

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: P230985

Luminaire Tested: **ARCH-M-AF48-50-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-M-AF48-50-D-U-5WQ-7050
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 305mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6920 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 48
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

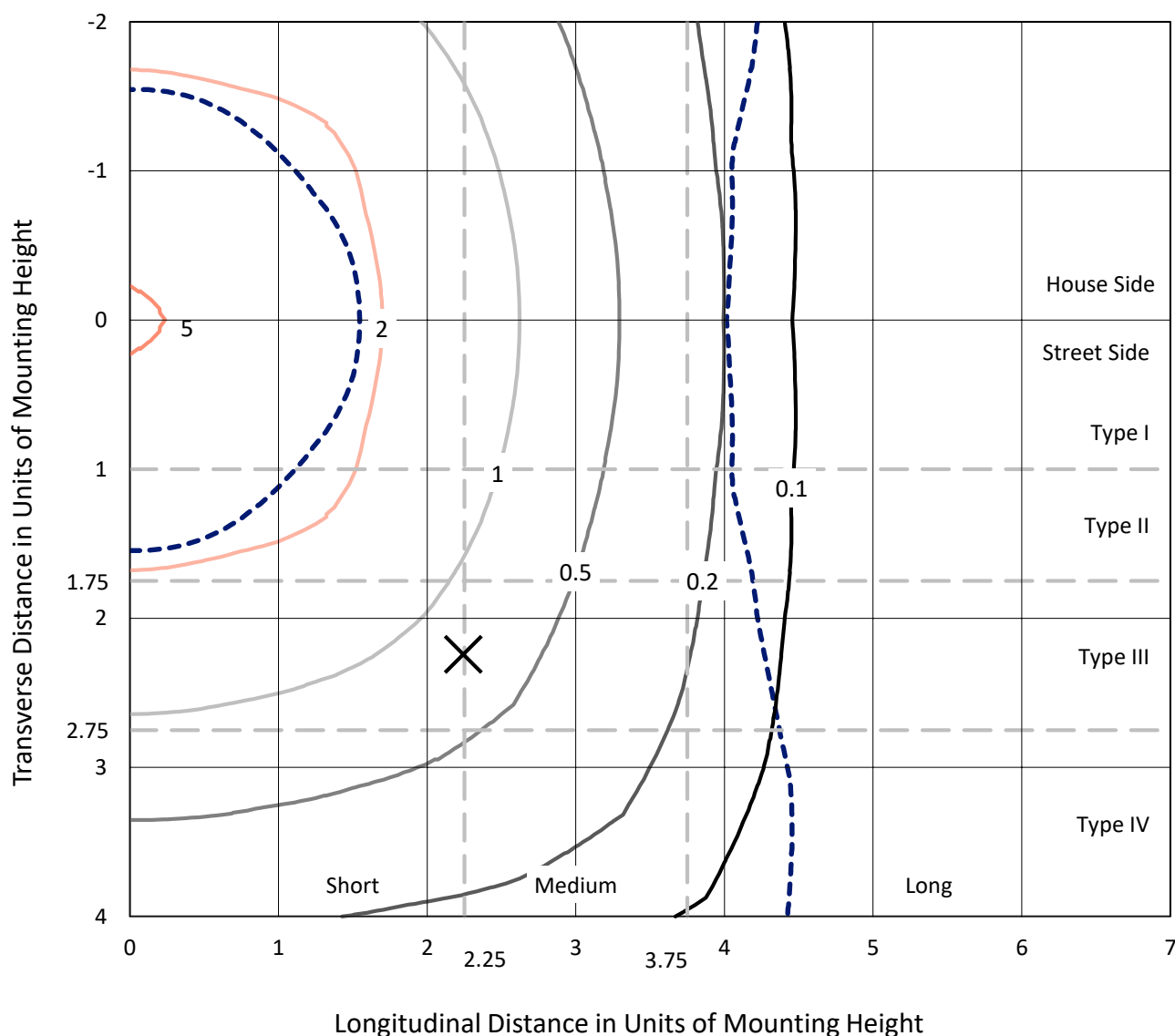


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

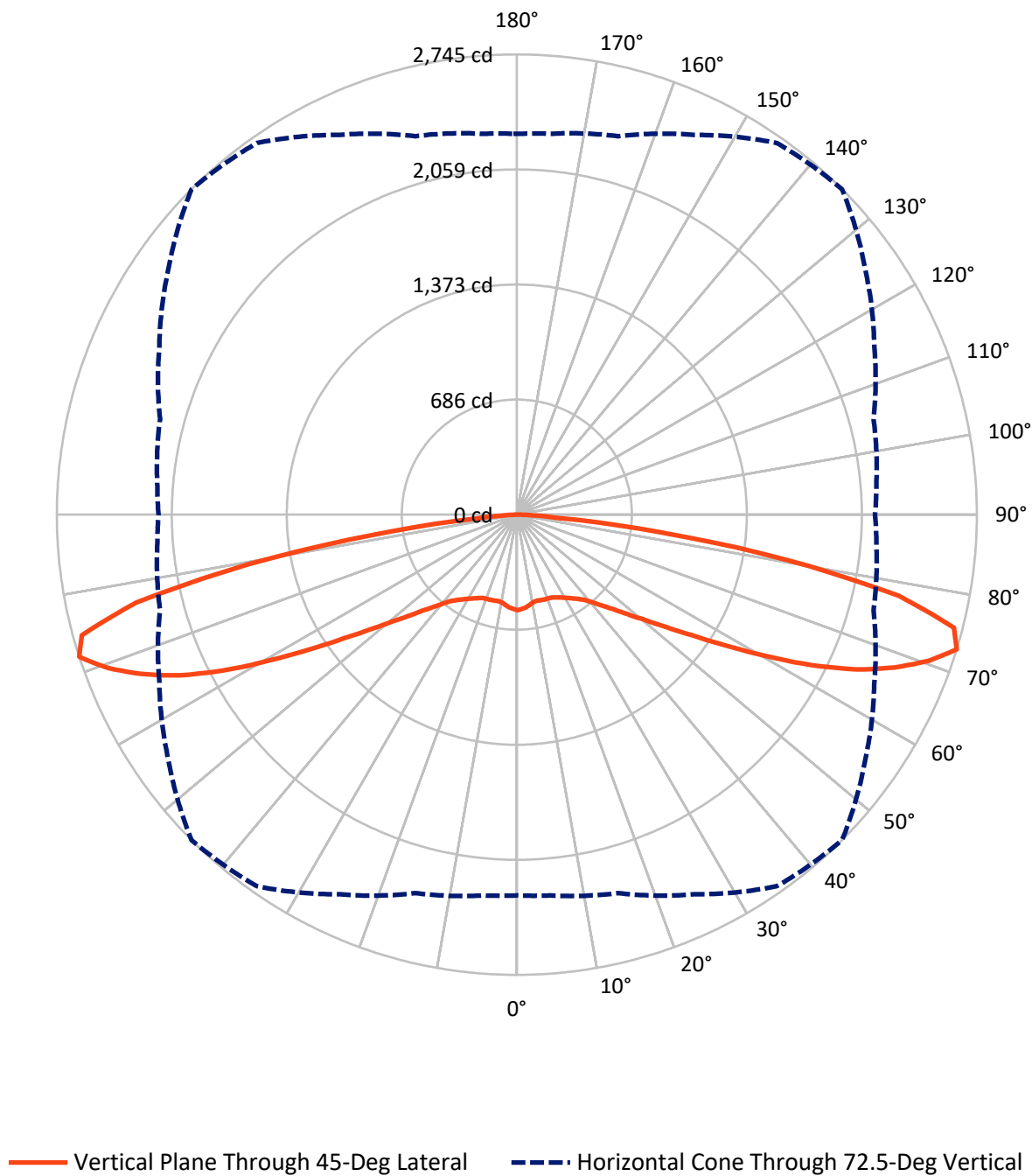


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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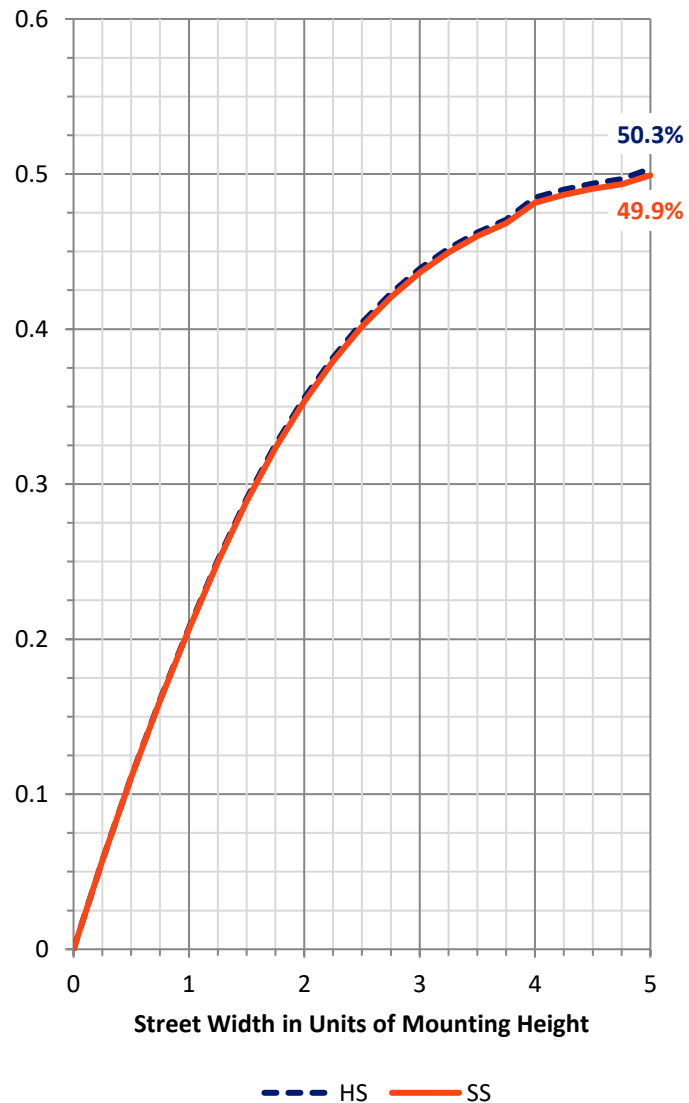
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3460.0	0.0	3460.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3460.0	0.0	3460.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6920.0	0.0	6920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	0.8
