

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: P397769

Luminaire Tested: **ARCH-S-PA1-40-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-40-740-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6234 lumens
Efficiency: N/A
Efficacy: 155.8 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): 40
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

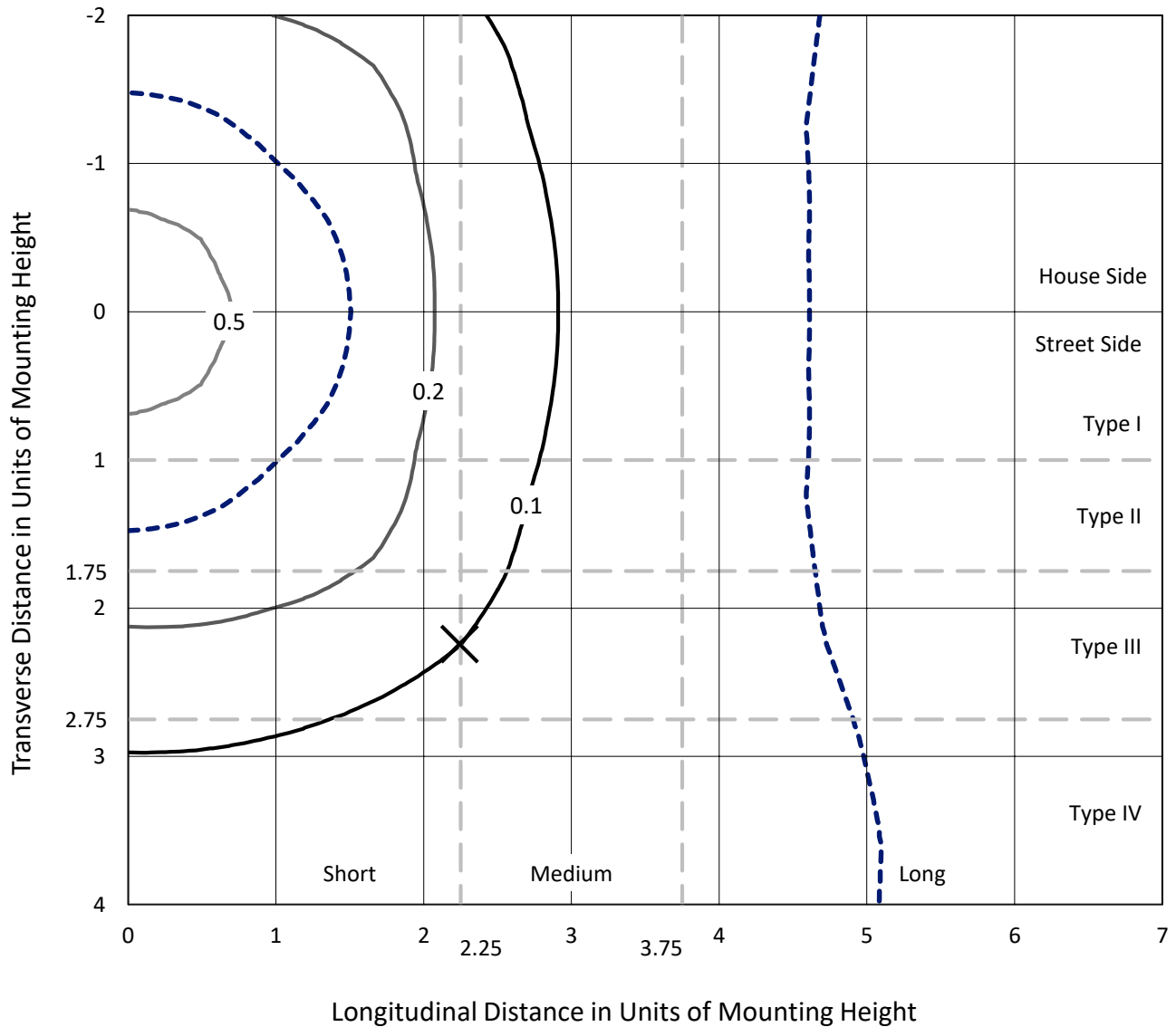


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

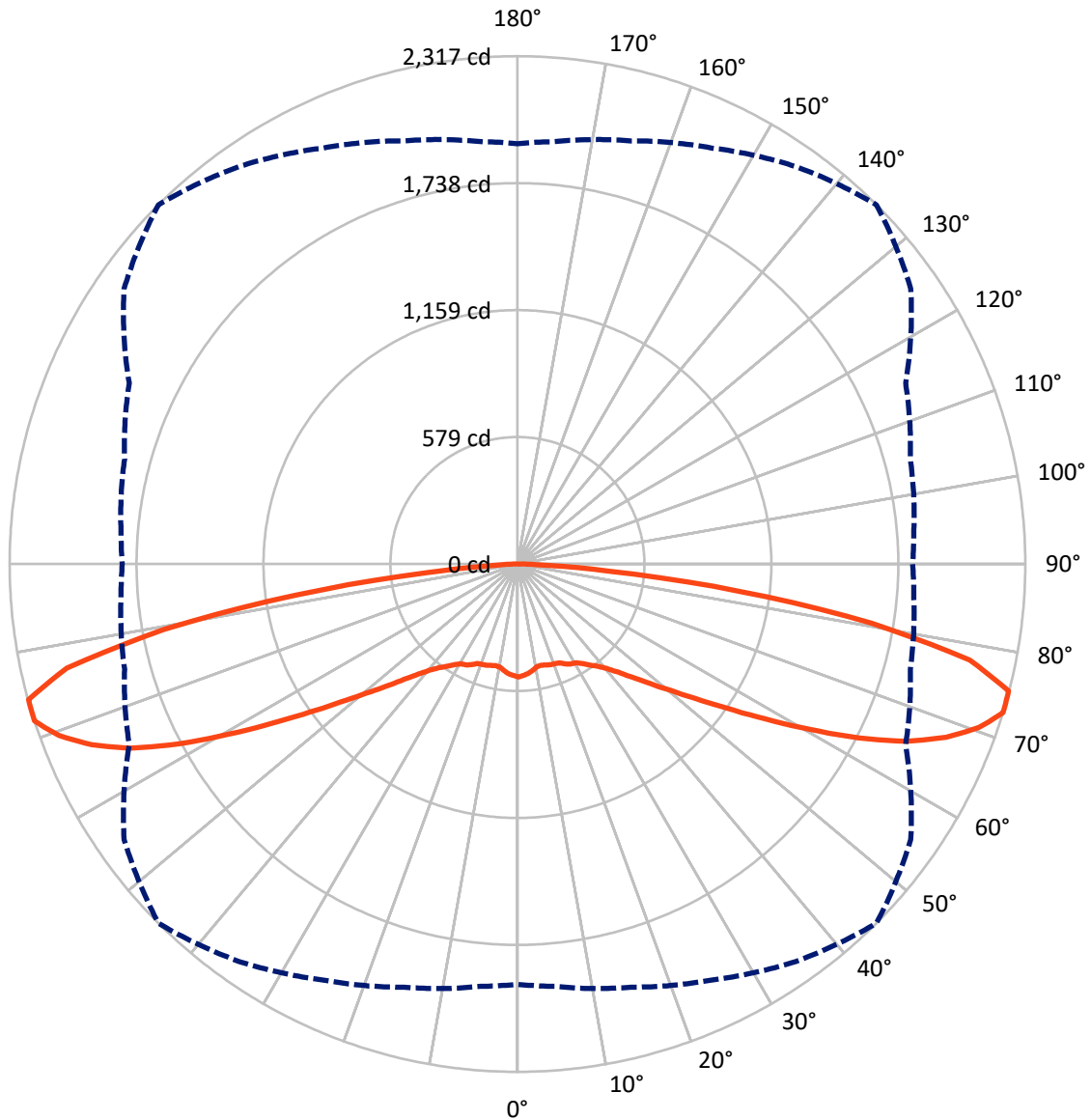


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - Non-Cutoff

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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	3117.0	0.0	3117.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3117.0	0.0	3117.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6234.0	0.0	6234.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	0.8
10°-20°	137.3	2.2
20°-30°	233.3	3.7
30°-40°	355.9	5.7
40°-50°	586.0	9.4
50°-60°	1023.3	16.4
60°-70°	1715.5	27.5
70°-80°	1836.0	29.5
80°-90°	299.4	4.8
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°	6234.0	100.0
0°-180°	6234.0	100.0



