

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: P214521

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214521
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
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 7946.2 lumens
Efficiency: N/A
Efficacy: 124.2 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 (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

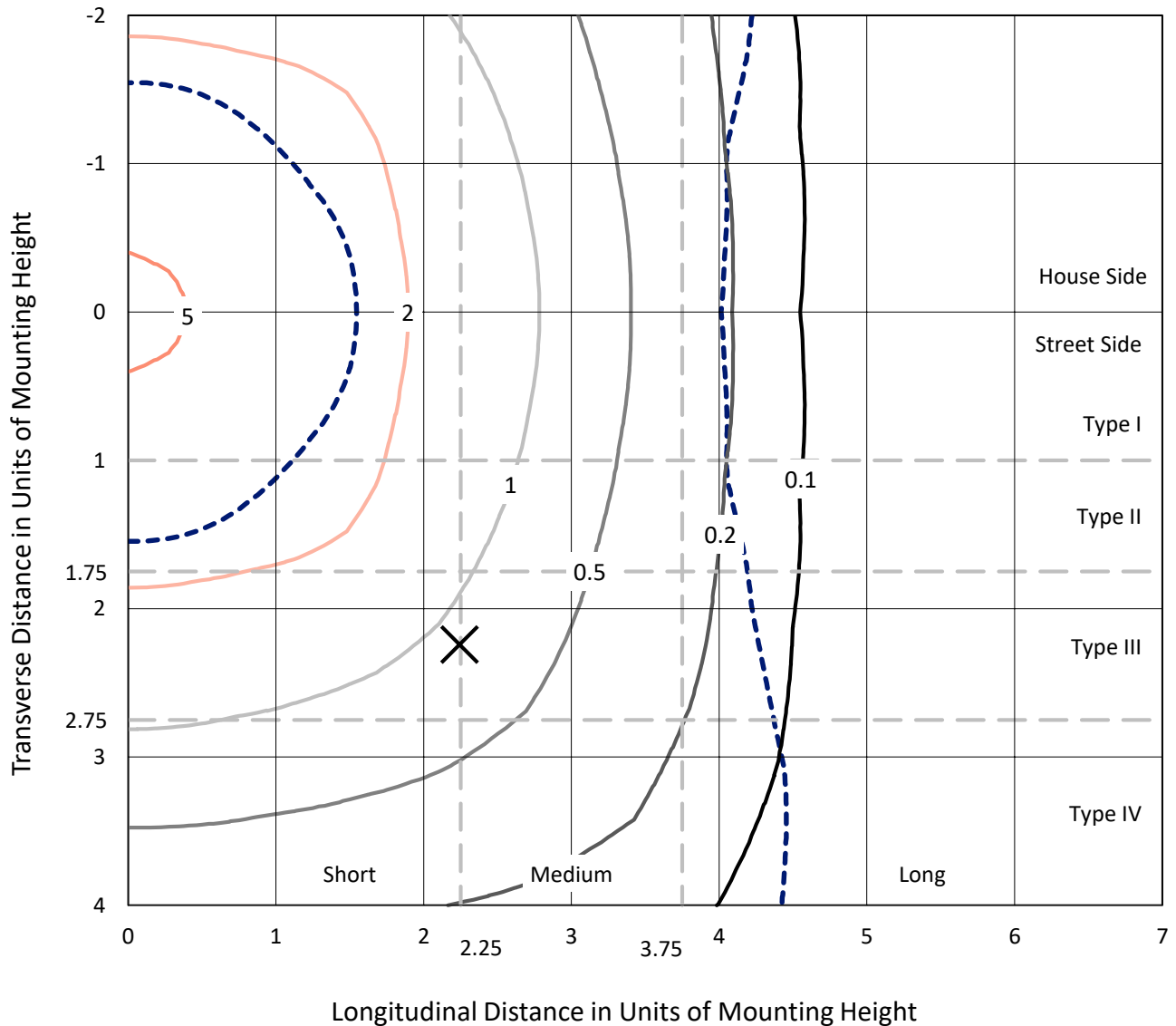


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

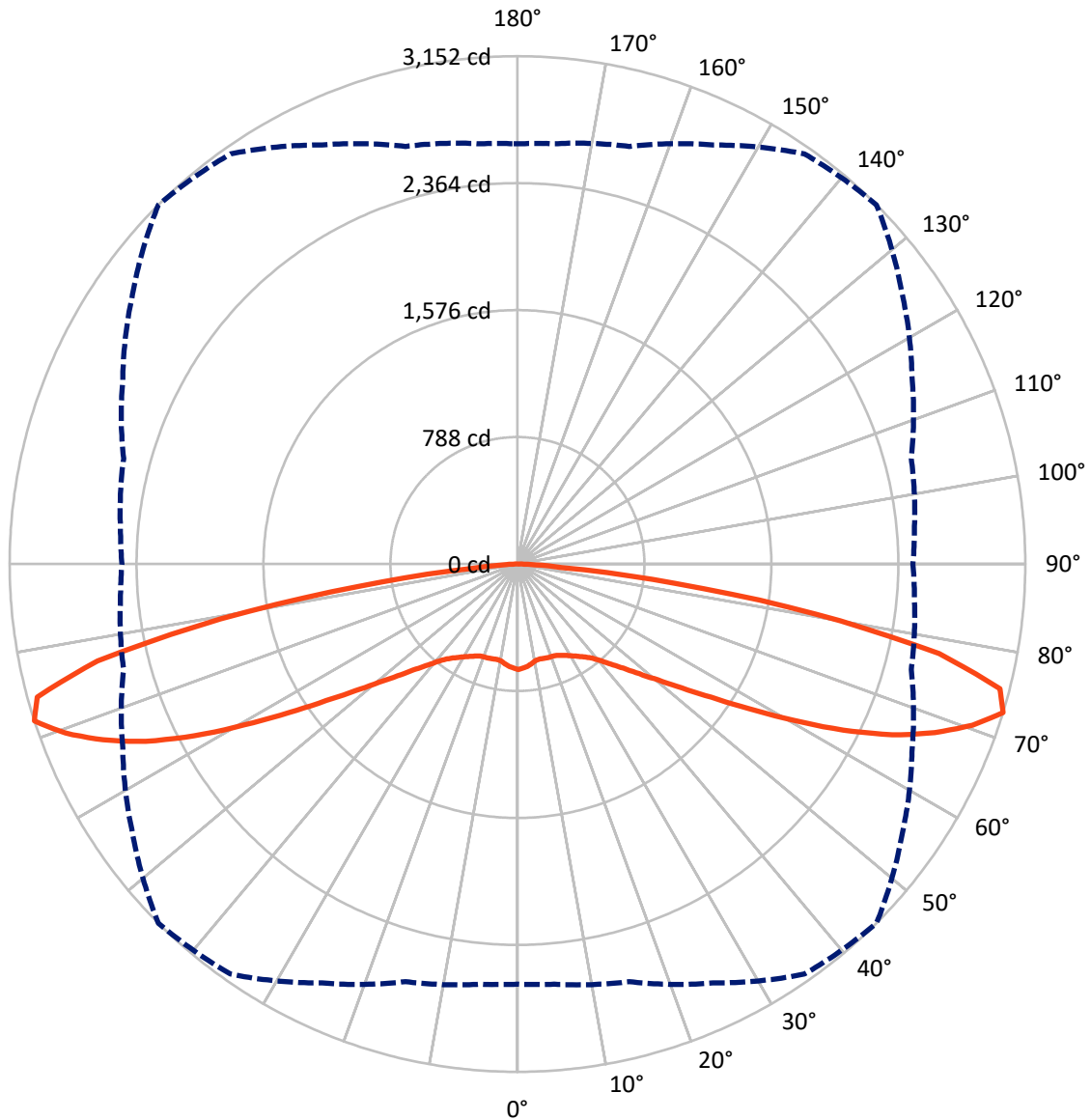


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Non-Cutoff

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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	3973.1	0.0	3973.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3973.1	0.0	3973.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	7946.2	0.0	7946.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	0.8
10°-20°	173.9	2.2
20°-30°	291.0	3.7
30°-40°	447.1	5.6
40°-50°	740.3	9.3
50°-60°	1316.1	16.6
60°-70°	2302.4	29.0
70°-80°	2342.5	29.5
80°-90°	272.8	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°	7946.2	100.0
0°-180°	7946.2	100.0



