

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: P214502

Luminaire Tested: **ARCH-AF16-60-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214502
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-7030
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 6612.4 lumens
Efficiency: N/A
Efficacy: 105.0 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

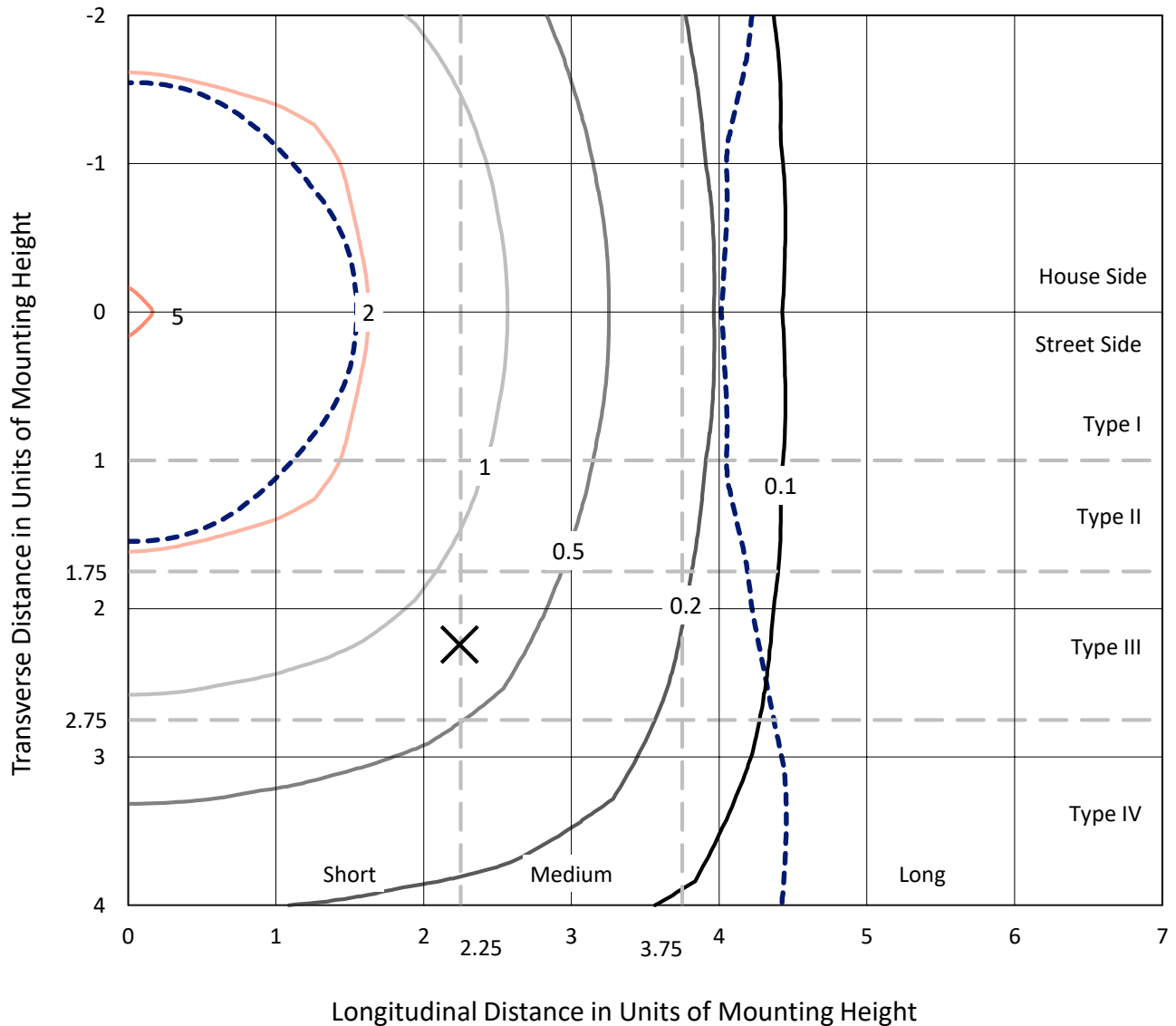
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

