

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: P265976

Luminaire Tested: **ARCH-AF24-90-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265976
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-AF24-90-D-U-5WQ-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8714.6 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 94
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

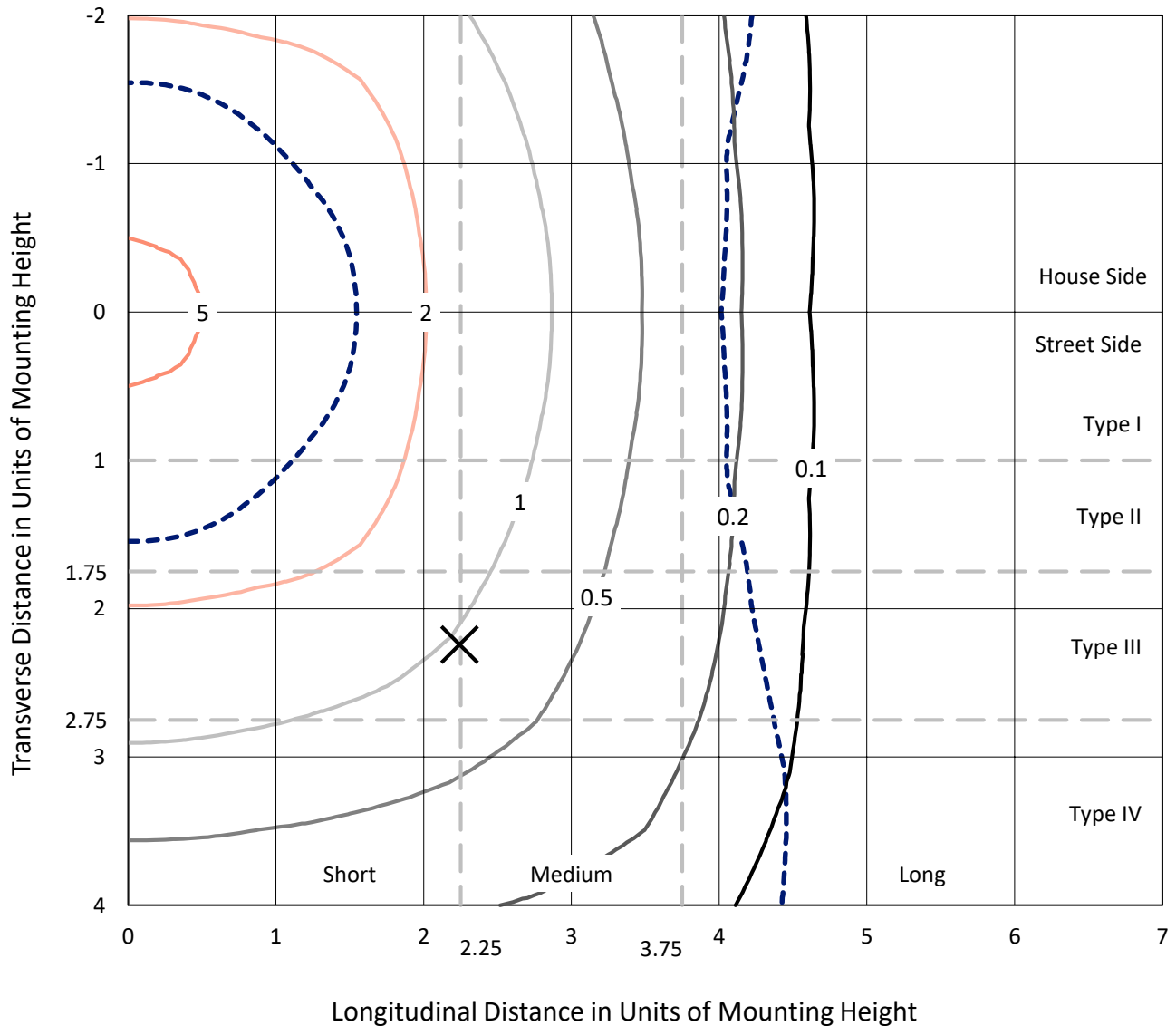


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

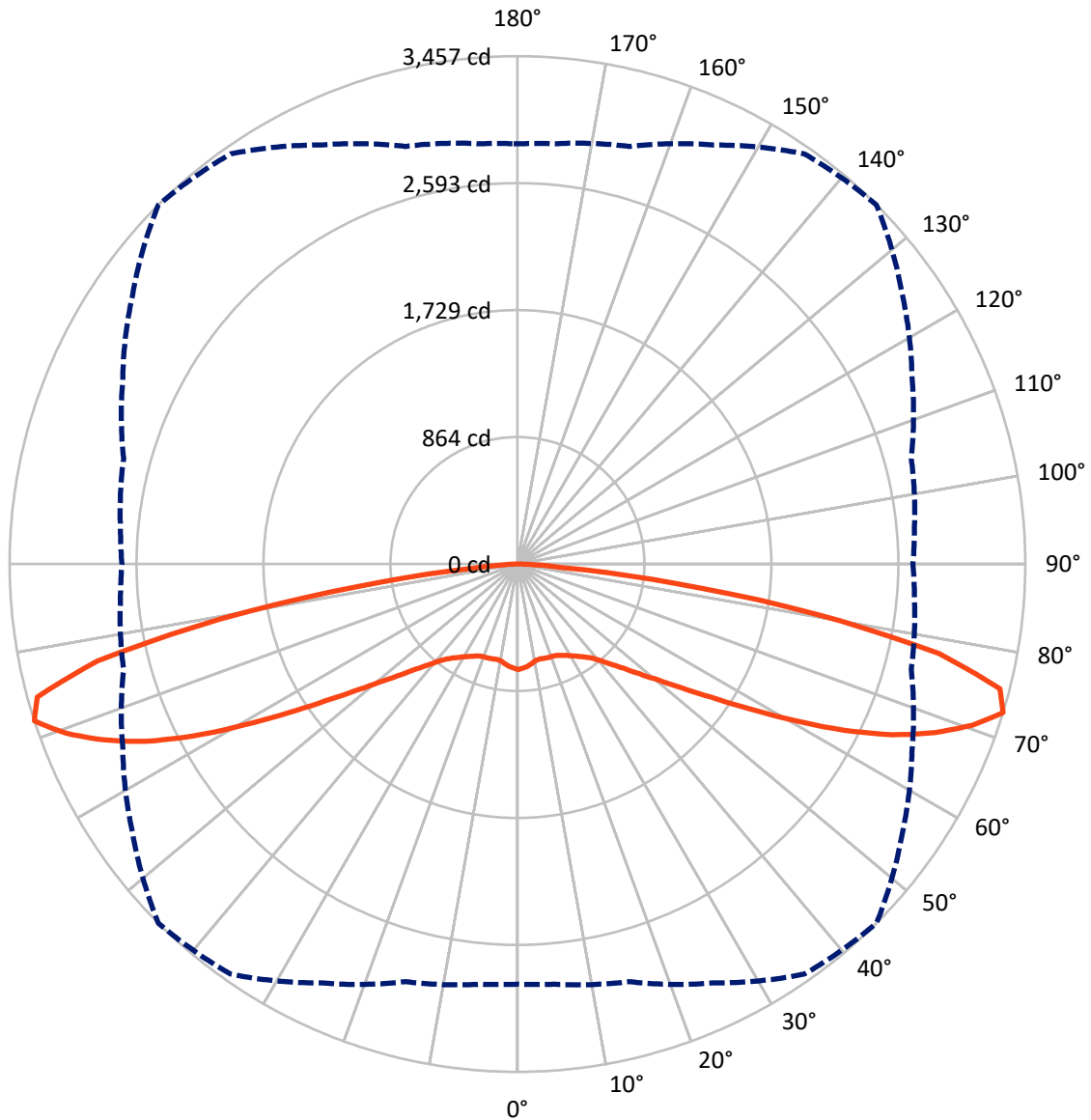


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - Non-Cutoff

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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	4357.3	0.0	4357.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4357.3	0.0	4357.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8714.6	0.0	8714.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	0.8
10°-20°	190.7	2.2
20°-30°	319.1	3.7
30°-40°	490.3	5.6
40°-50°	811.8	9.3
50°-60°	1443.3	16.6
60°-70°	2525.0	29.0
70°-80°	2569.0	29.5
80°-90°	299.1	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°	8714.6	100.0
0°-180°	8714.6	100.0



