

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: E366-60

Luminaire Tested: **UTR15SXX55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: E366-60
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTR15SXX55
Description: 150W HPS TYPE V TRADITIONAIRE POST TOP
Light Source: 150W HPS CL ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 10777.5 lumens
Efficiency: 67.4%
Efficacy: 57.3 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 - G3

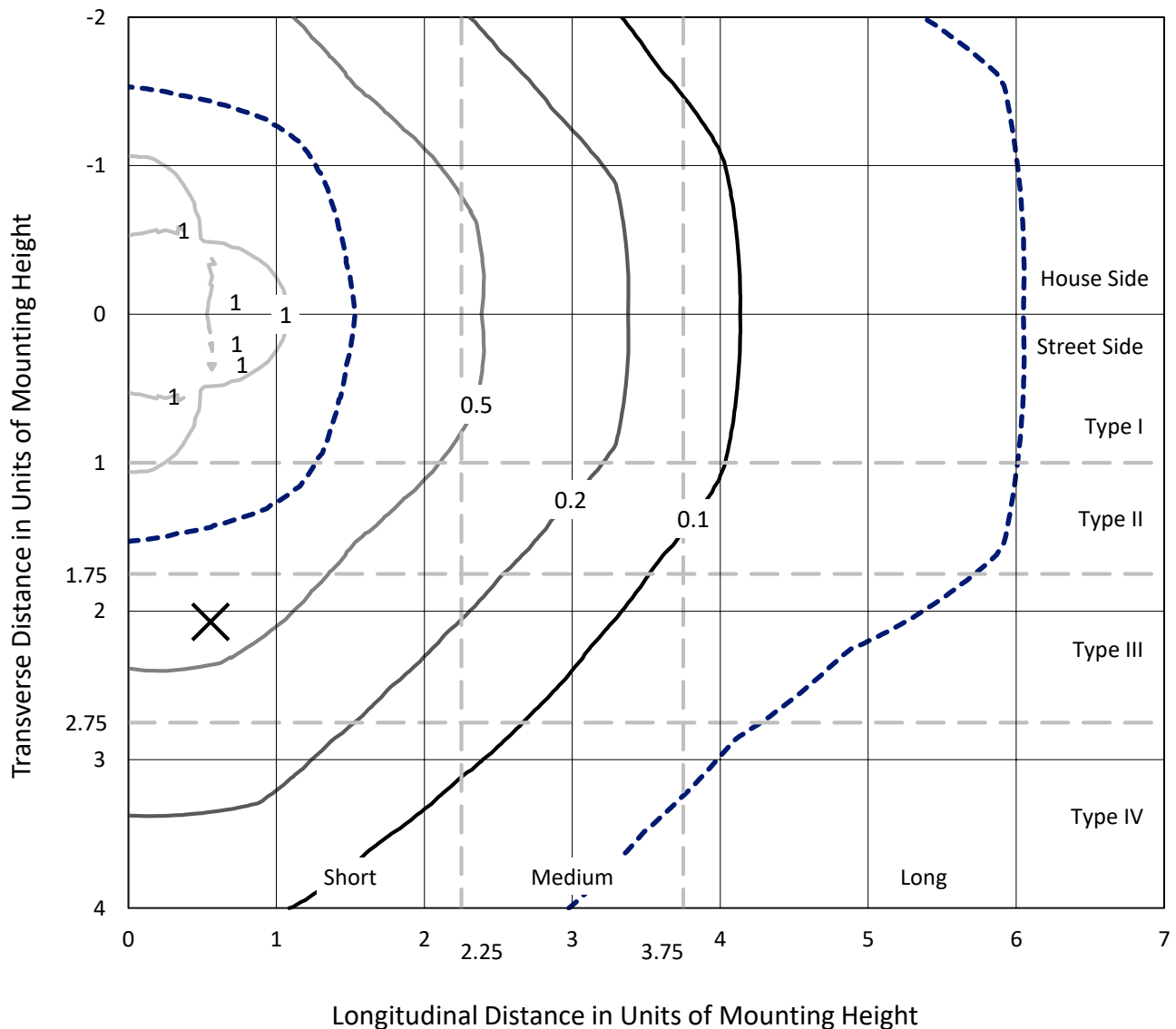
Input Watts (W): 188
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

