

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: E366-57

Luminaire Tested: **UTR25SXX55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: E366-57
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTR25SXX55
Description: 250W HPS TYPE V TRADITIONAIRE POST TOP
Light Source: 250W HPS COATED E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 18420.7 lumens
Efficiency: 61.4%
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 0.92' x H: 1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U4 - G5

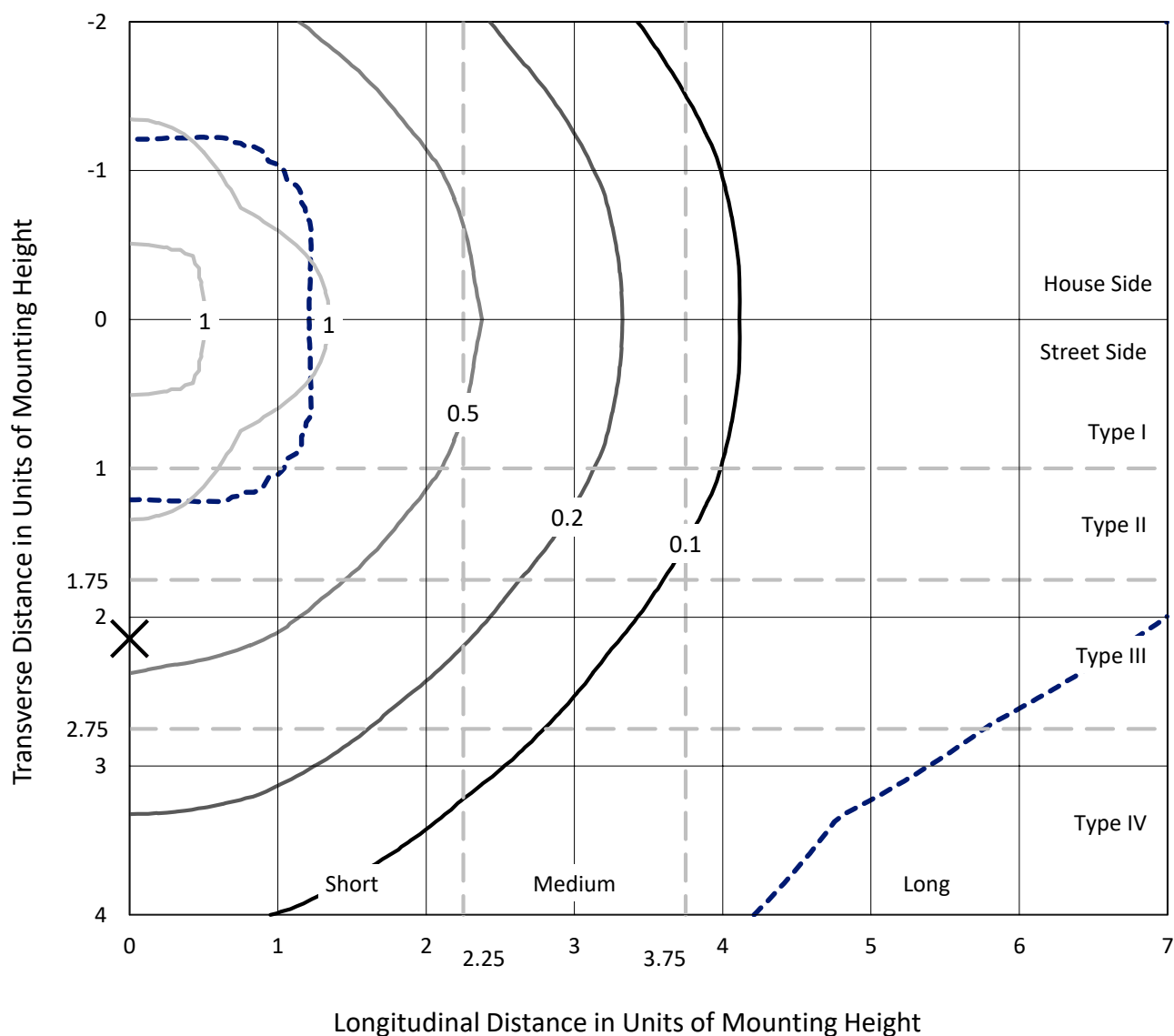
Input Watts (W): 300
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

