

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: P835990

Luminaire Tested: **ARCH3-120-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18949 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.7
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

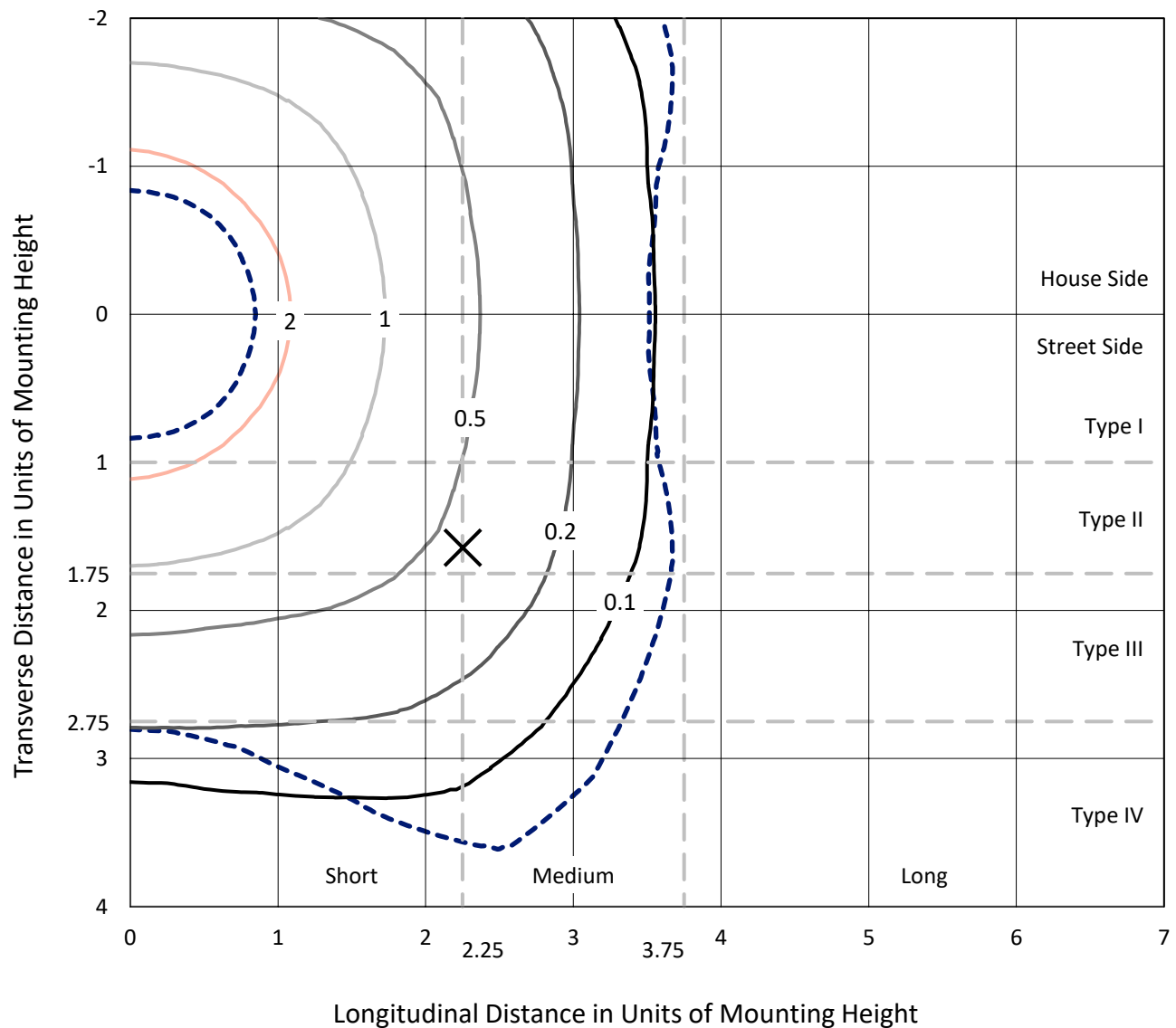


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Iso-Footcandle Lines of Horizontal Illumination

