

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: E366-39 _150MP

Luminaire Tested: **UTR15PXX22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: E366-39 _150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTR15PXX22
Description: 175W MH TYPE II TRADITIONAIRE POST TOP
Light Source: 150 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 7534.1 lumens
Efficiency: 53.8%
Efficacy: 40.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 0.92' x H: 1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U3 - G3

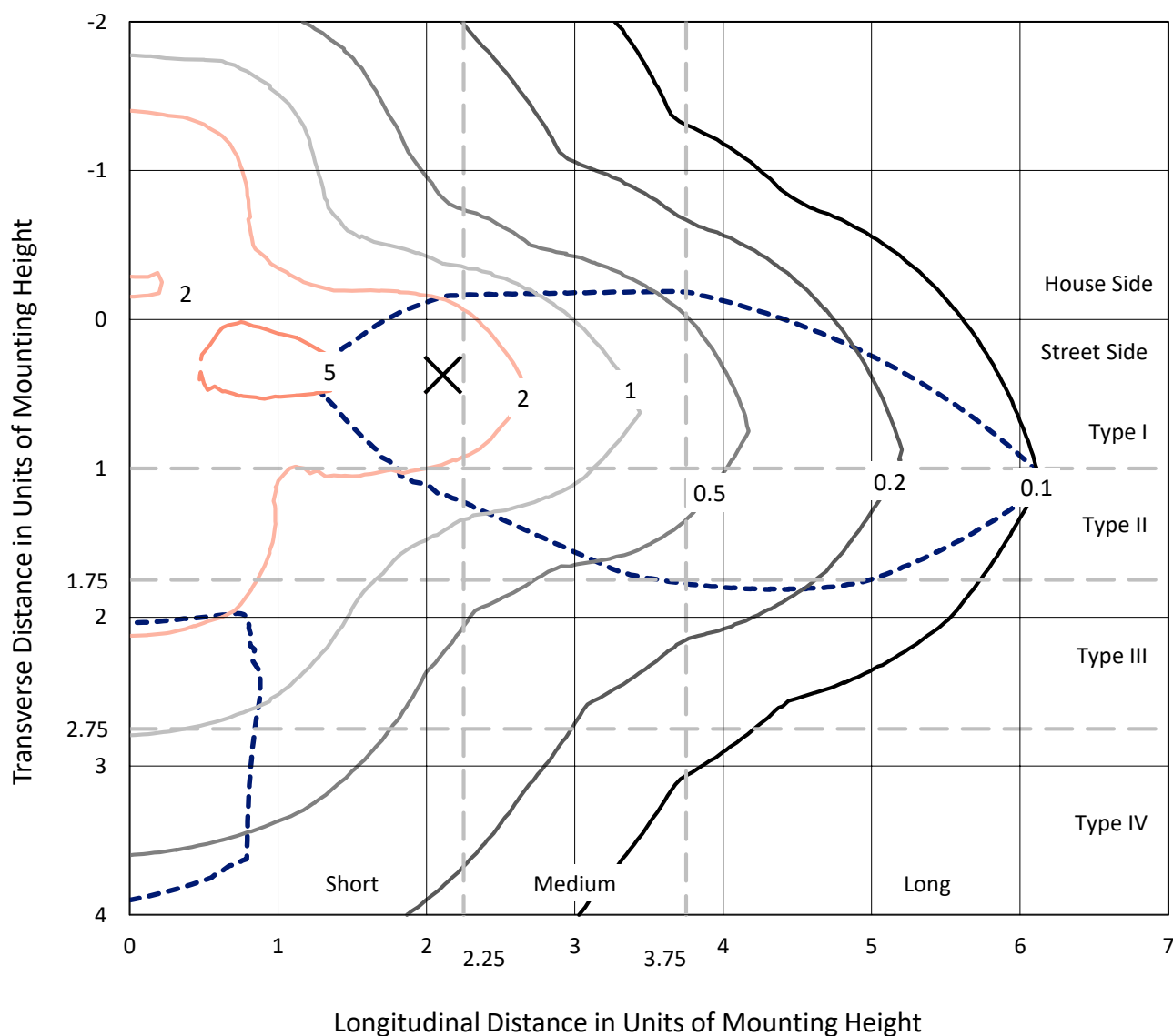
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

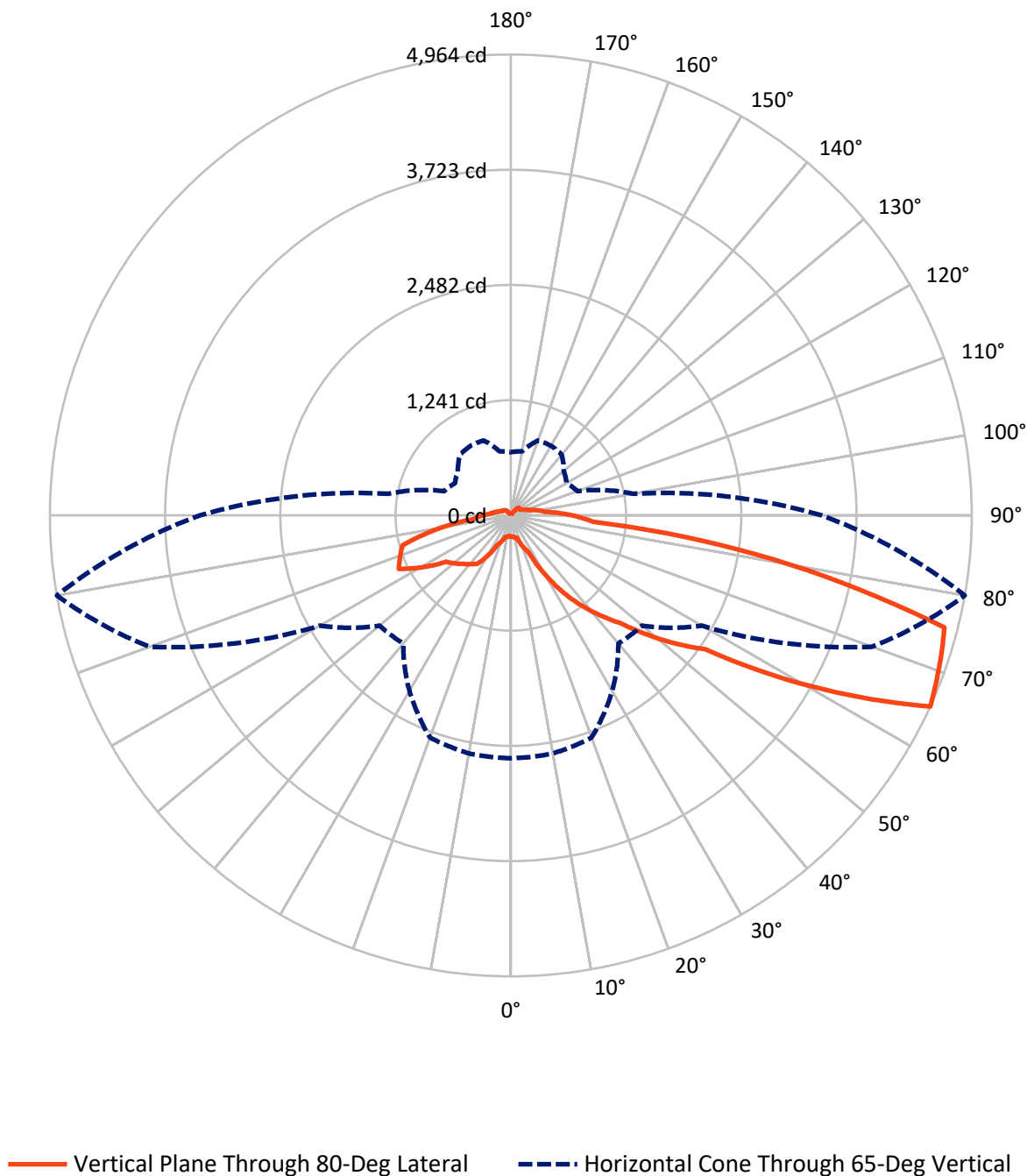
× Max cd
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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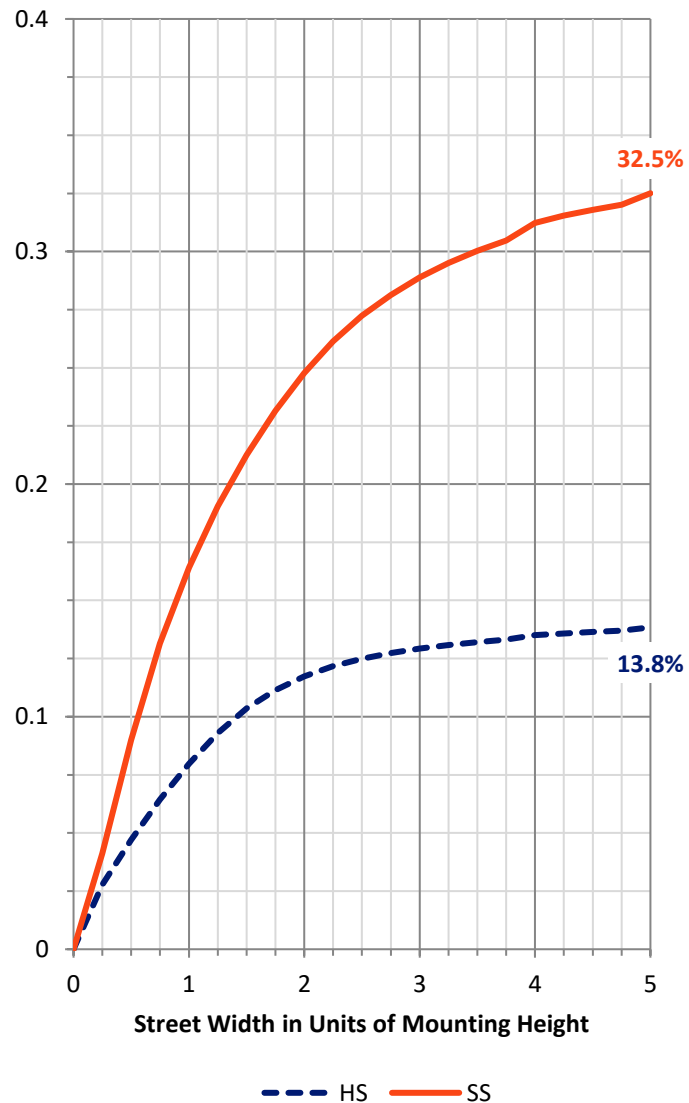