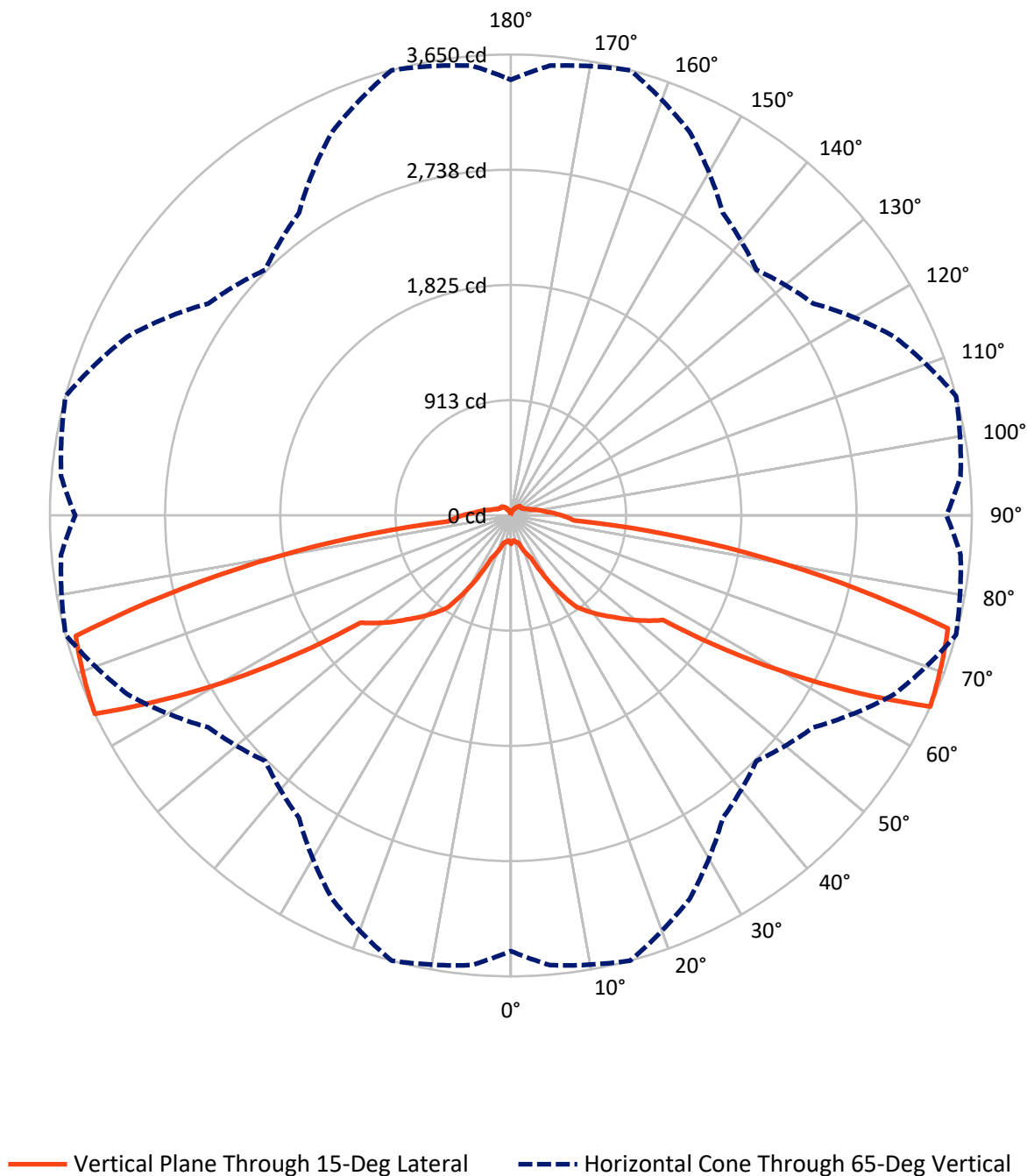
× Max cd
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.3 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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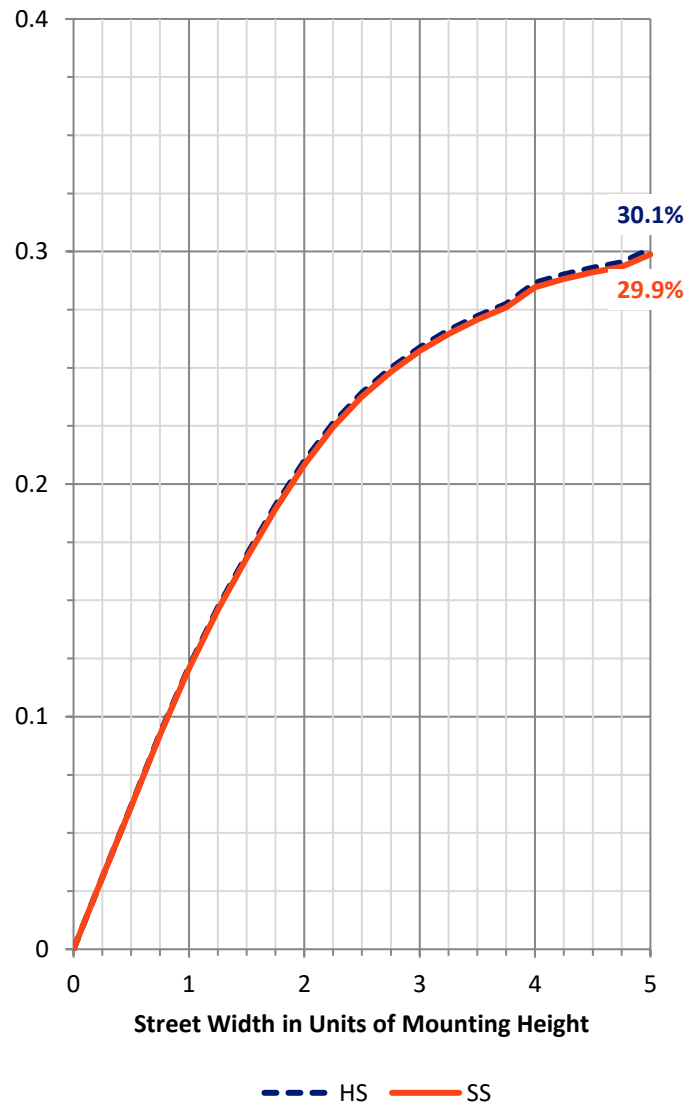
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4942.4	446.3	5388.7
	% Lamp	30.9	2.8	33.7
Street Side	Lumens	4942.4	446.3	5388.7
	% Lamp	30.9	2.8	33.7
Total	Lumens	9884.8	892.6	10777.5
	% Lamp	61.8	5.6	67.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	20.8	0.2	0.1
10°-20°	73.4	0.7	0.5
20°-30°	207.1	1.9	1.3
30°-40°	492.0	4.6	3.1
40°-50°	857.1	8.0	5.4
50°-60°	1612.9	15.0	10.1
60°-70°	2747.8	25.5	17.2
70°-80°	2629.0	24.4	16.4
80°-90°	1185.0	11.0	7.4
90°-100°	342.2	3.2	2.1
100°-110°	208.2	1.9	1.3
110°-120°	134.0	1.2	0.8
120°-130°	94.9	0.9	0.6
130°-140°	67.6	0.6	0.4
140°-150°	41.8	0.4	0.3
150°-160°	22.2	0.2	0.1
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	9884.8	91.7	61.8
0°-180°	10777.5	100.0	67.4

