: 100 WATT HPS ED 23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 9500 (1 lamp)
Luminaire Lumens: 6887.2 lumens
Efficiency: 72.5%
Efficacy: 68.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G2

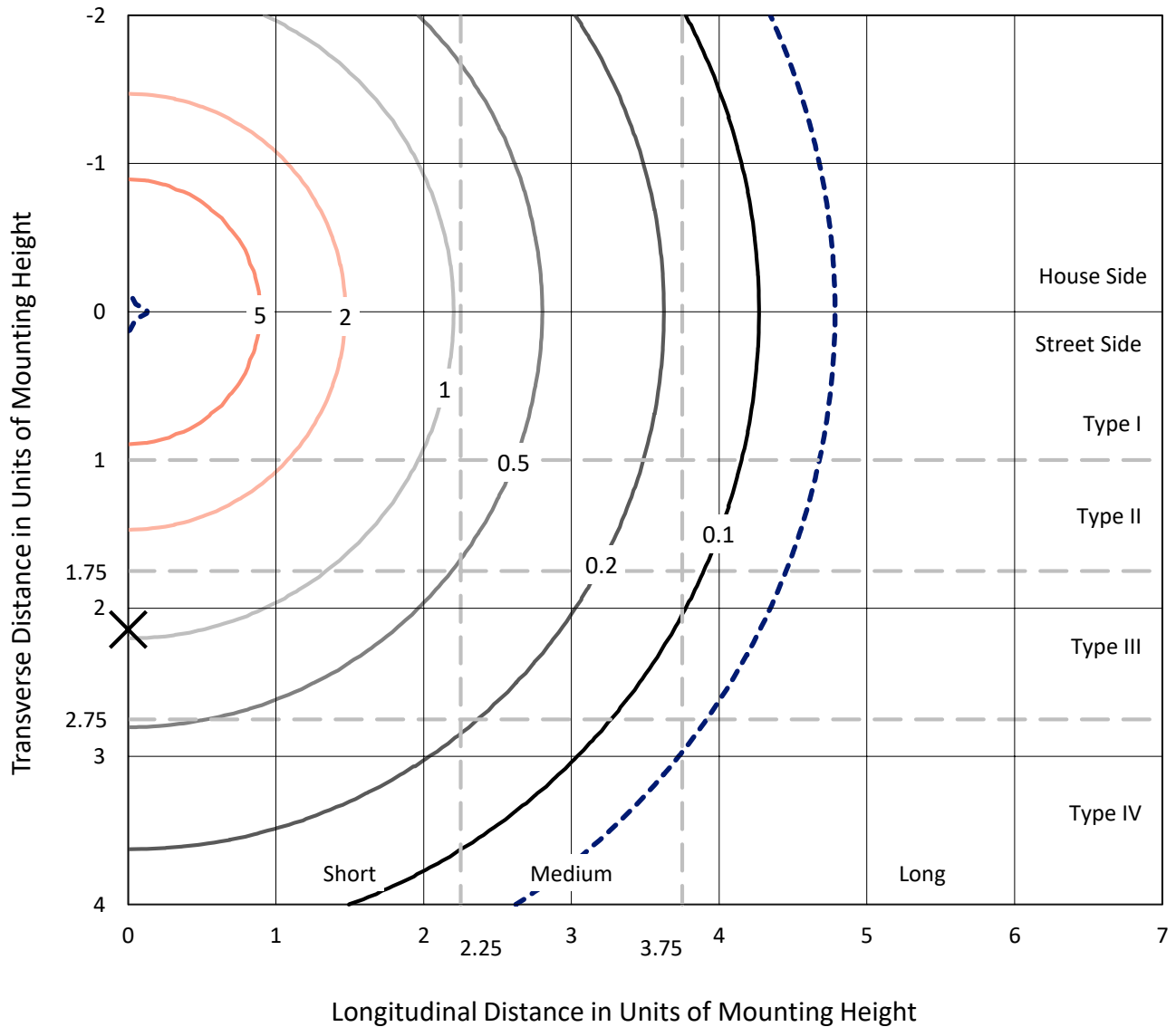
Input Watts (W): 100
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