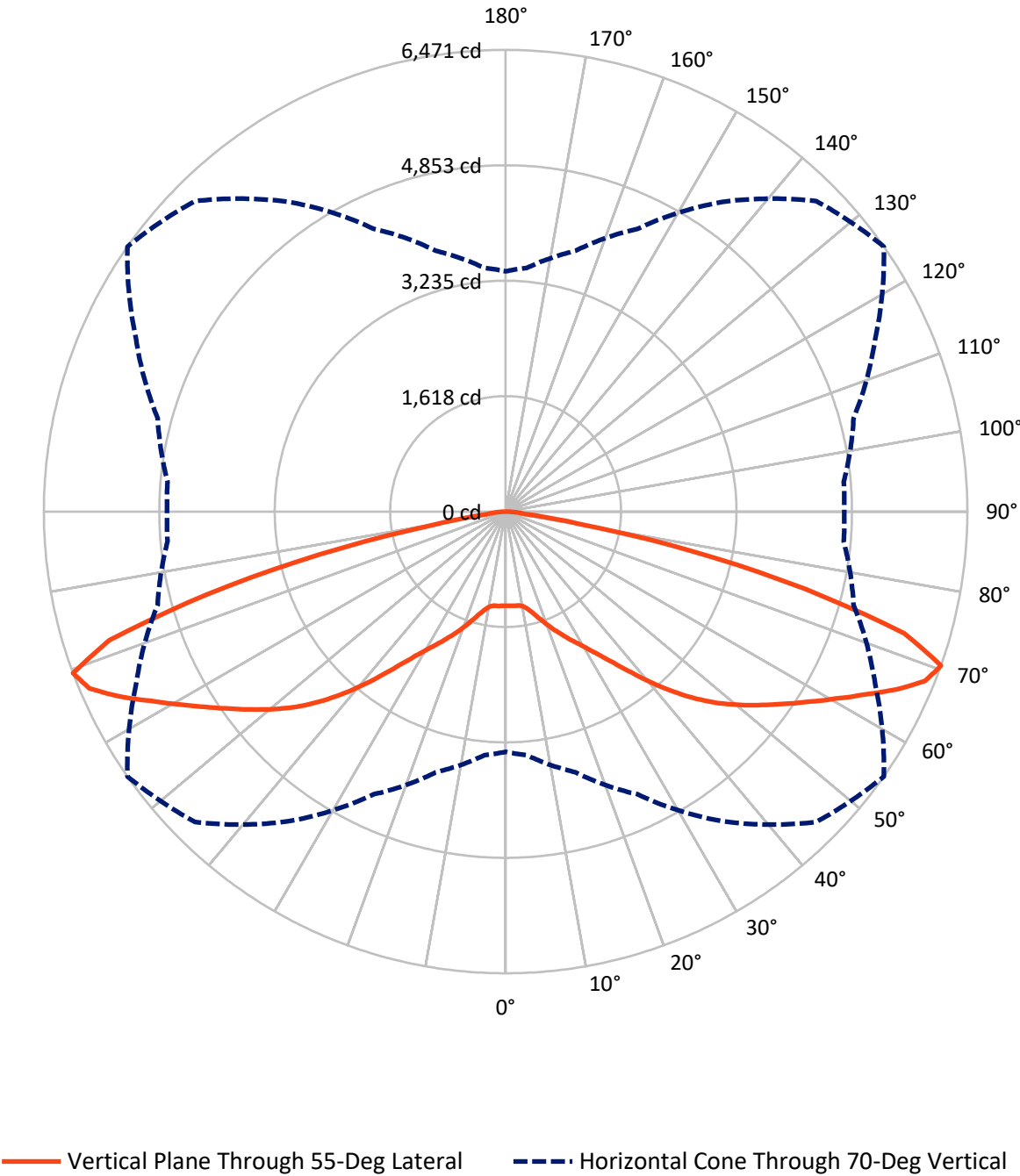
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9474.5	0.0	9474.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9474.5	0.0	9474.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18949.0	0.0	18949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	0.7
10°-20°	434.0	2.3
20°-30°	901.8	4.8
30°-40°	1665.6	8.8
40°-50°	2926.1	15.4
50°-60°	4220.1	22.3
60°-70°	5164.9	27.3
70°-80°	3286.6	17.3
80°-90°	222.4	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°	18949.0	100.0
0°-180°	18949.0	100.0

