

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: P214530

Luminaire Tested: **ARCH-AF16-60-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214530
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-7050
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 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: 6837 lumens
Efficiency: N/A
Efficacy: 108.5 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

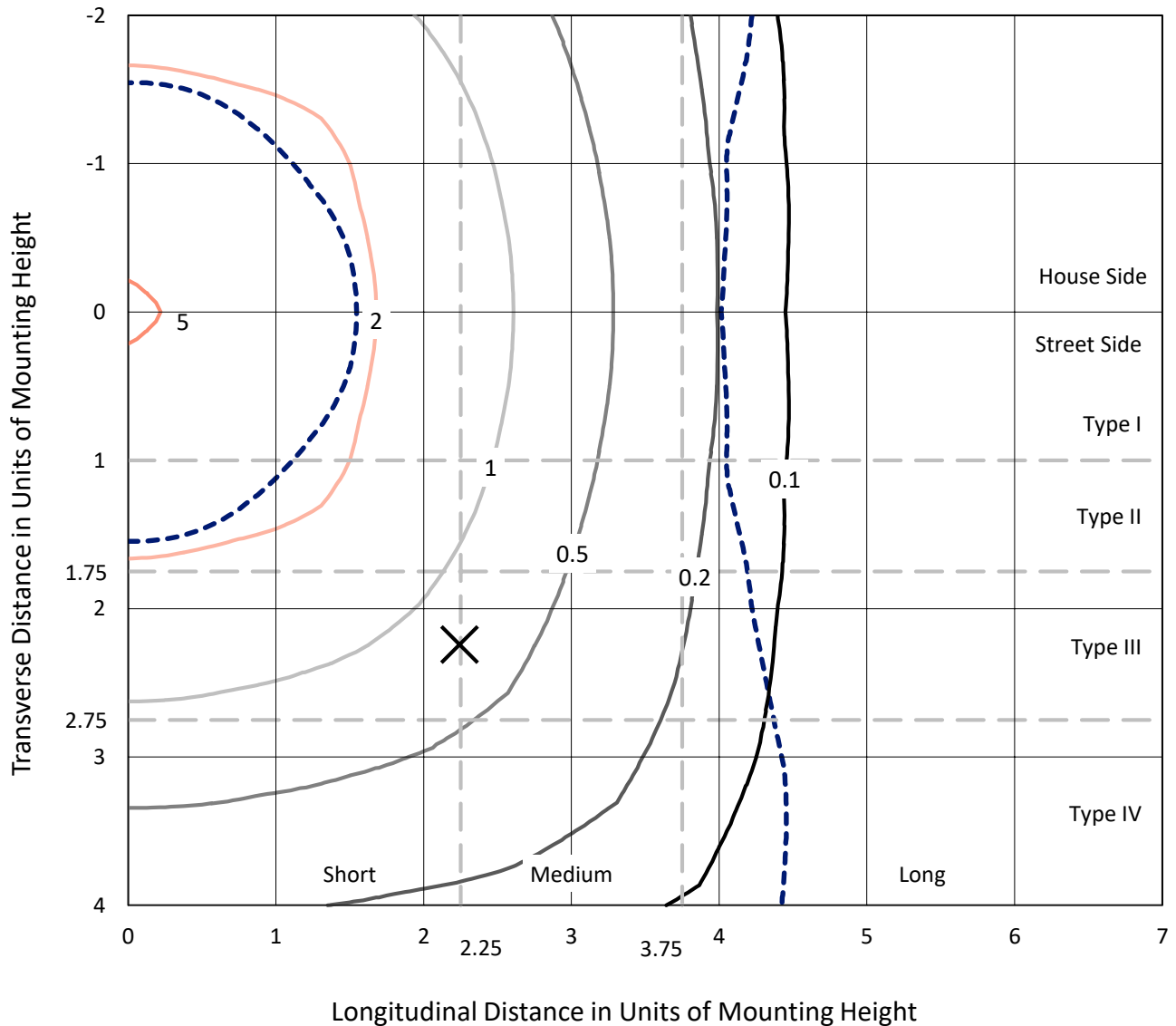
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

