

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: P11181

Luminaire Tested:

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: P11181  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number:  
Description: STREET WORKS 12 INCH HID TYPE 5 OUTDOOR FIXTURE,  
WITH DIFFUSE FACETED REFLECTOR, PRISMATIC TYPE 5 ACRYLIC REFRACTOR.  
Light Source: 100 WATT PULSE-START COATED ED-28 OPENRATED  
MH100/C/ED28 100 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 8100 (1 lamp)  
Luminaire Lumens: 7042.4 lumens  
Efficiency: 86.9%  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 1.04' x H: 1')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U4 - G3  
  
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

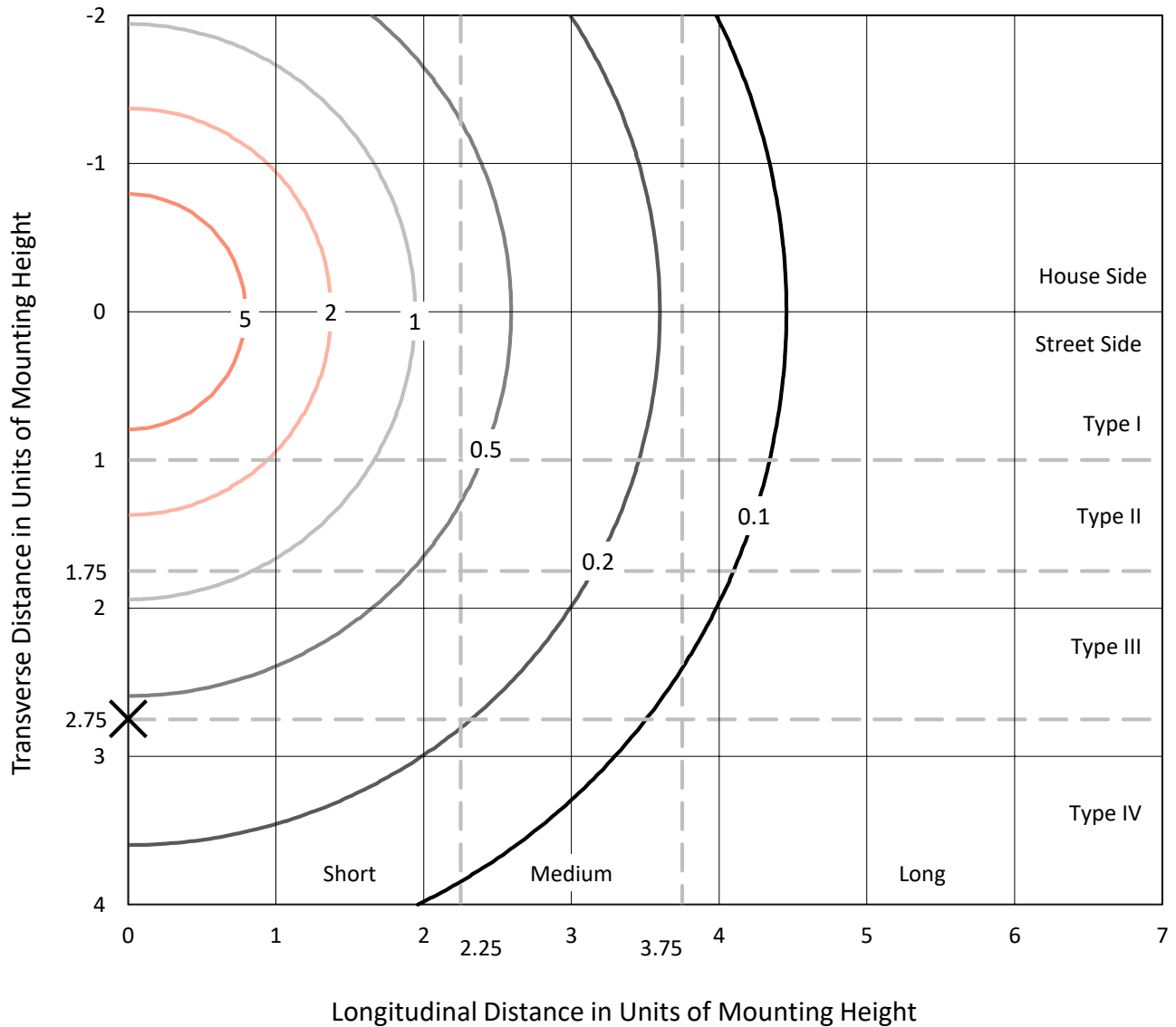


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### Iso-Footcandle Lines of Horizontal Illumination