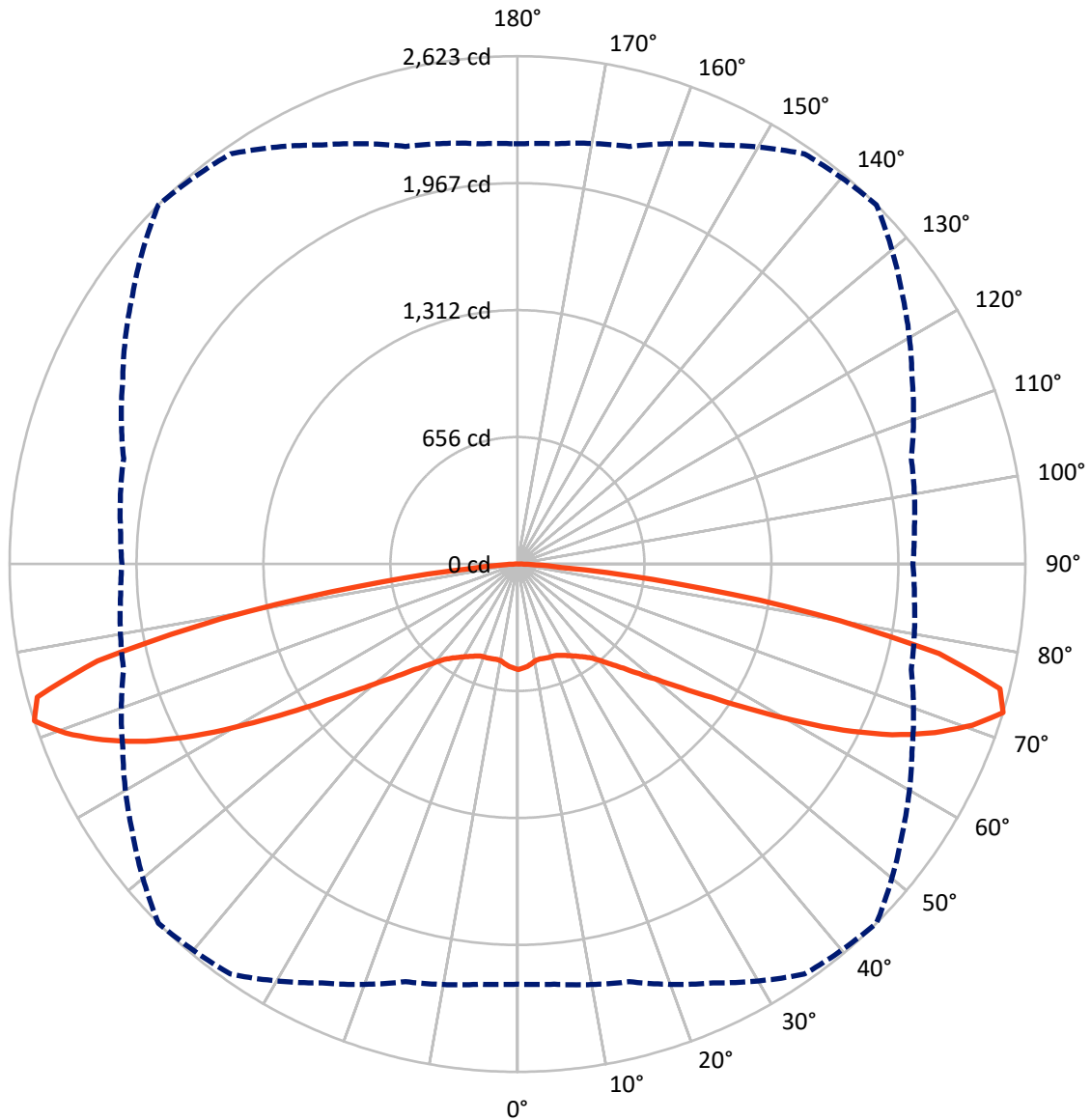


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Non-Cutoff

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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	3306.2	0.0	3306.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3306.2	0.0	3306.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	6612.4	0.0	6612.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	0.8
10°-20°	144.7	2.2
20°-30°	242.1	3.7
30°-40°	372.0	5.6
40°-50°	616.0	9.3
50°-60°	1095.1	16.6
60°-70°	1915.9	29.0
70°-80°	1949.3	29.5
80°-90°	227.0	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°	6612.4	100.0
0°-180°	6612.4	100.0



