

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: P842746

Luminaire Tested: **ARCH4-90-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15732 lumens
Efficiency: N/A
Efficacy: 169.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 93.1
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

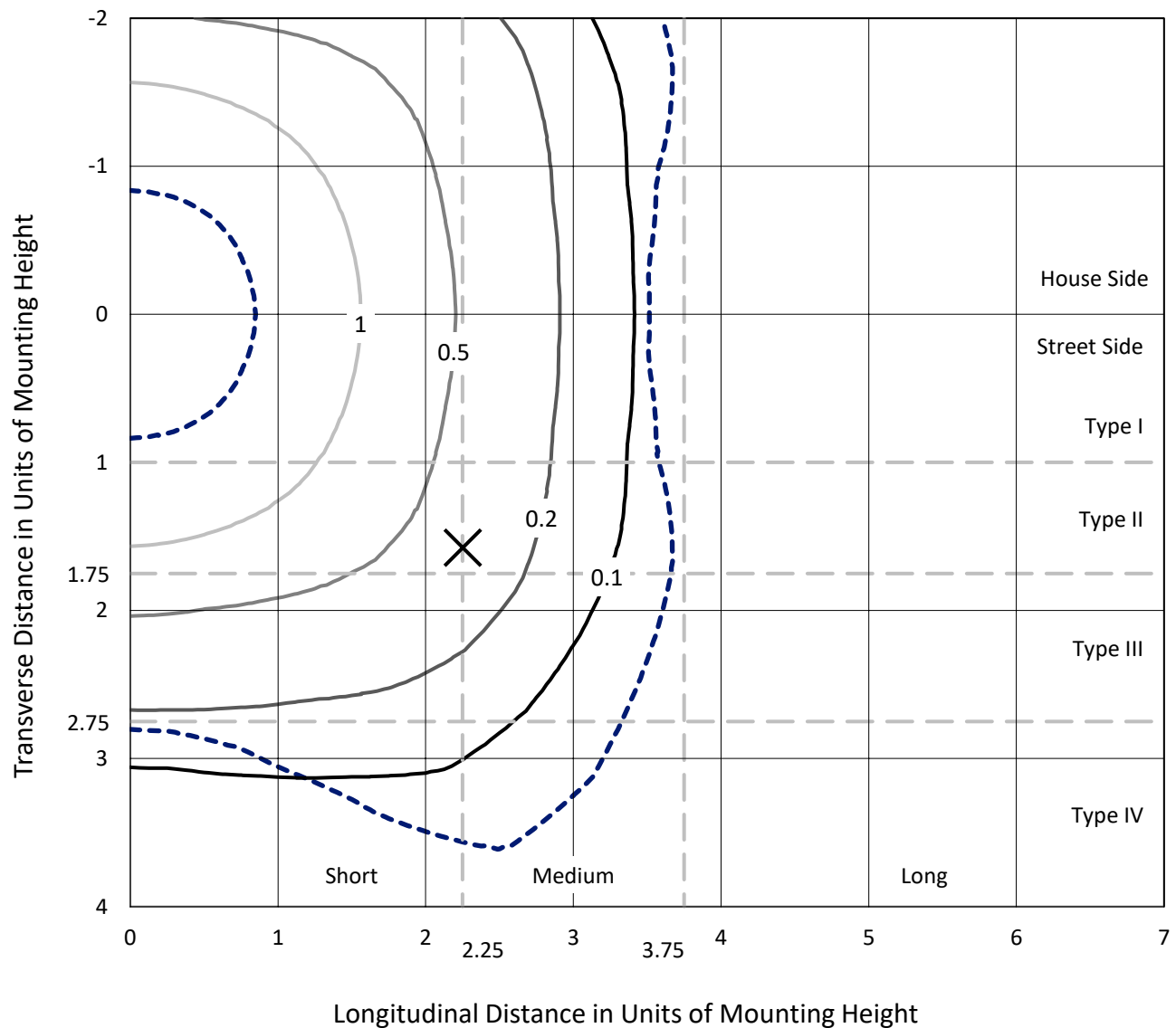


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Iso-Footcandle Lines of Horizontal Illumination

