

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: P265949

Luminaire Tested: **ARCH-AF24-60-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265949
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-AF24-60-D-U-5WQ-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6748.6 lumens
Efficiency: N/A
Efficacy: 105.4 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): 64
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

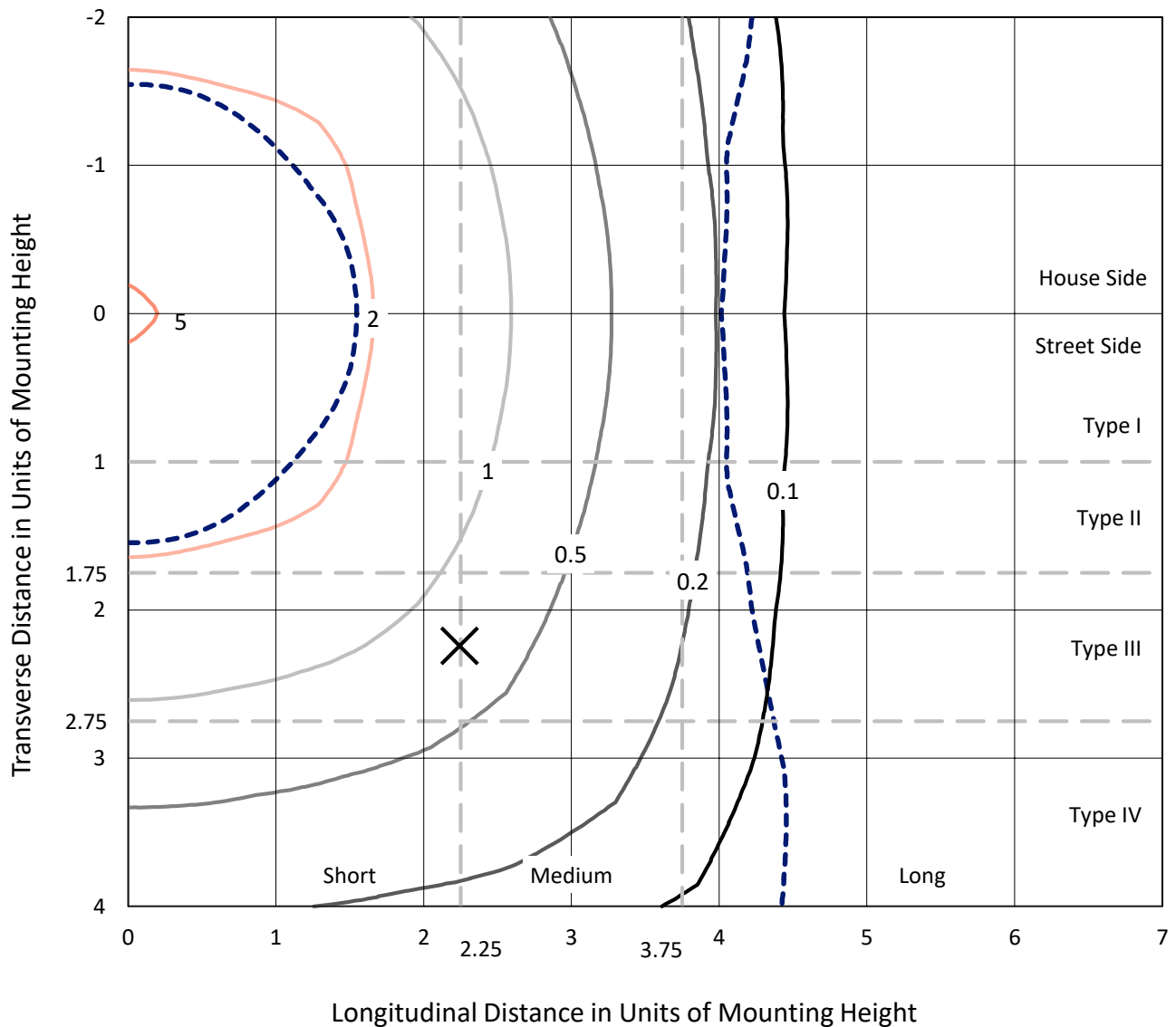


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

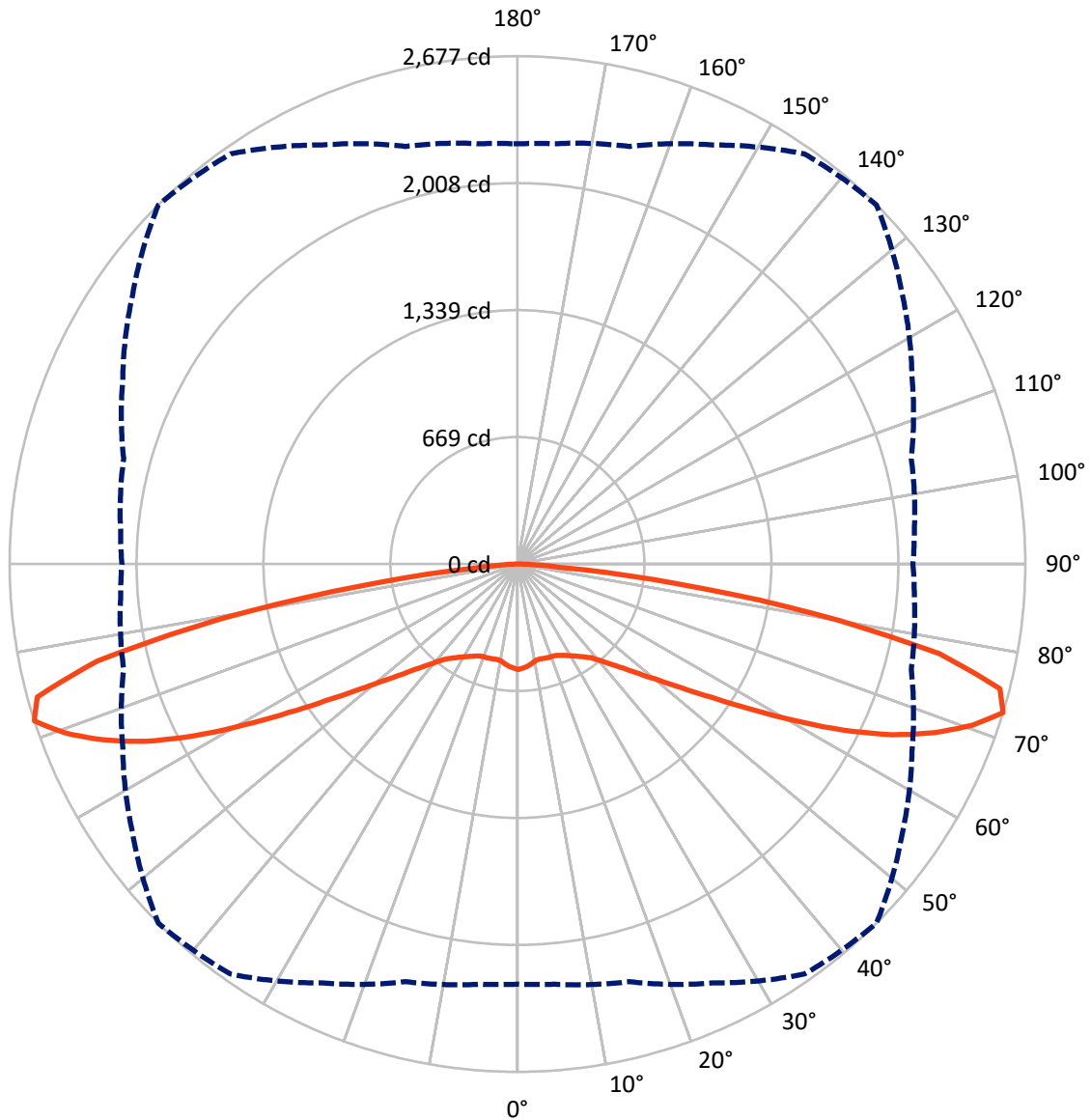


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - Non-Cutoff

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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	3374.3	0.0	3374.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3374.3	0.0	3374.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6748.6	0.0	6748.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	0.8
10°-20°	147.7	2.2
20°-30°	247.1	3.7
30°-40°	379.7	5.6
40°-50°	628.7	9.3
50°-60°	1117.7	16.6
60°-70°	1955.4	29.0
70°-80°	1989.5	29.5
80°-90°	231.6	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°	6748.6	100.0
0°-180°	6748.6	100.0



