

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: P214516

Luminaire Tested: **ARCH-AF16-60-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214516
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-AF16-60-D-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6993.9 lumens
Efficiency: N/A
Efficacy: 111.0 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): 63
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

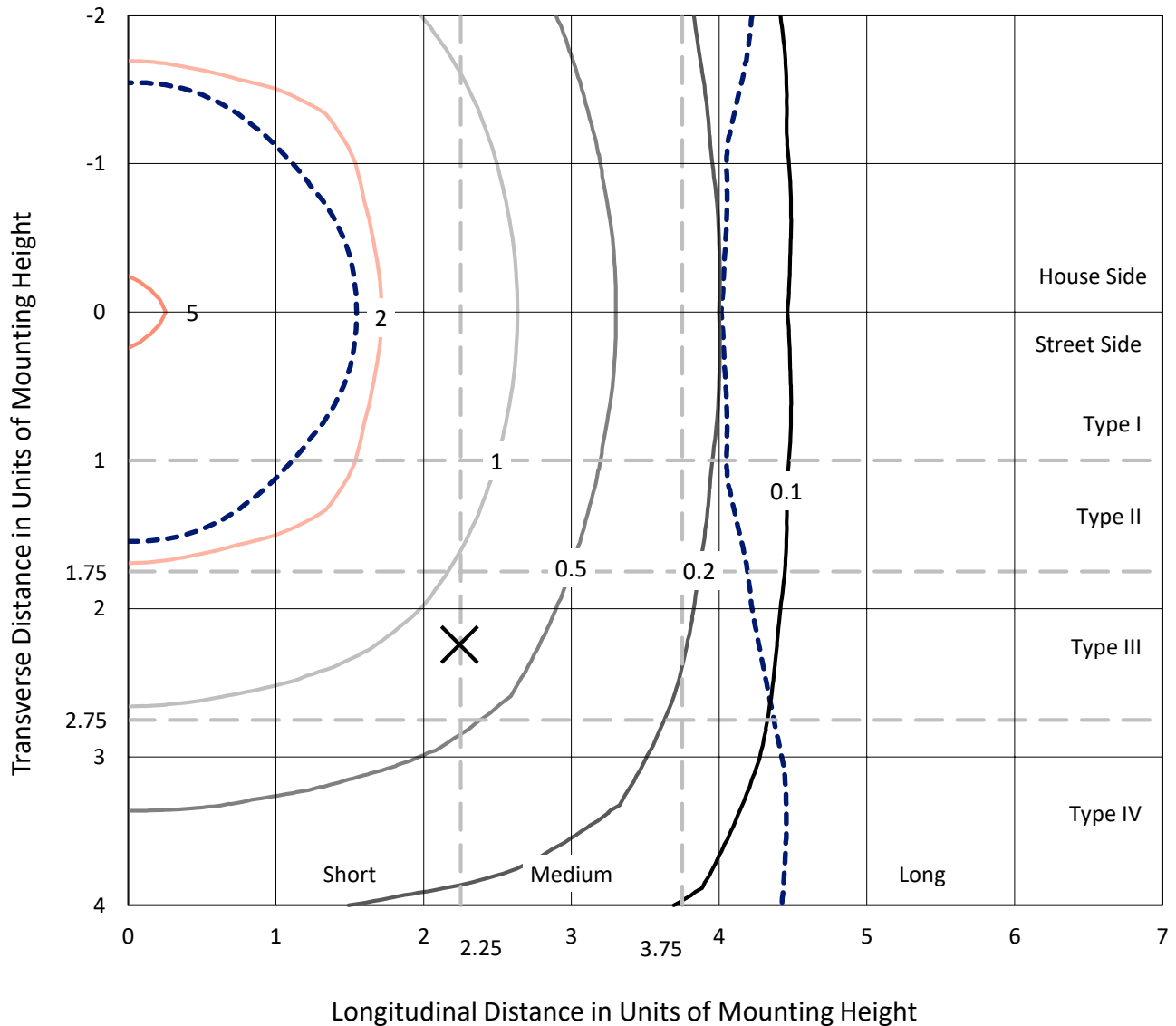


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

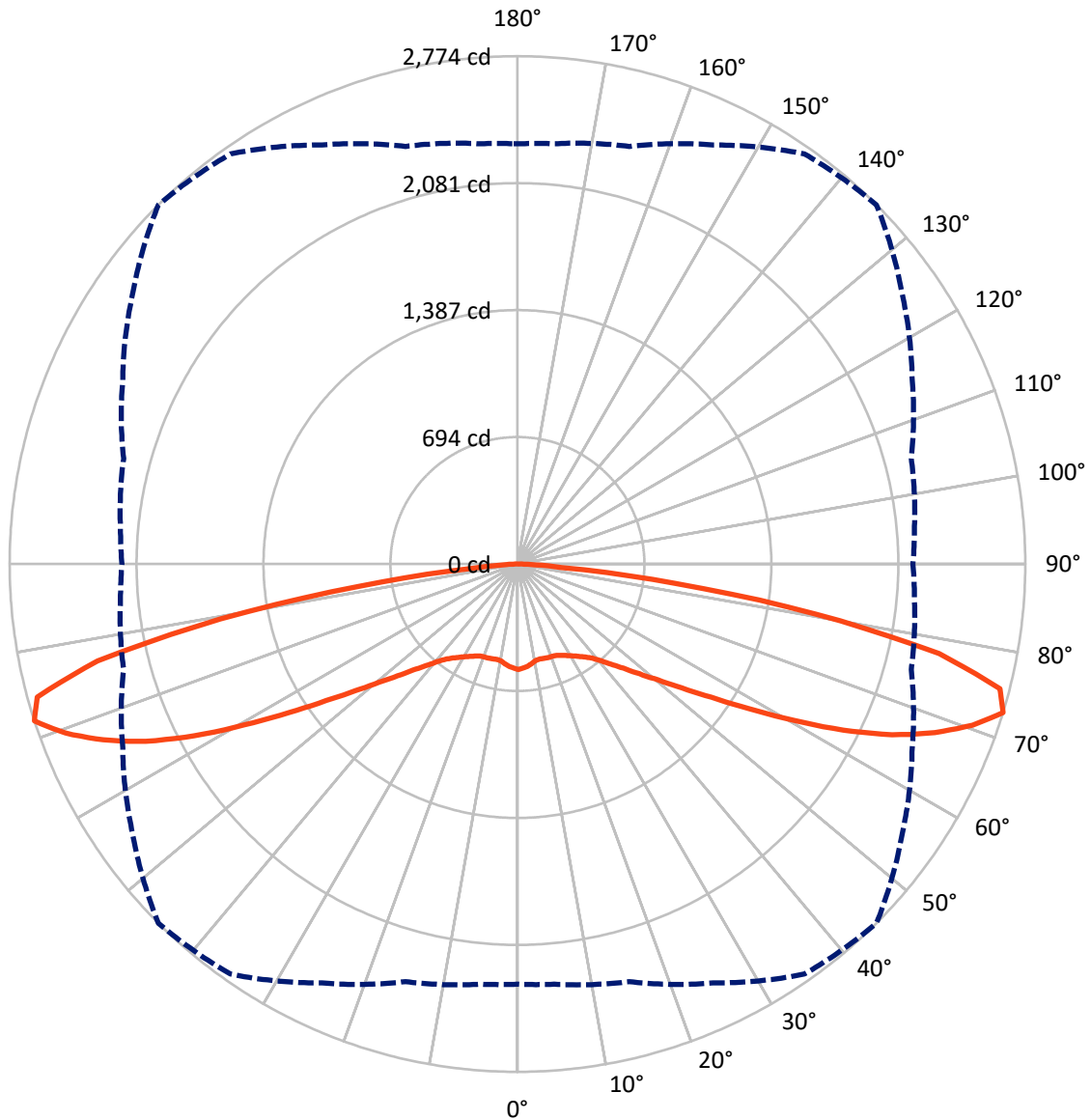


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Non-Cutoff

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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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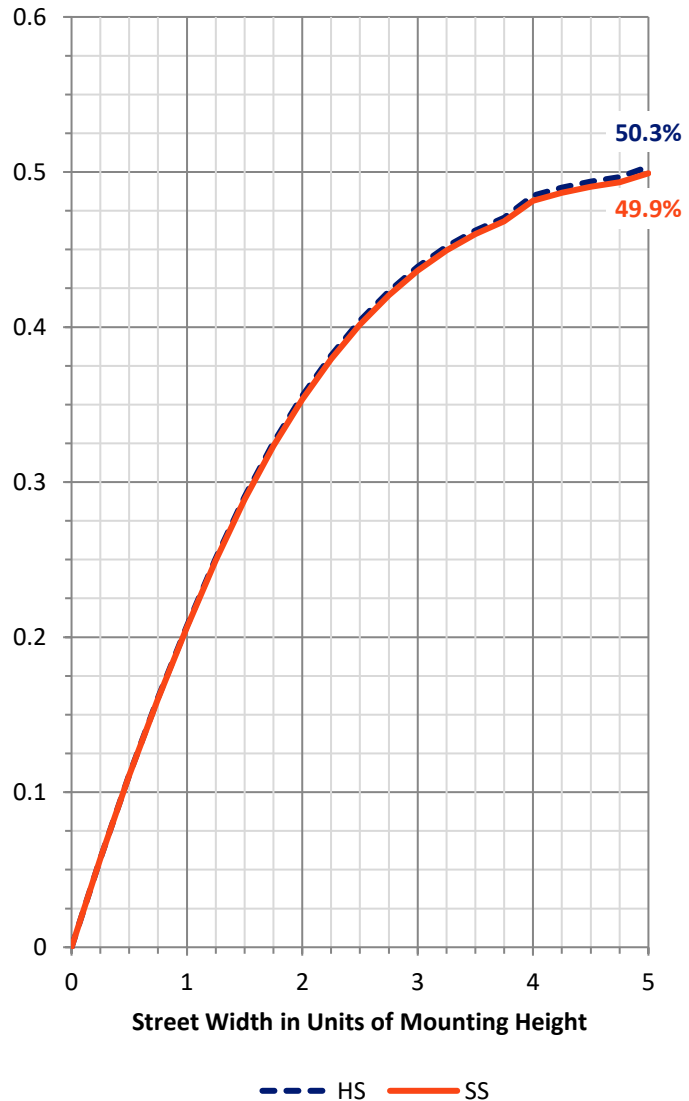
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3497.0	0.0	3497.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3497.0	0.0	3497.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6993.9	0.0	6993.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	0.8
10°-20°	153.0	2.2
20°-30°	256.1	3.7
30°-40°	393.5	5.6
40°-50°	651.6	9.3
50°-60°	1158.3	16.6
60°-70°	2026.5	29.0
70°-80°	2061.8	29.5
80°-90°	240.1	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°	6993.9	100.0
0°-180°	6993.9	100.0

