

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: P265904

Luminaire Tested: **ARCH-AF16-60-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265904
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-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 5939.9 lumens
Efficiency: N/A
Efficacy: 94.3 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 (A_{in}): 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

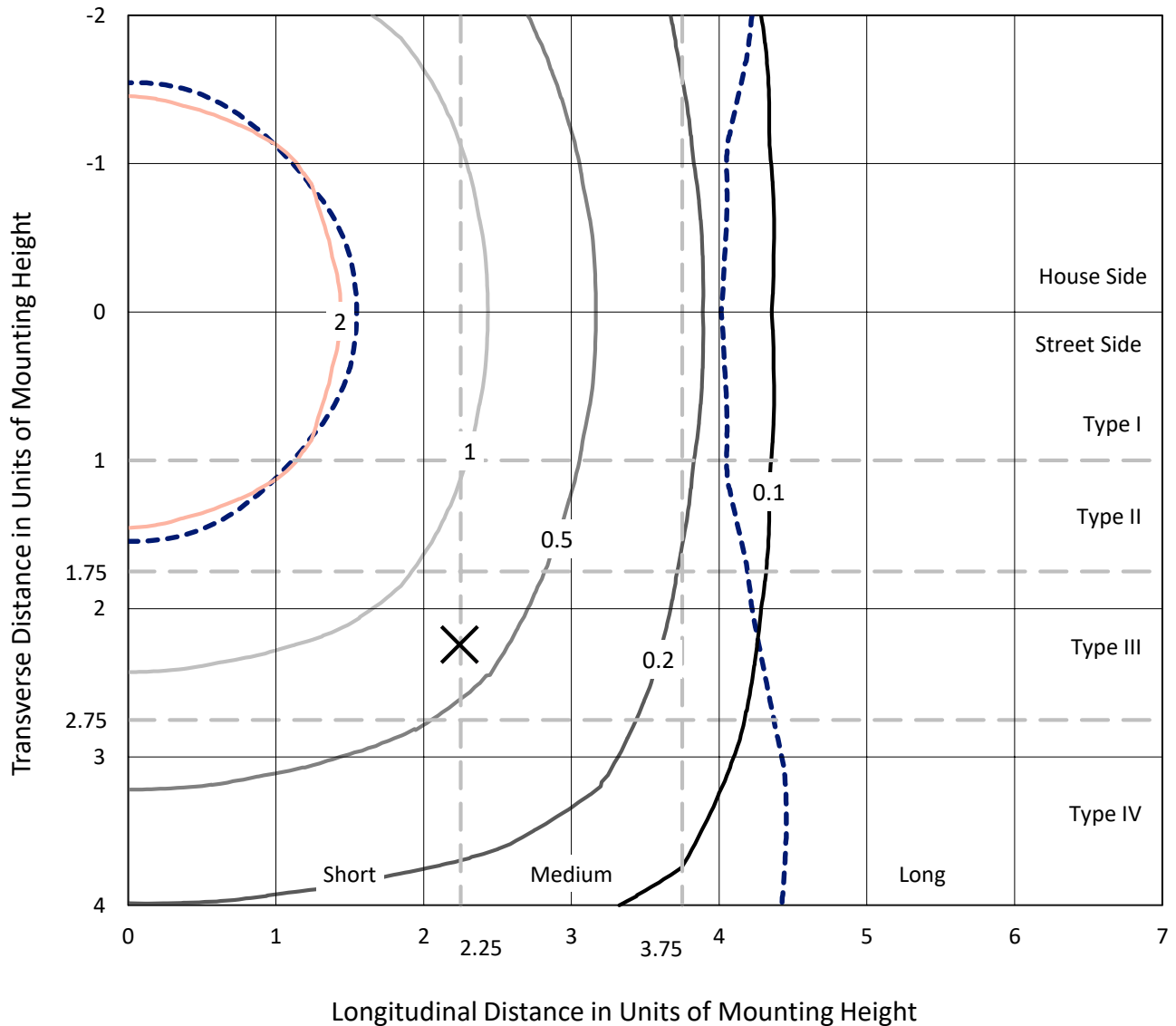


REPORT NUMBER: P265904

CATALOG NUMBER: ARCH-AF16-60-D-U-5WQ-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

