

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: PRORATED FROM E366-40 _200MP

Luminaire Tested: **UTR20PXX55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: PRORATED FROM E366-40 _200MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTR20PXX55
Description: 250W MH TYPE V TRADITIONAIRE POST TOP
Light Source: 200 WATT PULSE-START CLEAR ED-28 VBD BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 21000 (1 lamp)
Luminaire Lumens: 12612.7 lumens
Efficiency: 60.1%
Efficacy: 45.5 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 - G4

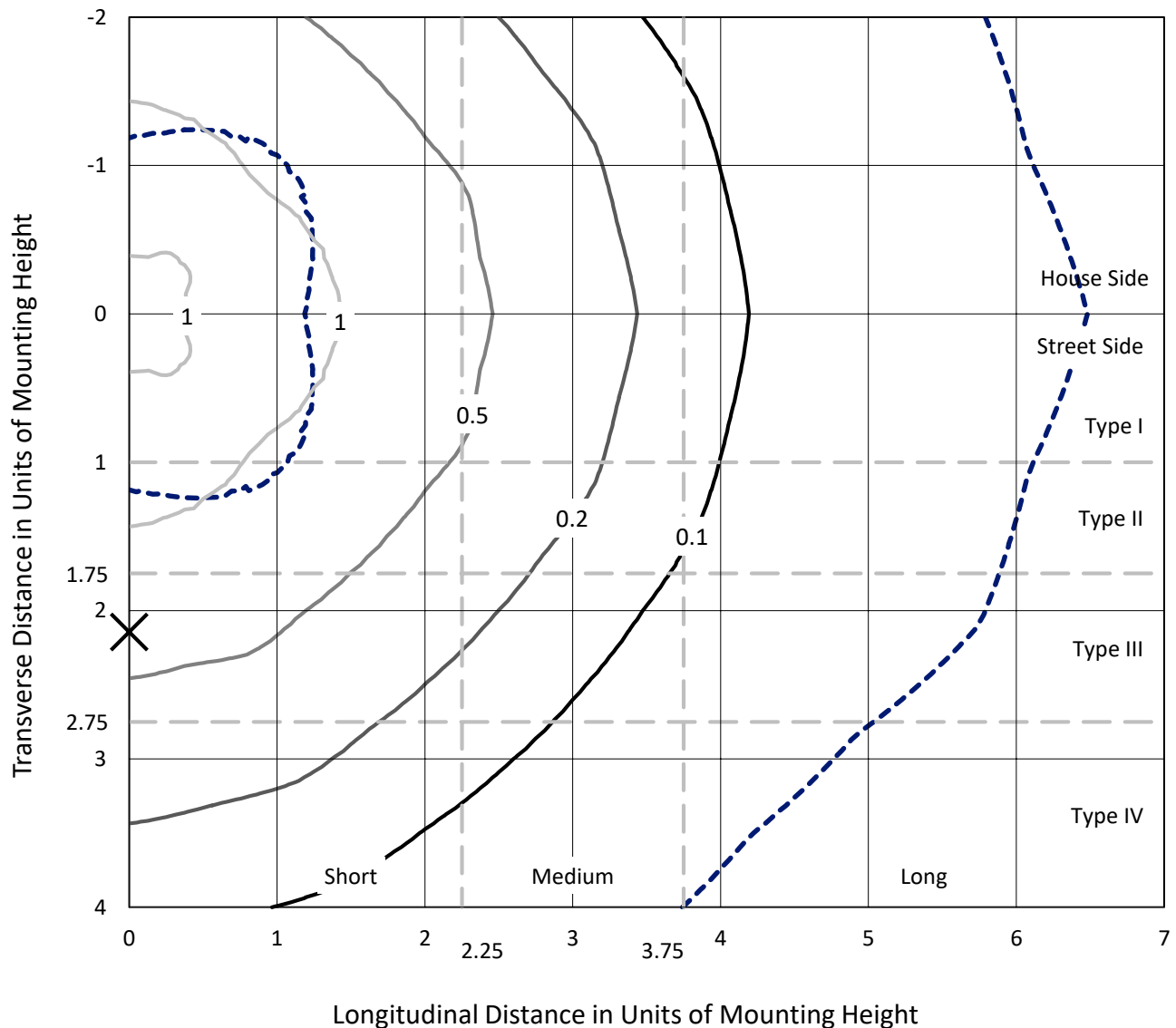
Input Watts (W): 277
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

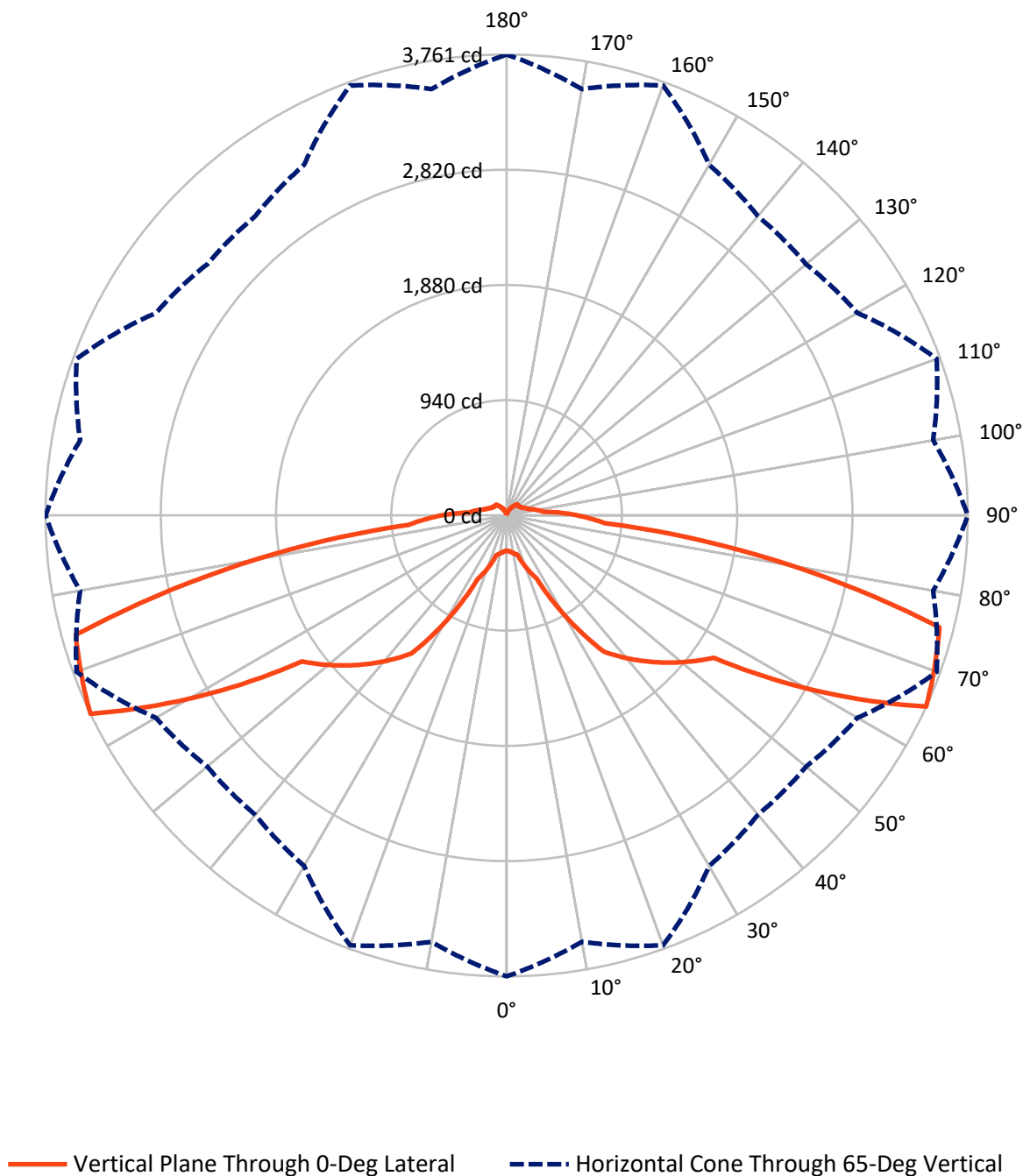
× Max cd
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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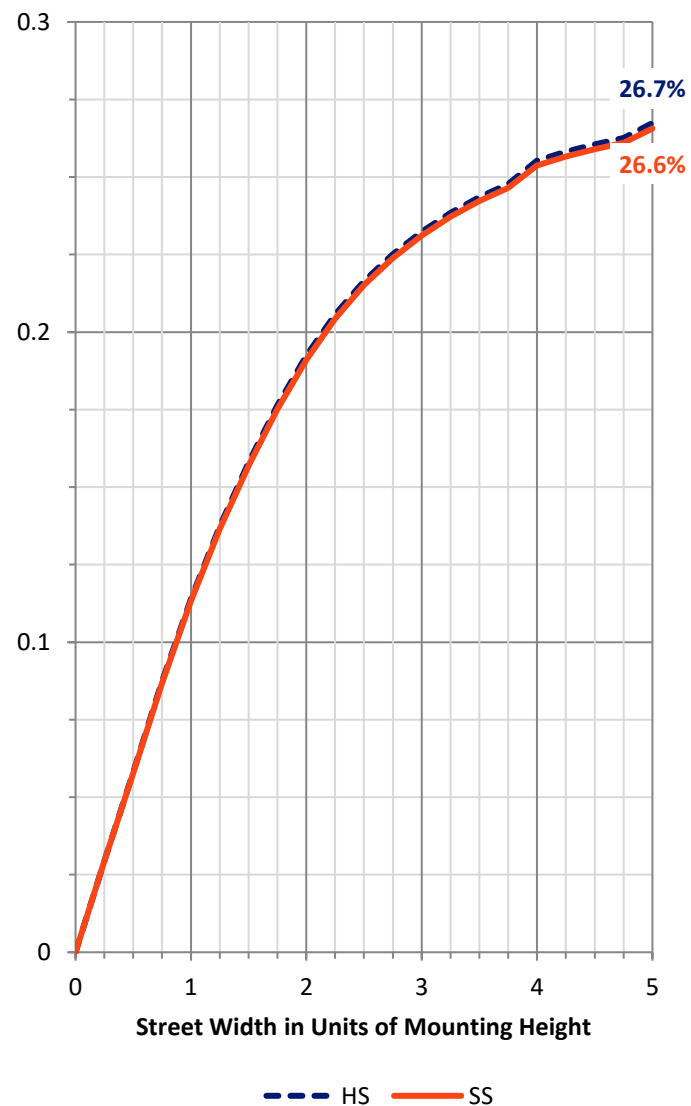