Coefficient of Utilization



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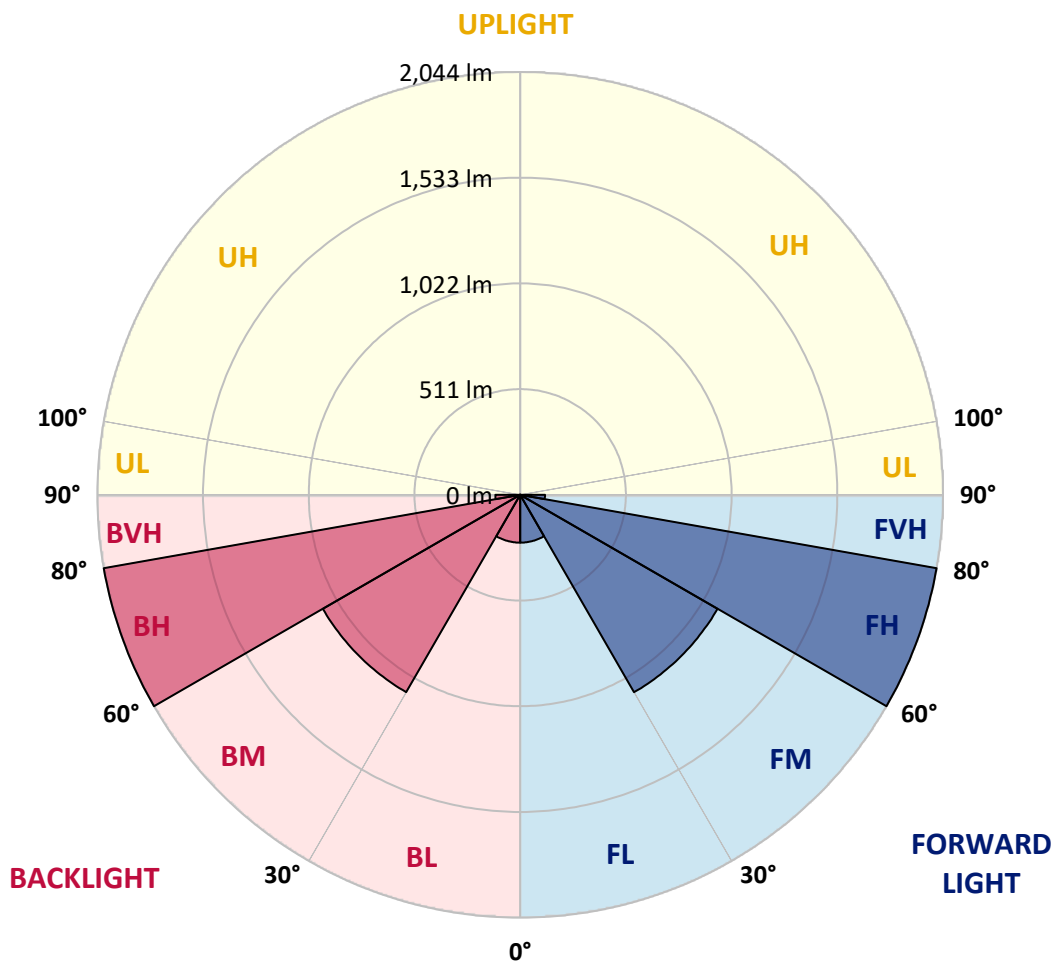
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.1	3.3			
FM (30°-60°)	1101.7	15.8			
FH (60°-80°)	2044.1	29.2			G2/5000
FVH (80°-90°)	120.1	1.7			G2/225
BL (0°-30°)	231.1	3.3	B1/500		
BM (30°-60°)	1101.7	15.8	B2/2500		
BH (60°-80°)	2044.1	29.2	B3/2500		G2/5000
BVH (80°-90°)	120.1	1.7			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°	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4	576.4
2.5°	571.1	572.4	569.8	569.8	569.8	568.5	569.8	568.5	569.8	571.1	571.1
5°	565.8	565.8	563.1	563.1	563.1	561.8	563.1	563.1	564.5	565.8	565.8
7.5°	553.8	553.8	552.5	551.2	549.8	549.8	551.2	551.2	552.5	553.8	553.8
10°	547.2	545.8	543.2	539.2	537.9	536.5	539.2	541.9	545.8	549.8	548.5
12.5°	544.5	543.2	537.9	533.9	531.2	532.5	537.9	537.9	544.5	548.5	547.2
15°	547.2	544.5	537.9	531.2	532.5	537.9	537.9	537.9	545.8	549.8	549.8
17.5°	547.2	545.8	537.9	532.5	533.9	537.9	539.2	537.9	544.5	551.2	551.2
20°	548.5	548.5	537.9	533.9	535.2	539.2	540.5	539.2	544.5	552.5	552.5
22.5°	551.2	549.8	539.2	536.5	539.2	541.9	543.2	541.9	547.2	553.8	555.2
25°	556.5	553.8	544.5	543.2	548.5	552.5	552.5	549.8	552.5	559.1	559.1
27.5°	563.1	561.8	551.2	551.2	557.8	565.8	561.8	556.5	559.1	565.8	565.8
30°	575.1	573.8	563.1	563.1	572.4	581.8	572.4	565.8	569.8	576.4	577.8
32.5°	592.4	592.4	583.1	580.4	596.4	600.5	596.4	583.1	585.7	595.1	595.1
35°	621.7	619.1	609.8	608.5	624.4	623.1	621.7	609.8	612.4	623.1	623.1
37.5°	660.3	659.0	651.0	647.0	655.0	649.7	652.3	647.0	653.7	661.6	663.0