Coefficient of Utilization



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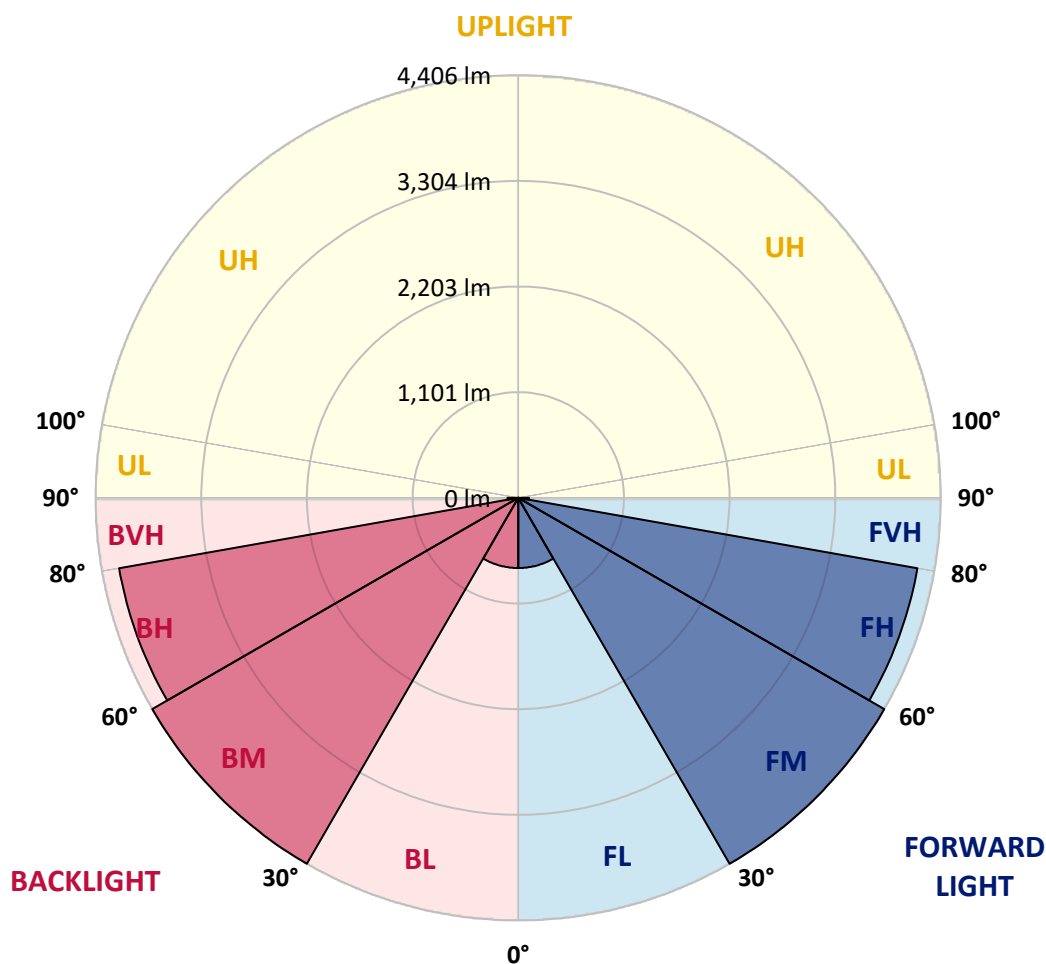
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.7	3.9			
FM	(30°-60°)	4405.9	23.3			
FH	(60°-80°)	4225.8	22.3			G2/5000
FVH	(80°-90°)	111.2	0.6			G2/225
BL	(0°-30°)	731.7	3.9	B2/1000		
BM	(30°-60°)	4405.9	23.3	B3/5000		
BH	(60°-80°)	4225.8	22.3	B4/5000		G2/5000
BVH	(80°-90°)	111.2	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1320.9	1320.9	1320.9	1320.9	1320.9	1320.9	1320.9	1320.9	1320.9	1320.9	1320.9
2.5°	1338.5	1338.5	1335.0	1335.0	1328.0	1324.4	1320.9	1320.9	1317.4	1317.4	1313.9
5°	1345.6	1345.6	1345.6	1342.1	1338.5	1335.0	1328.0	1320.9	1317.4	1313.9	1310.4
7.5°	1349.1	1349.1	1345.6	1345.6	1342.1	1338.5	1328.0	1317.4	1313.9	1310.4	1310.4
10°	1377.3	1373.8	1370.2	1363.2	1363.2	1363.2	1349.1	1338.5	1335.0	1335.0	1335.0
12.5°	1444.2	1440.7	1433.6	1423.1	1423.1	1426.6	1405.5	1391.4	1391.4	1387.9	1387.9
15°	1542.8	1539.3	1532.3	1514.7	1511.1	1518.2	1486.5	1472.4	1472.4	1472.4	1468.9
17.5°	1652.0	1645.0	1634.4	1620.3	1620.3	1620.3	1588.6	1571.0	1560.5	1560.5	1556.9
20°	1743.6	1740.1	1740.1	1736.6	1747.1	1747.1	1704.9	1676.7	1652.0	1637.9	1634.4
22.5°	1824.6	1821.1	1828.2	1842.2	1863.4	1870.4	1821.1	1778.8	1740.1	1711.9	1704.9
25°	1933.8	1930.3	1926.8	1947.9	1983.1	1993.7	1940.9	1888.0	1849.3	1835.2	1828.2
27.5°	2050.1	2053.6	2057.1	2078.3	2106.4	2124.0	2071.2	2021.9	1990.2	1969.1	1962.0
30°	2180.4	2187.5	2198.0	2229.7	2250.9	2257.9	2212.1	2176.9	2148.7	2131.1	2120.5
32.5°	2346.0	2360.1	2374.1	2402.3	2412.9	2405.8	2384.7	2360.1	2338.9	2314.3	2310.7
35°	2592.5	2606.6	2603.1	2613.7	2617.2	2610.1	2599.6	2585.5	2574.9	2543.2	2539.7
