

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: 767492

Luminaire Tested: **VAN25SXX55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 767492
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAN25SXX55
Description: 250WATT HPS DUSK-TO-DAWN
Light Source: 250W HPS CL E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 27500 (1 lamp)
Luminaire Lumens: 21720.6 lumens
Efficiency: 79.0%
Efficacy: 86.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U5 - G4

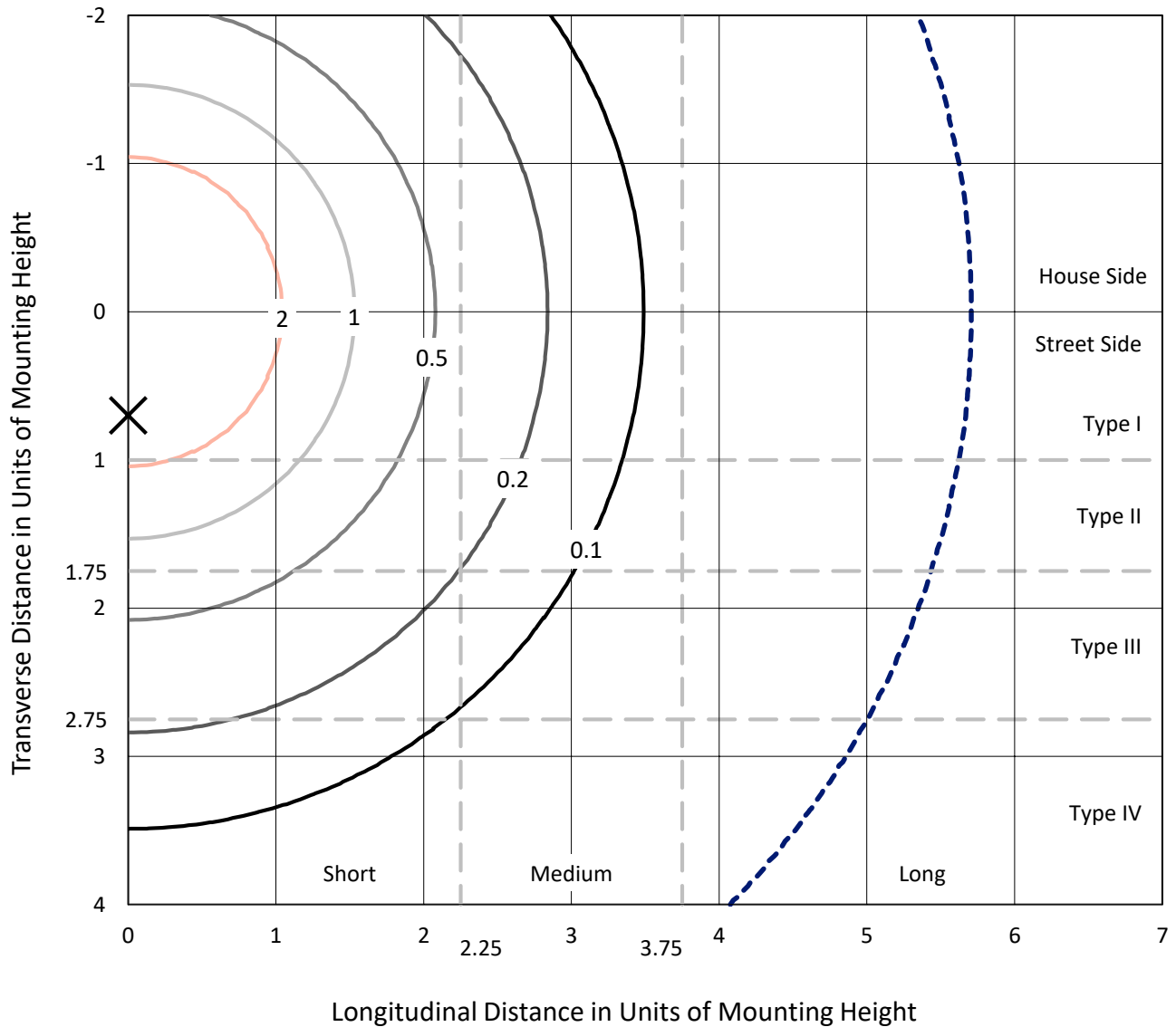
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