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5803.1	503.3	6306.3
	% Lamp	27.6	2.4	30.0
Street Side	Lumens	5803.1	503.3	6306.3
	% Lamp	27.6	2.4	30.0
Total	Lumens	11606.1	1006.6	12612.7
	% Lamp	55.3	4.8	60.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.4	0.2	0.1
10°-20°	103.2	0.8	0.5
20°-30°	296.6	2.4	1.4
30°-40°	696.1	5.5	3.3
40°-50°	1195.5	9.5	5.7
50°-60°	1988.9	15.8	9.5
60°-70°	3007.9	23.8	14.3
70°-80°	2825.2	22.4	13.5
80°-90°	1373.5	10.9	6.5
90°-100°	437.9	3.5	2.1
100°-110°	232.5	1.8	1.1
110°-120°	147.1	1.2	0.7
120°-130°	104.6	0.8	0.5
130°-140°	71.1	0.6	0.3
140°-150°	39.1	0.3	0.2
150°-160°	19.2	0.2	0.1
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	11606.1	92.0	55.3
0°-180°	12612.7	100.0	60.1

Coefficient of Utilization

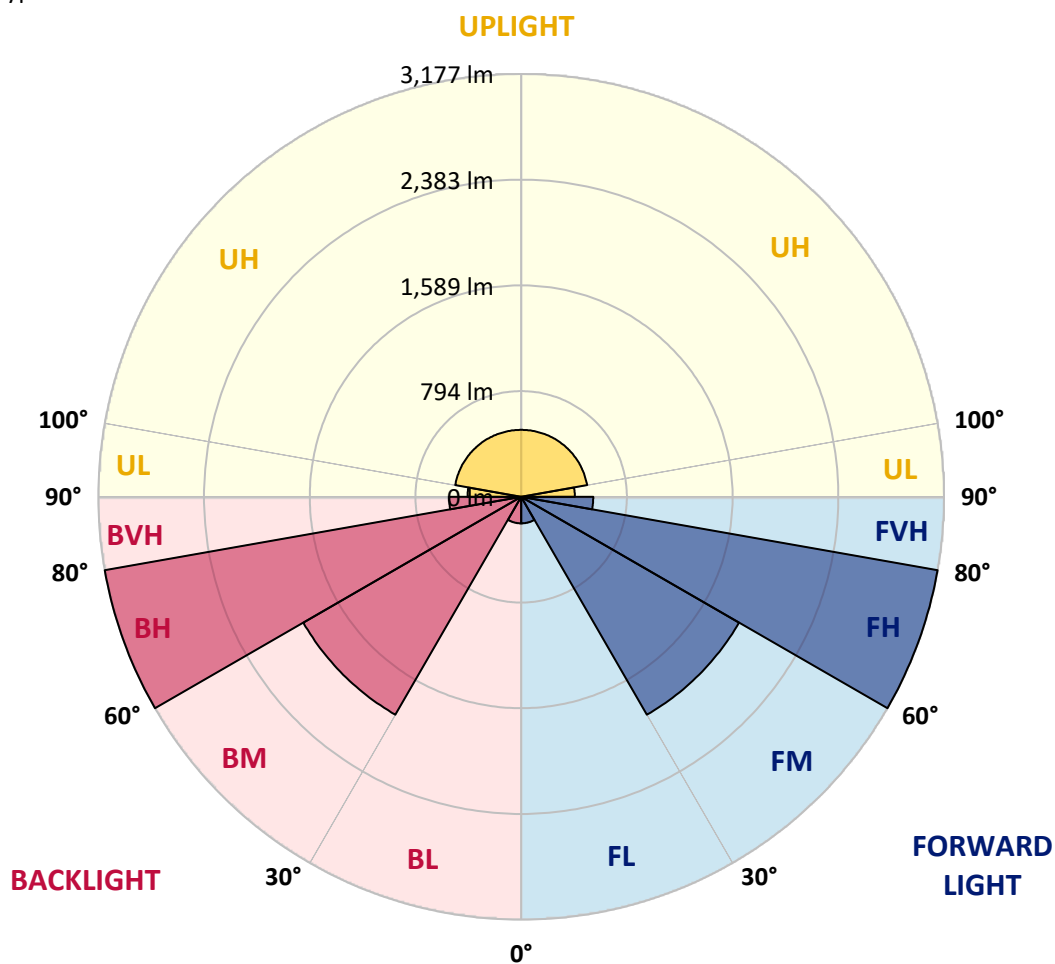


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	199.5	0.9			