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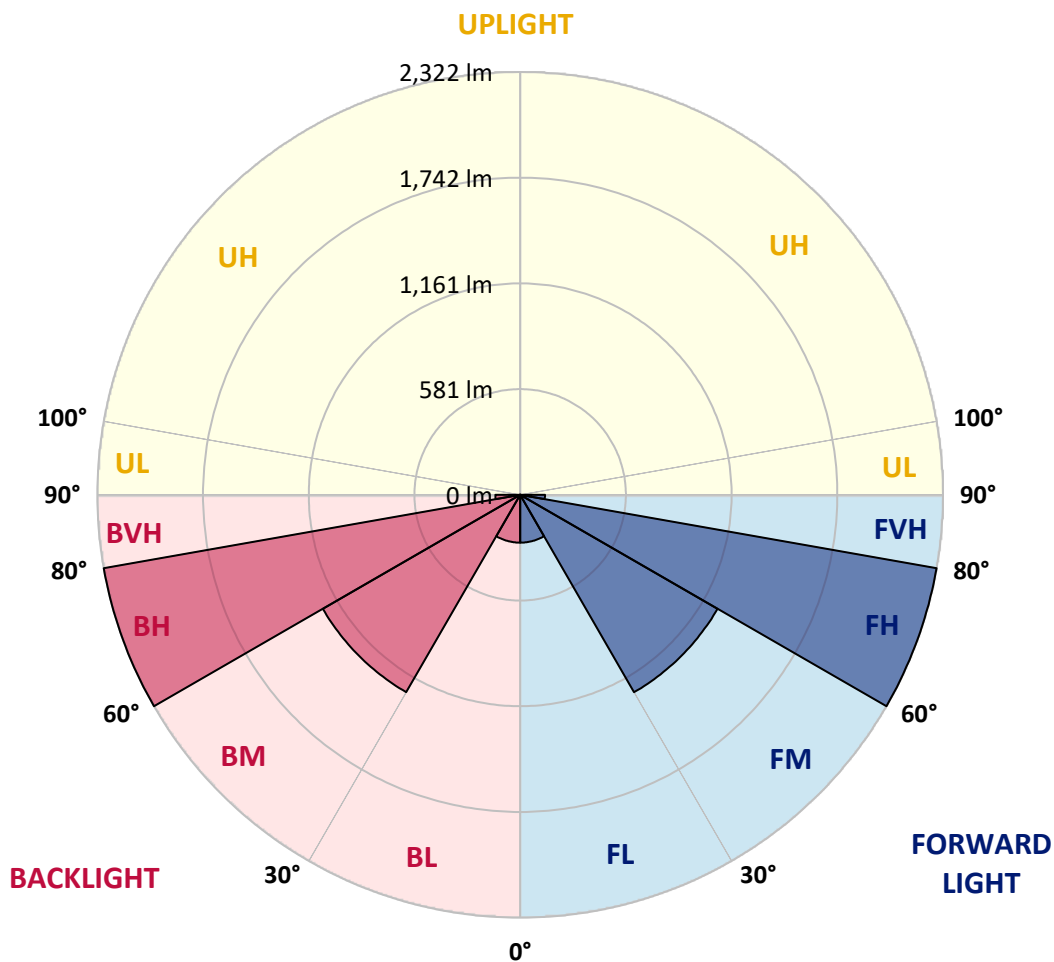
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.6	3.3			
FM	(30°-60°)	1251.7	15.8			
FH	(60°-80°)	2322.5	29.2			G2/5000
FVH	(80°-90°)	136.4	1.7			G2/225
BL	(0°-30°)	262.6	3.3	B1/500		
BM	(30°-60°)	1251.7	15.8	B2/2500		
BH	(60°-80°)	2322.5	29.2	B3/2500		G2/5000
BVH	(80°-90°)	136.4	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°	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
2.5°	648.9	650.4	647.4	647.4	647.4	645.9	647.4	645.9	647.4	648.9	648.9
5°	642.8	642.8	639.9	639.9	639.9	638.3	639.9	639.9	641.4	642.8	642.8
7.5°	629.2	629.2	627.7	626.3	624.7	624.7	626.3	626.3	627.7	629.2	629.2
10°	621.6	620.2	617.1	612.6	611.1	609.6	612.6	615.6	620.2	624.7	623.2
12.5°	618.7	617.1	611.1	606.5	603.5	605.1	608.0	611.1	618.7	623.2	621.6
15°	621.6	618.7	611.1	603.5	605.1	608.0	611.1	611.1	620.2	624.7	624.7
17.5°	621.6	620.2	611.1	605.1	606.5	611.1	612.6	611.1	618.7	626.3	626.3
20°	623.2	623.2	611.1	606.5	608.0	612.6	614.1	612.6	618.7	627.7	627.7
22.5°	626.3	624.7	612.6	609.6	612.6	615.6	617.1	615.6	621.6	629.2	630.8
25°	632.3	629.2	618.7	617.1	623.2	627.7	627.7	624.7	627.7	635.3	635.3
27.5°	639.9	638.3	626.3	626.3	633.8	642.8	638.3	632.3	635.3	642.8	642.8
30°	653.5	651.9	639.9	639.9	650.4	661.0	650.4	642.8	647.4	655.0	656.4
32.5°	673.1	673.1	662.6	659.5	677.6	682.2	677.6	662.6	665.5	676.2	676.2
35°	706.3	703.4	692.7	691.3	709.4	707.9	706.3	692.7	695.8	707.9	707.9
37.5°	750.2	748.7	739.7	735.1	744.2	738.2	741.1	735.1	742.7	751.8	753.3