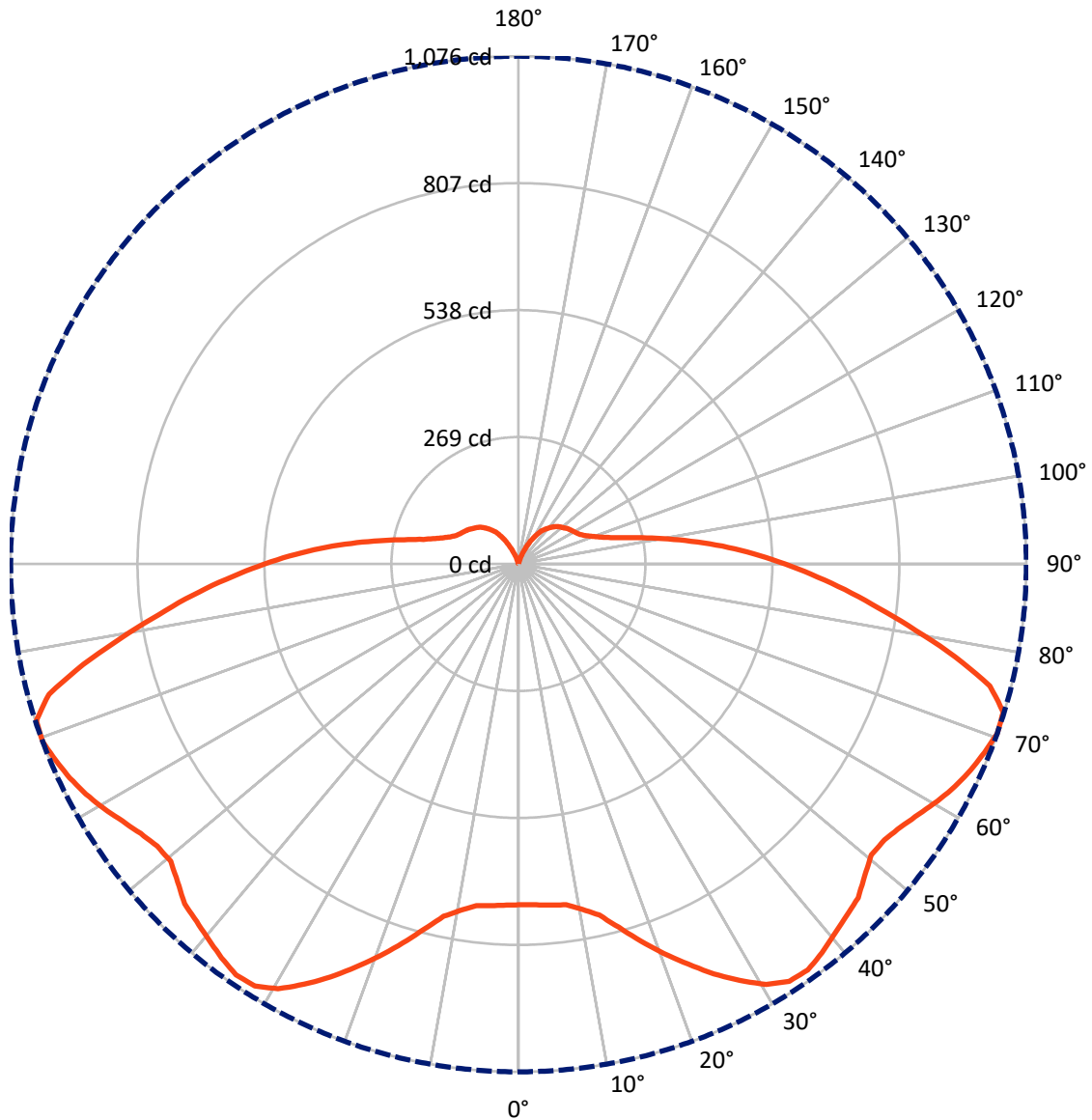
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc  
 Type V - Short - Non-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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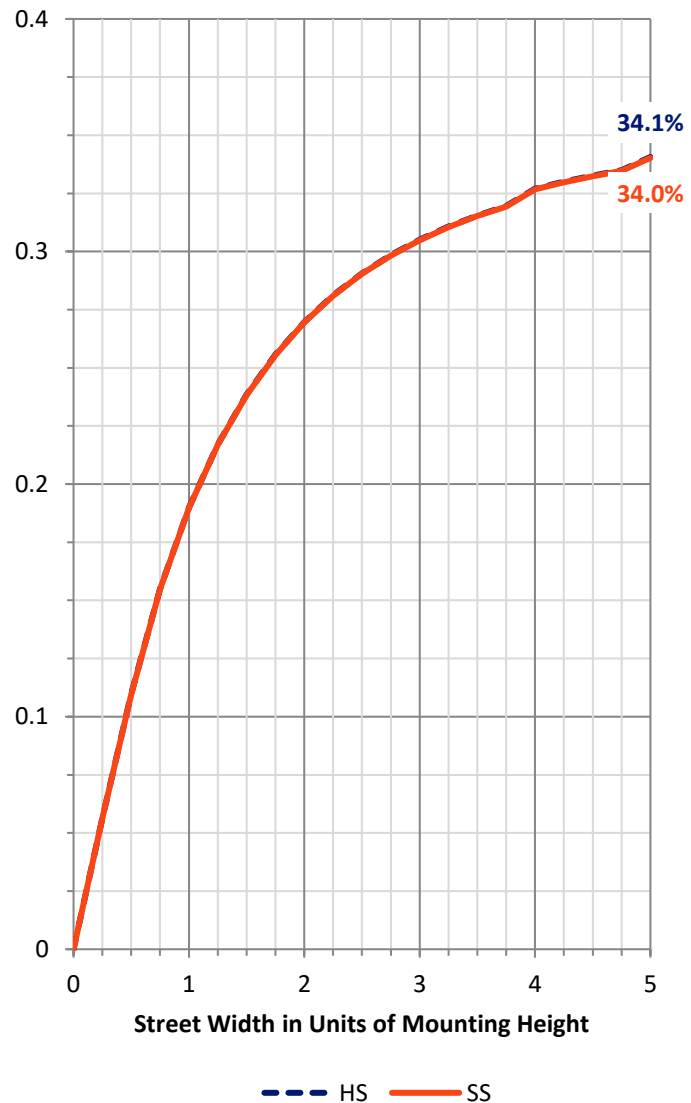
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2965.4	555.8	3521.2
	% Lamp	36.6	6.9	43.5
<b>Street Side</b>	Lumens	2965.4	555.8	3521.2
	% Lamp	36.6	6.9	43.5
<b>Total</b>	Lumens	5930.8	1111.6	7042.4
	% Lamp	73.2	13.7	86.9