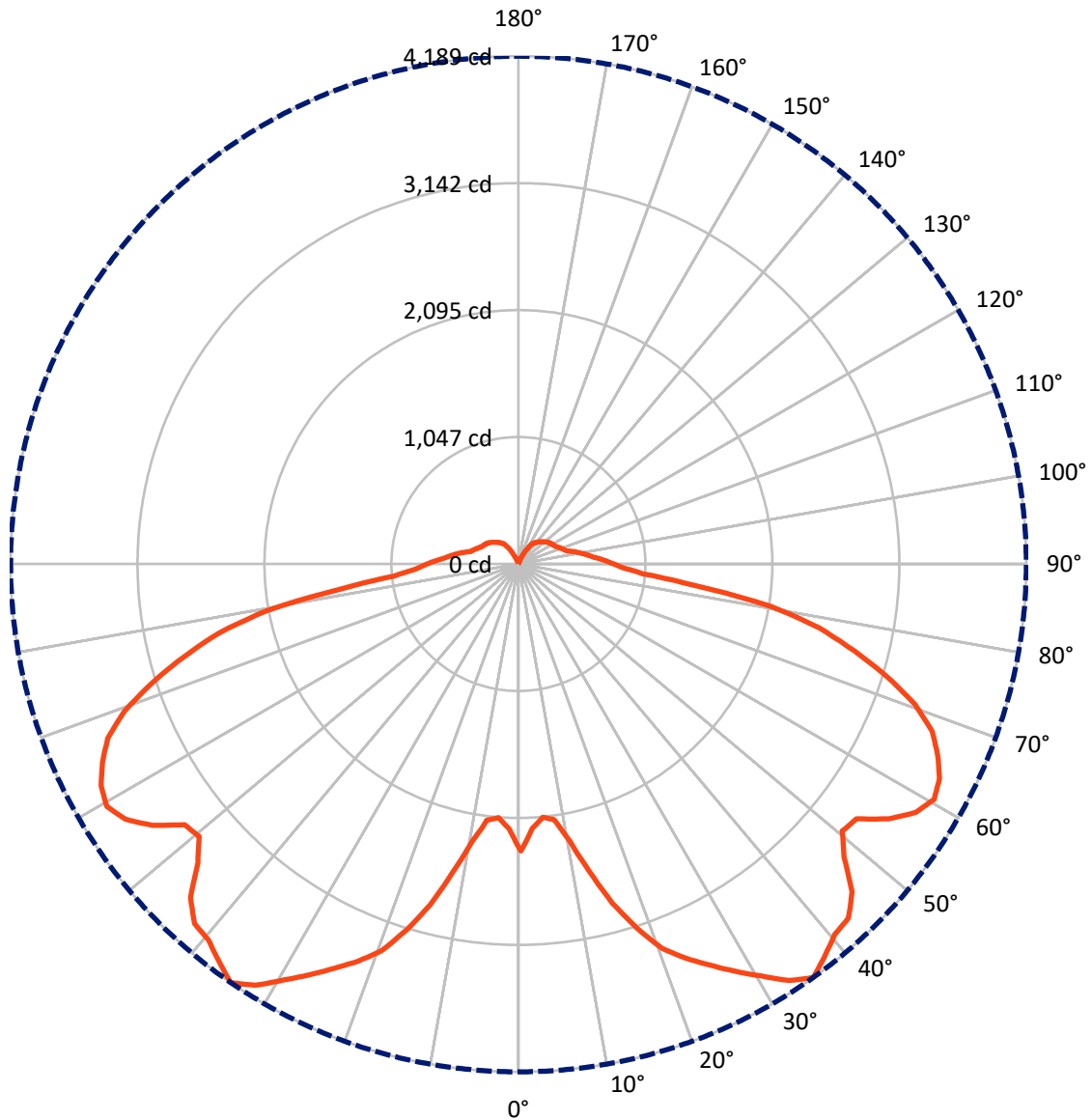
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 35-Deg Vertical