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2025.8	350.8	2376.6
	% Lamp	14.5	2.5	17.0
Street Side	Lumens	4726.8	430.7	5157.5
	% Lamp	33.8	3.1	36.8
Total	Lumens	6752.6	781.5	7534.1
	% Lamp	48.2	5.6	53.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.2	0.3	0.2
10°-20°	76.7	1.0	0.5
20°-30°	203.1	2.7	1.5
30°-40°	455.6	6.0	3.3
40°-50°	771.5	10.2	5.5
50°-60°	1207.8	16.0	8.6
60°-70°	1668.9	22.2	11.9
70°-80°	1511.3	20.1	10.8
80°-90°	784.6	10.4	5.6
90°-100°	314.6	4.2	2.2
100°-110°	188.1	2.5	1.3
110°-120°	125.9	1.7	0.9
120°-130°	86.9	1.2	0.6
130°-140°	53.2	0.7	0.4
140°-150°	25.1	0.3	0.2
150°-160°	10.8	0.1	0.1
160°-170°	4.4	0.1	0.0
170°-180°	0.0	0.0	0.0
0°-90°	6752.6	89.6	48.2
0°-180°	7534.1	100.0	53.8

Coefficient of Utilization

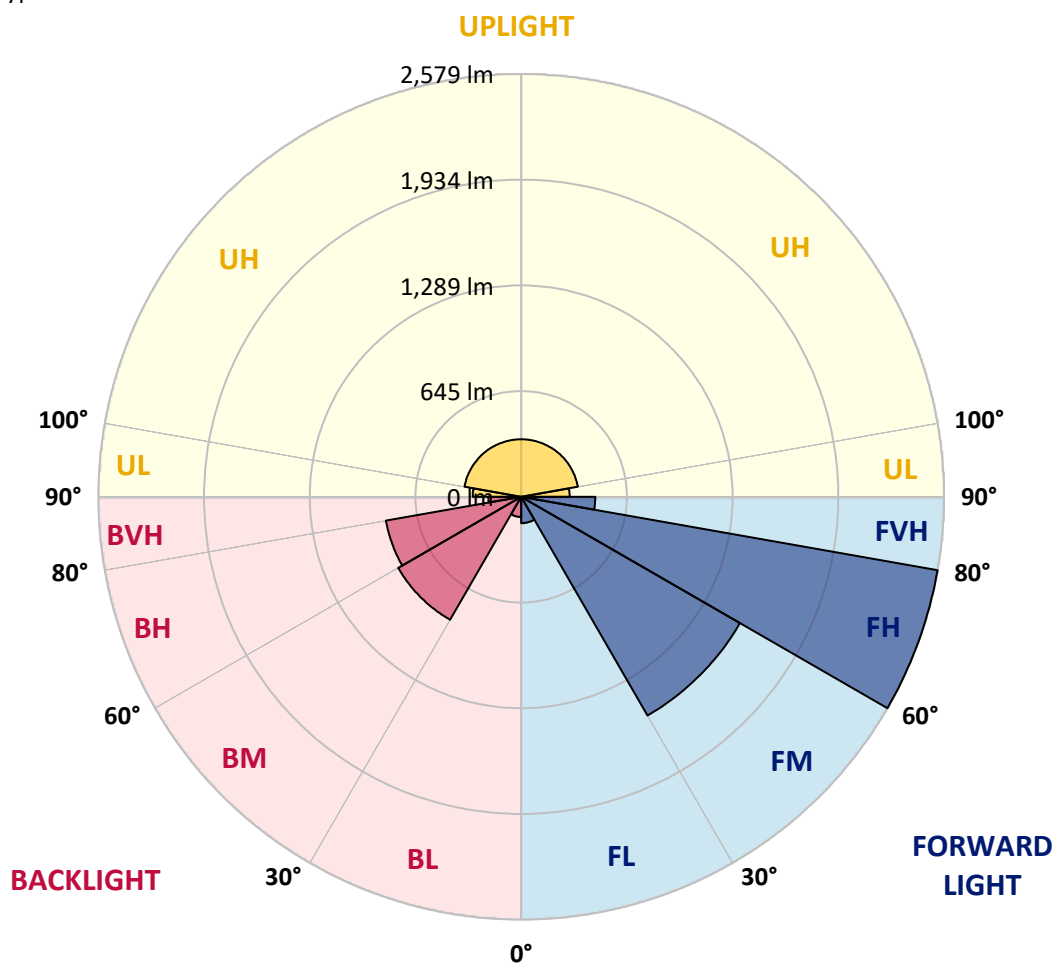


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	160.8	1.1			
FM	(30°-60°)	1540.0	11.0			