FM	(30°-60°)	1890.2	9.0			
FH	(60°-80°)	3177.1	15.1			G2/5000
FVH	(80°-90°)	541.7	2.6			G4/750
BL	(0°-30°)	199.5	0.9	B1/500		
BM	(30°-60°)	1890.2	9.0	B2/2500		
BH	(60°-80°)	3177.1	15.1	B4/5000		G2/5000
BVH	(80°-90°)	541.7	2.6			G4/750
UL	(90°-100°)	403.2	1.9		U3/500	
UH	(100°-180°)	503.3	2.4		U4/1000	
Trapped Light		8387.3	39.9			

BUG Rating: B4-U4-G4
Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8
5°	296.0	296.0	296.0	296.0	286.8	286.8	296.0	296.0	296.0	296.0	296.0
15°	334.0	334.0	334.0	276.6	314.5	314.5	276.6	334.0	334.0	334.0	334.0
25°	572.6	592.1	563.4	496.8	439.5	439.5	496.8	563.4	592.1	572.6	592.1
35°	1364.5	1346.0	1164.7	1098.1	1059.2	1059.2	1098.1	1164.7	1346.0	1364.5	1346.0
45°	1708.7	1622.6	1479.2	1527.4	1384.0	1384.0	1527.4	1479.2	1622.6	1708.7	1622.6
55°	2051.9	2051.9	1976.0	1880.8	1766.0	1766.0	1880.8	1976.0	2051.9	2051.9	2051.9