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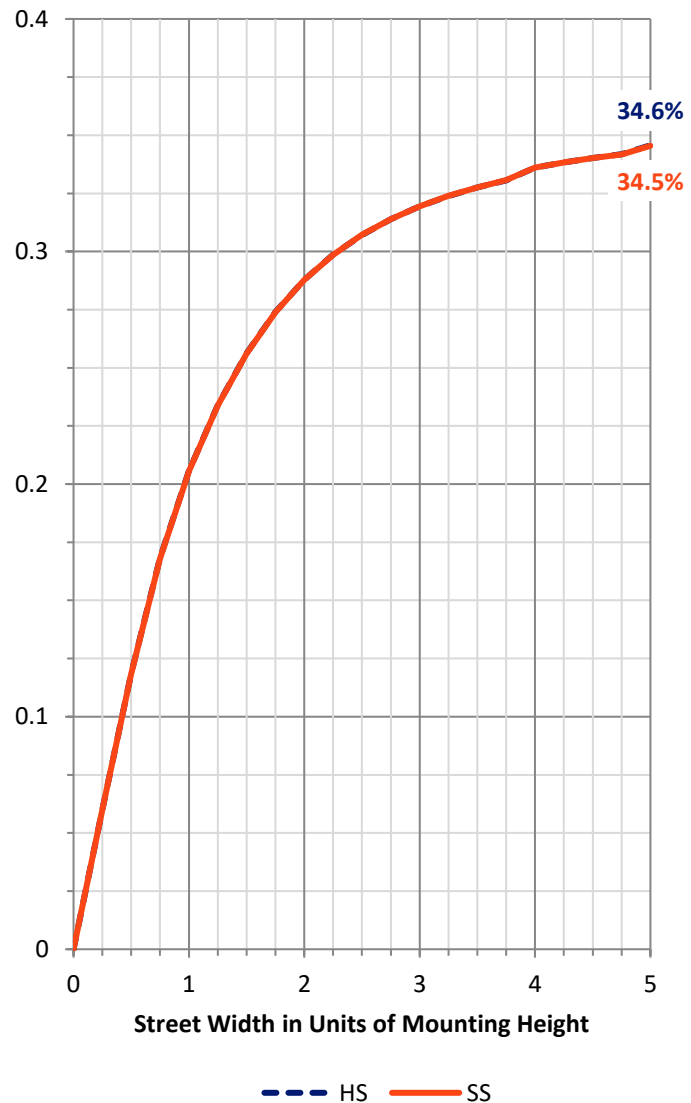
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9807.7	1052.6	10860.3
	% Lamp	35.7	3.8	39.5
Street Side	Lumens	9807.7	1052.6	10860.3
	% Lamp	35.7	3.8	39.5
Total	Lumens	19615.3	2105.2	21720.6
	% Lamp	71.3	7.7	79.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	207.9	1.0	0.8
10°-20°	831.2	3.8	3.0
20°-30°	1704.4	7.8	6.2
30°-40°	2571.7	11.8	9.4
40°-50°	2936.9	13.5	10.7
50°-60°	3317.3	15.3	12.1
60°-70°	3740.0	17.2	13.6
70°-80°	3000.4	13.8	10.9
80°-90°	1305.4	6.0	4.7
90°-100°	684.5	3.2	2.5
100°-110°	468.1	2.2	1.7
110°-120°	345.2	1.6	1.3
120°-130°	270.7	1.2	1.0
130°-140°	198.1	0.9	0.7
140°-150°	114.8	0.5	0.4
150°-160°	39.2	0.2	0.1
160°-170°	4.8	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	19615.3	90.3	71.3
0°-180°	21720.6	100.0	79.0