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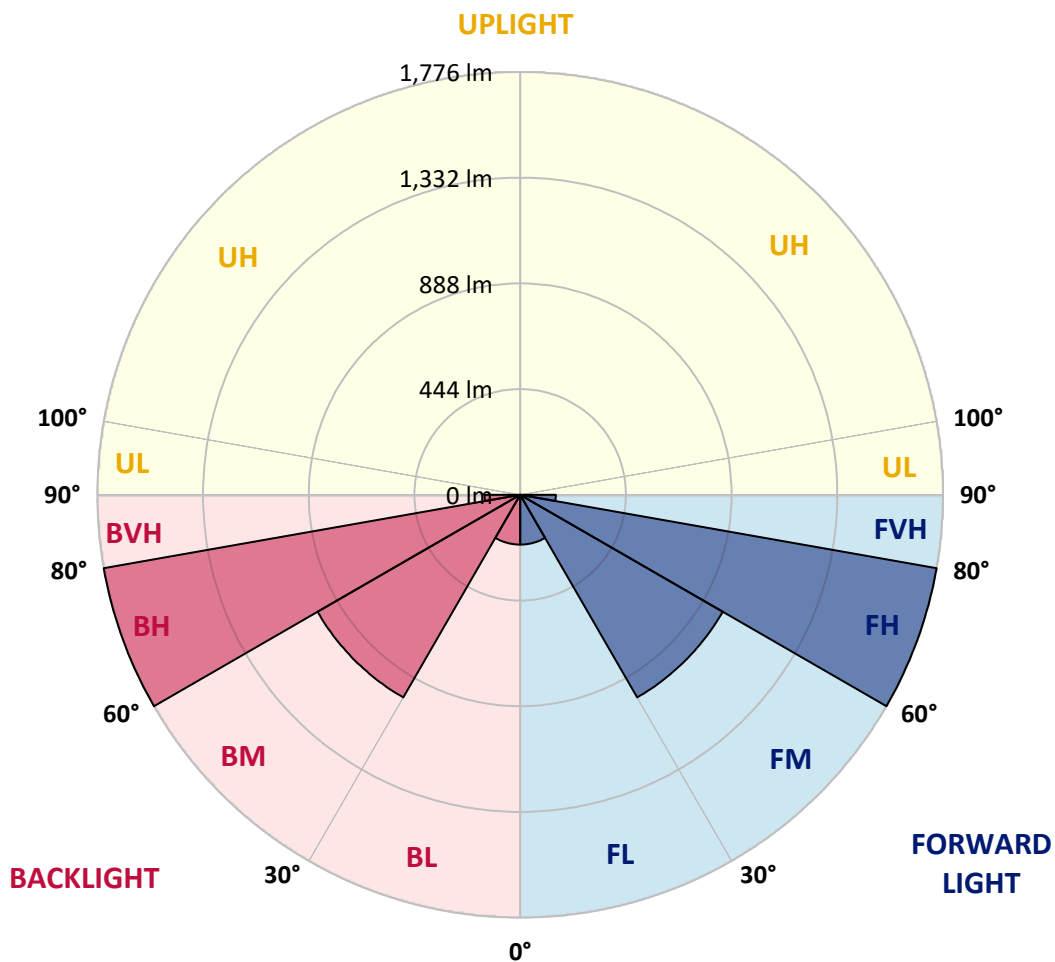
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	209.0	3.4			
FM (30°-60°)	982.6	15.8			
FH (60°-80°)	1775.8	28.5			G1/1800
FVH (80°-90°)	149.7	2.4			G2/225
BL (0°-30°)	209.0	3.4	B1/500		
BM (30°-60°)	982.6	15.8	B1/1000		
BH (60°-80°)	1775.8	28.5	B3/2500		G1/1800
BVH (80°-90°)	149.7	2.4			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°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9	515.9
2.5°	512.7	512.7	512.7	511.9	510.3	509.5	507.9	508.7	508.7	508.7	508.7
5°	506.3	506.3	505.5	504.7	503.1	502.3	500.7	502.3	502.3	502.3	502.3
7.5°	494.4	495.2	495.2	494.4	492.0	491.2	488.8	489.6	489.6	490.4	489.6
10°	488.0	488.0	487.2	483.2	479.2	477.7	476.9	479.2	481.6	484.0	484.0
12.5°	488.0	488.0	486.4	480.0	474.5	474.5	474.5	477.7	482.4	487.2	488.0
15°	490.4	490.4	487.2	480.0	476.9	477.7	477.7	480.8	486.4	492.8	493.6
17.5°	492.0	492.0	488.0	480.8	480.8	483.2	481.6	484.0	489.6	496.8	497.6
20°	494.4	494.4	488.8	483.2	483.2	485.6	485.6	488.0	492.8	499.9	500.7
22.5°	499.2	498.4	492.8	488.0	488.0	489.6	491.2	494.4	498.4	504.7	506.3
25°	504.7	504.7	499.9	499.2	500.7	504.7	503.9	503.1	504.7	510.3	512.7
27.5°	507.9	507.9	504.7	507.1	513.5	516.7	512.7	509.5	509.5	515.1	515.9
30°	518.3	517.5	514.3	515.9	521.4	523.0	520.6	516.7	519.1	525.4	526.2
32.5°	535.8	535.8	531.0	531.0	535.0	541.3	533.4	531.0	534.2	541.3	542.1
35°	562.8	562.8	556.5	553.3	556.5	565.2	553.3	552.5	558.1	566.0	566.8
37.5°	597.1	597.1	593.1	585.1	585.9	591.5	581.2	580.4	590.7	599.5	599.5