10°-20°	151.4	2.2
20°-30°	253.4	3.7
30°-40°	389.4	5.6
40°-50°	644.7	9.3
50°-60°	1146.1	16.6
60°-70°	2005.1	29.0
70°-80°	2040.0	29.5
80°-90°	237.5	3.4
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°	6920.0	100.0
0°-180°	6920.0	100.0

Coefficient of Utilization



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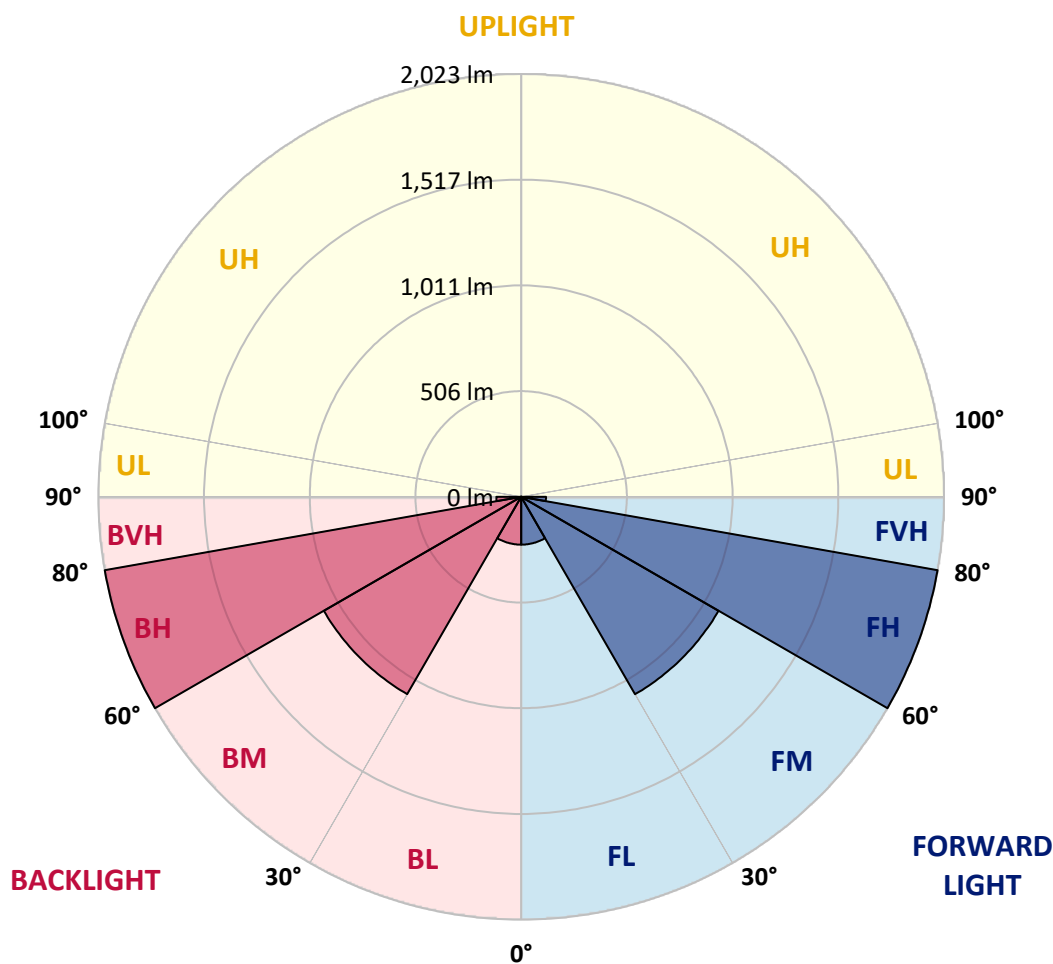
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.7	3.3			
FM	(30°-60°)	1090.1	15.8			
FH	(60°-80°)	2022.5	29.2			G2/5000
FVH	(80°-90°)	118.8	1.7			G2/225
BL	(0°-30°)	228.7	3.3	B1/500		
BM	(30°-60°)	1090.1	15.8	B2/2500		
BH	(60°-80°)	2022.5	29.2	B3/2500		G2/5000
BVH	(80°-90°)	118.8	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	570.4	570.4	570.4	570.4	570.4	570.4	570.4	570.4	570.4	570.4	570.4