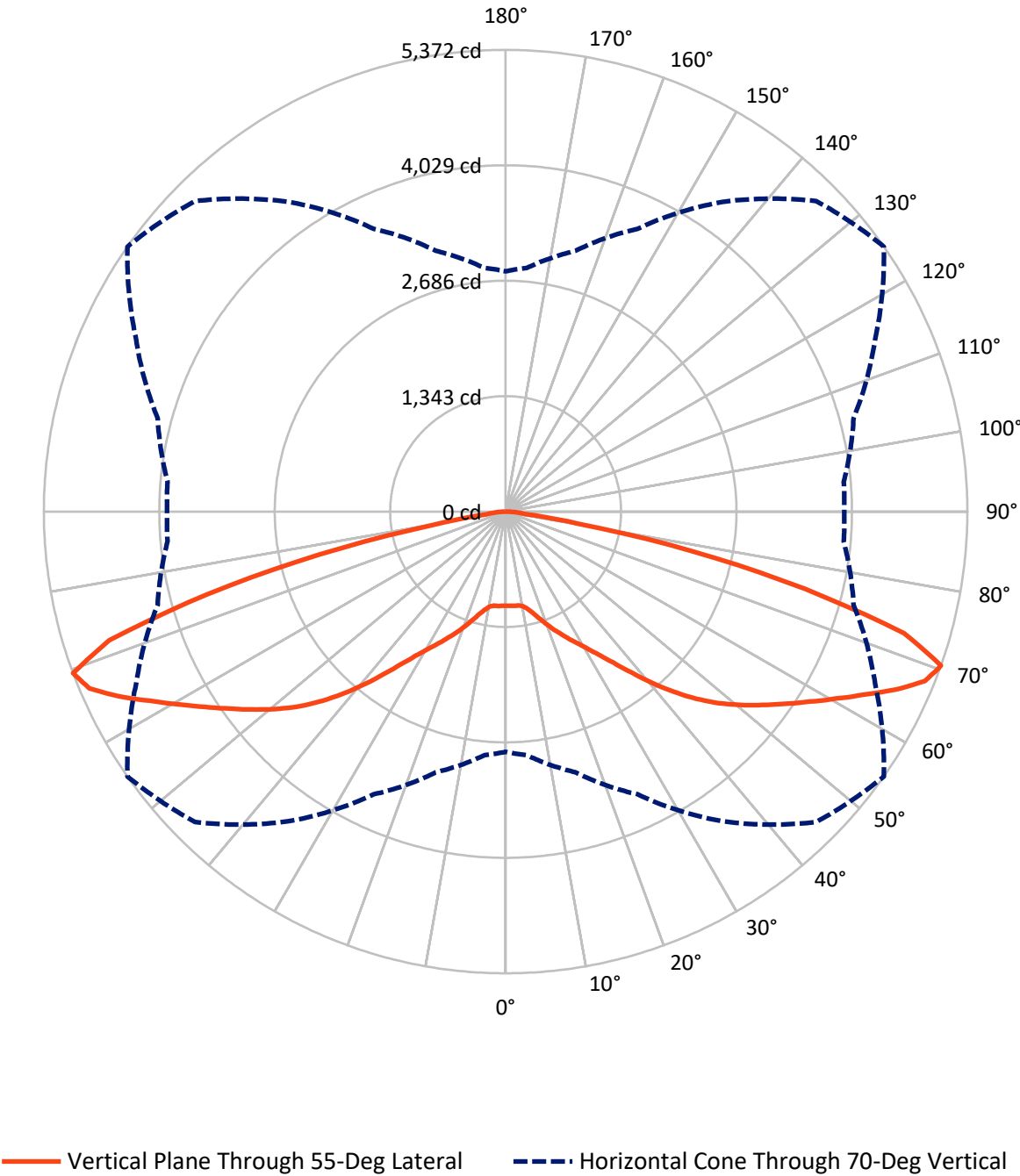
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	7866.0	0.0	7866.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7866.0	0.0	7866.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15732.0	0.0	15732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	0.7
10°-20°	360.3	2.3
20°-30°	748.7	4.8
30°-40°	1382.8	8.8
40°-50°	2429.3	15.4
50°-60°	3503.7	22.3
60°-70°	4288.1	27.3
70°-80°	2728.6	17.3
80°-90°	184.6	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°	15732.0	100.0
0°-180°	15732.0	100.0