40°	640.1	642.4	638.5	628.9	625.7	626.5	618.6	619.4	631.3	641.7	641.7
42.5°	693.4	695.0	688.6	681.5	677.5	675.1	667.1	668.7	683.1	696.6	696.6
45°	757.9	758.7	752.3	743.6	738.8	737.2	729.2	733.2	749.1	763.5	762.7
47.5°	830.3	831.1	824.8	816.0	812.8	815.2	807.2	807.2	821.6	833.5	831.9
50°	912.3	913.9	906.8	902.8	900.4	906.8	897.2	888.4	898.0	909.9	908.3
52.5°	1003.1	1007.1	1002.3	1003.9	1012.6	1020.6	1004.7	985.6	990.3	998.3	995.9
55°	1112.9	1117.7	1119.3	1124.9	1148.0	1161.5	1135.2	1103.4	1101.0	1101.8	1097.8
57.5°	1236.3	1239.5	1249.9	1262.6	1310.4	1331.9	1290.5	1235.5	1218.0	1207.7	1205.3
60°	1360.5	1366.1	1391.6	1417.8	1491.1	1530.1	1466.4	1374.1	1336.6	1317.5	1313.6
62.5°	1485.5	1496.7	1538.1	1582.6	1689.3	1747.4	1649.5	1515.8	1461.6	1437.7	1431.4
65°	1630.4	1643.9	1694.1	1750.6	1869.2	1951.2	1832.6	1662.2	1604.1	1572.3	1564.3
67.5°	1800.0	1814.3	1854.9	1917.8	2030.0	2110.5	2005.4	1811.9	1736.3	1695.7	1689.3
70°	1939.3	1952.0	1995.8	2059.5	2143.1	2234.6	2134.3	1931.3	1862.9	1834.2	1830.2
72.5°	1917.8	1934.5	1999.0	2094.5	2213.9	2317.4	2190.9	1954.4	1855.7	1815.9	1803.2
75°	1675.0	1693.3	1769.7	1942.5	2160.6	2315.0	2108.9	1800.8	1684.5	1651.1	1644.7
77.5°	1109.0	1126.5	1255.4	1527.7	1886.7	2109.7	1861.3	1508.6	1321.5	1241.1	1236.3
80°	448.2	470.5	593.9	882.9	1337.4	1640.0	1380.4	965.7	651.2	525.4	499.9
82.5°	104.3	124.2	180.7	325.6	684.6	1021.4	744.4	360.6	209.4	148.9	133.7
85°	43.8	44.6	77.2	105.9	214.1	412.4	243.6	131.4	106.7	78.0	76.4
87.5°	16.7	17.5	37.4	44.6	68.5	78.0	82.8	67.7	62.9	39.0	37.4
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)