Coefficient of Utilization



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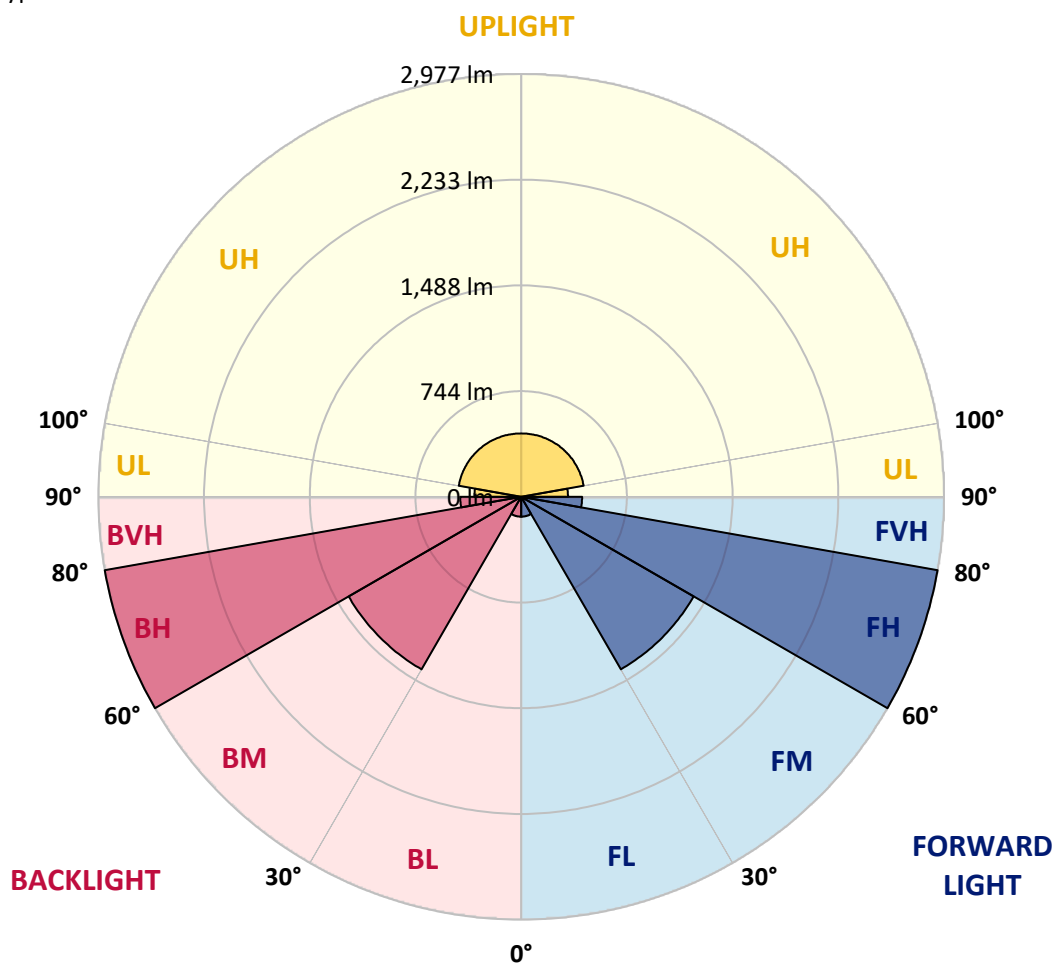
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.7	0.9			
FM	(30°-60°)	1402.6	8.8			
FH	(60°-80°)	2976.8	18.6			G2/5000
FVH	(80°-90°)	428.8	2.7			G3/500
BL	(0°-30°)	139.7	0.9	B1/500		
BM	(30°-60°)	1402.6	8.8	B2/2500		
BH	(60°-80°)	2976.8	18.6	B4/5000		G2/5000
BVH	(80°-90°)	428.8	2.7			G3/500
UL	(90°-100°)	329.7	2.1		U3/500	
UH	(100°-180°)	446.3	2.8		U3/500	
Trapped Light		5222.5	32.6			

BUG Rating: B4-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	225	225	225	225	225	225	225	225	225	225	225
5°	225	213	200	208	220	225	220	208	200	213	225
15°	250	237	225	225	233	240	233	225	225	237	250
25°	425	412	375	337	325	325	325	337	375	412	425
35°	1000	975	887	800	750	725	750	800	887	975	1000
45°	1200	1213	1150	1075	1012	950	1012	1075	1150	1213	1200
55°	1450	1463	1463	1400	1325	1300	1325	1400	1463	1463	1450
65°	3450	3575	3650	3350	2925	2750	2925	3350	3650	3575	3450
75°	3500	3525	3575	2875	2600	2550	2600	2875	3575	3525	3500
85°	500	500	500	487	475	475	475	487	500	500	500
95°	275	280	285	293	300	300	300	293	285	280	275
105°	175	175	170	180	203	210	203	180	170	175	175
115°	110	118	120	120	138	150	138	120	120	118	110
125°	95	100	100	100	105	110	105	100	100	100	95
135°	95	98	100	98	85	75	85	98	100	98	95
145°	75	75	75	60	50	35	50	60	75	75	75
155°	50	50	50	50	50	50	50	50	50	50	50
180°	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°	225	225	225	225	225	225	225	225	225	225
5°	213	200	208	220	225	220	208	200	213	225
15°	237	225	225	233	240	233	225	225	237	250
25°	412	375	337	325	325	325	337	375	412	425
35°	975	887	800	750	725	750	800	887	975	1000
45°	1213	1150	1075	1012	950	1012	1075	1150	1213	1200
55°	1463	1463	1400	1325	1300	1325	1400	1463	1463	1450
65°	3575	3650	3350	2925	2750	2925	3350	3650	3575	3450
75°	3525	3575	2875	2600	2550	2600	2875	3575	3525	3500
85°	500	500	487	475	475	475	487	500	500	500
95°	280	285	293	300	300	300	293	285	280	275
105°	175	170	180	203	210	203	180	170	175	175
115°	118	120	120	138	150	138	120	120	118	110
125°	100	100	100	105	110	105	100	100	100	95
135°	98	100	98	85	75	85	98	100	98	95
145°	75	75	60	50	35	50	60	75	75	75
155°	50	50	50	50	50	50	50	50	50	50
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)