2.5°	565.1	566.4	563.8	563.8	563.8	562.5	563.8	562.5	563.8	565.1	565.1
5°	559.8	559.8	557.2	557.2	557.2	555.9	557.2	557.2	558.5	559.8	559.8
7.5°	548.0	548.0	546.7	545.3	544.0	544.0	545.3	545.3	546.7	548.0	548.0
10°	541.4	540.1	537.4	533.5	532.2	530.9	533.5	536.1	540.1	544.0	542.7
12.5°	538.8	537.4	532.2	528.2	525.6	526.9	529.5	532.2	538.8	542.7	541.4
15°	541.4	538.8	532.2	525.6	526.9	529.5	532.2	532.2	540.1	544.0	544.0
17.5°	541.4	540.1	532.2	526.9	528.2	532.2	533.5	532.2	538.8	545.3	545.3
20°	542.7	542.7	532.2	528.2	529.5	533.5	534.8	533.5	538.8	546.7	546.7
22.5°	545.3	544.0	533.5	530.9	533.5	536.1	537.4	536.1	541.4	548.0	549.3
25°	550.6	548.0	538.8	537.4	542.7	546.7	546.7	544.0	546.7	553.2	553.2
27.5°	557.2	555.9	545.3	545.3	551.9	559.8	555.9	550.6	553.2	559.8	559.8
30°	569.1	567.7	557.2	557.2	566.4	575.6	566.4	559.8	563.8	570.4	571.7
32.5°	586.2	586.2	577.0	574.3	590.1	594.1	590.1	577.0	579.6	588.8	588.8