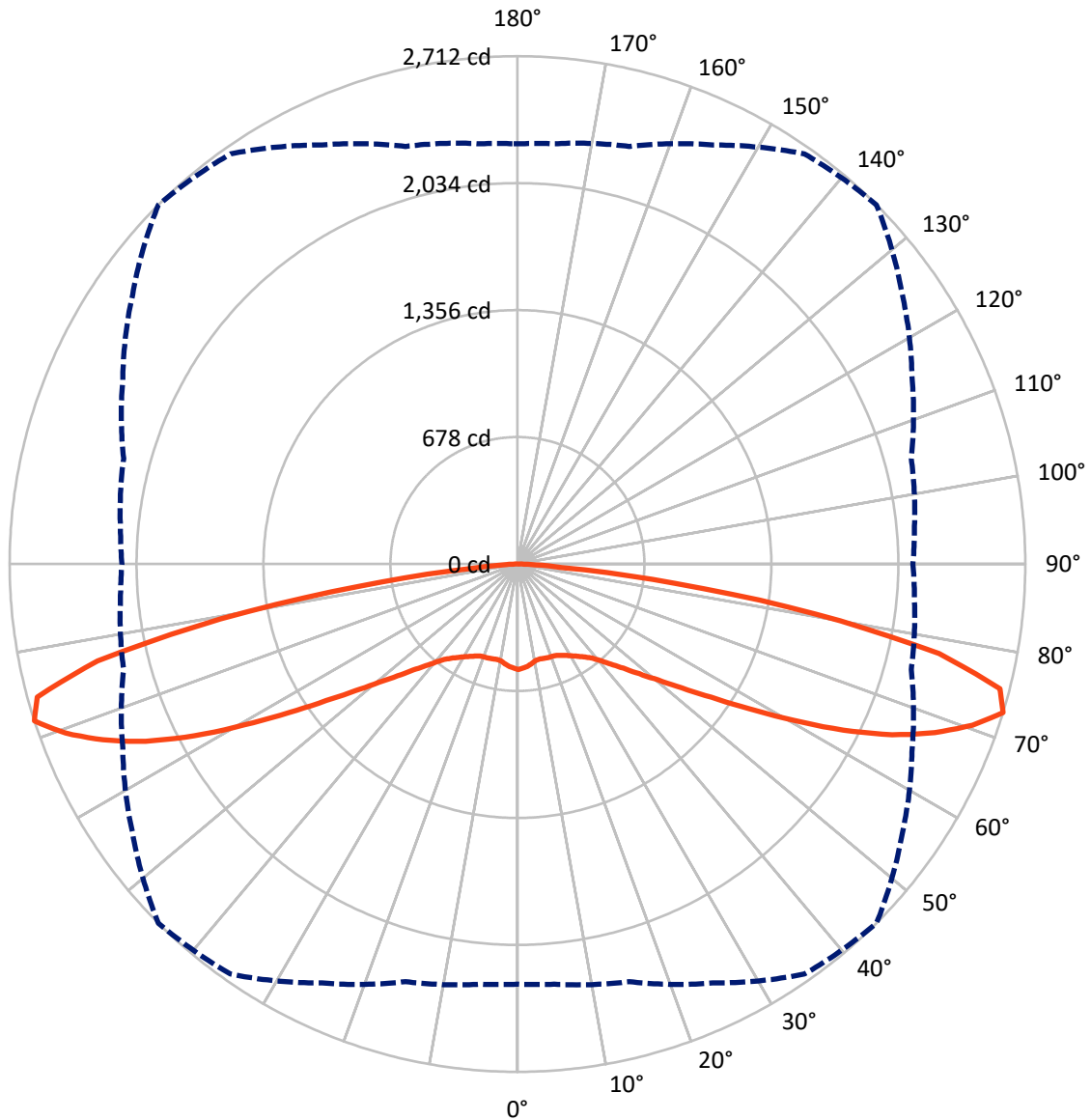


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - Non-Cutoff

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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	3418.5	0.0	3418.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3418.5	0.0	3418.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6837.0	0.0	6837.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	0.8
10°-20°	149.6	2.2
20°-30°	250.4	3.7
30°-40°	384.7	5.6
40°-50°	636.9	9.3
50°-60°	1132.3	16.6
60°-70°	1981.0	29.0
70°-80°	2015.5	29.5
80°-90°	234.7	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°	6837.0	100.0
0°-180°	6837.0	100.0