Coefficient of Utilization



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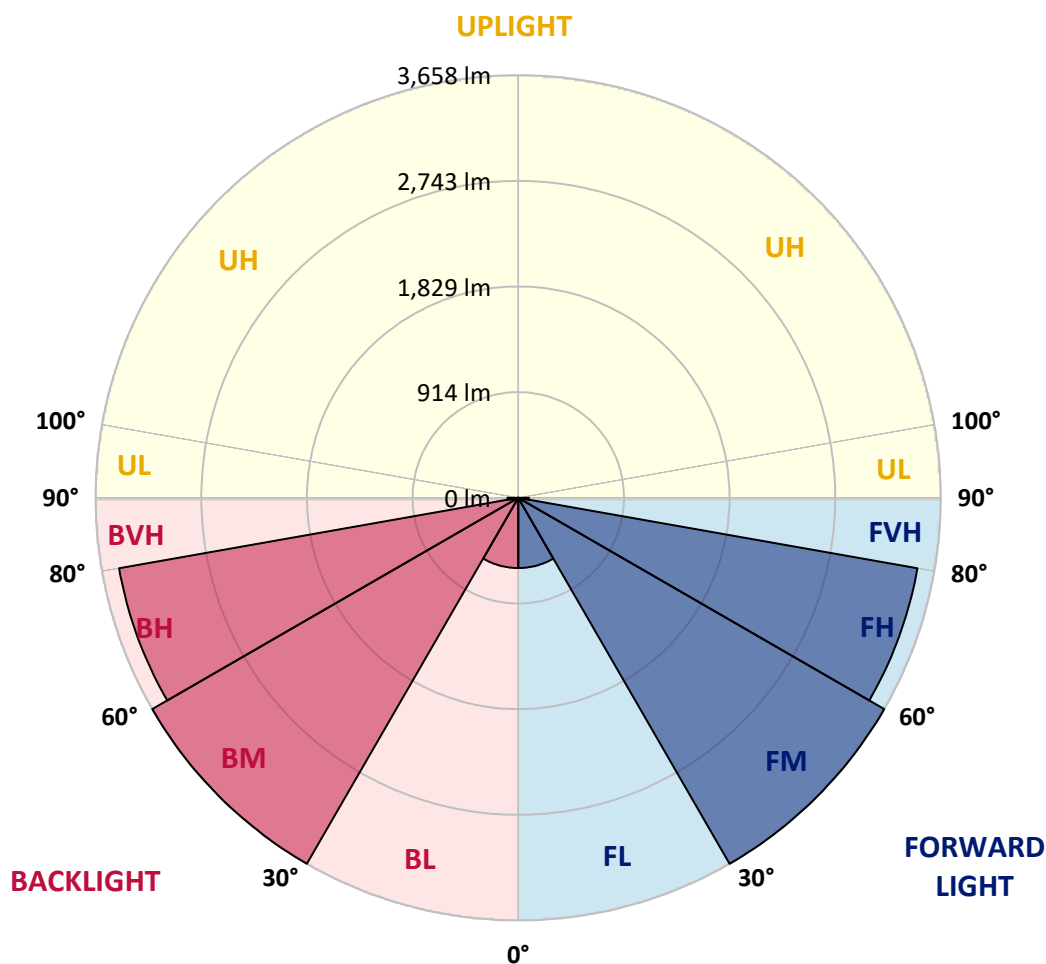
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	607.5	3.9			
FM	(30°-60°)	3657.9	23.3			
FH	(60°-80°)	3508.3	22.3			G2/5000
FVH	(80°-90°)	92.3	0.6			G1/100
BL	(0°-30°)	607.5	3.9	B2/1000		
BM	(30°-60°)	3657.9	23.3	B3/5000		
BH	(60°-80°)	3508.3	22.3	B4/5000		G2/5000
BVH	(80°-90°)	92.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7	1096.7
2.5°	1111.3	1111.3	1108.4	1108.4	1102.5	1099.6	1096.7	1096.7	1093.7	1093.7	1090.8
5°	1117.1	1117.1	1117.1	1114.2	1111.3	1108.4	1102.5	1096.7	1093.7	1090.8	1087.9
7.5°	1120.1	1120.1	1117.1	1117.1	1114.2	1111.3	1102.5	1093.7	1090.8	1087.9	1087.9
10°	1143.5	1140.5	1137.6	1131.8	1131.8	1131.8	1120.1	1111.3	1108.4	1108.4	1108.4
12.5°	1199.0	1196.1	1190.3	1181.5	1181.5	1184.4	1166.9	1155.2	1155.2	1152.2	1152.2
15°	1280.9	1278.0	1272.1	1257.5	1254.6	1260.4	1234.1	1222.4	1222.4	1222.4	1219.5
17.5°	1371.6	1365.7	1356.9	1345.2	1345.2	1345.2	1318.9	1304.3	1295.5	1295.5	1292.6
20°	1447.6	1444.7	1444.7	1441.8	1450.5	1450.5	1415.4	1392.0	1371.6	1359.9	1356.9
22.5°	1514.9	1511.9	1517.8	1529.5	1547.0	1552.9	1511.9	1476.8	1444.7	1421.3	1415.4
25°	1605.5	1602.6	1599.7	1617.2	1646.5	1655.2	1611.4	1567.5	1535.3	1523.6	1517.8
27.5°	1702.0	1705.0	1707.9	1725.4	1748.8	1763.4	1719.6	1678.6	1652.3	1634.8	1628.9
30°	1810.2	1816.1	1824.9	1851.2	1868.7	1874.6	1836.6	1807.3	1783.9	1769.3	1760.5
32.5°	1947.7	1959.4	1971.1	1994.5	2003.2	1997.4	1979.9	1959.4	1941.8	1921.4	1918.4
35°	2152.4	2164.1	2161.2	2169.9	2172.9	2167.0	2158.2	2146.5	2137.8	2111.5	2108.5
37.5°	2409.7	2421.4	2403.9	2395.1	2374.7	2377.6	2374.7	2383.4	2386.4	2360.0	2357.1