FH	(60°-80°)	2578.5	18.4			G2/5000
FVH	(80°-90°)	451.8	3.2			G3/500
BL	(0°-30°)	123.0	0.9	B1/500		
BM	(30°-60°)	866.0	6.2	B1/1000		
BH	(60°-80°)	837.5	6.0	B2/1000		G2/1000
BVH	(80°-90°)	200.7	1.4			G2/225
UL	(90°-100°)	295.8	2.1		U3/500	
UH	(100°-180°)	350.8	2.5		U3/500	
Trapped Light		6465.9	46.2			

BUG Rating: B2-U3-G3
Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1
5°	254.5	254.5	254.5	248.2	248.2	248.2	241.8	235.4	229.1	222.7	222.7
15°	286.4	286.4	286.4	273.6	267.3	254.5	254.5	254.5	254.5	241.8	241.8
25°	464.5	477.3	426.4	381.8	369.1	400.9	413.6	420.0	439.1	375.4	350.0
35°	884.5	871.8	801.8	731.8	674.5	967.3	1361.8	1215.4	1081.8	903.6	630.0
45°	1094.5	1075.4	986.3	935.4	808.2	852.7	1533.6	1953.6	1654.5	1126.3	731.8
55°	1457.2	1508.1	1368.2	1266.3	1069.1	1056.3	1571.8	2634.5	2545.4	1635.4	859.1
65°	2615.4	2602.7	2545.4	2182.7	1800.9	1845.4	2373.6	4136.3	4963.5	3347.2	1336.3