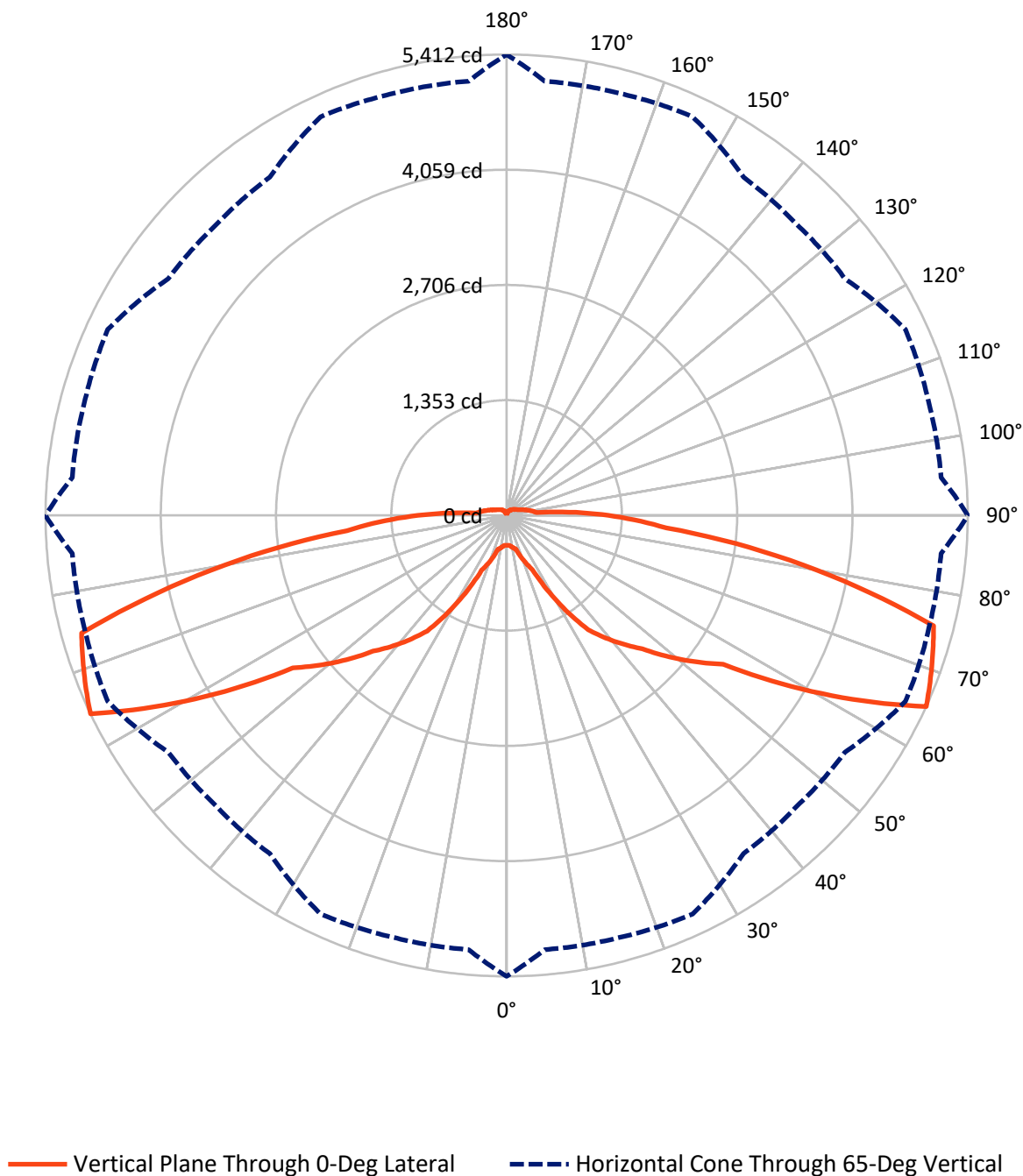
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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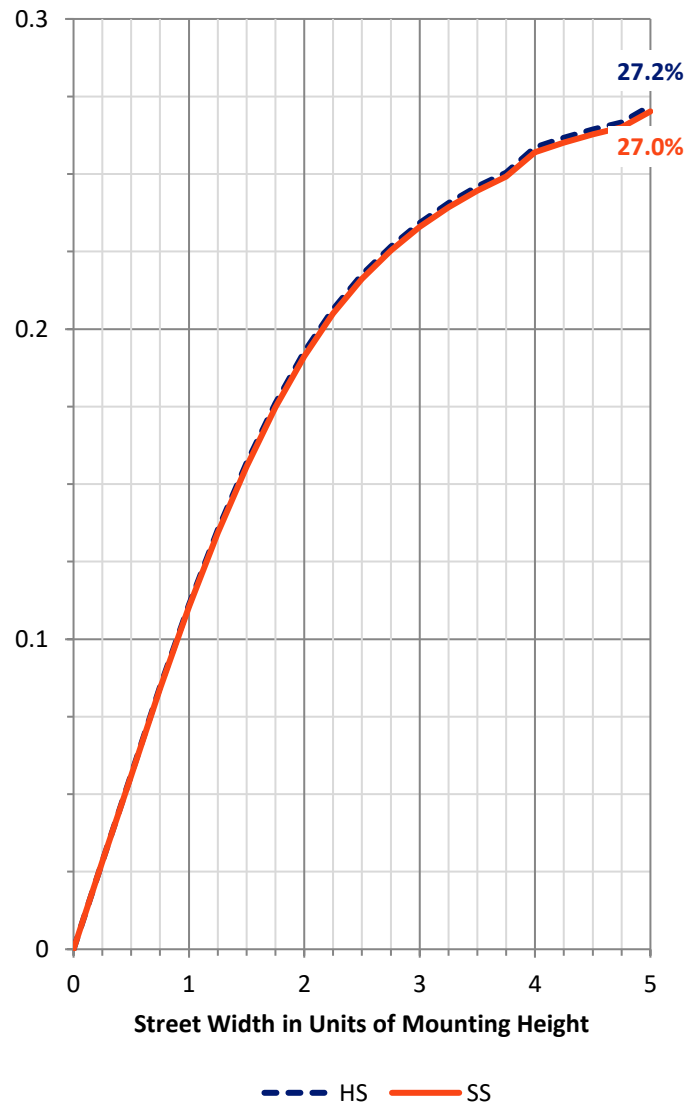
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8541.8	668.5	9210.4
	% Lamp	28.5	2.2	30.7
Street Side	Lumens	8541.8	668.5	9210.4
	% Lamp	28.5	2.2	30.7
Total	Lumens	17083.7	1337.0	18420.7
	% Lamp	56.9	4.5	61.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.9	0.2	0.1
10°-20°	129.0	0.7	0.4
20°-30°	369.1	2.0	1.2
30°-40°	887.5	4.8	3.0
40°-50°	1624.4	8.8	5.4
50°-60°	2868.9	15.6	9.6
60°-70°	4414.5	24.0	14.7
70°-80°	4287.6	23.3	14.3
80°-90°	2266.2	12.3	7.6
90°-100°	737.4	4.0	2.5
100°-110°	317.0	1.7	1.1
110°-120°	192.5	1.0	0.6
120°-130°	118.4	0.6	0.4
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°	17083.7	92.7	56.9
0°-180°	18420.7	100.0	61.4