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	69.7	1.0	0.9
10°-20°	229.9	3.3	2.8
20°-30°	446.4	6.3	5.5
30°-40°	657.5	9.3	8.1
40°-50°	776.7	11.0	9.6
50°-60°	886.1	12.6	10.9
60°-70°	1043.6	14.8	12.9
70°-80°	1061.5	15.1	13.1
80°-90°	759.4	10.8	9.4
90°-100°	460.6	6.5	5.7
100°-110°	231.0	3.3	2.9
110°-120°	146.7	2.1	1.8
120°-130°	115.2	1.6	1.4
130°-140°	85.6	1.2	1.1
140°-150°	52.0	0.7	0.6
150°-160°	18.6	0.3	0.2
160°-170°	1.8	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	5930.8	84.2	73.2
0°-180°	7042.4	100.0	86.9



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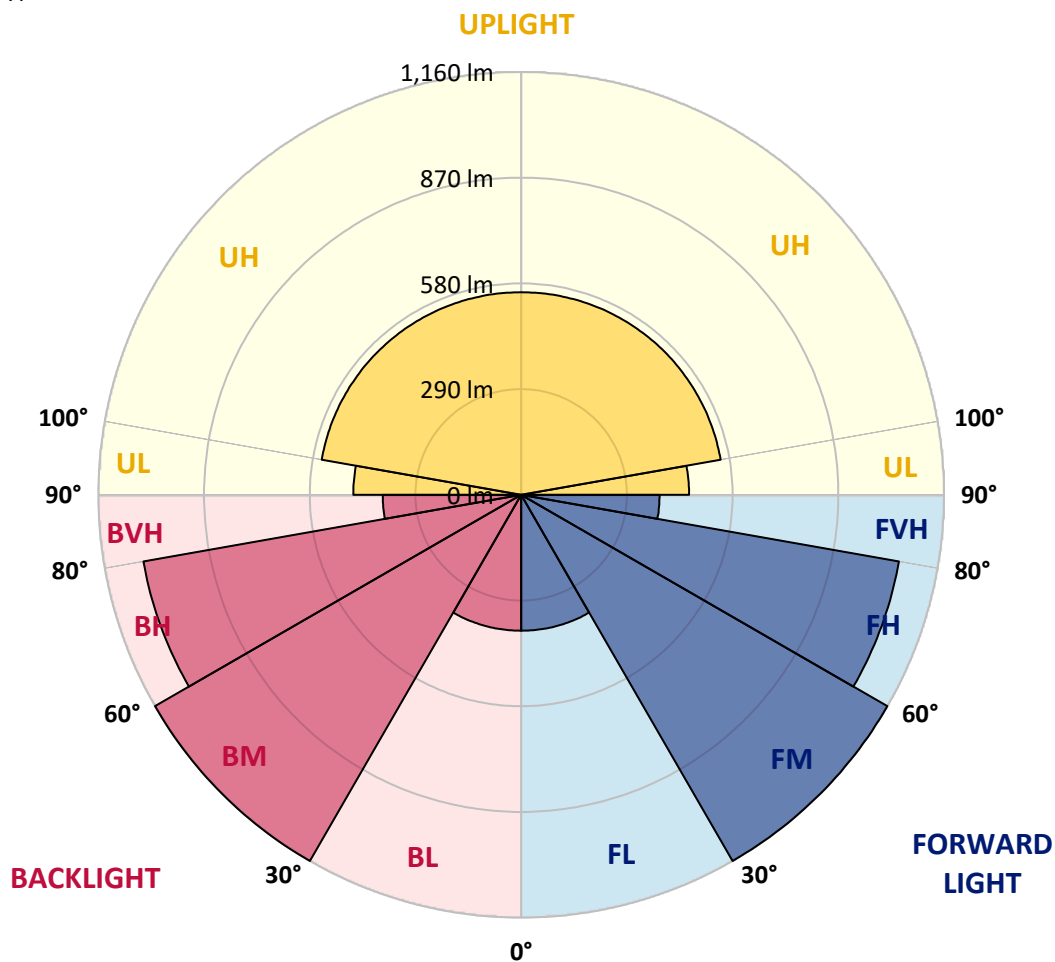
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	373.0	4.6			
FM	(30°-60°)	1160.1	14.3			
FH	(60°-80°)	1052.6	13.0			G1/1800
FVH	(80°-90°)	379.7	4.7			G3/500
BL	(0°-30°)	373.0	4.6	B1/500		
BM	(30°-60°)	1160.1	14.3	B2/2500		
BH	(60°-80°)	1052.6	13.0	B3/2500		G1/1800
BVH	(80°-90°)	379.7	4.7			G3/500
UL	(90°-100°)	460.6	5.7		U3/500	
UH	(100°-180°)	555.8	6.9		U4/1000	
Trapped Light		1057.6	13.1			

**BUG Rating: B3-U4-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	722
2.5°	723
5°	726
7.5°	729
10°	744
12.5°	763
15°	799
17.5°	840
20°	881
22.5°	921
25°	962
27.5°	999
30°	1034
32.5°	1054
35°	1056
37.5°	1045
40°	1031
42.5°	1019
45°	1009
47.5°	987
50°	969
52.5°	971
55°	983
57.5°	1000
60°	1020
62.5°	1038
65°	1053
67.5°	1065
70°	1076
72.5°	1074
75°	1032
77.5°	946
80°	854
82.5°	769
85°	694
87.5°	620
90°	551
92.5°	485
95°	421
97.5°	357
100°	298
102.5°	247
105°	208
107.5°	184
110°	167



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	154
115°	145
117.5°	140
120°	136
122.5°	132
125°	129
127.5°	124
130°	120
132.5°	116
135°	111
137.5°	105
140°	98
142.5°	91
145°	84
147.5°	73
150°	62
152.5°	50
155°	38
157.5°	28
160°	18
162.5°	10
165°	3
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)