

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: 11319

Luminaire Tested: **TFX15EIMTXX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 11319
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TFX15EIMTXX
Description: 150W INDUCTION TUNNEL FIXTURE
Light Source: 150 WATT INDUCTION ICETRON LAMP
Ballast/Driver: -

Summary

Lumens per Lamp: 12000 (1 lamp)
Luminaire Lumens: 9090.1 lumens
Efficiency: 75.8%
Efficacy: 57.9 lumens/watt
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

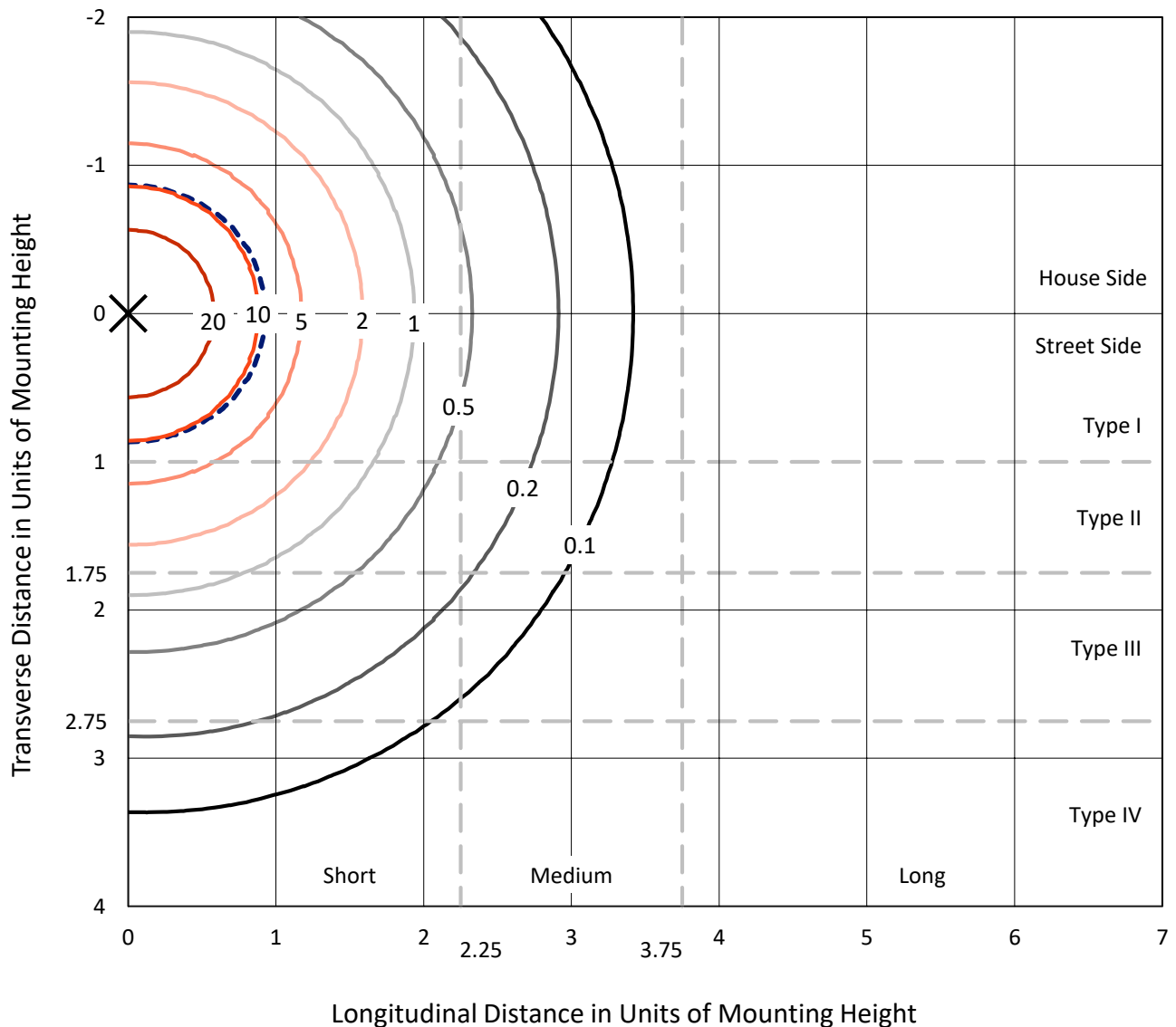
Input Watts (W): 157
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

