

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: P799375

Luminaire Tested: **ARCH2-110-730-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13142 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 109.5
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

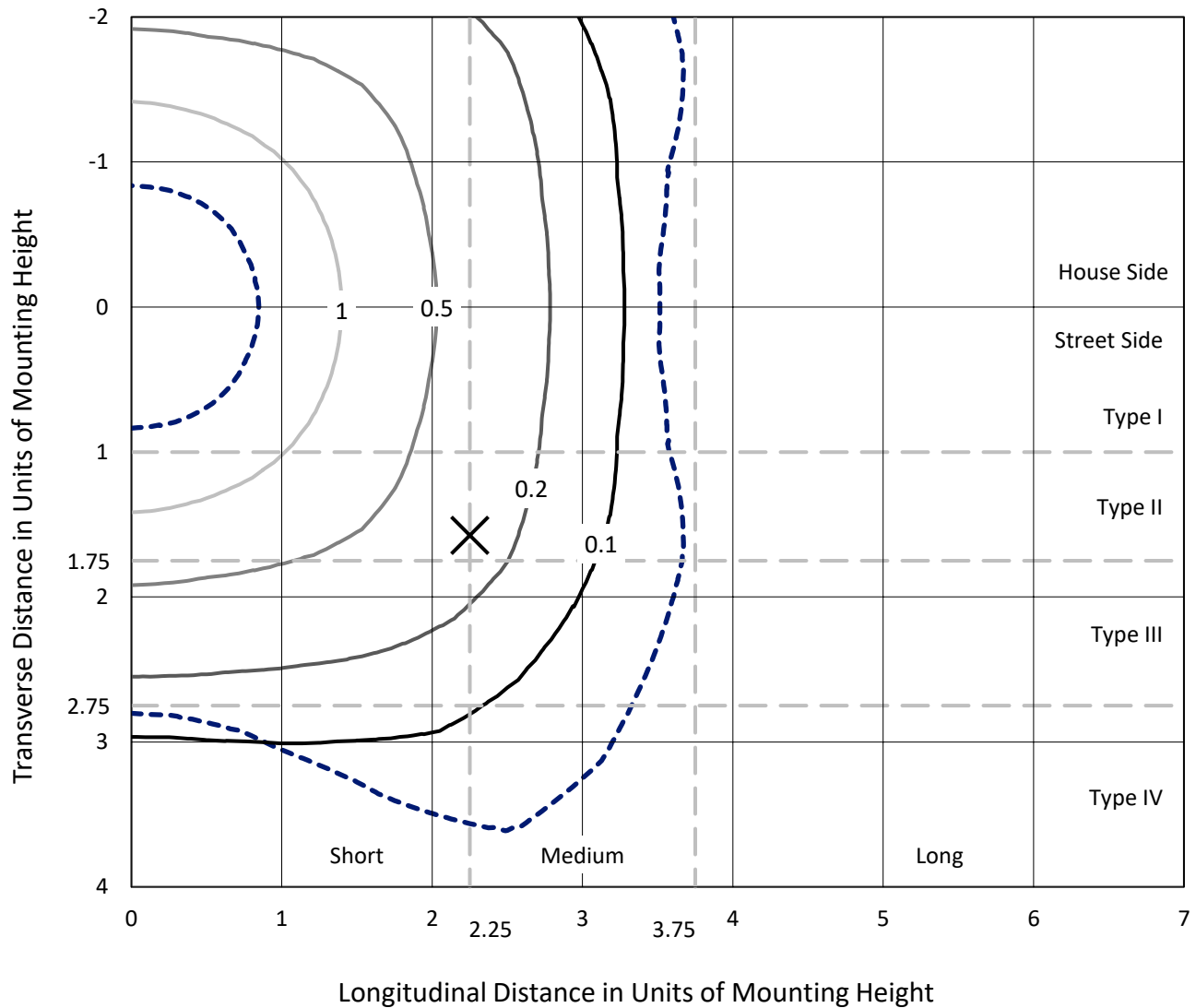


REPORT NUMBER: P799375

CATALOG NUMBER: ARCH2-110-730-U-5WQ

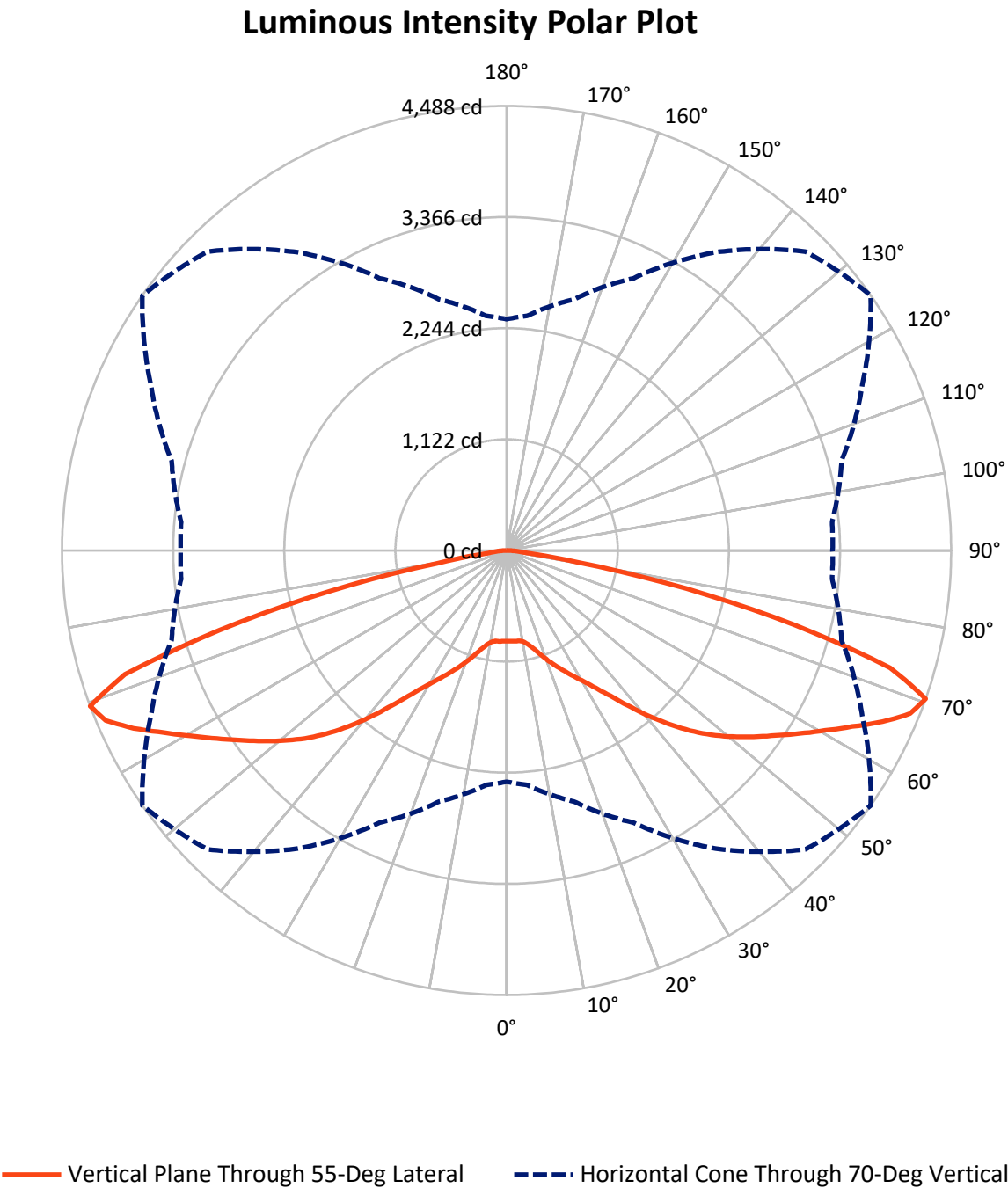
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type V - Medium - N/A

