

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: P214535

Luminaire Tested: **ARCH-AF24-60-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214535
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-AF24-60-D-U-5WQ-7050
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7768 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 64
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

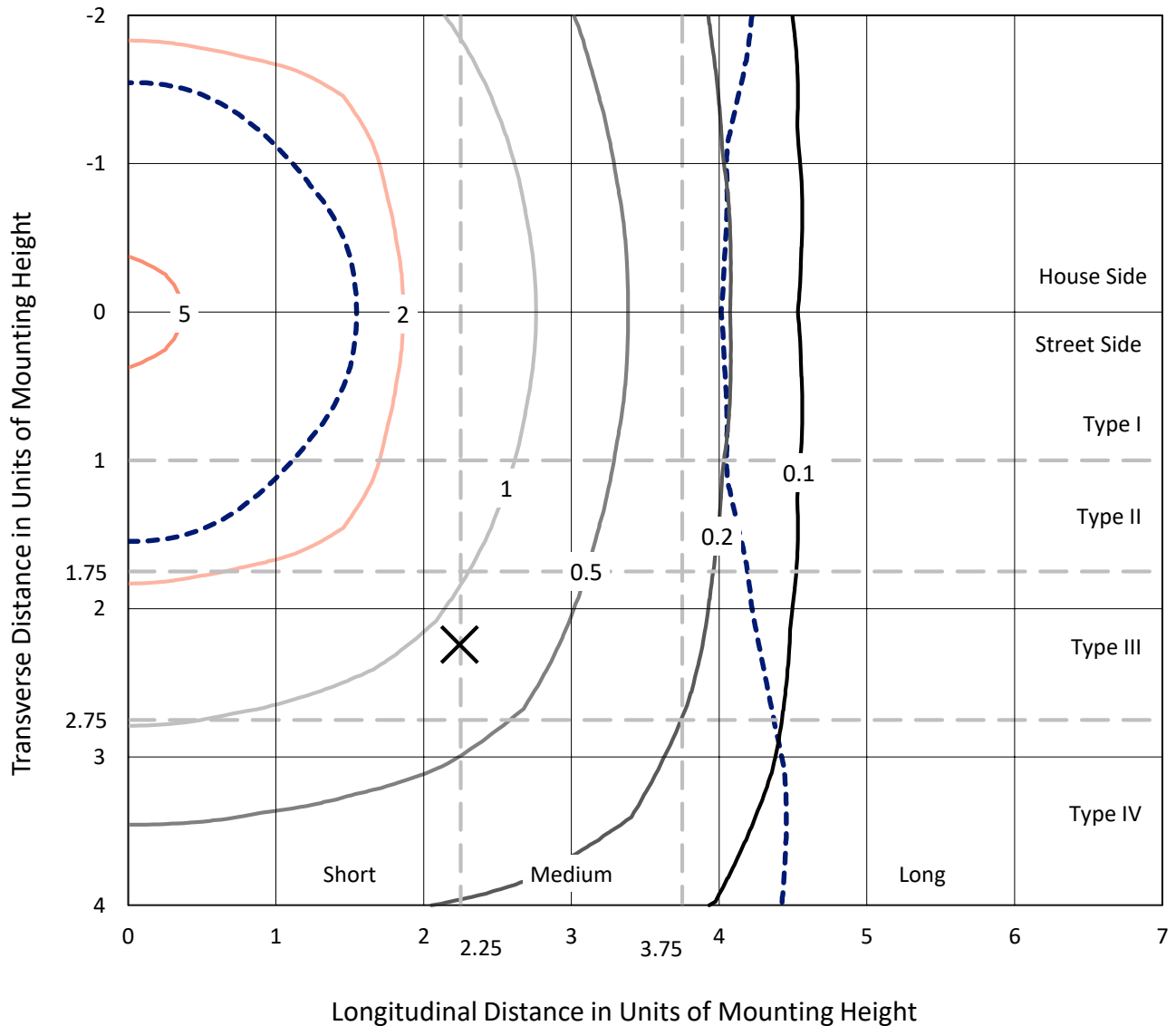


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Iso-Footcandle Lines of Horizontal Illumination

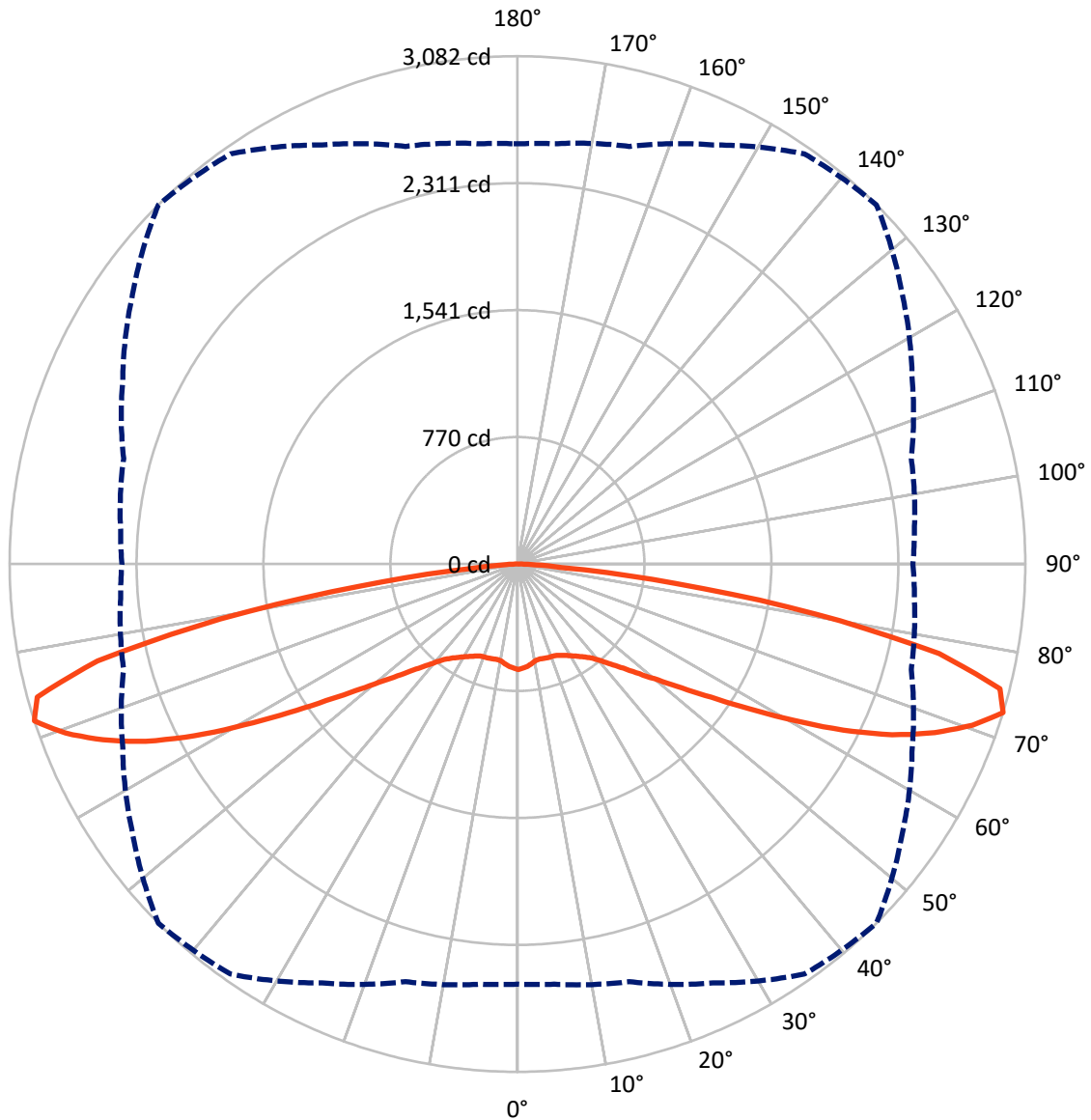
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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
House Side	Lumens	3884.0	0.0	3884.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3884.0	0.0	3884.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7768.0	0.0	7768.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	0.8
10°-20°	170.0	2.2
20°-30°	284.4	3.7
30°-40°	437.1	5.6
40°-50°	723.7	9.3
50°-60°	1286.5	16.6
60°-70°	2250.8	29.0
70°-80°	2290.0	29.5
