

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: P459566

Luminaire Tested: **ARCH-M-PA2-60-AMB-U-5WQ**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-M-PA2-60-AMB-U-5WQ  
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE  
(2) NARROW BAND AMBER, 500mA LIGHT ENGINES WITH 24 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2697 lumens  
Efficiency: N/A  
Efficacy: 44.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 60.6  
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

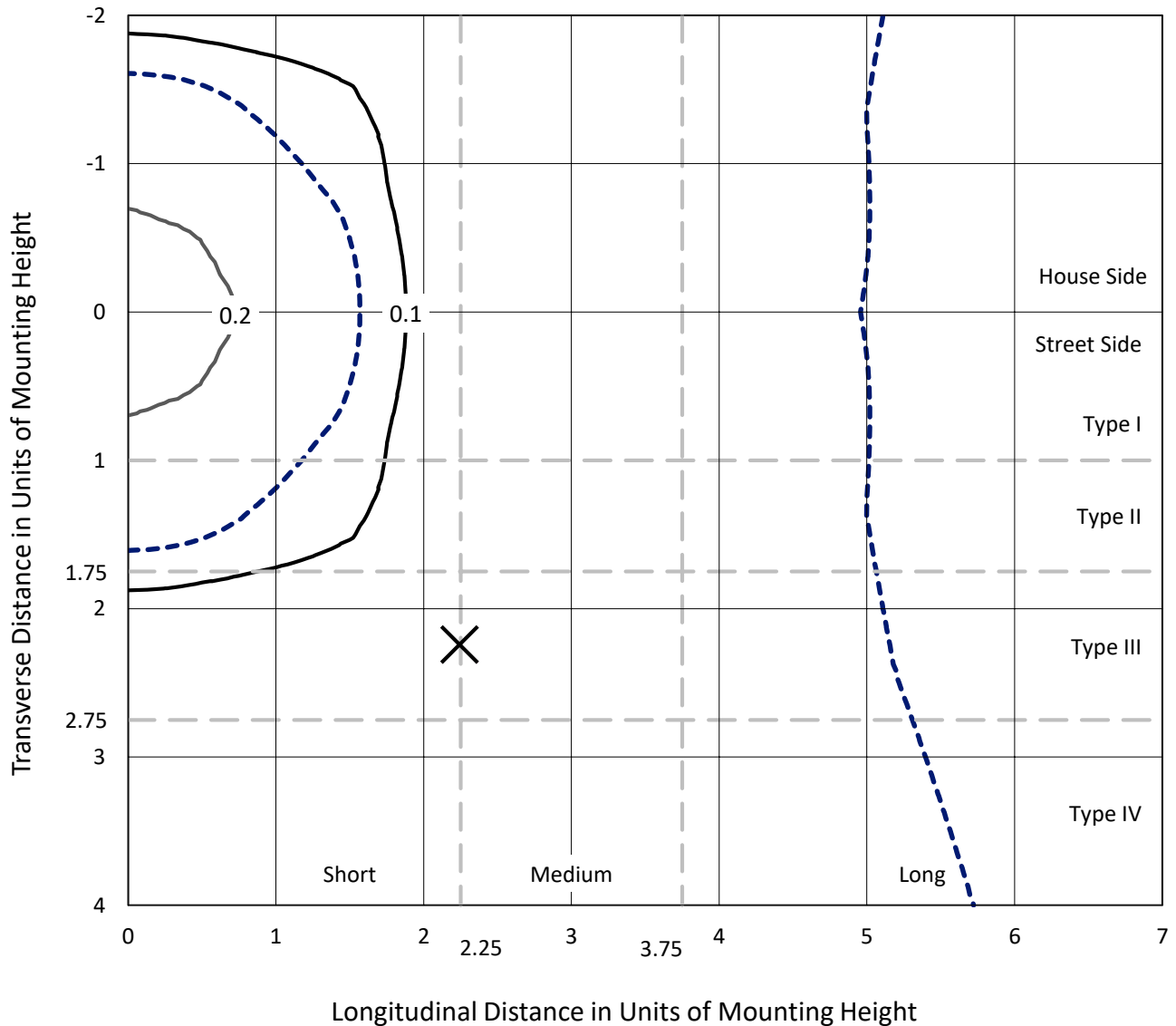


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

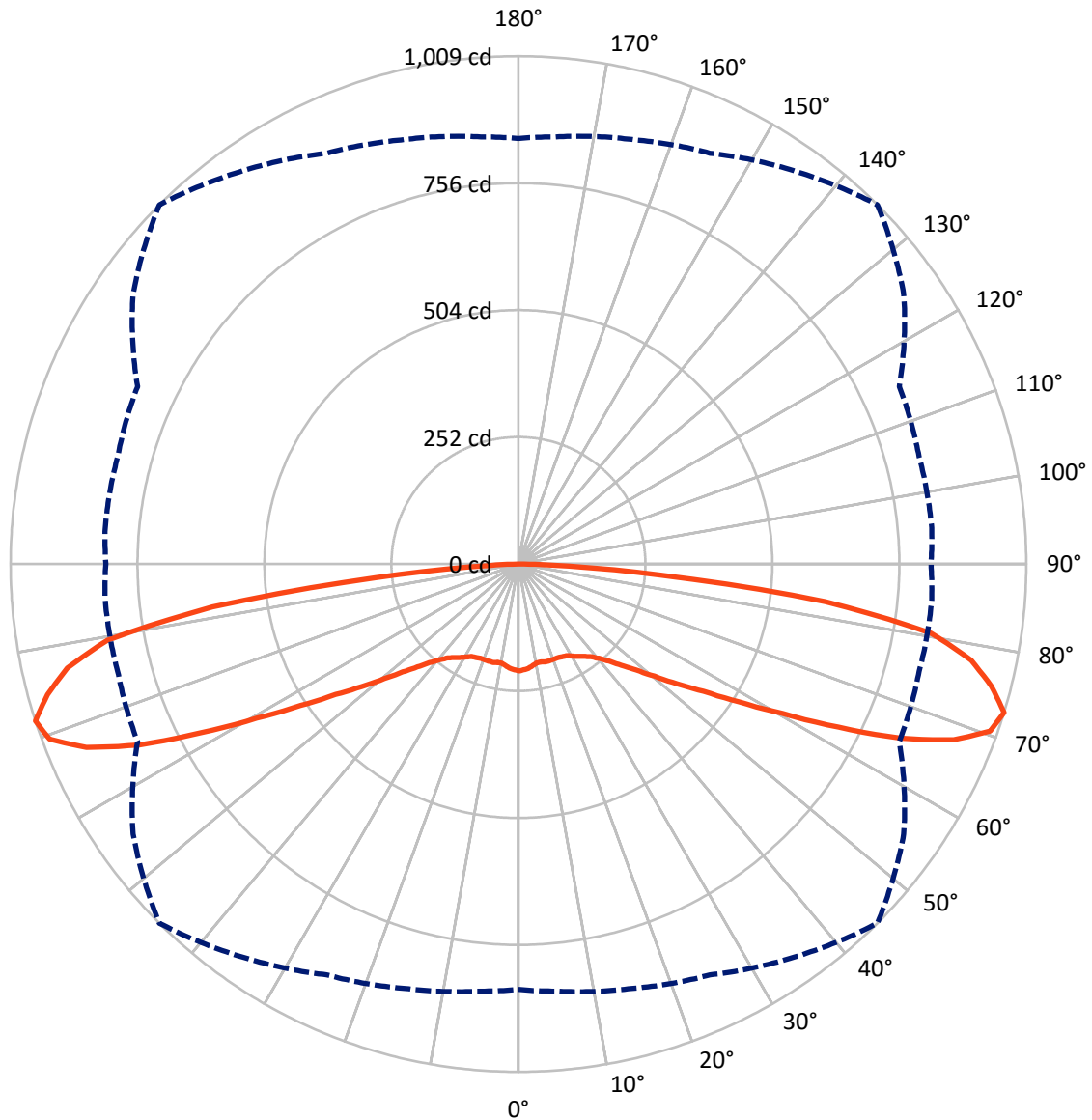