35°	615.2	612.5	603.3	602.0	617.8	616.5	615.2	603.3	605.9	616.5	616.5
37.5°	653.4	652.0	644.1	640.2	648.1	642.8	645.5	640.2	646.8	654.7	656.0
40°	702.1	700.8	694.2	688.9	691.6	683.7	686.3	688.9	695.5	700.8	702.1
42.5°	762.7	762.7	756.1	746.9	742.9	739.0	739.0	744.2	750.8	757.4	757.4
45°	837.8	837.8	829.9	820.6	808.8	802.2	804.8	810.1	818.0	825.9	828.5
47.5°	926.0	926.0	915.5	906.3	894.4	886.5	886.5	889.1	901.0	907.6	911.5
50°	1024.8	1020.9	1010.3	1001.1	994.5	984.0	985.3	984.0	994.5	1003.7	1006.4
52.5°	1127.6	1126.2	1115.7	1113.1	1117.0	1111.8	1111.8	1098.6	1102.5	1107.8	1106.5
55°	1255.3	1251.4	1242.2	1247.4	1263.2	1271.1	1268.5	1247.4	1235.6	1238.2	1236.9
57.5°	1395.0	1391.0	1388.4	1404.2	1439.8	1472.7	1466.1	1417.4	1395.0	1396.3	1397.6
60°	1537.2	1537.2	1545.1	1584.7	1661.1	1715.1	1695.3	1613.6	1574.1	1566.2	1563.6