REPORT NUMBER: P799375
CATALOG NUMBER: ARCH2-110-730-U-5WQ



REPORT NUMBER: P799375

CATALOG NUMBER: ARCH2-110-730-U-5WQ

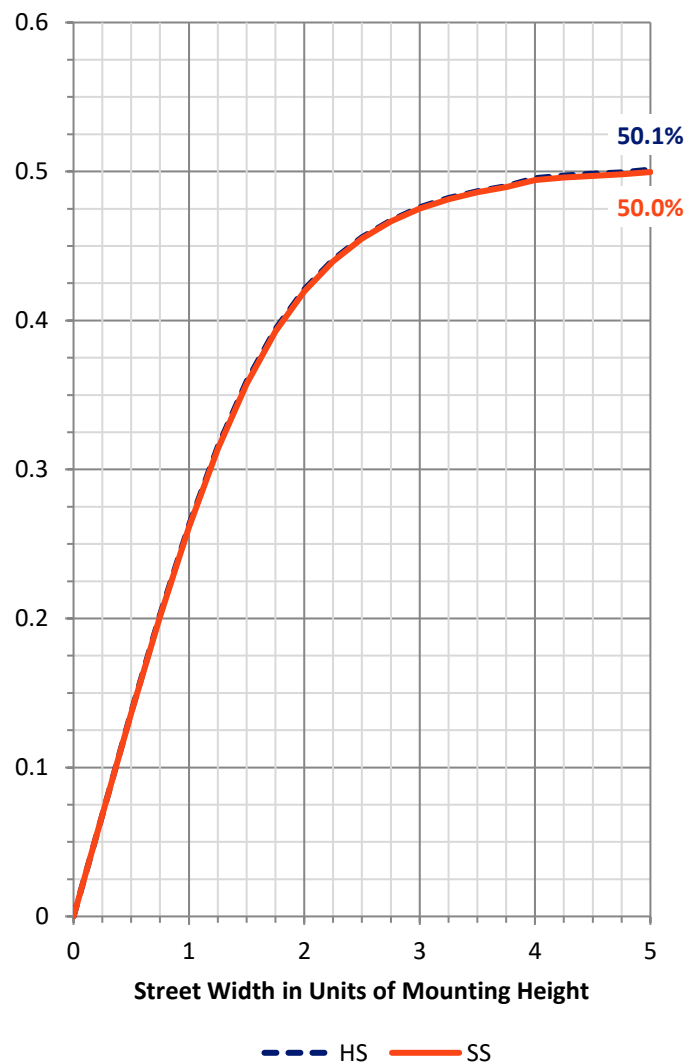
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6571.0	0.0	6571.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6571.0	0.0	6571.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13142.0	0.0	13142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	0.7
10°-20°	301.0	2.3
20°-30°	625.4	4.8
30°-40°	1155.2	8.8
40°-50°	2029.4	15.4
50°-60°	2926.8	22.3
60°-70°	3582.1	27.3
70°-80°	2279.4	17.3
80°-90°	154.2	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°	13142.0	100.0
0°-180°	13142.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799375