Based on 25 foot mounting height. Maximum calculated value = 0.3 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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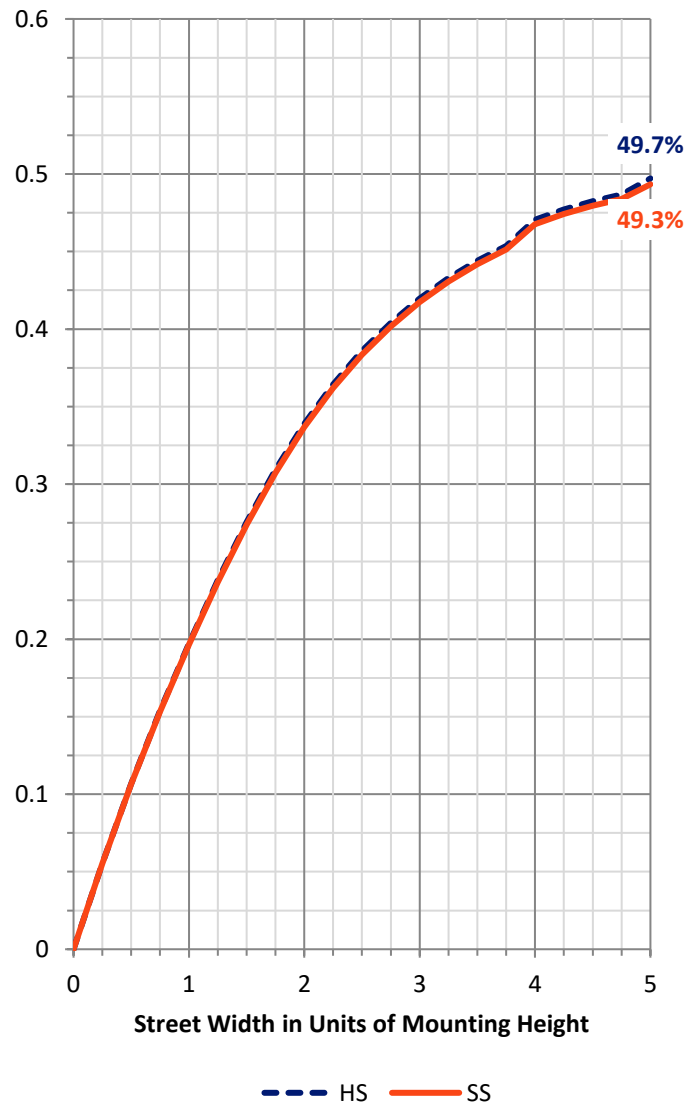
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1348.5	0.0	1348.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1348.5	0.0	1348.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2697.0	0.0	2697.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.7	0.7
10°-20°	57.3	2.1
20°-30°	95.0	3.5
30°-40°	142.1	5.3
40°-50°	228.7	8.5
50°-60°	404.3	15.0
60°-70°	721.1	26.7
70°-80°	850.6	31.5
80°-90°	178.2	6.6
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°	2697.0	100.0
0°-180°	2697.0	100.0



