

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: P230986

Luminaire Tested: **ARCH-M-AF48-60-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230986
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-AF48-60-D-U-5WQ-7050
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 405mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8954 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 63
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



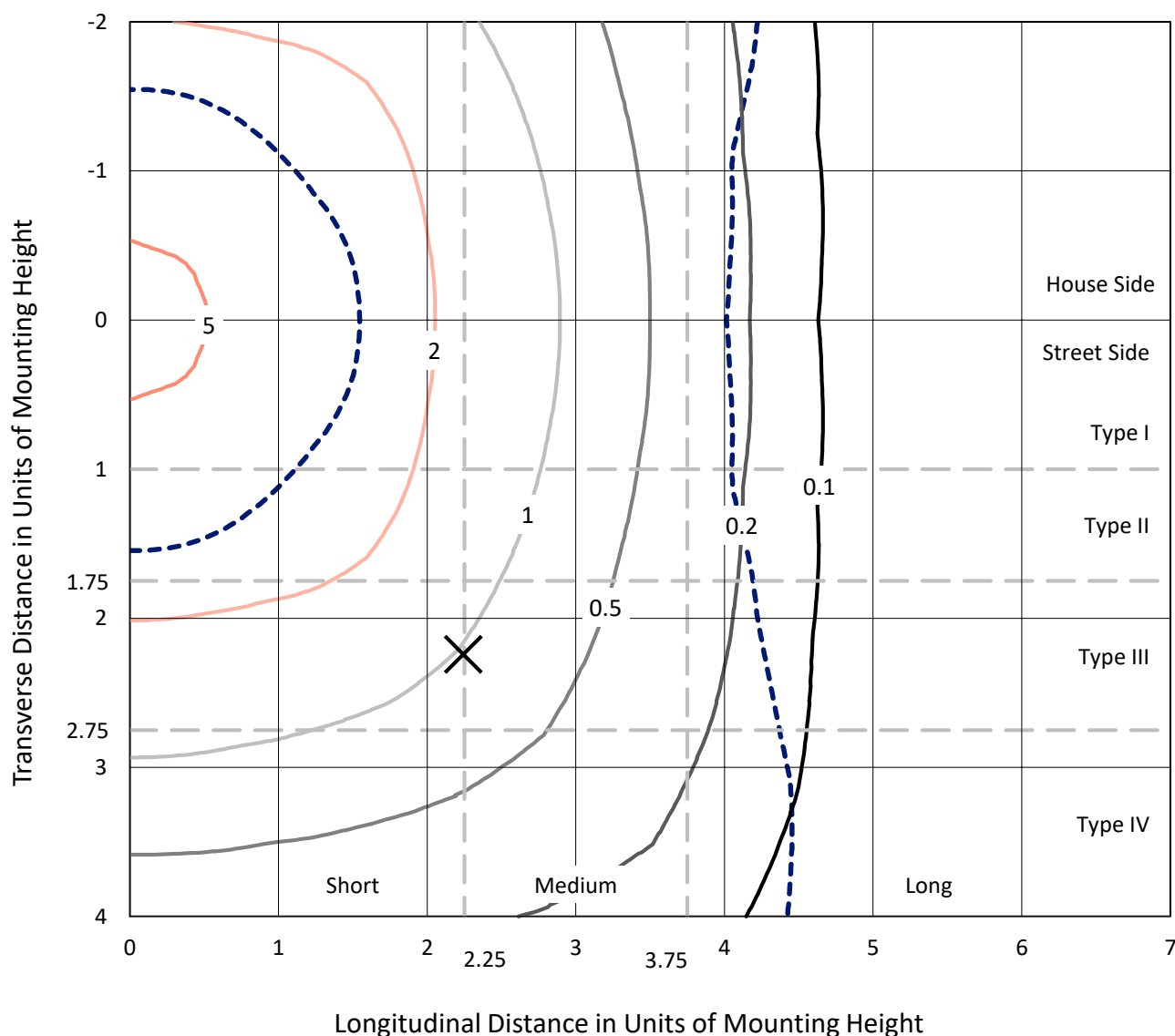
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

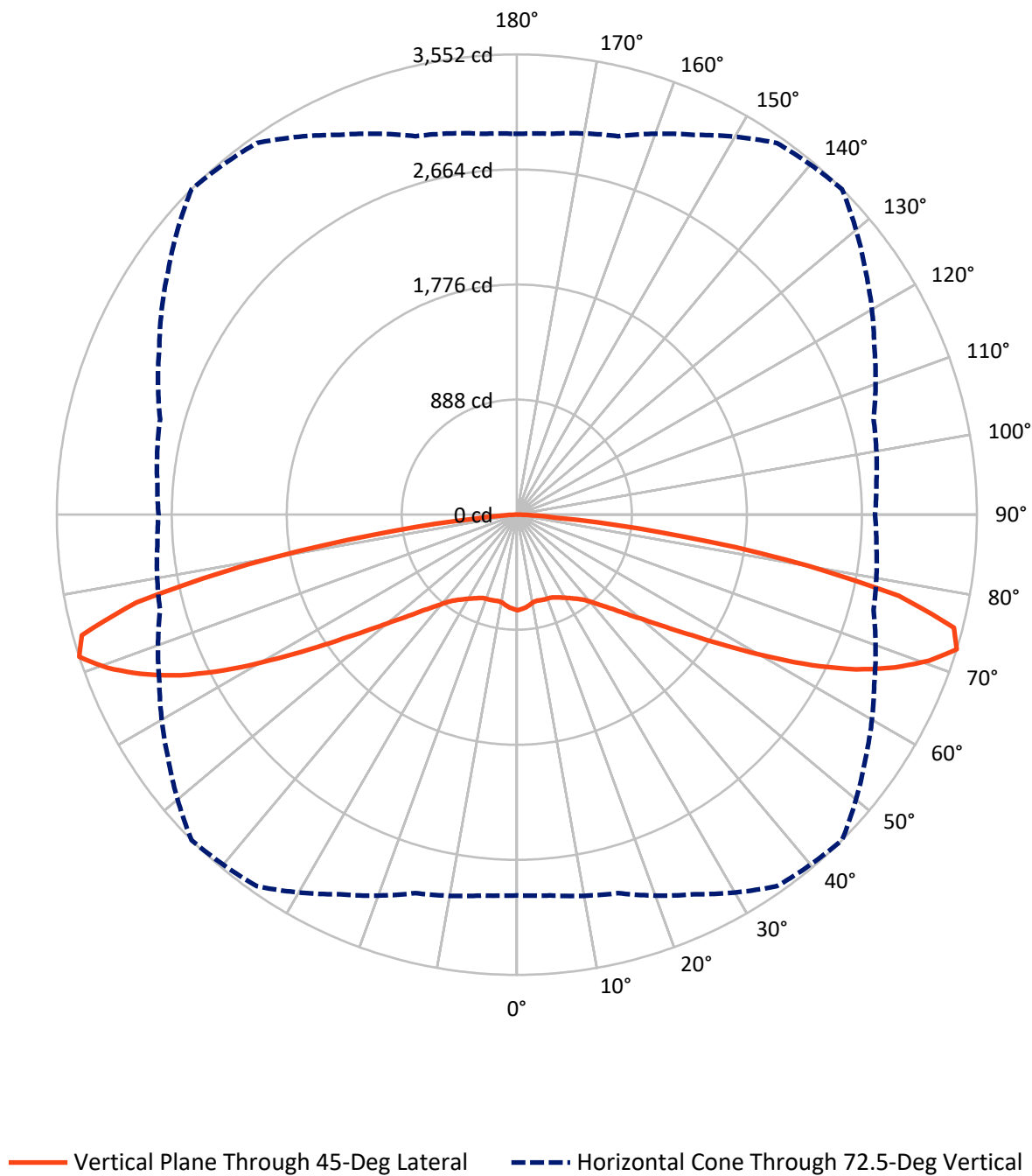


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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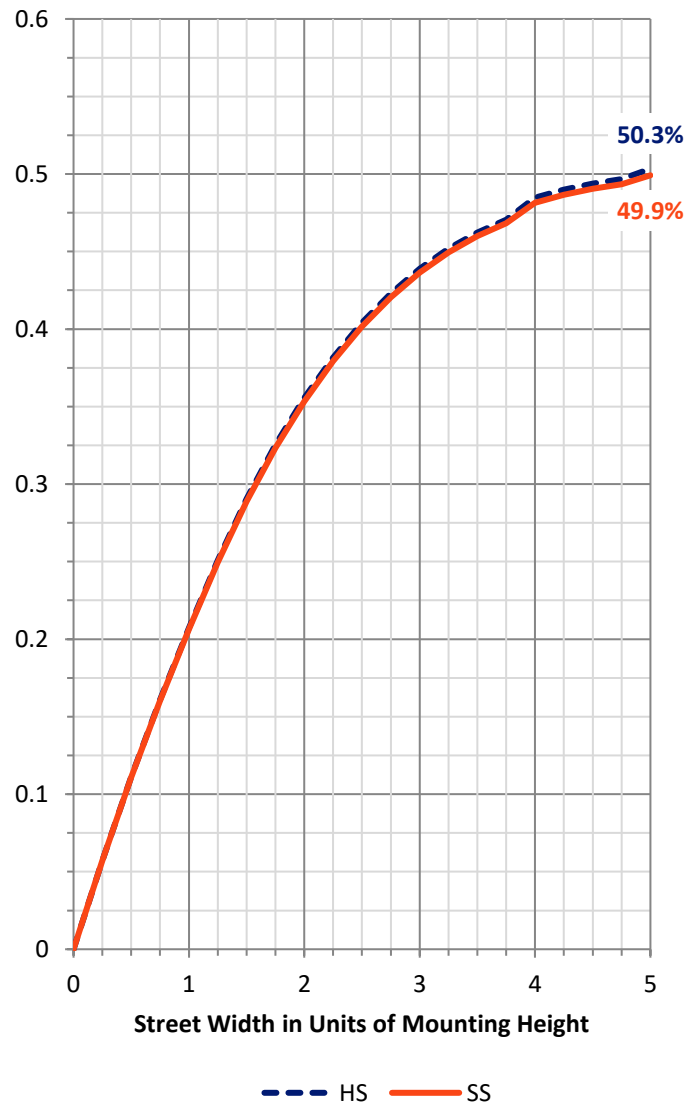
