

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P836500

Luminaire Tested: **ARCH3-190-750-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25900 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

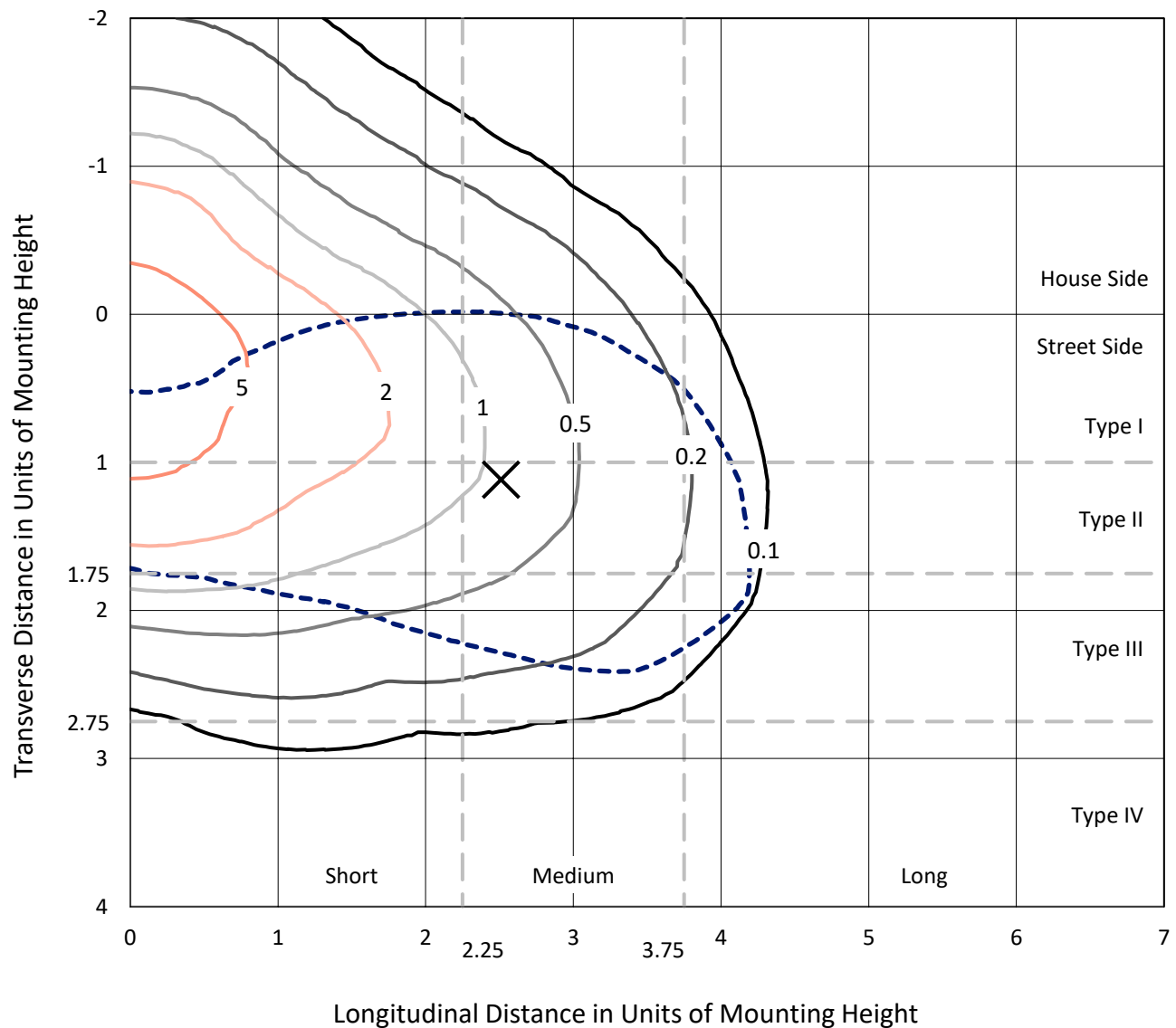
Input Watts (W): 189.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

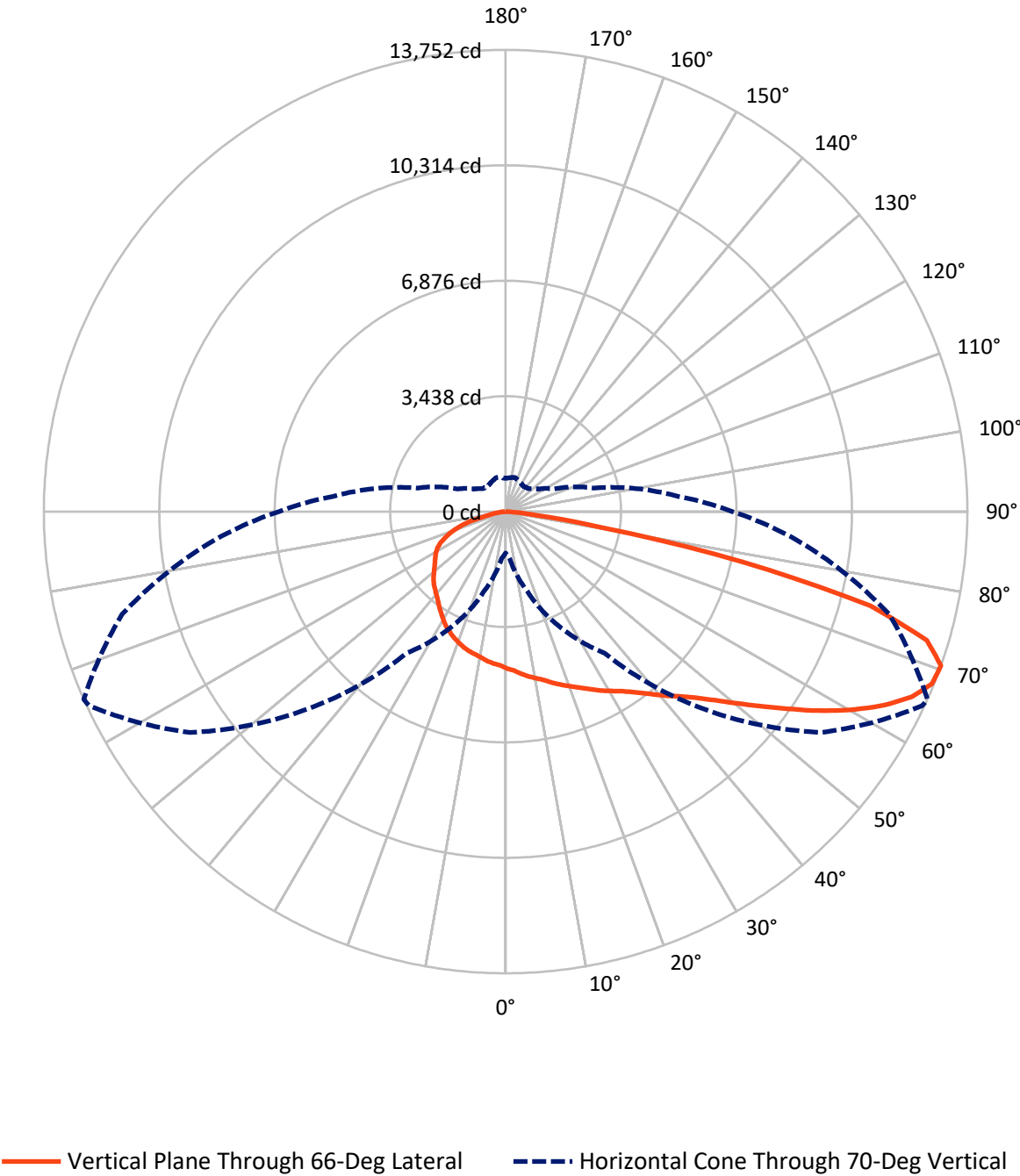
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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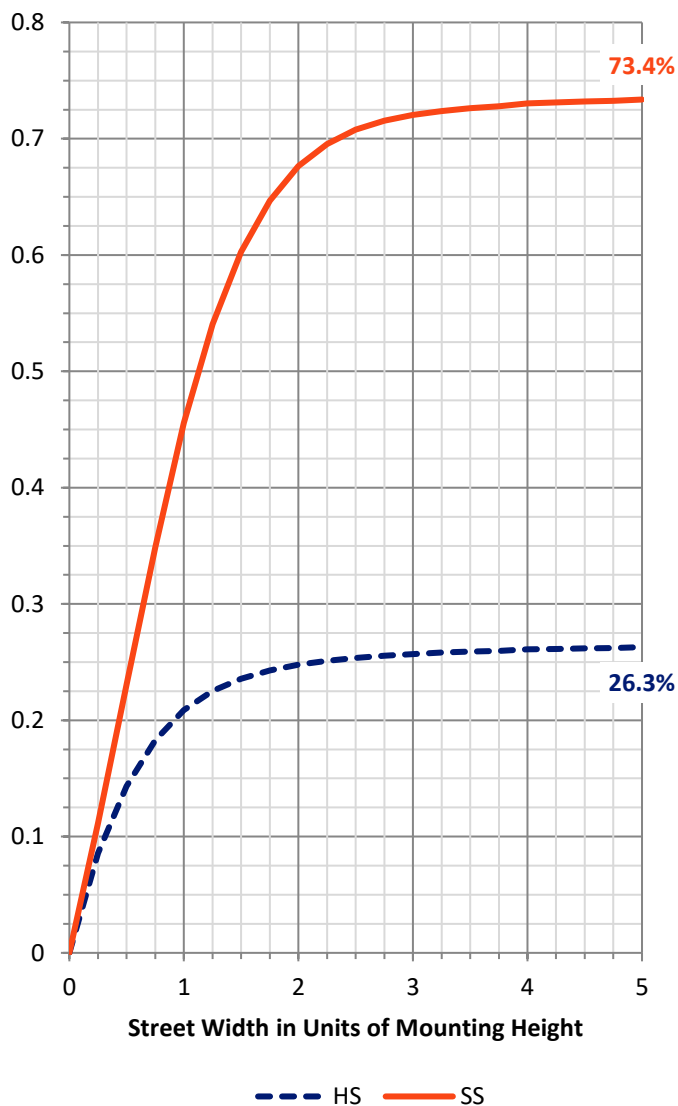
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6862.9	0.0	6862.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	19037.1	0.0	19037.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	25900.0	0.0	25900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.2	1.7