62.5°	1683.4	1687.4	1704.5	1770.4	1887.6	1977.2	1927.1	1811.2	1751.9	1736.1	1730.9
65°	1853.4	1857.3	1882.3	1964.0	2119.5	2226.2	2140.5	2031.2	1948.2	1915.3	1910.0
67.5°	2099.7	2102.3	2122.1	2201.1	2347.3	2433.0	2344.7	2247.2	2157.7	2119.5	2116.8
70°	2321.0	2323.6	2340.8	2444.8	2579.2	2609.5	2512.0	2388.2	2294.6	2264.4	2259.1
72.5°	2270.9	2280.2	2336.8	2498.8	2705.6	2745.1	2539.7	2353.9	2203.8	2153.7	2137.9
75°	1904.7	1919.2	2008.8	2252.5	2581.8	2693.8	2376.3	2035.1	1811.2	1715.1	1690.0
77.5°	1111.8	1165.8	1319.9	1632.1	2102.3	2330.2	1957.4	1489.8	1113.1	955.0	902.3
80°	304.3	333.3	445.2	750.8	1318.6	1632.1	1248.8	683.7	368.8	276.6	256.9
82.5°	96.2	127.8	162.0	216.0	517.7	860.2	463.7	201.5	158.1	130.4	115.9
85°	51.4	55.3	90.9	105.4	155.4	241.1	143.6	105.4	94.8	69.8	65.9
87.5°	26.3	27.7	51.4	51.4	68.5	56.6	61.9	56.6	54.0	34.2	30.3
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)