Coefficient of Utilization



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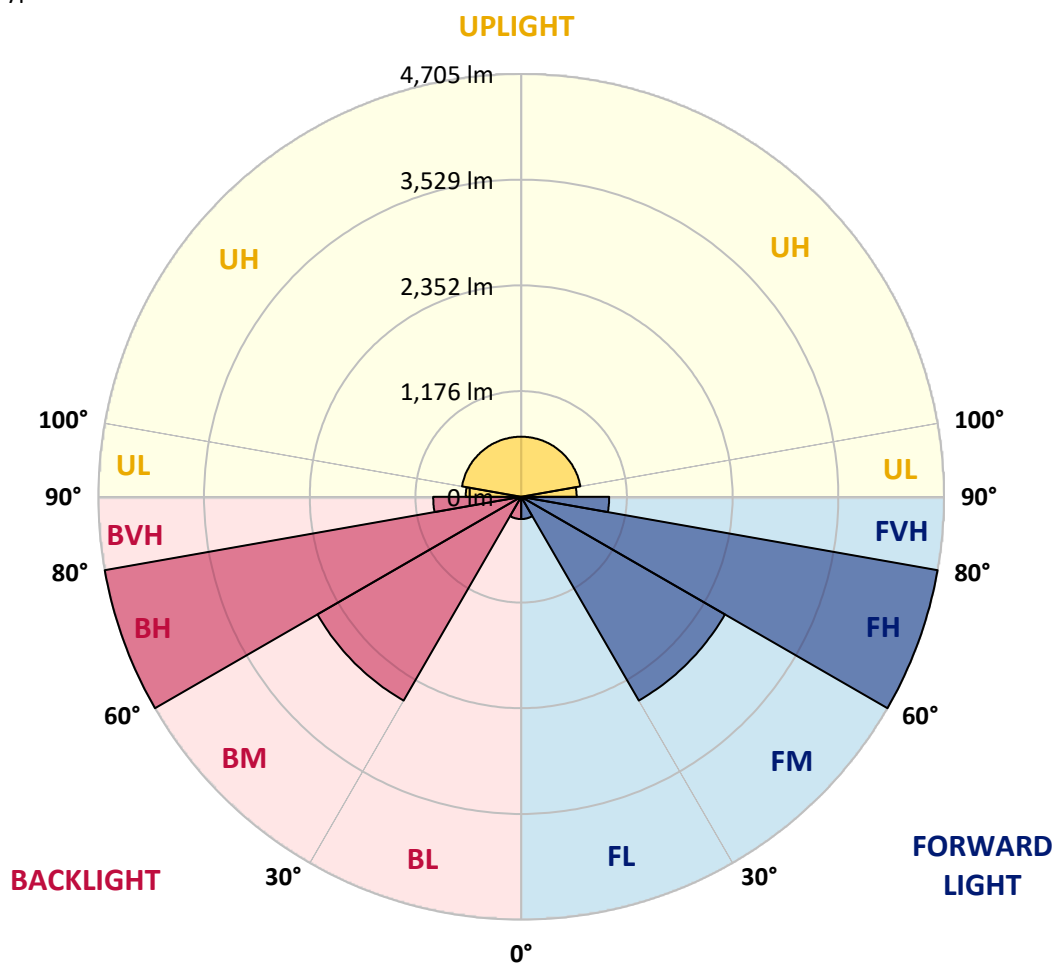
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	247.4	0.8			
FM	(30°-60°)	2618.1	8.7			
FH	(60°-80°)	4704.9	15.7			G2/5000
FVH	(80°-90°)	979.0	3.3			G5
BL	(0°-30°)	247.4	0.8	B1/500		
BM	(30°-60°)	2618.1	8.7	B3/5000		
BH	(60°-80°)	4704.9	15.7	B4/5000		G2/5000
BVH	(80°-90°)	979.0	3.3			G5
UL	(90°-100°)	617.5	2.1		U4/1000	
UH	(100°-180°)	668.5	2.2		U4/1000	
Trapped Light		11579.3	38.6			