75°	2602.7	2507.2	2386.3	2055.4	1699.1	1527.2	1998.1	3709.9	4823.5	3003.6	1209.1
85°	636.4	604.5	585.4	591.8	540.9	496.4	509.1	731.8	890.9	655.4	400.9
95°	222.7	229.1	254.5	286.4	292.7	286.4	305.4	324.5	381.8	292.7	222.7
105°	133.6	133.6	152.7	178.2	184.5	184.5	203.6	197.3	216.4	184.5	152.7
115°	101.8	101.8	108.2	114.5	120.9	120.9	152.7	140.0	140.0	127.3	108.2
125°	89.1	89.1	89.1	95.5	95.5	95.5	101.8	108.2	114.5	101.8	95.5
135°	89.1	82.7	76.4	63.6	50.9	50.9	82.7	114.5	114.5	95.5	76.4
145°	44.5	38.2	31.8	31.8	31.8	31.8	31.8	31.8	31.8	44.5	31.8
155°	25.5	25.5	25.5	25.5	25.5	25.5	19.1	19.1	19.1	25.5	25.5
165°	25.5	25.5	25.5	25.5	25.5	25.5	19.1	19.1	19.1	19.1	19.1
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):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1
5°	222.7	222.7	222.7	222.7	210.0	210.0	210.0	210.0