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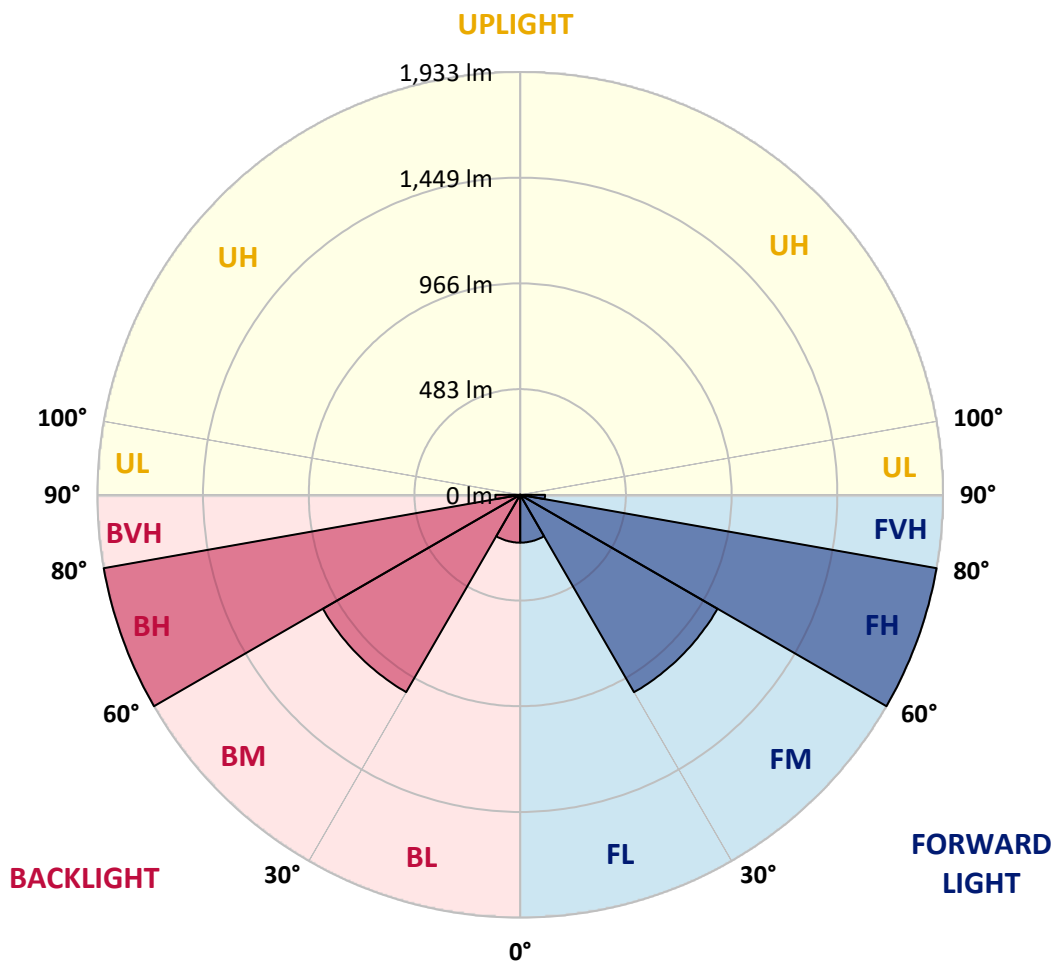
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.5	3.3			
FM	(30°-60°)	1041.6	15.8			
FH	(60°-80°)	1932.6	29.2			G2/5000
FVH	(80°-90°)	113.5	1.7			G2/225
BL	(0°-30°)	218.5	3.3	B1/500		
BM	(30°-60°)	1041.6	15.8	B2/2500		
BH	(60°-80°)	1932.6	29.2	B3/2500		G2/5000
BVH	(80°-90°)	113.5	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°	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9	544.9
2.5°	540.0	541.3	538.7	538.7	538.7	537.4	538.7	537.4	538.7	540.0	540.0
5°	535.0	535.0	532.4	532.4	532.4	531.2	532.4	532.4	533.7	535.0	535.0
7.5°	523.6	523.6	522.4	521.0	519.8	519.8	521.0	521.0	522.4	523.6	523.6
10°	517.4	516.0	513.5	509.8	508.5	507.3	509.8	512.3	516.0	519.8	518.6
12.5°	514.8	513.5	508.5	504.8	502.3	503.4	506.0	508.5	514.8	518.6	517.4
15°	517.4	514.8	508.5	502.3	503.4	506.0	508.5	508.5	516.0	519.8	519.8
17.5°	517.4	516.0	508.5	503.4	504.8	508.5	509.8	508.5	514.8	521.0	521.0
20°	518.6	518.6	508.5	504.8	506.0	509.8	511.0	509.8	514.8	522.4	522.4
22.5°	521.0	519.8	509.8	507.3	509.8	512.3	513.5	512.3	517.4	523.6	524.9
25°	526.1	523.6	514.8	513.5	518.6	522.4	522.4	519.8	522.4	528.6	528.6
27.5°	532.4	531.2	521.0	521.0	527.4	535.0	531.2	526.1	528.6	535.0	535.0
30°	543.8	542.5	532.4	532.4	541.3	550.0	541.3	535.0	538.7	544.9	546.3
32.5°	560.1	560.1	551.3	548.8	563.9	567.7	563.9	551.3	553.8	562.6	562.6
35°	587.9	585.3	576.5	575.2	590.3	589.0	587.9	576.5	579.0	589.0	589.0
37.5°	624.3	623.1	615.4	611.8	619.3	614.2	616.8	611.8	618.0	625.6	626.8