10°-20°	1347.3	5.2
20°-30°	2258.5	8.7
30°-40°	3381.8	13.1
40°-50°	4521.4	17.5
50°-60°	5278.9	20.4
60°-70°	5249.1	20.3
70°-80°	3107.5	12.0
80°-90°	306.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25900.0	100.0
0°-180°	25900.0	100.0

Coefficient of Utilization



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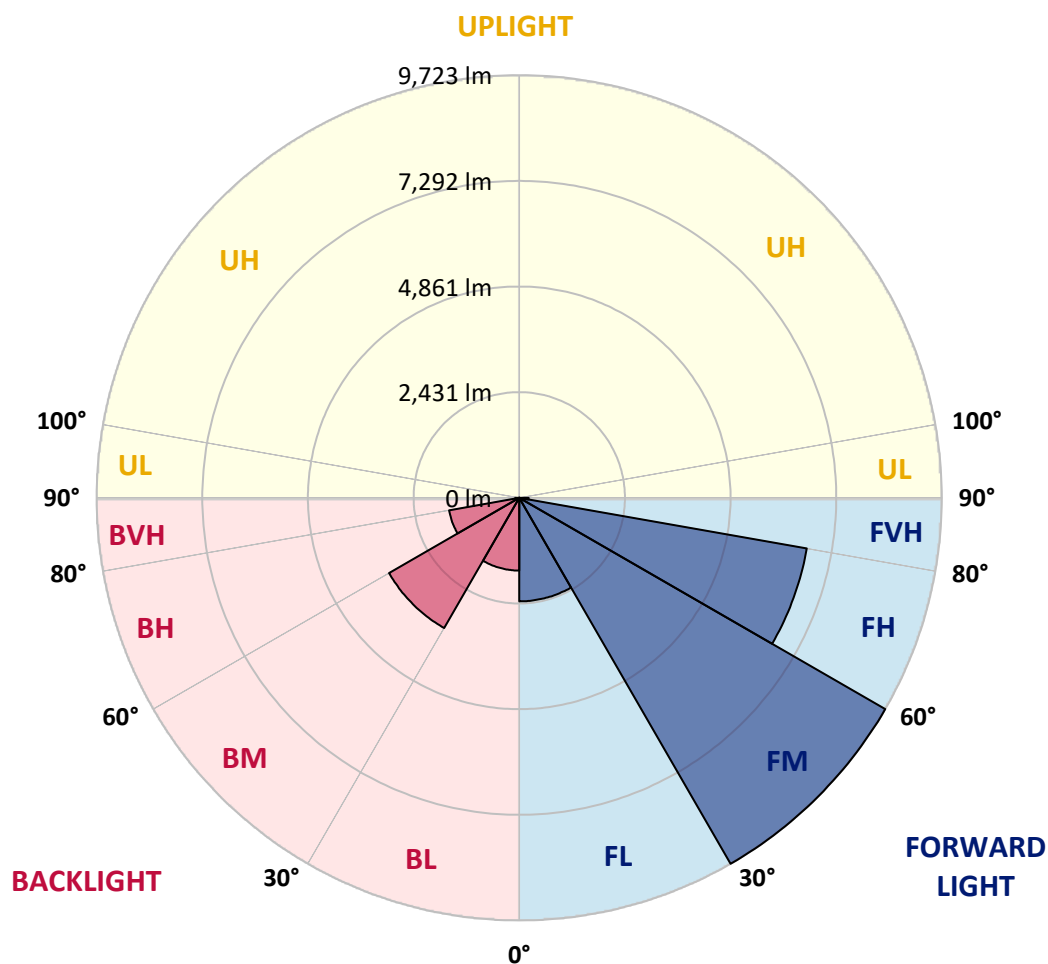
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2382.1	9.2			
FM	(30°-60°)	9722.5	37.5			
FH	(60°-80°)	6717.2	25.9			G3/7500
FVH	(80°-90°)	215.3	0.8			G2/225
BL	(0°-30°)	1672.9	6.5	B3/2500		
BM	(30°-60°)	3459.6	13.4	B3/5000		
BH	(60°-80°)	1639.4	6.3	B3/2500		G3/2500
BVH	(80°-90°)	91.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4