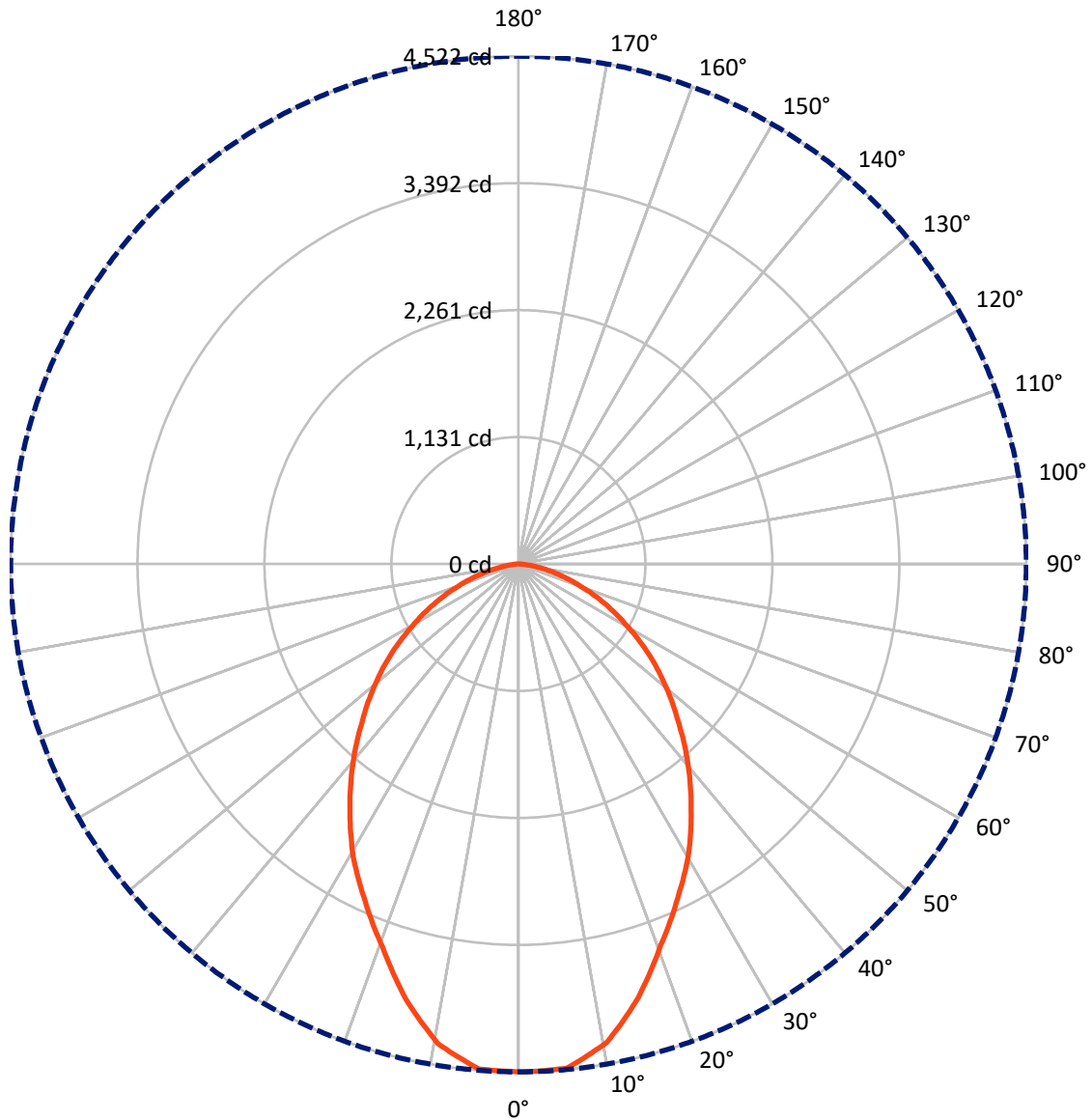
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 45.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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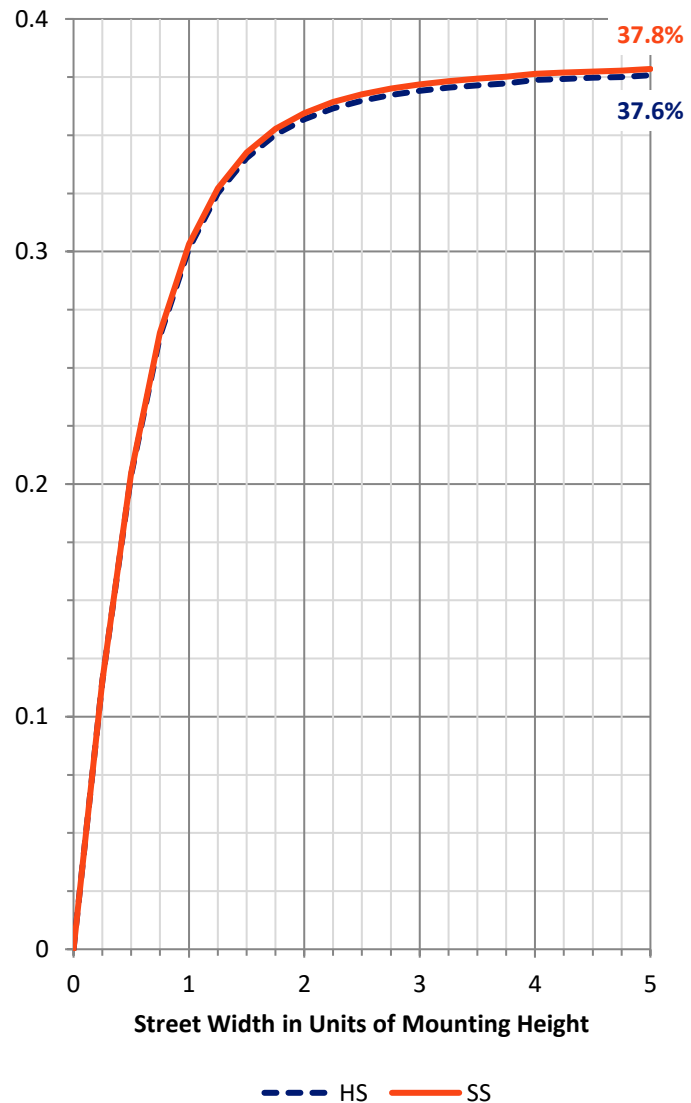
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4545.1	0.0	4545.1
	% Lamp	37.9	0.0	37.9
Street Side	Lumens	4545.1	0.0	4545.1
	% Lamp	37.9	0.0	37.9
Total	Lumens	9090.1	0.0	9090.1
	% Lamp	75.8	0.0	75.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	423.4	4.7	3.5
10°-20°	1139.9	12.5	9.5
20°-30°	1553.6	17.1	12.9
30°-40°	1700.7	18.7	14.2
40°-50°	1597.1	17.6	13.3
50°-60°	1300.9	14.3	10.8
60°-70°	880.9	9.7	7.3
70°-80°	418.0	4.6	3.5
80°-90°	75.6	0.8	0.6
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
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°	9090.1	100.0	75.8
0°-180°	9090.1	100.0	75.8