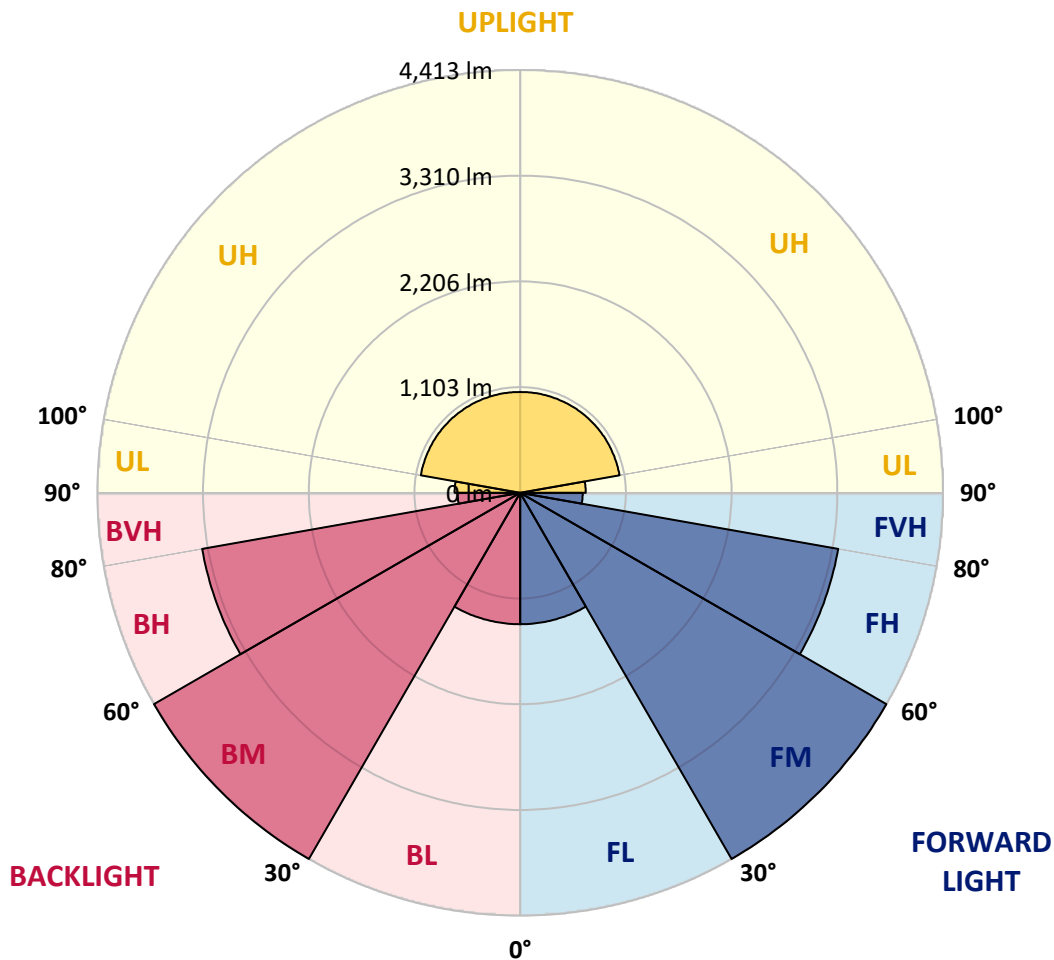


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1371.8	5.0			
FM	(30°-60°)	4413.0	16.0			
FH	(60°-80°)	3370.2	12.3			G2/5000
FVH	(80°-90°)	652.7	2.4			G4/750
BL	(0°-30°)	1371.8	5.0	B3/2500		
BM	(30°-60°)	4413.0	16.0	B3/5000		
BH	(60°-80°)	3370.2	12.3	B4/5000		G2/5000
BVH	(80°-90°)	652.7	2.4			G4/750
UL	(90°-100°)	684.5	2.5		U4/1000	
UH	(100°-180°)	1052.6	3.8		U5	
Trapped Light		5779.4	21.0			

BUG Rating: B4-U5-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	2368
2.5°	2184
5°	2098
7.5°	2129
10°	2322
12.5°	2598
15°	2902
17.5°	3156
20°	3384
22.5°	3533
25°	3664
27.5°	3804
30°	3943
32.5°	4097
35°	4189
37.5°	4104
40°	4019
42.5°	3992
45°	3857
47.5°	3614
50°	3462
52.5°	3492
55°	3710
57.5°	3865
60°	3940
62.5°	3898
65°	3801
67.5°	3679
70°	3470
72.5°	3179
75°	2860
77.5°	2536
80°	2108
82.5°	1468
85°	1028
87.5°	858
90°	769
95°	614
105°	409
115°	338
125°	306
135°	257
145°	203
155°	68
165°	0



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CANDELA DISTRIBUTION (continued):

	0°
175°	0
180°	0

(END OF REPORT)