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4477.0	0.0	4477.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4477.0	0.0	4477.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8954.0	0.0	8954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	0.8
10°-20°	195.9	2.2
20°-30°	327.9	3.7
30°-40°	503.8	5.6
40°-50°	834.2	9.3
50°-60°	1483.0	16.6
60°-70°	2594.4	29.0
70°-80°	2639.6	29.5
80°-90°	307.4	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°	8954.0	100.0
0°-180°	8954.0	100.0

Coefficient of Utilization



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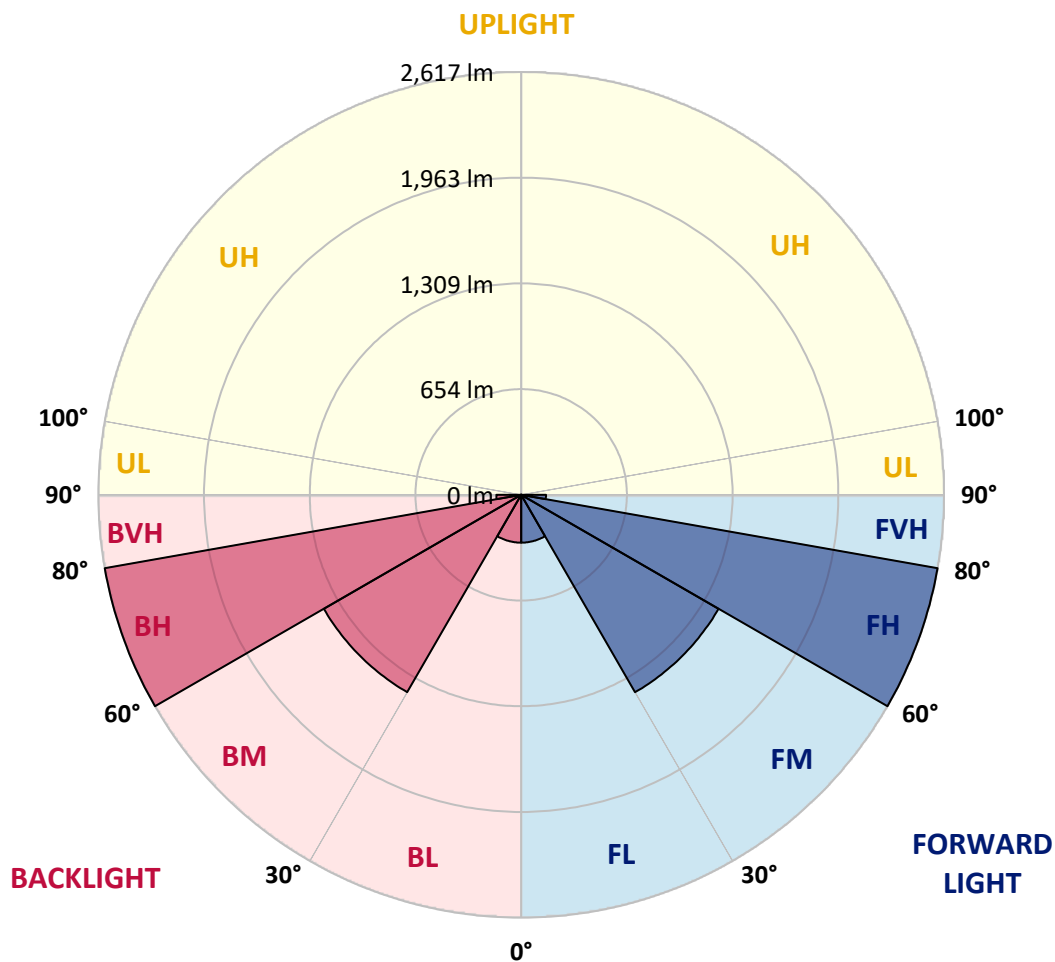
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	295.9	3.3			
FM	(30°-60°)	1410.5	15.8			
FH	(60°-80°)	2617.0	29.2			G2/5000
FVH	(80°-90°)	153.7	1.7			G2/225
BL	(0°-30°)	295.9	3.3	B1/500		
BM	(30°-60°)	1410.5	15.8	B2/2500		
BH	(60°-80°)	2617.0	29.2	B4/5000		G2/5000
BVH	(80°-90°)	153.7	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0	738.0