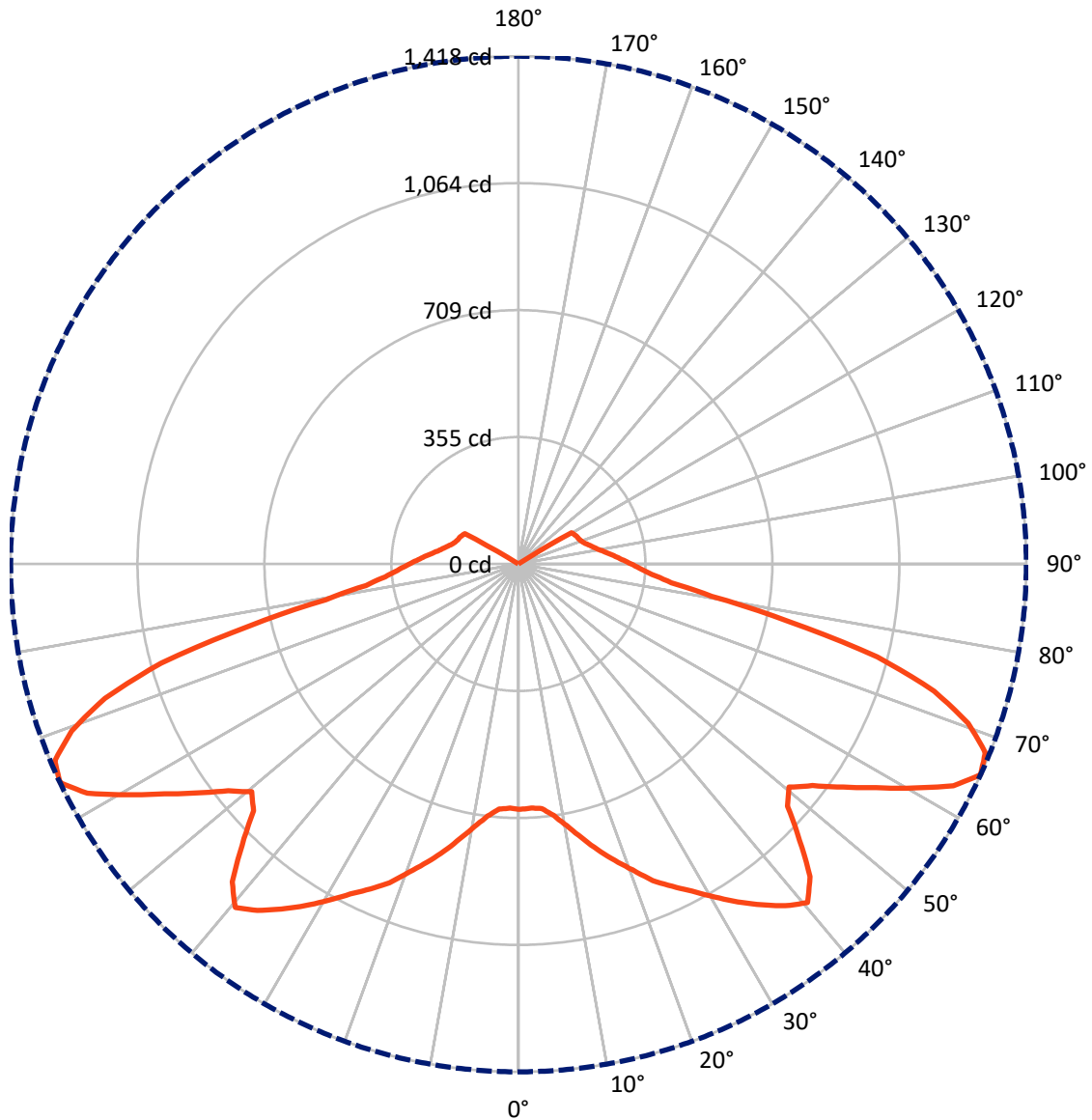
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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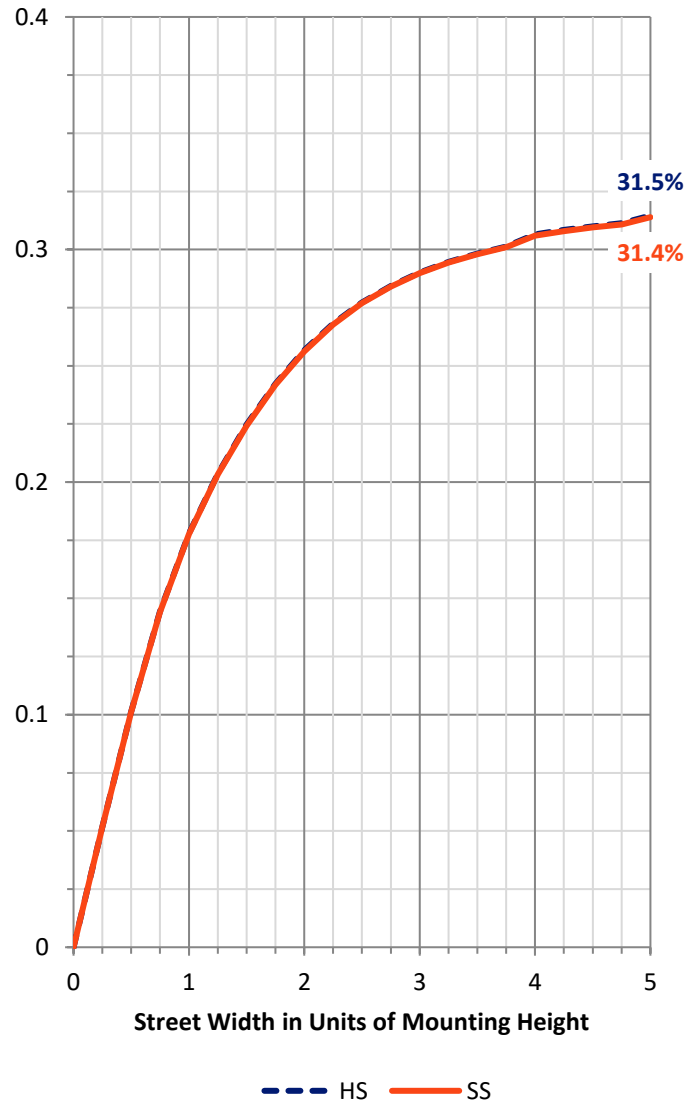
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3092.6	350.9	3443.6
	% Lamp	32.6	3.7	36.2
Street Side	Lumens	3092.6	350.9	3443.6
	% Lamp	32.6	3.7	36.2
Total	Lumens	6185.3	701.9	6887.2
	% Lamp	65.1	7.4	72.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	67.4	1.0	0.7
10°-20°	237.0	3.4	2.5
20°-30°	463.5	6.7	4.9
30°-40°	734.8	10.7	7.7
40°-50°	852.0	12.4	9.0
50°-60°	996.2	14.5	10.5
60°-70°	1362.3	19.8	14.3
70°-80°	1044.0	15.2	11.0
80°-90°	427.9	6.2	4.5
90°-100°	288.6	4.2	3.0
100°-110°	215.2	3.1	2.3
110°-120°	178.0	2.6	1.9
120°-130°	20.2	0.3	0.2
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°	6185.3	89.8	65.1
0°-180°	6887.2	100.0	72.5