37.5°	2902.5	2916.6	2895.5	2884.9	2860.2	2863.8	2860.2	2870.8	2874.3	2842.6	2839.1
40°	3216.0	3230.1	3201.9	3173.7	3149.1	3138.5	3156.1	3191.4	3191.4	3170.2	3170.2
42.5°	3550.6	3561.2	3515.4	3480.2	3448.5	3441.4	3452.0	3494.3	3504.9	3501.3	3501.3
45°	3885.3	3878.2	3818.4	3783.1	3754.9	3737.3	3740.9	3772.6	3793.7	3804.3	3804.3
47.5°	4142.4	4131.9	4082.5	4054.4	4036.7	4012.1	4012.1	4029.7	4040.3	4043.8	4043.8
50°	4346.7	4336.2	4286.8	4283.3	4283.3	4272.7	4262.2	4258.7	4251.6	4255.1	4255.1
52.5°	4522.8	4508.8	4473.5	4480.6	4512.3	4519.3	4505.2	4477.1	4448.9	4438.3	4441.8
55°	4713.1	4691.9	4663.7	4684.9	4748.3	4776.5	4755.3	4699.0	4649.7	4618.0	4618.0
57.5°	4864.5	4839.9	4839.9	4899.7	5016.0	5072.3	5026.6	4920.9	4836.3	4801.1	4804.6
60°	4758.8	4737.7	4822.3	5086.4	5304.8	5399.9	5322.4	5135.8	4998.4	4956.1	4963.2
62.5°	4551.0	4536.9	4642.6	5051.2	5565.5	5762.8	5646.5	5378.8	5174.5	5125.2	5125.2
65°	4244.6	4241.0	4389.0	4892.7	5625.4	6111.5	6012.8	5643.0	5378.8	5311.9	5326.0
67.5°	3927.5	3927.5	4061.4	4621.5	5554.9	6259.4	6336.9	5882.5	5477.4	5311.9	5315.4
70°	3367.5	3427.4	3783.1	4371.4	5297.8	6153.7	6470.8	5713.4	5047.7	4755.3	4744.8
72.5°	2219.2	2296.6	3004.7	3934.6	5044.2	5769.8	5840.2	5019.5	4191.7	3850.1	3832.4
75°	1338.5	1405.5	1947.9	3071.6	4434.8	4646.1	4336.2	3934.6	3131.5	2863.8	2863.8
77.5°	394.5	440.3	898.2	1947.9	3068.1	3054.0	2673.6	2317.8	1852.8	1574.5	1595.7
80°	232.5	239.5	292.4	887.7	1271.6	1338.5	1032.1	644.6	644.6	479.1	465.0
82.5°	179.6	179.6	186.7	221.9	306.5	341.7	260.7	221.9	253.6	214.9	204.3
85°	126.8	126.8	126.8	130.3	133.9	137.4	144.4	147.9	162.0	133.9	126.8
87.5°	38.7	42.3	45.8	52.8	63.4	66.9	70.4	63.4	63.4	59.9	56.4
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)