80°-90°	266.7	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°	7768.0	100.0
0°-180°	7768.0	100.0



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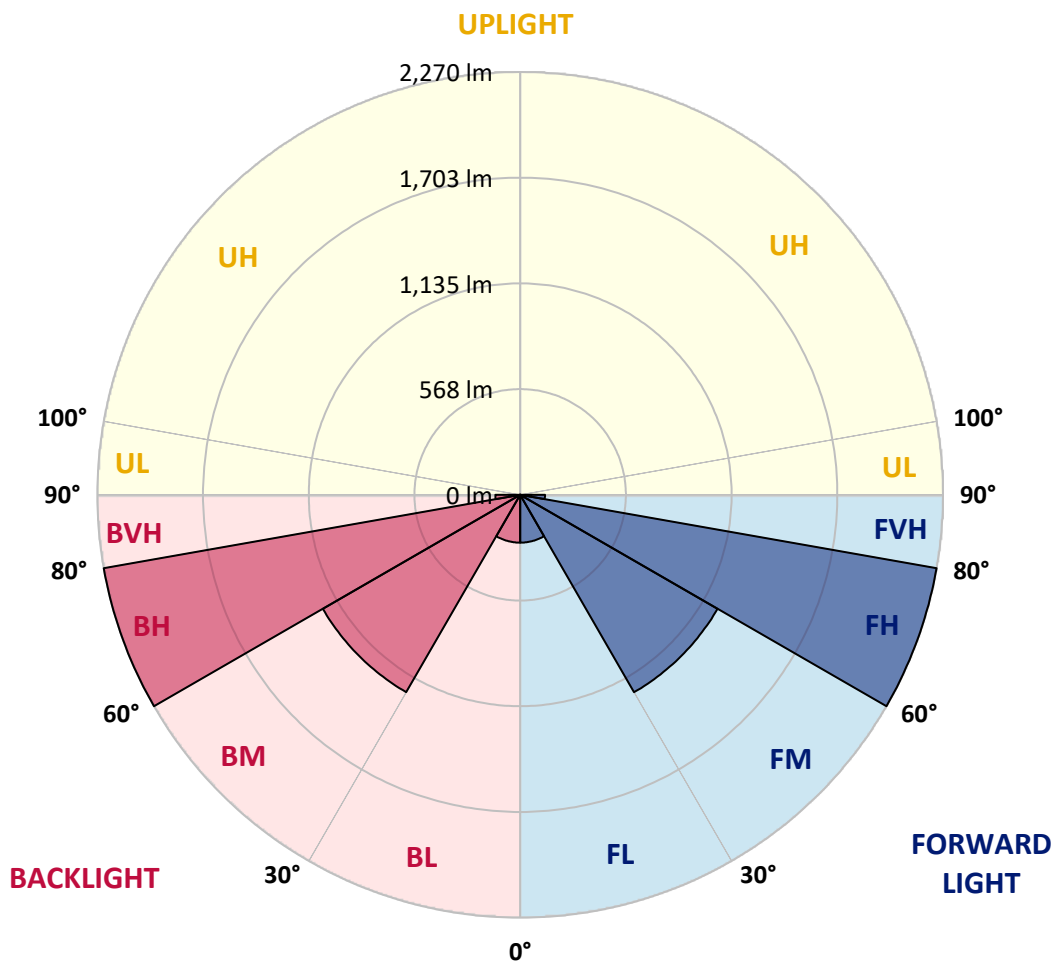
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	256.7	3.3			
FM	(30°-60°)	1223.6	15.8			
FH	(60°-80°)	2270.4	29.2			G2/5000
FVH	(80°-90°)	133.3	1.7			G2/225
BL	(0°-30°)	256.7	3.3	B1/500		
BM	(30°-60°)	1223.6	15.8	B2/2500		
BH	(60°-80°)	2270.4	29.2	B3/2500		G2/5000
BVH	(80°-90°)	133.3	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°	640.3	640.3	640.3	640.3	640.3	640.3	640.3	640.3	640.3	640.3	640.3
2.5°	634.3	635.8	632.9	632.9	632.9	631.4	632.9	631.4	632.9	634.3	634.3
5°	628.4	628.4	625.5	625.5	625.5	624.0	625.5	625.5	627.0	628.4	628.4
7.5°	615.1	615.1	613.6	612.2	610.7	610.7	612.2	612.2	613.6	615.1	615.1
10°	607.7	606.3	603.3	598.9	597.4	595.9	598.9	601.8	606.3	610.7	609.2
12.5°	604.8	603.3	597.4	592.9	590.0	591.5	594.4	597.4	604.8	609.2	607.7
15°	607.7	604.8	597.4	590.0	591.5	594.4	597.4	597.4	606.3	610.7	610.7
17.5°	607.7	606.3	597.4	591.5	592.9	597.4	598.9	597.4	604.8	612.2	612.2