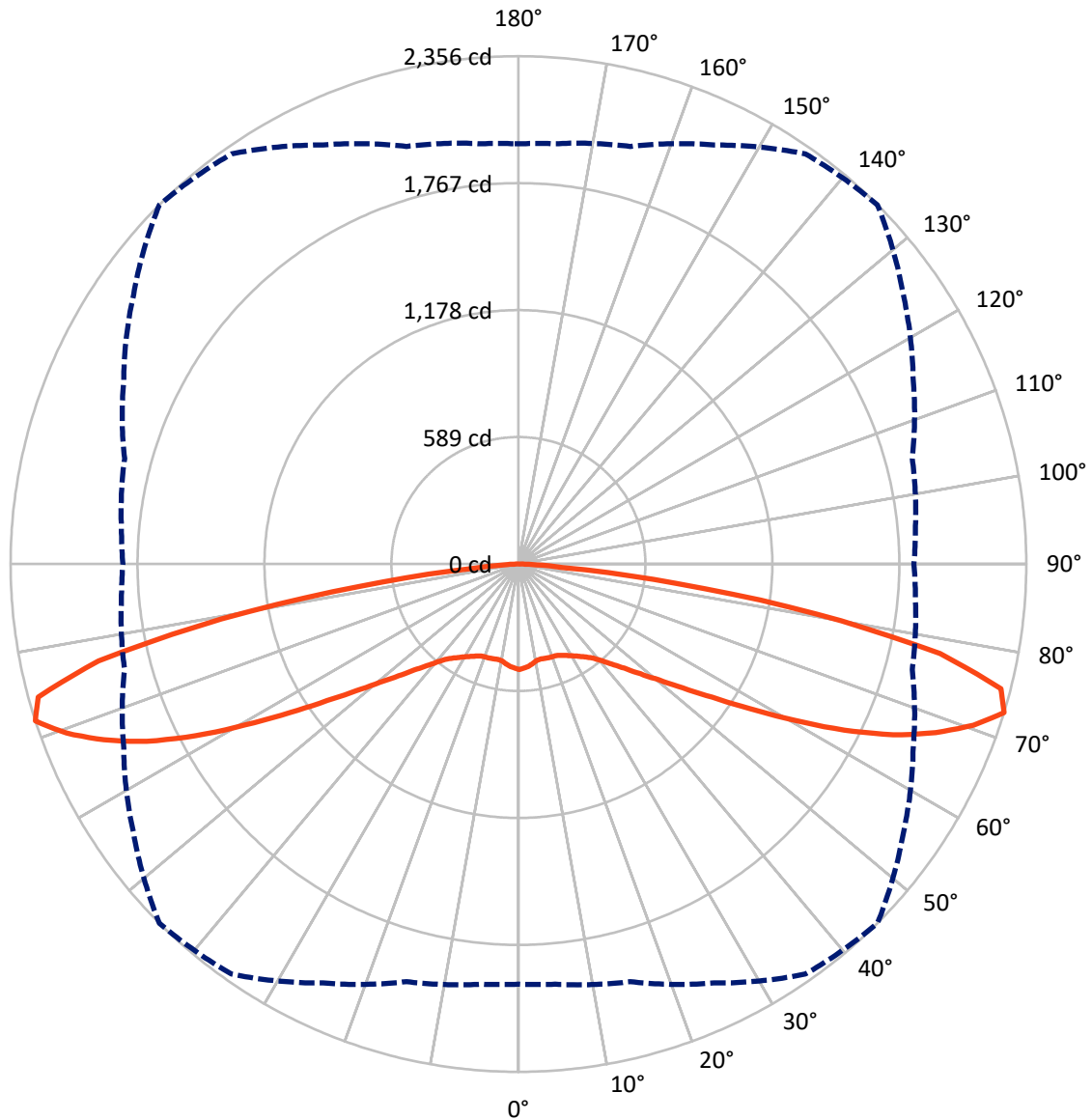


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P265904

CATALOG NUMBER: ARCH-AF16-60-D-U-5WQ-7027

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	2970.0	0.0	2970.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2970.0	0.0	2970.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5939.9	0.0	5939.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	0.8
10°-20°	130.0	2.2
20°-30°	217.5	3.7
30°-40°	334.2	5.6
40°-50°	553.4	9.3
50°-60°	983.8	16.6
60°-70°	1721.1	29.0
70°-80°	1751.1	29.5
80°-90°	203.9	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°	5939.9	100.0
0°-180°	5939.9	100.0