40°	670.9	669.6	663.3	658.3	660.8	653.3	655.8	658.3	664.7	669.6	670.9
42.5°	728.8	728.8	722.5	713.7	709.8	706.2	706.2	711.2	717.5	723.8	723.8
45°	800.6	800.6	793.0	784.2	772.8	766.6	769.0	774.1	781.6	789.2	791.7
47.5°	884.9	884.9	874.8	866.0	854.6	847.1	847.1	849.6	861.0	867.2	871.1
50°	979.3	975.4	965.5	956.6	950.3	940.2	941.5	940.2	950.3	959.1	961.6
52.5°	1077.4	1076.2	1066.2	1063.6	1067.4	1062.3	1062.3	1049.8	1053.5	1058.6	1057.3
55°	1199.5	1195.8	1187.0	1192.0	1207.1	1214.6	1212.1	1192.0	1180.6	1183.2	1181.8
57.5°	1333.0	1329.1	1326.6	1341.8	1375.8	1407.3	1400.9	1354.4	1333.0	1334.2	1335.4
60°	1468.9	1468.9	1476.4	1514.3	1587.2	1638.8	1620.0	1541.8	1504.2	1496.7	1494.0
62.5°	1608.7	1612.3	1628.7	1691.7	1803.7	1889.3	1841.4	1730.6	1674.1	1659.0	1653.9
65°	1771.0	1774.8	1798.6	1876.7	2025.2	2127.2	2045.4	1940.9	1861.6	1830.1	1825.0
67.5°	2006.3	2008.8	2027.8	2103.2	2243.0	2324.8	2240.5	2147.3	2061.7	2025.2	2022.7
70°	2217.9	2220.3	2236.6	2336.2	2464.6	2493.6	2400.3	2282.0	2192.7	2163.7	2158.6
72.5°	2170.0	2178.7	2232.9	2387.8	2585.4	2623.1	2426.7	2249.3	2105.8	2058.0	2042.8
75°	1820.0	1833.9	1919.4	2152.4	2467.1	2574.0	2270.6	1944.7	1730.6	1638.8	1614.9
77.5°	1062.3	1113.9	1261.2	1559.5	2008.8	2226.6	1870.4	1423.5	1063.6	912.6	862.2
80°	290.7	318.5	425.4	717.5	1260.0	1559.5	1193.2	653.3	352.5	264.3	245.4
82.5°	91.9	122.1	154.8	206.4	494.6	821.9	443.0	192.7	151.0	124.7	110.8
85°	49.0	52.9	86.9	100.7	148.5	230.3	137.2	100.7	90.5	66.7	63.0
87.5°	25.1	26.4	49.0	49.0	65.4	54.1	59.1	54.1	51.6	32.8	29.0
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)