40°	2670.0	2681.7	2658.3	2634.9	2614.5	2605.7	2620.3	2649.6	2649.6	2632.0	2632.0
42.5°	2947.8	2956.6	2918.6	2889.4	2863.0	2857.2	2866.0	2901.1	2909.8	2906.9	2906.9
45°	3225.7	3219.8	3170.1	3140.9	3117.5	3102.8	3105.8	3132.1	3149.6	3158.4	3158.4
47.5°	3439.2	3430.4	3389.4	3366.0	3351.4	3330.9	3330.9	3345.6	3354.3	3357.3	3357.3
50°	3608.8	3600.0	3559.1	3556.1	3556.1	3547.4	3538.6	3535.7	3529.8	3532.7	3532.7
52.5°	3755.0	3743.3	3714.1	3719.9	3746.2	3752.1	3740.4	3717.0	3693.6	3684.8	3687.7
55°	3912.9	3895.4	3872.0	3889.5	3942.2	3965.6	3948.0	3901.2	3860.3	3834.0	3834.0
57.5°	4038.7	4018.2	4018.2	4067.9	4164.4	4211.2	4173.2	4085.5	4015.3	3986.0	3989.0
60°	3950.9	3933.4	4003.6	4222.9	4404.2	4483.2	4418.8	4263.8	4149.8	4114.7	4120.6
62.5°	3778.4	3766.7	3854.4	4193.7	4620.6	4784.4	4687.9	4465.6	4296.0	4255.1	4255.1
65°	3524.0	3521.0	3643.9	4062.1	4670.3	5073.9	4992.0	4685.0	4465.6	4410.1	4421.8
67.5°	3260.8	3260.8	3371.9	3836.9	4611.9	5196.7	5261.1	4883.8	4547.5	4410.1	4413.0
70°	2795.8	2845.5	3140.9	3629.2	4398.4	5109.0	5372.2	4743.5	4190.7	3948.0	3939.2
72.5°	1842.4	1906.7	2494.6	3266.6	4187.8	4790.2	4848.7	4167.3	3480.1	3196.4	3181.8
75°	1111.3	1166.9	1617.2	2550.1	3681.9	3857.3	3600.0	3266.6	2599.8	2377.6	2377.6
77.5°	327.5	365.6	745.7	1617.2	2547.2	2535.5	2219.7	1924.3	1538.3	1307.2	1324.8
80°	193.0	198.9	242.7	737.0	1055.7	1111.3	856.9	535.2	535.2	397.7	386.0
82.5°	149.1	149.1	155.0	184.2	254.4	283.7	216.4	184.2	210.6	178.4	169.6
85°	105.3	105.3	105.3	108.2	111.1	114.1	119.9	122.8	134.5	111.1	105.3
87.5°	32.2	35.1	38.0	43.9	52.6	55.6	58.5	52.6	52.6	49.7	46.8
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)