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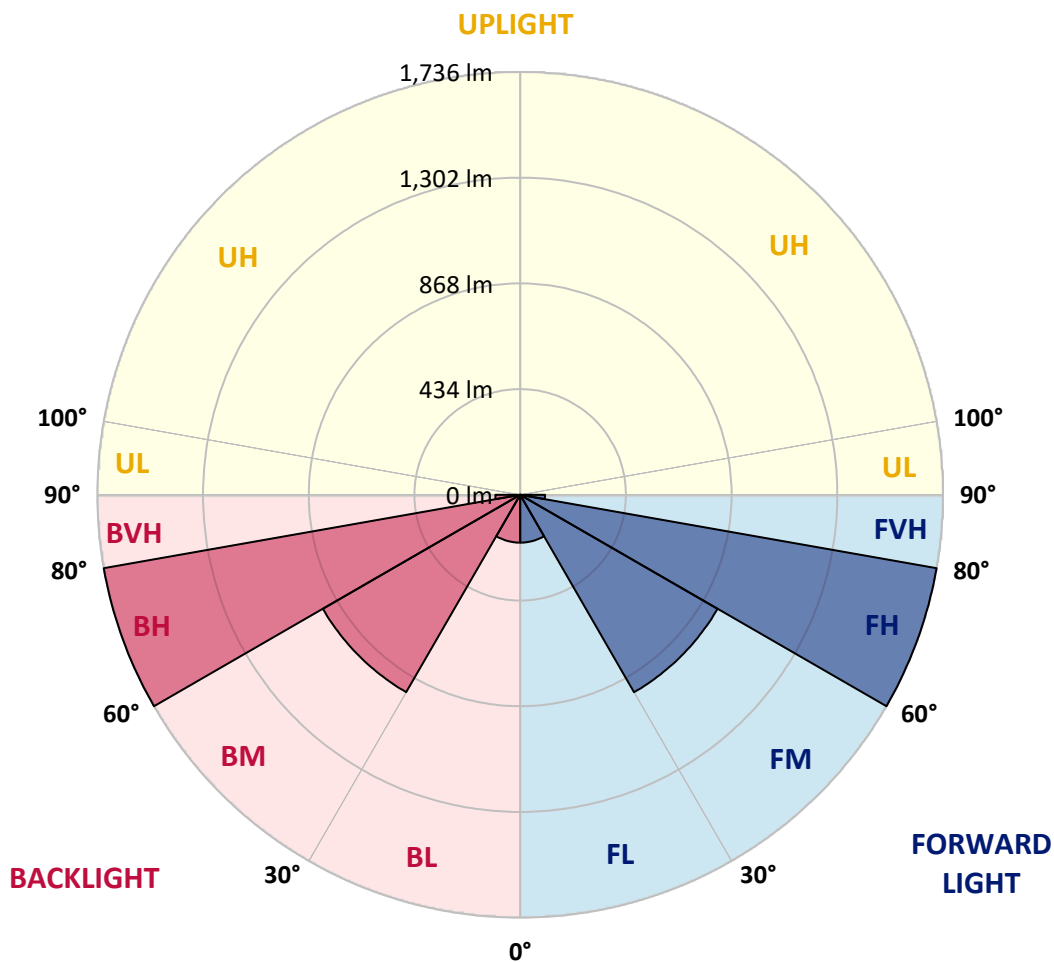
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.3	3.3			
FM (30°-60°)	935.7	15.8			
FH (60°-80°)	1736.1	29.2			G1/1800
FVH (80°-90°)	101.9	1.7			G2/225
BL (0°-30°)	196.3	3.3	B1/500		
BM (30°-60°)	935.7	15.8	B1/1000		
BH (60°-80°)	1736.1	29.2	B3/2500		G1/1800
BVH (80°-90°)	101.9	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°	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5	489.5
2.5°	485.1	486.3	483.9	483.9	483.9	482.7	483.9	482.7	483.9	485.1	485.1
5°	480.6	480.6	478.3	478.3	478.3	477.2	478.3	478.3	479.4	480.6	480.6
7.5°	470.4	470.4	469.3	468.0	466.9	466.9	468.0	468.0	469.3	470.4	470.4
10°	464.8	463.5	461.3	458.0	456.8	455.7	458.0	460.2	463.5	466.9	465.9
12.5°	462.4	461.3	456.8	453.5	451.2	452.2	454.5	456.8	462.4	465.9	464.8
15°	464.8	462.4	456.8	451.2	452.2	454.5	456.8	456.8	463.5	466.9	466.9
17.5°	464.8	463.5	456.8	452.2	453.5	456.8	458.0	456.8	462.4	468.0	468.0
20°	465.9	465.9	456.8	453.5	454.5	458.0	459.0	458.0	462.4	469.3	469.3
22.5°	468.0	466.9	458.0	455.7	458.0	460.2	461.3	460.2	464.8	470.4	471.5
25°	472.6	470.4	462.4	461.3	465.9	469.3	469.3	466.9	469.3	474.8	474.8
27.5°	478.3	477.2	468.0	468.0	473.8	480.6	477.2	472.6	474.8	480.6	480.6
30°	488.5	487.3	478.3	478.3	486.3	494.1	486.3	480.6	483.9	489.5	490.7
32.5°	503.1	503.1	495.2	493.0	506.6	510.0	506.6	495.2	497.5	505.4	505.4
35°	528.1	525.8	517.9	516.7	530.3	529.1	528.1	517.9	520.1	529.1	529.1
37.5°	560.8	559.7	552.8	549.6	556.3	551.7	554.1	549.6	555.2	562.0	563.1