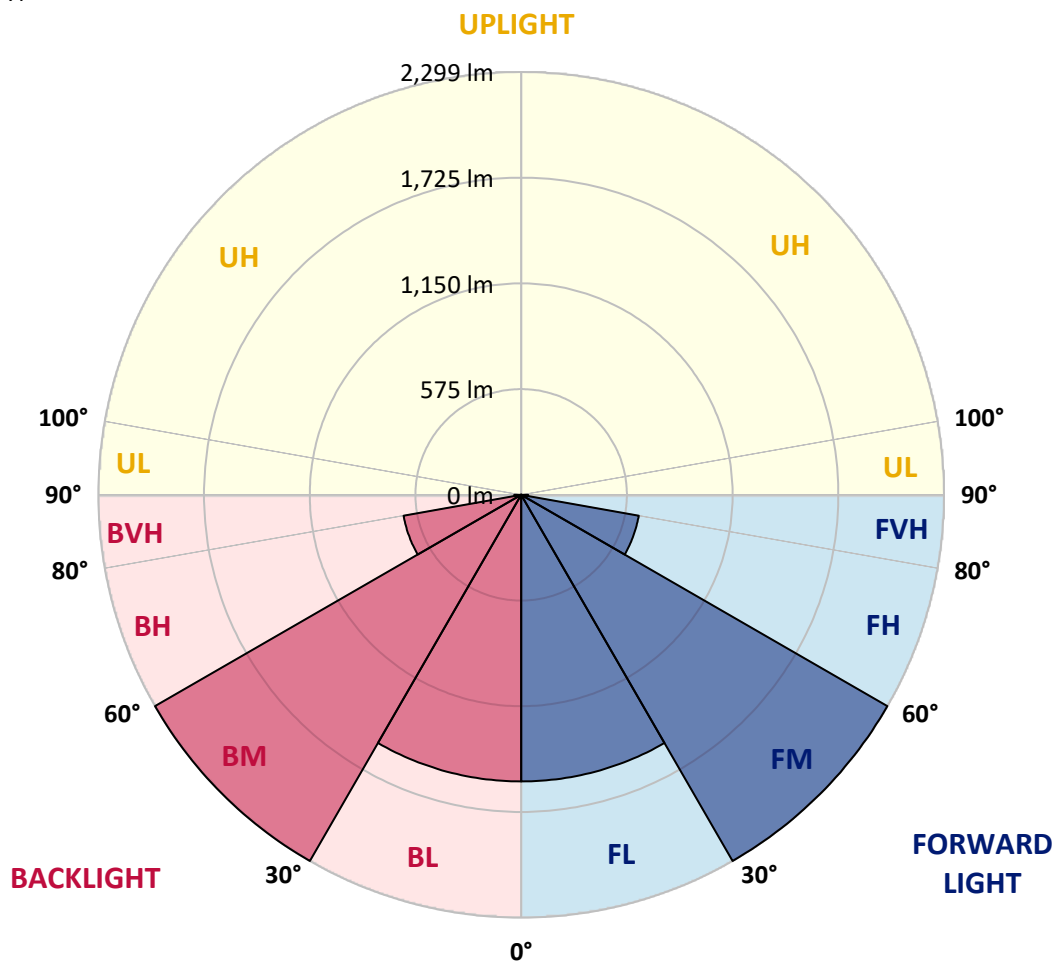


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1558.4	13.0			
FM	(30°-60°)	2299.4	19.2			
FH	(60°-80°)	649.5	5.4			G0/660
FVH	(80°-90°)	37.8	0.3			G1/100
BL	(0°-30°)	1558.4	13.0	B3/2500		
BM	(30°-60°)	2299.4	19.2	B2/2500		
BH	(60°-80°)	649.5	5.4	B2/1000		G0/660
BVH	(80°-90°)	37.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		2909.9	24.2			

BUG Rating: B3-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4522	4522	4522	4522	4522
5°	4510	4491	4486	4472	4464
10°	4331	4321	4353	4354	4347
15°	4002	4036	4085	4099	4106
20°	3621	3681	3729	3732	3766
25°	3294	3341	3379	3400	3421
30°	2988	3006	3046	3073	3092
35°	2648	2685	2715	2771	2779
40°	2321	2336	2388	2439	2445
45°	1992	2015	2093	2107	2129
50°	1693	1706	1777	1785	1790
55°	1401	1430	1466	1480	1475
60°	1103	1131	1188	1180	1171
65°	840	874	911	897	904
70°	580	618	639	635	635
75°	365	383	404	393	385
80°	175	183	190	184	177
85°	50	48	48	46	44
90°	0	0	0	0	0

(END OF REPORT)