2.5°	731.2	732.9	729.5	729.5	729.5	727.8	729.5	727.8	729.5	731.2	731.2
5°	724.4	724.4	721.0	721.0	721.0	719.3	721.0	721.0	722.7	724.4	724.4
7.5°	709.0	709.0	707.3	705.6	703.9	703.9	705.6	705.6	707.3	709.0	709.0
10°	700.5	698.8	695.4	690.3	688.6	686.9	690.3	693.7	698.8	703.9	702.2
12.5°	697.1	695.4	688.6	683.5	680.1	681.8	685.2	688.6	697.1	702.2	700.5
15°	700.5	697.1	688.6	680.1	681.8	685.2	688.6	688.6	698.8	703.9	703.9
17.5°	700.5	698.8	688.6	681.8	683.5	688.6	690.3	688.6	697.1	705.6	705.6
20°	702.2	702.2	688.6	683.5	685.2	690.3	692.0	690.3	697.1	707.3	707.3
22.5°	705.6	703.9	690.3	686.9	690.3	693.7	695.4	693.7	700.5	709.0	710.7
25°	712.5	709.0	697.1	695.4	702.2	707.3	707.3	703.9	707.3	715.9	715.9
27.5°	721.0	719.3	705.6	705.6	714.2	724.4	719.3	712.5	715.9	724.4	724.4
30°	736.3	734.6	721.0	721.0	732.9	744.8	732.9	724.4	729.5	738.0	739.7
32.5°	758.5	758.5	746.5	743.1	763.6	768.7	763.6	746.5	749.9	761.9	761.9