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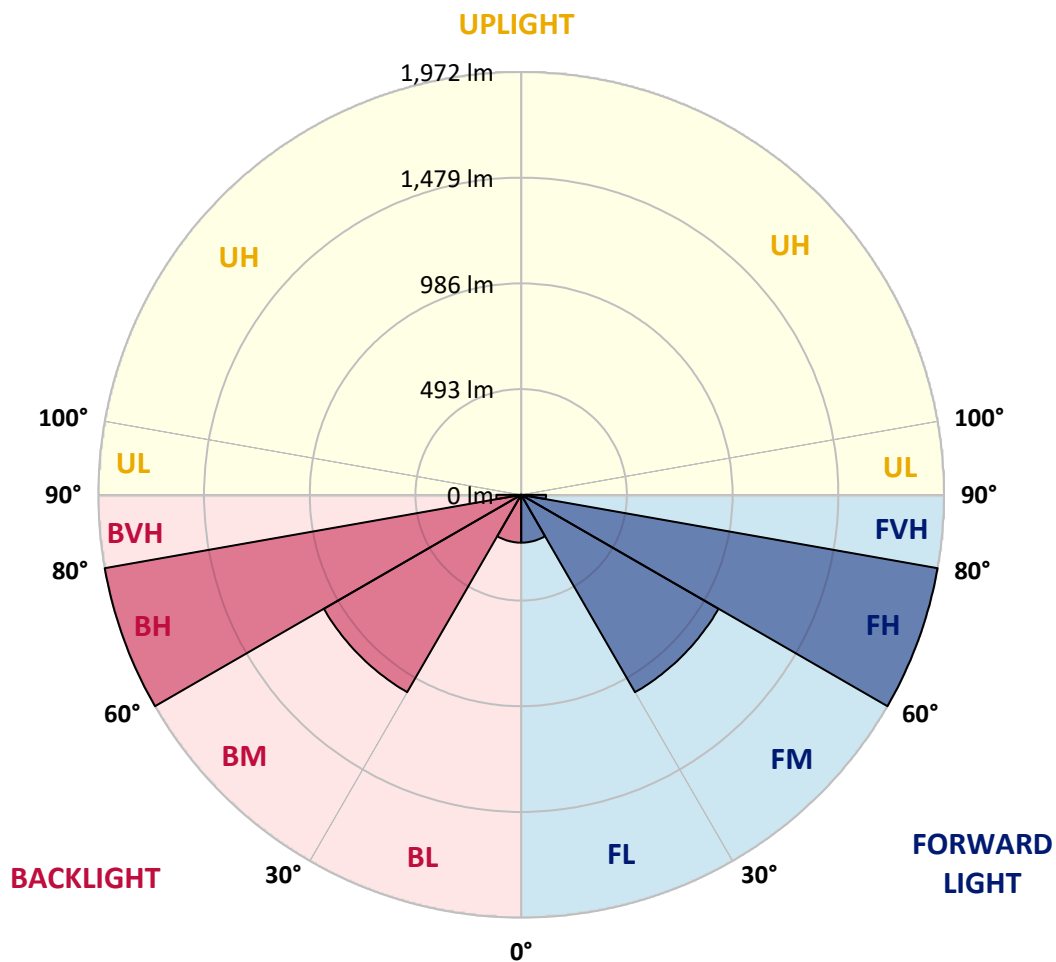
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.0	3.3			
FM (30°-60°)	1063.1	15.8			
FH (60°-80°)	1972.4	29.2			G2/5000
FVH (80°-90°)	115.8	1.7			G2/225
BL (0°-30°)	223.0	3.3	B1/500		
BM (30°-60°)	1063.1	15.8	B2/2500		
BH (60°-80°)	1972.4	29.2	B3/2500		G2/5000
BVH (80°-90°)	115.8	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°	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2	556.2
2.5°	551.1	552.4	549.9	549.9	549.9	548.5	549.9	548.5	549.9	551.1	551.1
5°	546.0	546.0	543.5	543.5	543.5	542.0	543.5	543.5	544.7	546.0	546.0
7.5°	534.4	534.4	533.1	531.8	530.5	530.5	531.8	531.8	533.1	534.4	534.4
10°	527.9	526.6	524.2	520.3	519.0	517.8	520.3	522.9	526.6	530.5	529.3
12.5°	525.4	524.2	519.0	515.2	512.6	513.8	516.4	519.0	525.4	529.3	527.9
15°	527.9	525.4	519.0	512.6	513.8	516.4	519.0	519.0	526.6	530.5	530.5
17.5°	527.9	526.6	519.0	513.8	515.2	519.0	520.3	519.0	525.4	531.8	531.8
20°	529.3	529.3	519.0	515.2	516.4	520.3	521.6	520.3	525.4	533.1	533.1
22.5°	531.8	530.5	520.3	517.8	520.3	522.9	524.2	522.9	527.9	534.4	535.7
25°	536.9	534.4	525.4	524.2	529.3	533.1	533.1	530.5	533.1	539.5	539.5
27.5°	543.5	542.0	531.8	531.8	538.3	546.0	542.0	536.9	539.5	546.0	546.0
30°	555.0	553.6	543.5	543.5	552.4	561.4	552.4	546.0	549.9	556.2	557.6
32.5°	571.6	571.6	562.7	560.2	575.5	579.3	575.5	562.7	565.3	574.2	574.2
35°	599.9	597.4	588.4	587.1	602.6	601.2	599.9	588.4	590.9	601.2	601.2
37.5°	637.2	635.9	628.2	624.3	632.0	626.8	629.4	624.3	630.8	638.4	639.8