65°	3760.5	3532.1	3731.9	3302.6	3187.9	3187.9	3302.6	3731.9	3532.1	3760.5	3532.1
75°	3645.8	3408.1	3360.0	3044.5	2940.0	2940.0	3044.5	3360.0	3408.1	3645.8	3408.1
85°	802.1	763.2	763.2	706.8	649.5	649.5	706.8	763.2	763.2	802.1	763.2
95°	305.3	305.3	334.0	362.6	362.6	362.6	362.6	334.0	305.3	305.3	305.3
105°	190.5	190.5	200.8	210.0	210.0	210.0	210.0	200.8	190.5	190.5	190.5
115°	143.4	133.2	133.2	143.4	143.4	143.4	143.4	133.2	133.2	143.4	133.2
125°	124.0	114.7	104.5	114.7	114.7	114.7	114.7	104.5	114.7	124.0	114.7
135°	124.0	114.7	104.5	95.3	76.8	76.8	95.3	104.5	114.7	124.0	114.7
145°	86.0	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	86.0	48.1
155°	48.1	48.1	48.1	28.7	48.1	48.1	28.7	48.1	48.1	48.1	48.1
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°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8
5°	296.0	296.0	286.8	286.8	296.0	296.0	296.0	296.0
15°	334.0	276.6	314.5	314.5	276.6	334.0	334.0	334.0
25°	563.4	496.8	439.5	439.5	496.8	563.4	592.1	572.6
35°	1164.7	1098.1	1059.2	1059.2	1098.1	1164.7	1346.0	1364.5
45°	1479.2	1527.4	1384.0	1384.0	1527.4	1479.2	1622.6	1708.7
55°	1976.0	1880.8	1766.0	1766.0	1880.8	1976.0	2051.9	2051.9
65°	3731.9	3302.6	3187.9	3187.9	3302.6	3731.9	3532.1	3760.5
75°	3360.0	3044.5	2940.0	2940.0	3044.5	3360.0	3408.1	3645.8
85°	763.2	706.8	649.5	649.5	706.8	763.2	763.2	802.1
95°	334.0	362.6	362.6	362.6	362.6	334.0	305.3	305.3
105°	200.8	210.0	210.0	210.0	210.0	200.8	190.5	190.5
115°	133.2	143.4	143.4	143.4	143.4	133.2	133.2	143.4
125°	104.5	114.7	114.7	114.7	114.7	104.5	114.7	124.0
135°	104.5	95.3	76.8	76.8	95.3	104.5	114.7	124.0
145°	48.1	48.1	48.1	48.1	48.1	48.1	48.1	86.0
155°	48.1	28.7	48.1	48.1	28.7	48.1	48.1	48.1
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)