20°	609.2	609.2	597.4	592.9	594.4	598.9	600.3	598.9	604.8	613.6	613.6
22.5°	612.2	610.7	598.9	595.9	598.9	601.8	603.3	601.8	607.7	615.1	616.6
25°	618.1	615.1	604.8	603.3	609.2	613.6	613.6	610.7	613.6	621.0	621.0
27.5°	625.5	624.0	612.2	612.2	619.6	628.4	624.0	618.1	621.0	628.4	628.4
30°	638.8	637.3	625.5	625.5	635.8	646.2	635.8	628.4	632.9	640.3	641.7
32.5°	658.0	658.0	647.7	644.7	662.4	666.9	662.4	647.7	650.6	661.0	661.0
35°	690.5	687.6	677.2	675.8	693.5	692.0	690.5	677.2	680.2	692.0	692.0
37.5°	733.4	731.9	723.1	718.6	727.5	721.6	724.5	718.6	726.0	734.9	736.4
40°	788.1	786.7	779.3	773.3	776.3	767.4	770.4	773.3	780.7	786.7	788.1
42.5°	856.1	856.1	848.8	838.4	834.0	829.5	829.5	835.4	842.8	850.2	850.2
45°	940.4	940.4	931.6	921.2	907.9	900.5	903.5	909.4	918.3	927.1	930.1
47.5°	1039.5	1039.5	1027.7	1017.3	1004.0	995.1	995.1	998.1	1011.4	1018.8	1023.2
50°	1150.4	1146.0	1134.1	1123.8	1116.4	1104.6	1106.0	1104.6	1116.4	1126.7	1129.7
52.5°	1265.7	1264.3	1252.4	1249.5	1253.9	1248.0	1248.0	1233.2	1237.6	1243.6	1242.1
55°	1409.2	1404.7	1394.4	1400.3	1418.0	1426.9	1424.0	1400.3	1387.0	1389.9	1388.5