BUG Rating: B4-U4-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0
5°	353.0	353.0	353.0	353.0	358.8	364.7	358.8	353.0	353.0	353.0	353.0
15°	411.8	411.8	417.7	417.7	405.9	400.0	405.9	417.7	417.7	411.8	411.8
25°	705.9	705.9	676.5	617.7	588.2	588.2	588.2	617.7	676.5	705.9	705.9
35°	1647.1	1617.7	1588.3	1500.0	1364.7	1317.7	1364.7	1500.0	1588.3	1617.7	1647.1
45°	2235.4	2223.6	2105.9	1970.6	1870.6	1800.0	1870.6	1970.6	2105.9	2223.6	2235.4
55°	3082.4	3082.4	3011.8	2823.6	2653.0	2600.1	2653.0	2823.6	3011.8	3082.4	3082.4
65°	5411.9	5117.8	5129.5	5164.8	4847.2	4823.7	4847.2	5164.8	5129.5	5117.8	5411.9
75°	5176.6	5235.4	5176.6	4735.4	4382.5	4353.0	4382.5	4735.4	5176.6	5235.4	5176.6
85°	1882.4	1882.4	1764.8	1411.8	1176.5	1176.5	1176.5	1411.8	1764.8	1882.4	1882.4
95°	353.0	400.0	400.0	435.3	541.2	564.7	541.2	435.3	400.0	400.0	353.0
105°	235.3	235.3	247.1	276.5	317.7	341.2	317.7	276.5	247.1	235.3	235.3
115°	152.9	158.8	170.6	194.1	217.7	223.5	217.7	194.1	170.6	158.8	152.9
125°	117.6	117.6	117.6	117.6	123.5	129.4	123.5	117.6	117.6	117.6	117.6
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0	353.0
5°	353.0	353.0	353.0	358.8	364.7	358.8	353.0	353.0	353.0	353.0
15°	411.8	417.7	417.7	405.9	400.0	405.9	417.7	417.7	411.8	411.8
25°	705.9	676.5	617.7	588.2	588.2	588.2	617.7	676.5	705.9	705.9
35°	1617.7	1588.3	1500.0	1364.7	1317.7	1364.7	1500.0	1588.3	1617.7	1647.1
45°	2223.6	2105.9	1970.6	1870.6	1800.0	1870.6	1970.6	2105.9	2223.6	2235.4
55°	3082.4	3011.8	2823.6	2653.0	2600.1	2653.0	2823.6	3011.8	3082.4	3082.4
65°	5117.8	5129.5	5164.8	4847.2	4823.7	4847.2	5164.8	5129.5	5117.8	5411.9
75°	5235.4	5176.6	4735.4	4382.5	4353.0	4382.5	4735.4	5176.6	5235.4	5176.6
85°	1882.4	1764.8	1411.8	1176.5	1176.5	1176.5	1411.8	1764.8	1882.4	1882.4
95°	400.0	400.0	435.3	541.2	564.7	541.2	435.3	400.0	400.0	353.0
105°	235.3	247.1	276.5	317.7	341.2	317.7	276.5	247.1	235.3	235.3
115°	158.8	170.6	194.1	217.7	223.5	217.7	194.1	170.6	158.8	152.9
125°	117.6	117.6	117.6	123.5	129.4	123.5	117.6	117.6	117.6	117.6
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)