2.5°	4846.2	4838.6	4834.8	4819.5	4785.1	4800.4	4766.0	4743.1	4739.3	4685.8	4655.3
5°	5044.8	5041.0	5033.3	5010.4	4957.0	4964.6	4907.3	4865.3	4853.8	4769.8	4704.9
7.5°	5212.8	5205.2	5201.4	5170.8	5113.5	5109.7	5041.0	4979.9	4960.8	4846.2	4746.9
10°	5342.7	5331.2	5338.9	5308.3	5247.2	5235.7	5147.9	5067.7	5048.6	4903.5	4766.0
12.5°	5453.4	5445.8	5457.2	5430.5	5380.9	5369.4	5281.6	5178.5	5155.5	4987.5	4808.0
15°	5575.6	5548.9	5571.8	5560.4	5526.0	5522.2	5442.0	5327.4	5296.8	5094.4	4872.9
17.5°	5640.5	5625.3	5652.0	5655.8	5640.5	5667.3	5590.9	5453.4	5426.7	5193.7	4930.2
20°	5686.4	5663.5	5694.0	5716.9	5728.4	5781.8	5720.7	5587.1	5556.5	5289.2	4983.7
22.5°	5843.0	5793.3	5797.1	5812.4	5820.0	5896.4	5858.2	5728.4	5697.8	5407.6	5048.6
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4	4674.4