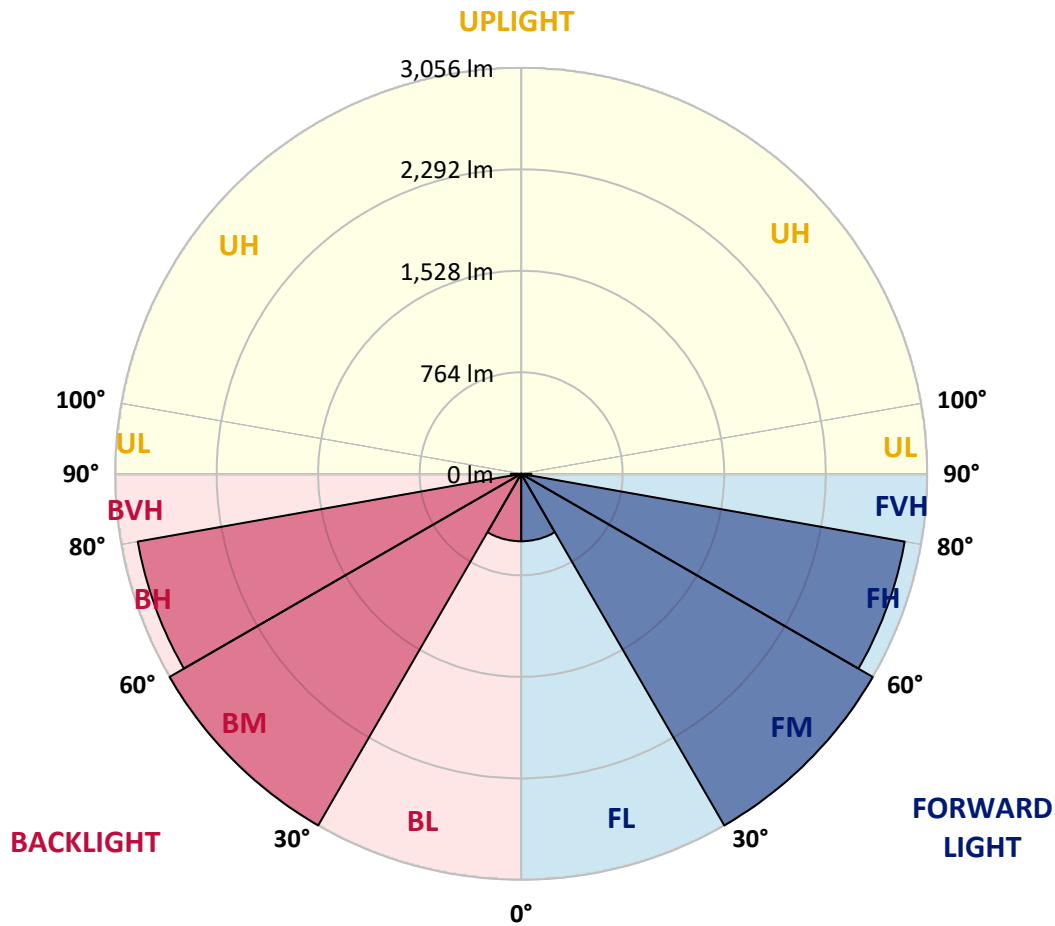
CATALOG NUMBER: ARCH2-110-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	507.4	3.9			
FM	(30°-60°)	3055.7	23.3			
FH	(60°-80°)	2930.8	22.3			G2/5000
FVH	(80°-90°)	77.1	0.6			G1/100
BL	(0°-30°)	507.4	3.9	B2/1000		
BM	(30°-60°)	3055.7	23.3	B3/5000		
BH	(60°-80°)	2930.8	22.3	B4/5000		G2/5000
BVH	(80°-90°)	77.1	0.6			G1/100
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