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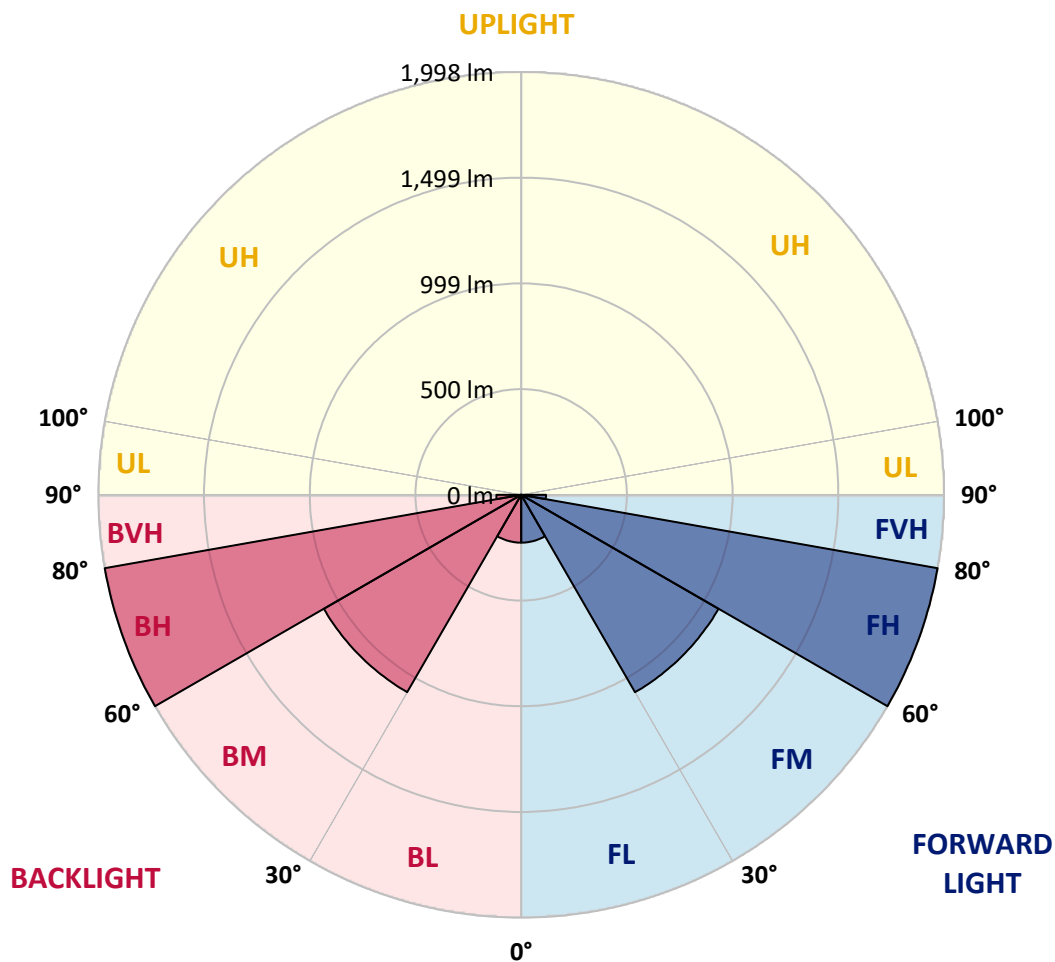
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.9	3.3			
FM	(30°-60°)	1077.0	15.8			
FH	(60°-80°)	1998.3	29.2			G2/5000
FVH	(80°-90°)	117.4	1.7			G2/225
BL	(0°-30°)	225.9	3.3	B1/500		
BM	(30°-60°)	1077.0	15.8	B2/2500		
BH	(60°-80°)	1998.3	29.2	B3/2500		G2/5000
BVH	(80°-90°)	117.4	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°	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5	563.5
2.5°	558.3	559.6	557.0	557.0	557.0	555.7	557.0	555.7	557.0	558.3	558.3
5°	553.1	553.1	550.5	550.5	550.5	549.2	550.5	550.5	551.8	553.1	553.1
7.5°	541.4	541.4	540.1	538.8	537.5	537.5	538.8	538.8	540.1	541.4	541.4
10°	534.9	533.6	531.0	527.1	525.8	524.5	527.1	529.7	533.6	537.5	536.2
12.5°	532.3	531.0	525.8	521.9	519.3	520.6	523.2	525.8	532.3	536.2	534.9
15°	534.9	532.3	525.8	519.3	520.6	523.2	525.8	525.8	533.6	537.5	537.5
17.5°	534.9	533.6	525.8	520.6	521.9	525.8	527.1	525.8	532.3	538.8	538.8
20°	536.2	536.2	525.8	521.9	523.2	527.1	528.4	527.1	532.3	540.1	540.1
22.5°	538.8	537.5	527.1	524.5	527.1	529.7	531.0	529.7	534.9	541.4	542.7
25°	544.0	541.4	532.3	531.0	536.2	540.1	540.1	537.5	540.1	546.6	546.6
27.5°	550.5	549.2	538.8	538.8	545.3	553.1	549.2	544.0	546.6	553.1	553.1
30°	562.2	560.9	550.5	550.5	559.6	568.7	559.6	553.1	557.0	563.5	564.8
32.5°	579.1	579.1	570.0	567.4	583.0	587.0	583.0	570.0	572.6	581.7	581.7
35°	607.8	605.2	596.1	594.8	610.4	609.1	607.8	596.1	598.7	609.1	609.1
37.5°	645.5	644.2	636.4	632.5	640.3	635.1	637.7	632.5	639.0	646.8	648.1