40°	602.7	601.5	595.8	591.4	593.6	586.9	589.1	591.4	597.1	601.5	602.7
42.5°	654.7	654.7	649.0	641.1	637.6	634.4	634.4	638.9	644.5	650.2	650.2
45°	719.2	719.2	712.4	704.5	694.2	688.6	690.8	695.4	702.1	708.9	711.2
47.5°	794.9	794.9	785.8	777.9	767.7	761.0	761.0	763.2	773.4	779.0	782.5
50°	879.7	876.2	867.3	859.3	853.7	844.6	845.8	844.6	853.7	861.6	863.8
52.5°	967.8	966.8	957.8	955.4	958.9	954.3	954.3	943.0	946.4	950.9	949.8
55°	1077.5	1074.2	1066.3	1070.8	1084.3	1091.1	1088.8	1070.8	1060.5	1062.9	1061.6
57.5°	1197.4	1193.9	1191.7	1205.3	1235.9	1264.2	1258.4	1216.7	1197.4	1198.5	1199.6
60°	1319.5	1319.5	1326.3	1360.3	1425.8	1472.1	1455.3	1385.0	1351.2	1344.5	1342.1
62.5°	1445.1	1448.3	1463.1	1519.7	1620.3	1697.2	1654.1	1554.6	1503.9	1490.3	1485.7
65°	1590.9	1594.3	1615.7	1685.8	1819.2	1910.9	1837.4	1743.5	1672.3	1644.0	1639.4
67.5°	1802.3	1804.5	1821.6	1889.3	2014.9	2088.4	2012.7	1928.9	1852.0	1819.2	1817.0
70°	1992.4	1994.5	2009.1	2098.6	2214.0	2240.0	2156.2	2049.9	1969.7	1943.7	1939.1
72.5°	1949.3	1957.1	2005.8	2145.0	2322.5	2356.3	2179.9	2020.6	1891.7	1848.7	1835.1
75°	1634.9	1647.4	1724.2	1933.5	2216.2	2312.2	2039.7	1746.9	1554.6	1472.1	1450.7
77.5°	954.3	1000.6	1132.9	1400.9	1804.5	2000.2	1680.2	1278.7	955.4	819.8	774.5
80°	261.1	286.1	382.1	644.5	1131.9	1400.9	1071.9	586.9	316.7	237.4	220.4
82.5°	82.6	109.7	139.1	185.4	444.3	738.3	397.9	173.1	135.6	112.0	99.5
85°	44.0	47.5	78.1	90.5	133.4	206.9	123.2	90.5	81.3	59.9	56.6
87.5°	22.5	23.7	44.0	44.0	58.7	48.6	53.1	48.6	46.4	29.5	26.1
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)