15°	241.8	222.7	210.0	203.6	203.6	203.6	203.6	203.6
25°	330.9	299.1	292.7	286.4	286.4	330.9	343.6	343.6
35°	521.8	477.3	477.3	540.9	598.2	636.4	700.0	719.1
45°	591.8	540.9	591.8	712.7	820.9	833.6	865.4	871.8
55°	630.0	585.4	674.5	827.3	986.3	1050.0	1018.2	1043.6
65°	763.6	693.6	744.5	852.7	865.4	859.1	700.0	680.9
75°	674.5	642.7	566.4	553.6	477.3	400.9	318.2	280.0
85°	330.9	350.0	362.7	343.6	305.4	273.6	222.7	190.9
95°	216.4	222.7	248.2	235.4	222.7	190.9	159.1	159.1
105°	152.7	178.2	171.8	165.5	159.1	146.4	133.6	133.6
115°	108.2	127.3	127.3	127.3	127.3	114.5	108.2	114.5
125°	89.1	89.1	95.5	95.5	95.5	95.5	95.5	95.5
135°	63.6	63.6	50.9	44.5	70.0	70.0	70.0	70.0
145°	31.8	25.5	19.1	19.1	31.8	31.8	31.8	44.5
155°	25.5	19.1	12.7	12.7	25.5	25.5	25.5	25.5
165°	19.1	0.0	0.0	0.0	12.7	12.7	12.7	12.7
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)