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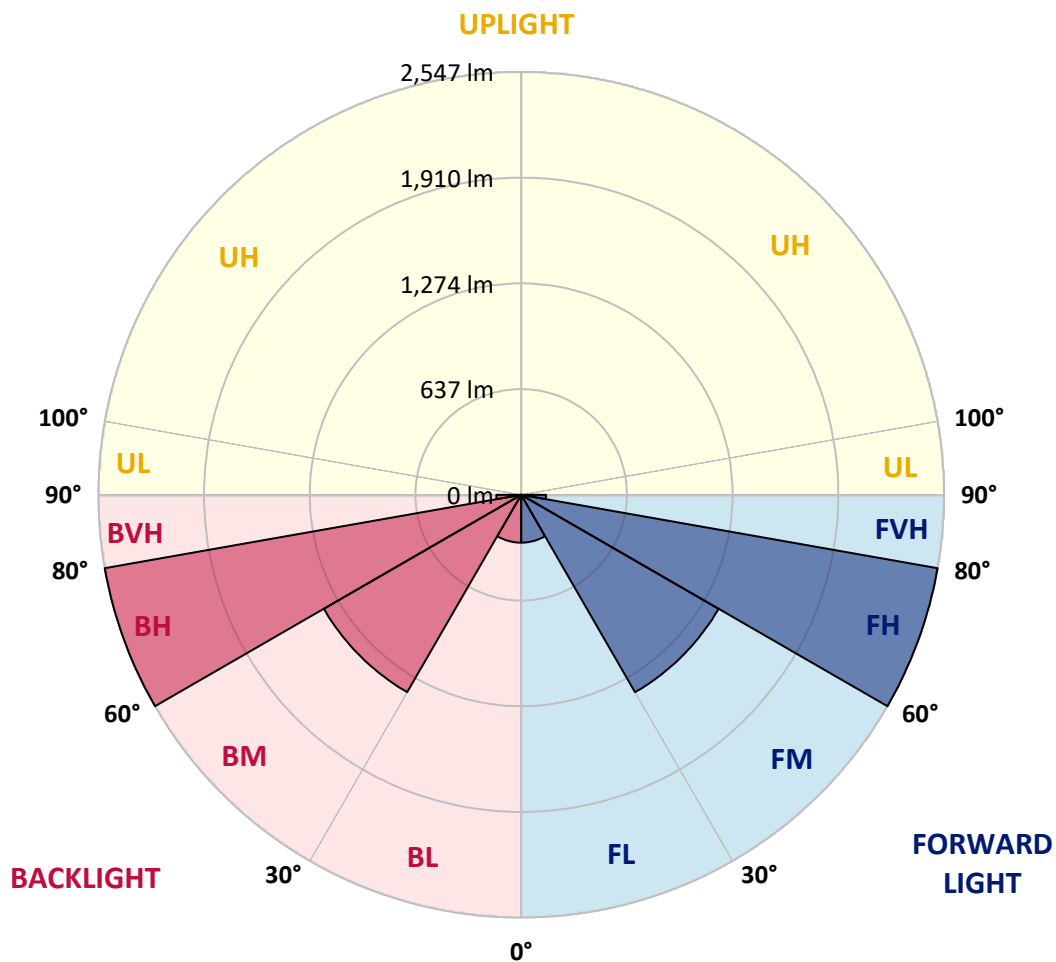
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.0	3.3			
FM	(30°-60°)	1372.7	15.8			
FH	(60°-80°)	2547.0	29.2			G2/5000
FVH	(80°-90°)	149.6	1.7			G2/225
BL	(0°-30°)	288.0	3.3	B1/500		
BM	(30°-60°)	1372.7	15.8	B2/2500		
BH	(60°-80°)	2547.0	29.2	B4/5000		G2/5000
BVH	(80°-90°)	149.6	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°	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3	718.3
2.5°	711.6	713.3	710.0	710.0	710.0	708.4	710.0	708.4	710.0	711.6	711.6
5°	705.0	705.0	701.7	701.7	701.7	700.0	701.7	701.7	703.4	705.0	705.0
7.5°	690.1	690.1	688.5	686.8	685.0	685.0	686.8	686.8	688.5	690.1	690.1
10°	681.9	680.1	676.9	671.8	670.1	668.5	671.8	675.2	680.1	685.0	683.4
12.5°	678.5	676.9	670.1	665.3	662.0	663.6	666.8	670.1	678.5	683.4	681.9
15°	681.9	678.5	670.1	662.0	663.6	666.8	670.1	670.1	680.1	685.0	685.0
17.5°	681.9	680.1	670.1	663.6	665.3	670.1	671.8	670.1	678.5	686.8	686.8
20°	683.4	683.4	670.1	665.3	666.8	671.8	673.5	671.8	678.5	688.5	688.5
22.5°	686.8	685.0	671.8	668.5	671.8	675.2	676.9	675.2	681.9	690.1	691.8
25°	693.4	690.1	678.5	676.9	683.4	688.5	688.5	685.0	688.5	696.7	696.7
27.5°	701.7	700.0	686.8	686.8	695.1	705.0	700.0	693.4	696.7	705.0	705.0
30°	716.6	715.1	701.7	701.7	713.3	724.9	713.3	705.0	710.0	718.3	719.9
32.5°	738.1	738.1	726.5	723.2	743.2	748.2	743.2	726.5	730.0	741.6	741.6
35°	774.7	771.4	759.7	758.1	778.0	776.3	774.7	759.7	763.1	776.3	776.3
37.5°	822.8	821.1	811.2	806.1	816.2	809.6	812.8	806.1	814.6	824.5	826.1