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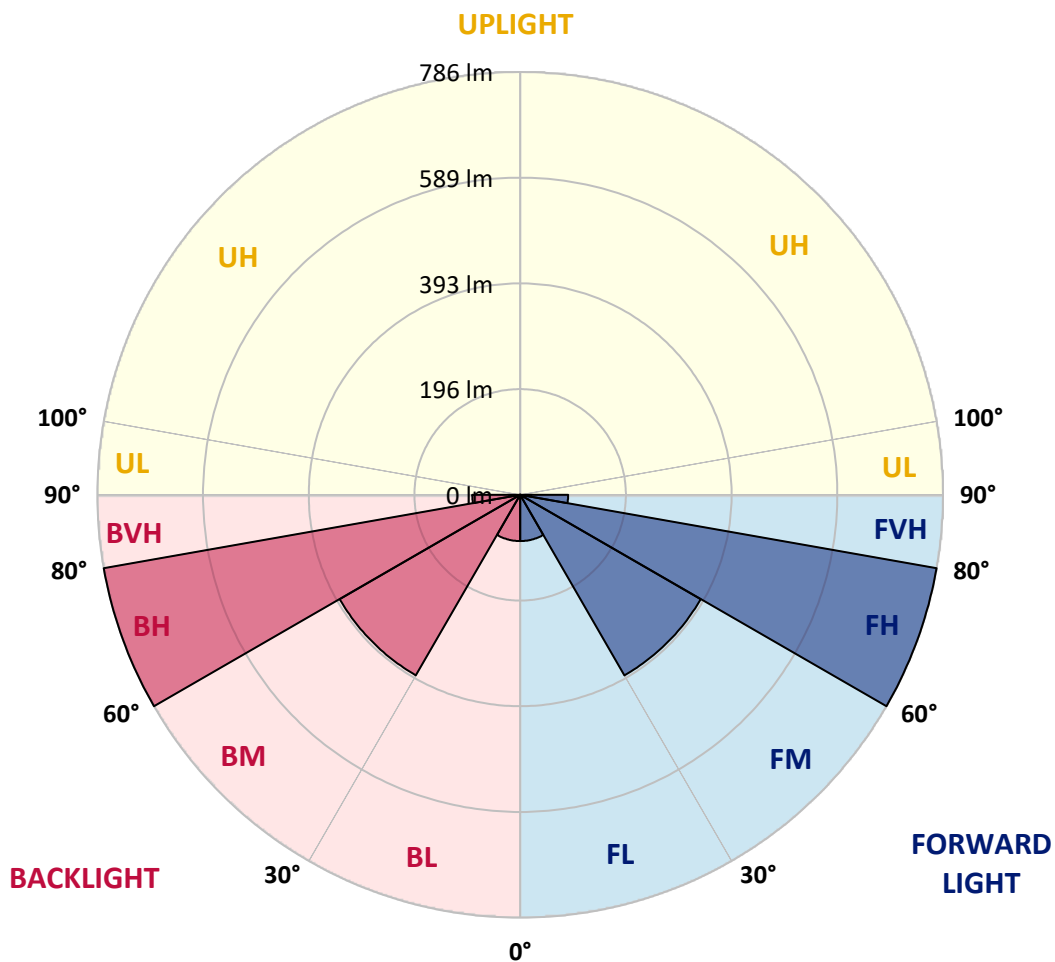
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	86.0	3.2			
FM (30°-60°)	387.5	14.4			
FH (60°-80°)	785.8	29.1			G1/1800
FVH (80°-90°)	89.1	3.3			G1/100
BL (0°-30°)	86.0	3.2	B0/110		
BM (30°-60°)	387.5	14.4	B1/1000		
BH (60°-80°)	785.8	29.1	B2/1000		G1/1800
BVH (80°-90°)	89.1	3.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3	212.3
2.5°	212.3	212.3	212.3	212.3	210.2	210.2	210.2	210.2	210.2	210.2	210.2
5°	212.3	212.3	212.3	210.2	210.2	208.1	208.1	208.1	208.1	208.1	208.1
7.5°	208.1	208.1	205.9	203.8	203.8	203.8	203.8	203.8	203.8	203.8	203.8
10°	205.9	205.9	203.8	201.7	199.6	199.6	199.6	201.7	201.7	203.8	203.8
12.5°	205.9	205.9	201.7	199.6	199.6	199.6	199.6	199.6	201.7	205.9	205.9
15°	205.9	205.9	201.7	199.6	199.6	201.7	199.6	199.6	201.7	205.9	205.9
17.5°	205.9	205.9	201.7	199.6	201.7	201.7	201.7	201.7	203.8	208.1	208.1
20°	205.9	205.9	201.7	199.6	201.7	201.7	201.7	201.7	203.8	208.1	208.1
22.5°	205.9	205.9	201.7	199.6	201.7	201.7	201.7	201.7	203.8	208.1	210.2
25°	205.9	205.9	201.7	201.7	201.7	203.8	203.8	203.8	205.9	210.2	210.2
27.5°	208.1	205.9	203.8	203.8	205.9	205.9	205.9	205.9	205.9	212.3	212.3
30°	212.3	210.2	208.1	208.1	208.1	212.3	208.1	208.1	210.2	216.6	218.7
32.5°	216.6	214.4	212.3	212.3	214.4	218.7	212.3	212.3	216.6	222.9	225.1
35°	225.1	222.9	220.8	218.7	222.9	225.1	220.8	220.8	225.1	231.4	233.5
37.5°	237.8	235.7	233.5	229.3	233.5	233.5	233.5	231.4	235.7	242.0	244.2