40°	684.7	683.4	677.1	671.8	674.4	666.7	669.2	671.8	678.3	683.4	684.7
42.5°	743.7	743.7	737.4	728.3	724.6	720.7	720.7	725.8	732.3	738.6	738.6
45°	817.0	817.0	809.4	800.3	788.7	782.3	784.8	790.1	797.8	805.5	808.0
47.5°	903.1	903.1	892.8	883.8	872.3	864.6	864.6	867.1	878.7	885.1	889.0
50°	999.5	995.6	985.4	976.3	969.9	959.6	960.8	959.6	969.9	979.0	981.5
52.5°	1099.6	1098.4	1088.0	1085.5	1089.4	1084.3	1084.3	1071.4	1075.2	1080.4	1079.1
55°	1224.3	1220.3	1211.5	1216.6	1231.9	1239.8	1237.1	1216.6	1204.9	1207.5	1206.2
57.5°	1360.5	1356.6	1354.0	1369.5	1404.1	1436.2	1429.8	1382.2	1360.5	1361.7	1363.0
60°	1499.2	1499.2	1506.8	1545.4	1620.0	1672.6	1653.3	1573.7	1535.2	1527.5	1524.9
62.5°	1641.7	1645.7	1662.4	1726.5	1840.8	1928.2	1879.4	1766.3	1708.5	1693.1	1688.1
65°	1807.5	1811.3	1835.7	1915.4	2067.0	2171.1	2087.5	1980.9	1899.9	1867.8	1862.7
67.5°	2047.6	2050.3	2069.5	2146.6	2289.2	2372.8	2286.6	2191.5	2104.2	2067.0	2064.5
70°	2263.5	2266.2	2282.9	2384.3	2515.3	2544.9	2449.8	2329.0	2237.9	2208.4	2203.2
72.5°	2214.7	2223.8	2278.9	2436.9	2638.6	2677.2	2476.7	2295.7	2149.1	2100.3	2085.0
75°	1857.5	1871.7	1959.1	2196.7	2517.9	2627.1	2317.4	1984.7	1766.3	1672.6	1648.2
77.5°	1084.3	1137.0	1287.2	1591.6	2050.3	2272.5	1909.0	1452.9	1085.5	931.4	880.0
80°	296.7	324.9	434.2	732.3	1286.0	1591.6	1217.8	666.7	359.7	269.9	250.4
82.5°	93.8	124.7	158.0	210.7	504.8	838.8	452.1	196.5	154.1	127.2	113.0
85°	50.0	54.0	88.7	102.8	151.5	235.0	140.0	102.8	92.4	68.1	64.1
87.5°	25.7	26.9	50.0	50.0	66.8	55.2	60.4	55.2	52.7	33.3	29.6
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)