40°	884.2	882.6	874.2	867.6	870.8	860.9	864.3	867.6	875.8	882.6	884.2
42.5°	960.5	960.5	952.2	940.5	935.6	930.6	930.6	937.2	945.6	953.8	953.8
45°	1055.0	1055.0	1045.1	1033.5	1018.6	1010.2	1013.6	1020.1	1030.1	1040.1	1043.4
47.5°	1166.2	1166.2	1153.0	1141.2	1126.4	1116.5	1116.5	1119.7	1134.6	1143.0	1147.9
50°	1290.5	1285.7	1272.3	1260.7	1252.4	1239.1	1240.7	1239.1	1252.4	1264.0	1267.4
52.5°	1420.0	1418.3	1405.0	1401.7	1406.7	1400.1	1400.1	1383.5	1388.5	1395.1	1393.5
55°	1580.8	1575.8	1564.3	1571.0	1590.9	1600.8	1597.5	1571.0	1556.0	1559.3	1557.8
57.5°	1756.7	1751.8	1748.5	1768.4	1813.0	1854.6	1846.2	1784.9	1756.7	1758.4	1760.0
60°	1935.8	1935.8	1945.8	1995.7	2091.9	2159.9	2134.9	2032.1	1982.3	1972.4	1969.1
62.5°	2120.0	2125.0	2146.6	2229.6	2377.2	2489.9	2427.0	2280.9	2206.2	2186.4	2179.7
65°	2333.9	2338.9	2370.4	2473.4	2669.1	2803.5	2695.6	2558.0	2453.5	2411.9	2405.3
67.5°	2644.3	2647.6	2672.4	2771.9	2956.1	3063.8	2952.8	2830.0	2717.3	2669.1	2665.8
70°	2922.8	2926.1	2947.8	3078.9	3248.0	3286.2	3163.4	3007.4	2889.7	2851.6	2844.9
72.5°	2859.8	2871.5	2942.8	3146.9	3407.4	3457.0	3198.2	2964.3	2775.3	2712.3	2692.3
75°	2398.7	2417.0	2529.7	2836.7	3251.3	3392.4	2992.6	2563.0	2280.9	2159.9	2128.4
77.5°	1400.1	1468.1	1662.1	2055.3	2647.6	2934.6	2465.0	1876.2	1401.7	1202.7	1136.4
80°	383.1	419.7	560.7	945.6	1660.4	2055.3	1572.7	860.9	464.5	348.4	323.5
82.5°	121.1	160.8	204.1	272.0	651.9	1083.3	583.9	253.9	199.1	164.2	146.0
85°	64.7	69.7	114.4	132.7	195.7	303.5	180.7	132.7	119.5	87.9	83.0
87.5°	33.1	34.9	64.7	64.7	86.2	71.3	78.0	71.3	68.0	43.1	38.2
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)