40°	806.2	804.8	797.2	791.0	794.1	785.0	788.1	791.0	798.6	804.8	806.2
42.5°	875.7	875.7	868.3	857.6	853.1	848.5	848.5	854.6	862.1	869.7	869.7
45°	962.0	962.0	953.0	942.3	928.7	921.2	924.2	930.3	939.4	948.4	951.4
47.5°	1063.4	1063.4	1051.3	1040.6	1027.0	1017.9	1017.9	1021.0	1034.6	1042.2	1046.7
50°	1176.8	1172.3	1160.1	1149.6	1142.0	1130.0	1131.4	1130.0	1142.0	1152.6	1155.6
52.5°	1294.7	1293.3	1281.1	1278.2	1282.7	1276.6	1276.6	1261.5	1266.0	1272.1	1270.6
55°	1441.5	1436.9	1426.4	1432.4	1450.5	1459.6	1456.7	1432.4	1418.8	1421.8	1420.4
57.5°	1601.8	1597.3	1594.3	1612.5	1653.3	1691.1	1683.6	1627.5	1601.8	1603.4	1604.9
60°	1765.2	1765.2	1774.3	1819.6	1907.4	1969.4	1946.7	1853.0	1807.6	1798.4	1795.5
62.5°	1933.1	1937.7	1957.3	2032.9	2167.5	2270.4	2212.9	2079.9	2011.7	1993.6	1987.6
65°	2128.2	2132.8	2161.5	2255.3	2433.8	2556.4	2457.9	2332.4	2237.2	2199.3	2193.3
67.5°	2411.1	2414.2	2436.8	2527.6	2695.5	2793.8	2692.4	2580.5	2477.7	2433.8	2430.7
70°	2665.2	2668.3	2687.9	2807.4	2961.6	2996.4	2884.5	2742.3	2634.9	2600.1	2594.1
72.5°	2607.7	2618.3	2683.4	2869.4	3106.9	3152.2	2916.3	2703.0	2530.6	2473.1	2455.0
75°	2187.3	2203.8	2306.8	2586.5	2964.7	3093.3	2728.7	2336.9	2079.9	1969.4	1940.6
77.5°	1276.6	1338.6	1515.6	1874.1	2414.2	2675.8	2247.7	1710.8	1278.2	1096.6	1036.1
80°	349.4	382.7	511.3	862.1	1514.1	1874.1	1434.0	785.0	423.5	317.6	294.9
82.5°	110.4	146.7	186.1	248.1	594.4	987.8	532.4	231.4	181.5	149.8	133.1
85°	59.0	63.5	104.3	121.0	178.5	276.8	164.9	121.0	108.9	80.2	75.6
87.5°	30.3	31.8	59.0	59.0	78.7	65.1	71.1	65.1	62.0	39.3	34.8
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)