40°	693.7	692.4	685.9	680.7	683.3	675.5	678.1	680.7	687.2	692.4	693.7
42.5°	753.5	753.5	747.0	737.9	734.0	730.1	730.1	735.3	741.8	748.3	748.3
45°	827.7	827.7	819.9	810.8	799.1	792.6	795.2	800.4	808.2	816.0	818.6
47.5°	914.9	914.9	904.5	895.4	883.7	875.9	875.9	878.5	890.2	896.7	900.6
50°	1012.5	1008.6	998.2	989.1	982.6	972.2	973.5	972.2	982.6	991.7	994.3
52.5°	1114.0	1112.7	1102.3	1099.7	1103.6	1098.4	1098.4	1085.4	1089.3	1094.5	1093.2
55°	1240.3	1236.4	1227.3	1232.5	1248.1	1255.9	1253.3	1232.5	1220.8	1223.4	1222.1
57.5°	1378.2	1374.3	1371.7	1387.3	1422.5	1455.0	1448.5	1400.4	1378.2	1379.5	1380.8
60°	1518.8	1518.8	1526.6	1565.6	1641.1	1694.5	1675.0	1594.3	1555.2	1547.4	1544.8
62.5°	1663.3	1667.2	1684.1	1749.1	1865.0	1953.5	1904.0	1789.5	1730.9	1715.3	1710.1
65°	1831.1	1835.0	1859.8	1940.5	2094.0	2199.4	2114.9	2006.8	1924.8	1892.3	1887.1
67.5°	2074.5	2077.1	2096.6	2174.7	2319.2	2403.8	2316.6	2220.3	2131.8	2094.0	2091.4
70°	2293.2	2295.8	2312.7	2415.5	2548.2	2578.2	2481.9	2359.5	2267.1	2237.2	2232.0
72.5°	2243.7	2252.8	2308.8	2468.8	2673.2	2712.2	2509.2	2325.7	2177.3	2127.9	2112.3
75°	1881.9	1896.2	1984.7	2225.5	2550.8	2661.5	2347.8	2010.7	1789.5	1694.5	1669.8
77.5°	1098.4	1151.8	1304.1	1612.5	2077.1	2302.3	1934.0	1471.9	1099.7	943.6	891.5
80°	300.6	329.3	439.9	741.8	1302.8	1612.5	1233.8	675.5	364.4	273.3	253.8
82.5°	95.0	126.2	160.1	213.4	511.5	849.8	458.1	199.1	156.2	128.8	114.5
85°	50.8	54.7	89.8	104.1	153.6	238.2	141.9	104.1	93.7	69.0	65.1
87.5°	26.0	27.3	50.8	50.8	67.7	56.0	61.2	56.0	53.4	33.8	29.9
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)