35°	796.0	792.6	780.6	778.9	799.4	797.7	796.0	780.6	784.0	797.7	797.7
37.5°	845.4	843.7	833.5	828.4	838.6	831.8	835.2	828.4	836.9	847.1	848.8
40°	908.5	906.8	898.2	891.4	894.8	884.6	888.0	891.4	899.9	906.8	908.5
42.5°	986.9	986.9	978.3	966.4	961.3	956.2	956.2	963.0	971.5	980.0	980.0
45°	1084.0	1084.0	1073.8	1061.9	1046.5	1038.0	1041.4	1048.2	1058.5	1068.7	1072.1
47.5°	1198.2	1198.2	1184.6	1172.6	1157.3	1147.1	1147.1	1150.5	1165.8	1174.4	1179.5
50°	1326.0	1320.9	1307.3	1295.4	1286.8	1273.2	1274.9	1273.2	1286.8	1298.8	1302.2
52.5°	1459.0	1457.3	1443.7	1440.2	1445.4	1438.5	1438.5	1421.5	1426.6	1433.4	1431.7
55°	1624.3	1619.2	1607.3	1614.1	1634.5	1644.8	1641.4	1614.1	1598.8	1602.2	1600.5
57.5°	1805.0	1799.9	1796.5	1816.9	1862.9	1905.6	1897.0	1834.0	1805.0	1806.7	1808.4
60°	1989.1	1989.1	1999.3	2050.4	2149.3	2219.2	2193.6	2087.9	2036.8	2026.6	2023.2