2.5°	4647.6	4636.2	4640.0	4575.1	4556.0	4536.9	4525.4	4517.8	4510.1	4521.6	4533.1
5°	4682.0	4655.3	4624.7	4529.2	4491.1	4449.0	4418.5	4391.8	4380.3	4380.3	4391.8
7.5°	4708.7	4662.9	4598.0	4472.0	4403.2	4345.9	4296.3	4261.9	4242.8	4242.8	4254.3
10°	4712.5	4647.6	4544.5	4391.8	4300.1	4216.1	4158.8	4120.6	4093.9	4093.9	4101.5
12.5°	4735.5	4647.6	4514.0	4330.7	4216.1	4113.0	4044.2	3987.0	3975.5	3975.5	3983.1
15°	4773.7	4666.7	4494.9	4277.2	4139.7	4021.3	3944.9	3883.8	3860.9	3876.2	3880.0
17.5°	4808.0	4678.2	4460.5	4208.5	4044.2	3914.4	3830.4	3776.9	3746.4	3780.7	3780.7
20°	4830.9	4678.2	4410.9	4120.6	3941.1	3796.0	3715.8	3650.9	3628.0	3670.0	3673.8
22.5°	4865.3	4674.4	4357.4	4032.8	3830.4	3677.6	3597.4	3547.8	3536.3	3582.1	3597.4