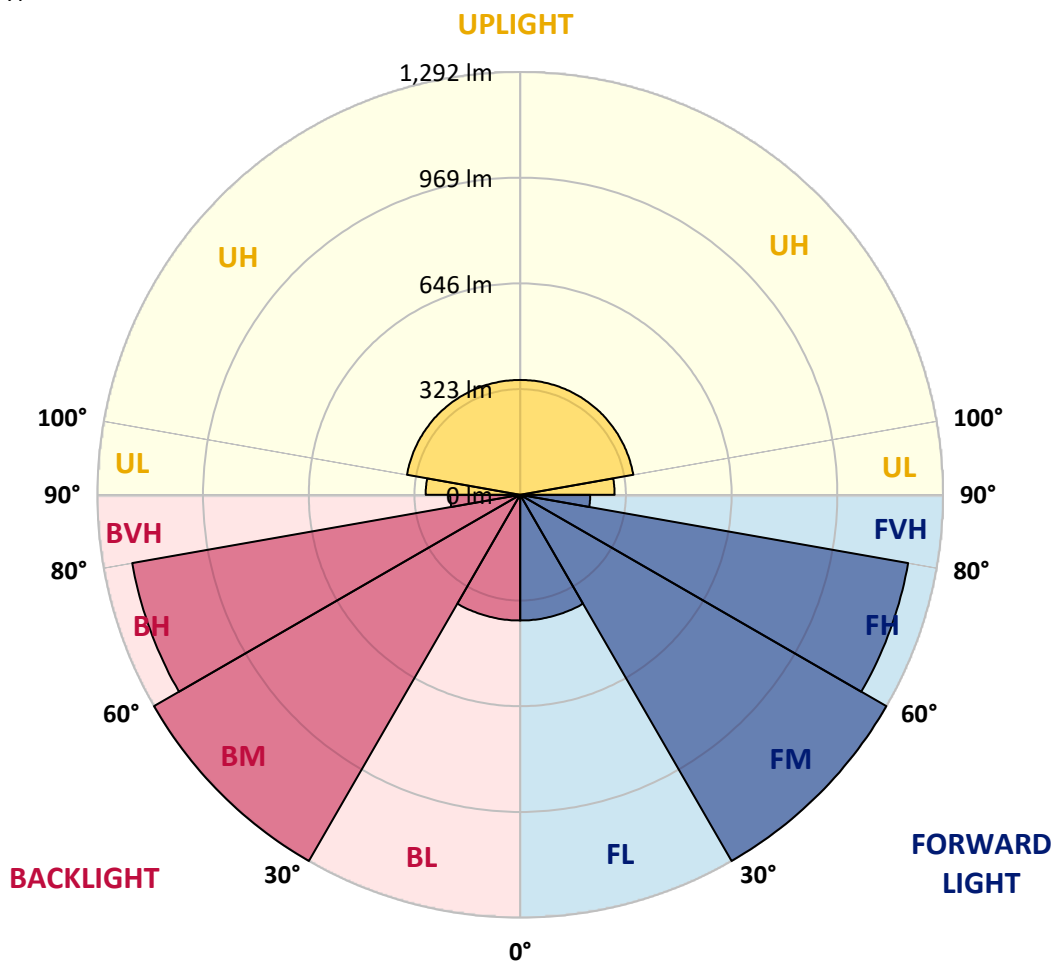


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.9	4.0			
FM (30°-60°)	1291.5	13.6			
FH (60°-80°)	1203.2	12.7			G1/1800
FVH (80°-90°)	214.0	2.3			G2/225
BL (0°-30°)	383.9	4.0	B1/500		
BM (30°-60°)	1291.5	13.6	B2/2500		
BH (60°-80°)	1203.2	12.7	B3/2500		G1/1800
BVH (80°-90°)	214.0	2.3			G2/225
UL (90°-100°)	288.6	3.0		U3/500	
UH (100°-180°)	350.9	3.7		U3/500	
Trapped Light	2612.8	27.5			

BUG Rating: B3-U3-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	685
2.5°	682
5°	686
7.5°	709
10°	743
12.5°	784
15°	828
17.5°	870
20°	912
22.5°	960
25°	997
27.5°	1034
30°	1079
32.5°	1125
35°	1169
37.5°	1211
40°	1243
42.5°	1194
45°	1101
47.5°	1011
50°	979
52.5°	1028
55°	1100
57.5°	1178
60°	1270
62.5°	1363
65°	1418
67.5°	1406
70°	1332
72.5°	1214
75°	1035
77.5°	771
80°	547
82.5°	430
85°	374
87.5°	338
90°	309
92.5°	284
95°	263
97.5°	243
100°	226
102.5°	213
105°	202
107.5°	192
110°	186



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	182
115°	180
117.5°	176
120°	172
122.5°	0
180°	0

(END OF REPORT)