40°	254.8	252.7	248.4	244.2	246.3	246.3	244.2	244.2	250.5	254.8	256.9
42.5°	271.8	271.8	265.4	265.4	263.3	263.3	261.1	261.1	267.5	276.0	276.0
45°	297.2	295.1	288.7	286.6	284.5	286.6	286.6	284.5	295.1	303.6	305.7
47.5°	324.8	320.6	316.3	312.1	312.1	314.2	314.2	316.3	324.8	335.5	337.6
50°	356.7	354.6	348.2	346.1	346.1	350.3	352.4	350.3	358.8	369.4	371.6
52.5°	392.8	390.7	386.4	384.3	386.4	394.9	394.9	390.7	397.0	405.5	405.5
55°	435.2	435.2	431.0	431.0	439.5	445.9	448.0	437.4	443.7	450.1	450.1
57.5°	488.3	488.3	486.2	488.3	505.3	515.9	513.8	496.8	501.1	503.2	505.3
60°	549.9	549.9	552.0	560.5	586.0	603.0	594.5	566.9	560.5	558.4	558.4
62.5°	615.7	615.7	622.1	643.3	679.4	713.4	690.0	643.3	624.2	615.7	615.7
65°	677.3	675.2	692.1	721.9	779.2	834.4	794.1	719.7	690.0	679.4	679.4
67.5°	738.9	736.7	760.1	798.3	864.1	932.1	883.2	781.3	743.1	730.4	726.1
70°	800.4	800.4	821.7	859.9	925.7	993.6	936.3	817.4	783.4	772.8	770.7
72.5°	845.0	851.4	872.6	900.2	953.3	1008.5	934.2	834.4	823.8	823.8	819.5
75°	817.4	828.0	849.3	893.8	940.6	970.3	913.0	836.5	830.2	842.9	842.9
77.5°	630.6	645.4	685.8	774.9	874.7	919.3	866.2	762.2	692.1	677.3	647.6
80°	299.4	320.6	377.9	501.1	715.5	830.2	709.1	513.8	388.5	333.3	318.5
82.5°	82.8	99.8	140.1	225.1	416.1	613.6	433.1	231.4	140.1	106.2	93.4
85°	23.4	23.4	44.6	74.3	144.4	282.4	169.9	80.7	55.2	38.2	38.2
87.5°	10.6	10.6	19.1	21.2	34.0	55.2	40.3	27.6	27.6	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)