40°	709.6	708.3	701.6	696.3	699.0	691.0	693.7	696.3	703.0	708.3	709.6
42.5°	770.8	770.8	764.1	754.8	750.8	746.9	746.9	752.2	758.8	765.5	765.5
45°	846.7	846.7	838.7	829.4	817.4	810.8	813.5	818.8	826.7	834.7	837.4
47.5°	935.9	935.9	925.3	916.0	904.0	896.0	896.0	898.7	910.6	917.3	921.3
50°	1035.7	1031.7	1021.1	1011.8	1005.2	994.5	995.8	994.5	1005.2	1014.5	1017.1
52.5°	1139.6	1138.2	1127.6	1124.9	1128.9	1123.6	1123.6	1110.3	1114.3	1119.6	1118.3
55°	1268.8	1264.8	1255.5	1260.8	1276.7	1284.7	1282.1	1260.8	1248.8	1251.5	1250.1
57.5°	1409.8	1405.8	1403.2	1419.1	1455.1	1488.4	1481.7	1432.5	1409.8	1411.2	1412.5
60°	1553.7	1553.7	1561.6	1601.5	1678.8	1733.4	1713.4	1630.9	1590.9	1582.9	1580.3
62.5°	1701.5	1705.5	1722.8	1789.2	1907.8	1998.3	1947.7	1830.6	1770.6	1754.7	1749.3
65°	1873.1	1877.1	1902.5	1985.0	2142.1	2249.9	2163.4	2052.9	1969.0	1935.7	1930.4
67.5°	2122.1	2124.8	2144.7	2224.6	2372.4	2459.0	2369.8	2271.3	2180.7	2142.1	2139.4
70°	2345.8	2348.5	2365.8	2470.9	2606.7	2637.4	2538.9	2413.7	2319.1	2288.5	2283.2
72.5°	2295.2	2304.5	2361.8	2525.5	2734.6	2774.4	2566.8	2379.1	2227.3	2176.7	2160.8
75°	1925.1	1939.7	2030.3	2276.6	2609.3	2722.6	2401.7	2056.8	1830.6	1733.4	1708.1
77.5°	1123.6	1178.2	1334.0	1649.5	2124.8	2355.1	1978.4	1505.7	1124.9	965.3	912.0
80°	307.5	336.9	450.0	758.8	1332.7	1649.5	1262.1	691.0	372.8	279.6	259.6
82.5°	97.2	129.1	163.8	218.3	523.2	869.3	468.6	203.7	159.8	131.8	117.1
85°	52.0	56.0	91.9	106.5	157.1	243.7	145.2	106.5	95.9	70.6	66.6
87.5°	26.6	27.9	52.0	52.0	69.3	57.3	62.6	57.3	54.6	34.6	30.6
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)