57.5°	1565.9	1561.5	1558.5	1576.3	1616.2	1653.2	1645.8	1591.0	1565.9	1567.4	1568.9
60°	1725.6	1725.6	1734.5	1778.8	1864.6	1925.2	1903.0	1811.4	1767.0	1758.1	1755.2
62.5°	1889.7	1894.2	1913.4	1987.3	2118.9	2219.5	2163.3	2033.2	1966.6	1948.9	1943.0
65°	2080.5	2084.9	2113.0	2204.7	2379.2	2499.0	2402.8	2280.1	2187.0	2150.0	2144.1
67.5°	2357.0	2360.0	2382.1	2470.9	2635.0	2731.1	2632.0	2522.6	2422.1	2379.2	2376.2
70°	2605.4	2608.4	2627.6	2744.4	2895.2	2929.2	2819.8	2680.8	2575.8	2541.8	2535.9
72.5°	2549.2	2559.6	2623.2	2805.0	3037.2	3081.5	2850.9	2642.4	2473.8	2417.6	2399.9
75°	2138.2	2154.4	2255.0	2528.5	2898.2	3023.9	2667.5	2284.5	2033.2	1925.2	1897.1
77.5°	1248.0	1308.6	1481.6	1832.1	2360.0	2615.8	2197.3	1672.4	1249.5	1072.0	1012.9
80°	341.6	374.1	499.8	842.8	1480.1	1832.1	1401.8	767.4	414.0	310.5	288.3
82.5°	107.9	143.4	181.9	242.5	581.1	965.6	520.5	226.2	177.4	146.4	130.1
85°	57.7	62.1	102.0	118.3	174.5	270.6	161.2	118.3	106.5	78.4	73.9
87.5°	29.6	31.1	57.7	57.7	76.9	63.6	69.5	63.6	60.6	38.4	34.0
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)