REPORT NUMBER: P799375

CATALOG NUMBER: ARCH2-110-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	916.1	916.1	916.1	916.1	916.1	916.1	916.1	916.1	916.1	916.1	916.1
2.5°	928.3	928.3	925.9	925.9	921.0	918.6	916.1	916.1	913.7	913.7	911.2
5°	933.2	933.2	933.2	930.8	928.3	925.9	921.0	916.1	913.7	911.2	908.8
7.5°	935.7	935.7	933.2	933.2	930.8	928.3	921.0	913.7	911.2	908.8	908.8
10°	955.2	952.8	950.3	945.4	945.4	945.4	935.7	928.3	925.9	925.9	925.9
12.5°	1001.6	999.2	994.3	987.0	987.0	989.4	974.8	965.0	965.0	962.5	962.5
15°	1070.0	1067.6	1062.7	1050.5	1048.0	1052.9	1030.9	1021.2	1021.2	1021.2	1018.7
17.5°	1145.8	1140.9	1133.5	1123.8	1123.8	1123.8	1101.8	1089.6	1082.2	1082.2	1079.8
20°	1209.3	1206.8	1206.8	1204.4	1211.7	1211.7	1182.4	1162.9	1145.8	1136.0	1133.5
22.5°	1265.5	1263.0	1267.9	1277.7	1292.3	1297.2	1263.0	1233.7	1206.8	1187.3	1182.4
25°	1341.2	1338.8	1336.3	1351.0	1375.4	1382.7	1346.1	1309.4	1282.6	1272.8	1267.9
27.5°	1421.8	1424.3	1426.7	1441.4	1460.9	1473.1	1436.5	1402.3	1380.3	1365.6	1360.7
30°	1512.2	1517.1	1524.4	1546.4	1561.1	1566.0	1534.2	1509.8	1490.2	1478.0	1470.7
32.5°	1627.0	1636.8	1646.6	1666.1	1673.4	1668.6	1653.9	1636.8	1622.1	1605.0	1602.6
35°	1798.0	1807.8	1805.4	1812.7	1815.1	1810.3	1802.9	1793.2	1785.8	1763.8	1761.4
37.5°	2013.0	2022.8	2008.1	2000.8	1983.7	1986.2	1983.7	1991.0	1993.5	1971.5	1969.1
40°	2230.5	2240.2	2220.7	2201.1	2184.0	2176.7	2188.9	2213.3	2213.3	2198.7	2198.7
42.5°	2462.5	2469.9	2438.1	2413.7	2391.7	2386.8	2394.1	2423.4	2430.8	2428.3	2428.3
45°	2694.6	2689.7	2648.2	2623.8	2604.2	2592.0	2594.5	2616.4	2631.1	2638.4	2638.4
47.5°	2873.0	2865.6	2831.4	2811.9	2799.7	2782.6	2782.6	2794.8	2802.1	2804.6	2804.6
50°	3014.7	3007.3	2973.1	2970.7	2970.7	2963.3	2956.0	2953.6	2948.7	2951.1	2951.1
52.5°	3136.8	3127.0	3102.6	3107.5	3129.5	3134.4	3124.6	3105.0	3085.5	3078.2	3080.6
55°	3268.7	3254.1	3234.5	3249.2	3293.2	3312.7	3298.0	3258.9	3224.7	3202.8	3202.8
57.5°	3373.8	3356.7	3356.7	3398.2	3478.8	3517.9	3486.1	3412.9	3354.2	3329.8	3332.2
60°	3300.5	3285.8	3344.5	3527.7	3679.1	3745.1	3691.4	3561.9	3466.6	3437.3	3442.2
62.5°	3156.3	3146.6	3219.9	3503.2	3859.9	3996.7	3916.1	3730.4	3588.8	3554.6	3554.6
65°	2943.8	2941.4	3044.0	3393.3	3901.5	4238.6	4170.2	3913.7	3730.4	3684.0	3693.8
67.5°	2723.9	2723.9	2816.8	3205.2	3852.6	4341.2	4394.9	4079.8	3798.8	3684.0	3686.5
70°	2335.5	2377.0	2623.8	3031.8	3674.3	4267.9	4487.8	3962.5	3500.8	3298.0	3290.7
72.5°	1539.1	1592.8	2083.9	2728.8	3498.4	4001.6	4050.5	3481.3	2907.2	2670.2	2658.0
75°	928.3	974.8	1351.0	2130.3	3075.7	3222.3	3007.3	2728.8	2171.8	1986.2	1986.2
77.5°	273.6	305.4	623.0	1351.0	2127.8	2118.1	1854.2	1607.5	1285.0	1092.0	1106.7
80°	161.2	166.1	202.8	615.6	881.9	928.3	715.8	447.1	447.1	332.2	322.5
82.5°	124.6	124.6	129.5	153.9	212.5	237.0	180.8	153.9	175.9	149.0	141.7
85°	87.9	87.9	87.9	90.4	92.8	95.3	100.2	102.6	112.4	92.8	87.9
87.5°	26.9	29.3	31.8	36.6	44.0	46.4	48.9	44.0	44.0	41.5	39.1
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)