62.5°	2178.3	2183.4	2205.5	2290.8	2442.4	2558.3	2493.6	2343.6	2266.9	2246.4	2239.6
65°	2398.1	2403.2	2435.6	2541.3	2742.4	2880.5	2769.7	2628.2	2520.9	2478.2	2471.4
67.5°	2716.9	2720.3	2745.8	2848.1	3037.3	3148.1	3033.9	2907.8	2791.9	2742.4	2739.0
70°	3003.2	3006.6	3028.8	3163.4	3337.3	3376.5	3250.3	3090.1	2969.1	2929.9	2923.1
72.5°	2938.4	2950.4	3023.7	3233.3	3500.9	3552.0	3286.1	3045.8	2851.5	2786.7	2766.3
75°	2464.6	2483.4	2599.3	2914.6	3340.7	3485.6	3074.8	2633.3	2343.6	2219.2	2186.8
77.5°	1438.5	1508.4	1707.8	2111.8	2720.3	3015.1	2532.8	1927.7	1440.2	1235.7	1167.5
80°	393.7	431.2	576.1	971.5	1706.1	2111.8	1615.8	884.6	477.2	357.9	332.4
82.5°	124.4	165.3	209.6	279.5	669.8	1113.0	600.0	260.8	204.5	168.7	150.0
85°	66.5	71.6	117.6	136.4	201.1	311.9	185.8	136.4	122.7	90.3	85.2
87.5°	34.1	35.8	66.5	66.5	88.6	73.3	80.1	73.3	69.9	44.3	39.2
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)