

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: P265967

Luminaire Tested: **ARCH-AF24-80-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265967
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-AF24-80-D-U-5WQ-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8130.6 lumens
Efficiency: N/A
Efficacy: 98.0 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): 83
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

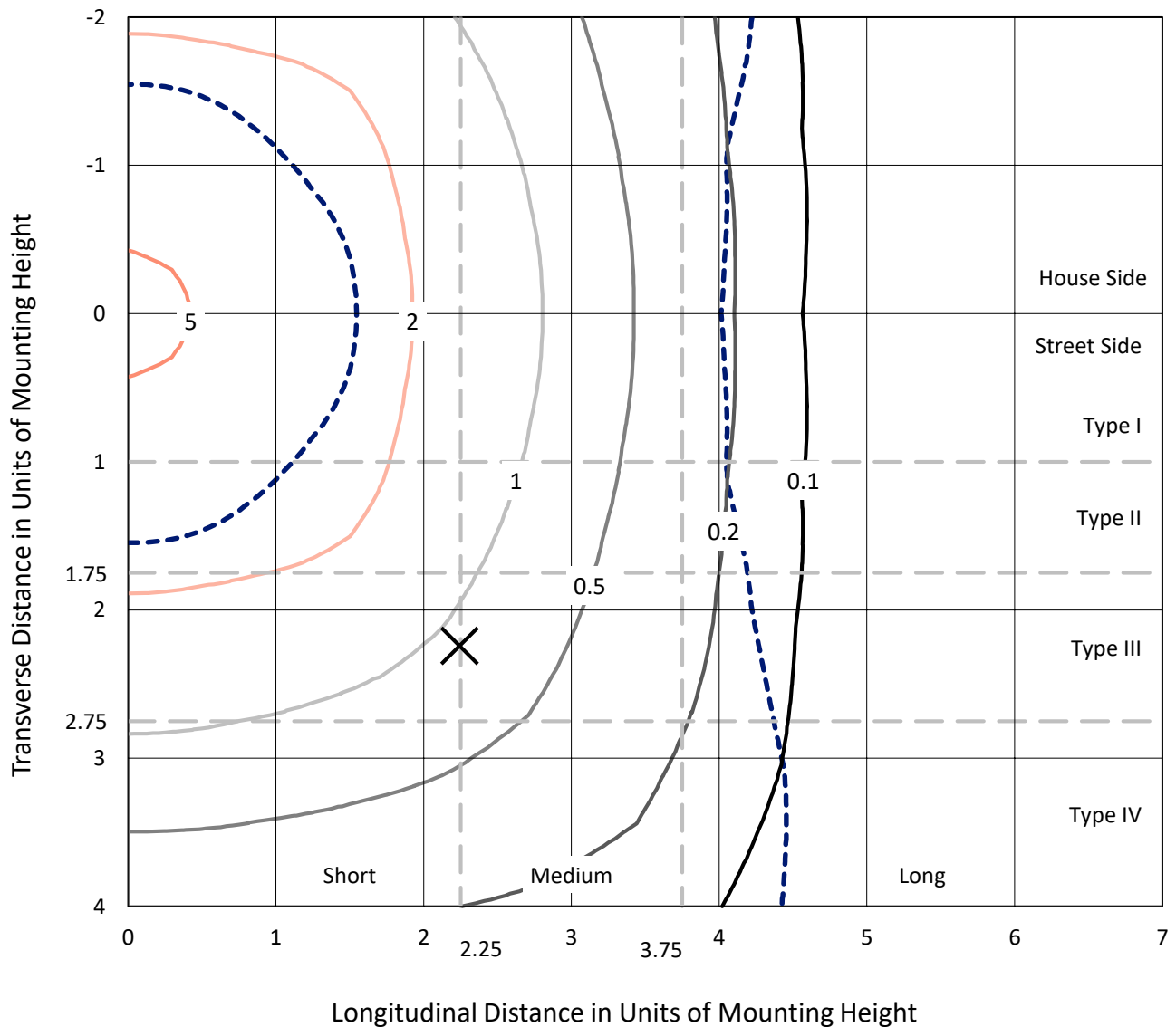


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

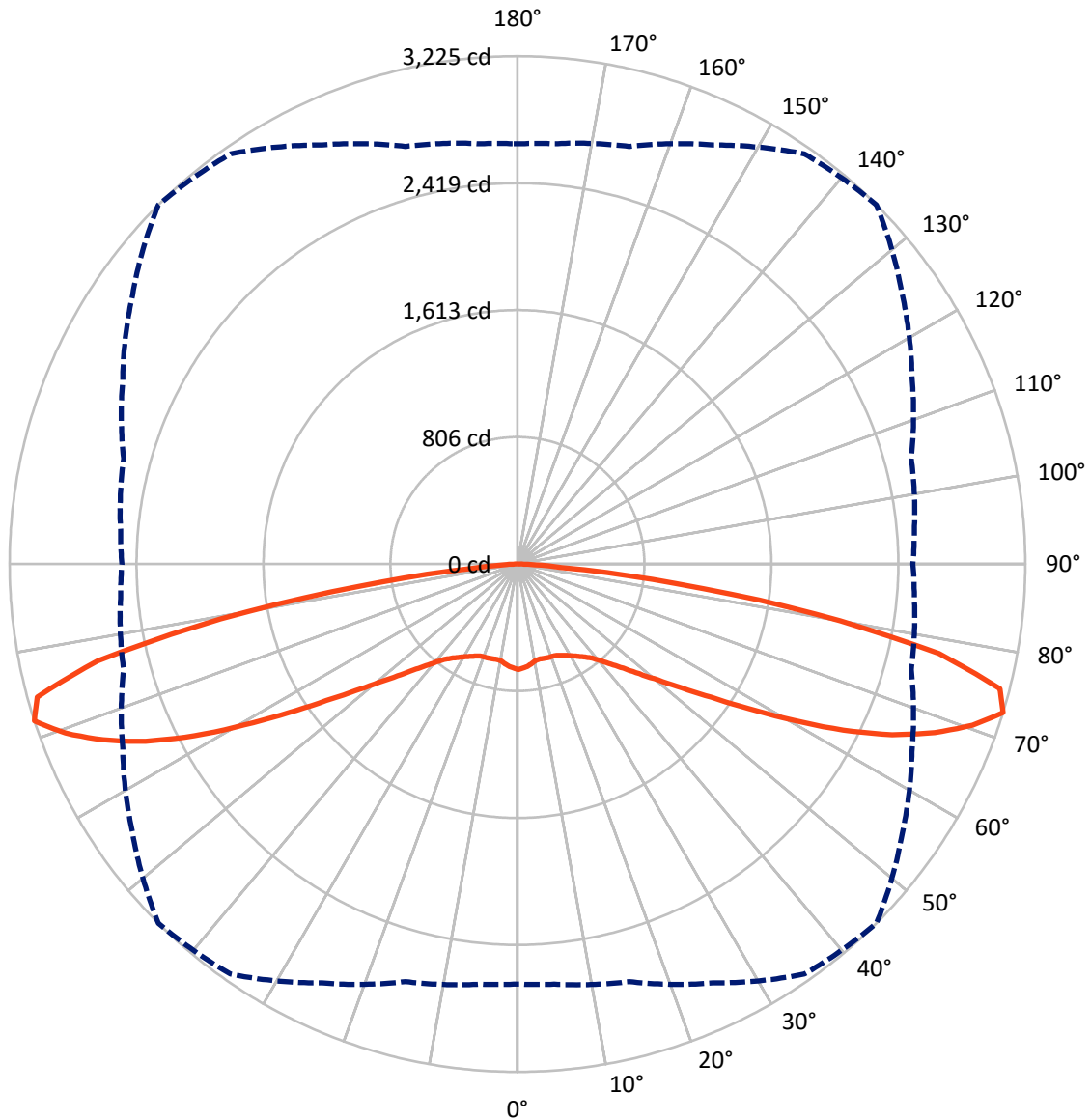


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - Non-Cutoff

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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	4065.3	0.0	4065.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4065.3	0.0	4065.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8130.6	0.0	8130.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	0.8
10°-20°	177.9	2.2
20°-30°	297.7	3.7
30°-40°	457.5	5.6
40°-50°	757.4	9.3
50°-60°	1346.6	16.6
60°-70°	2355.8	29.0
70°-80°	2396.8	29.5
80°-90°	279.1	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°	8130.6	100.0
0°-180°	8130.6	100.0



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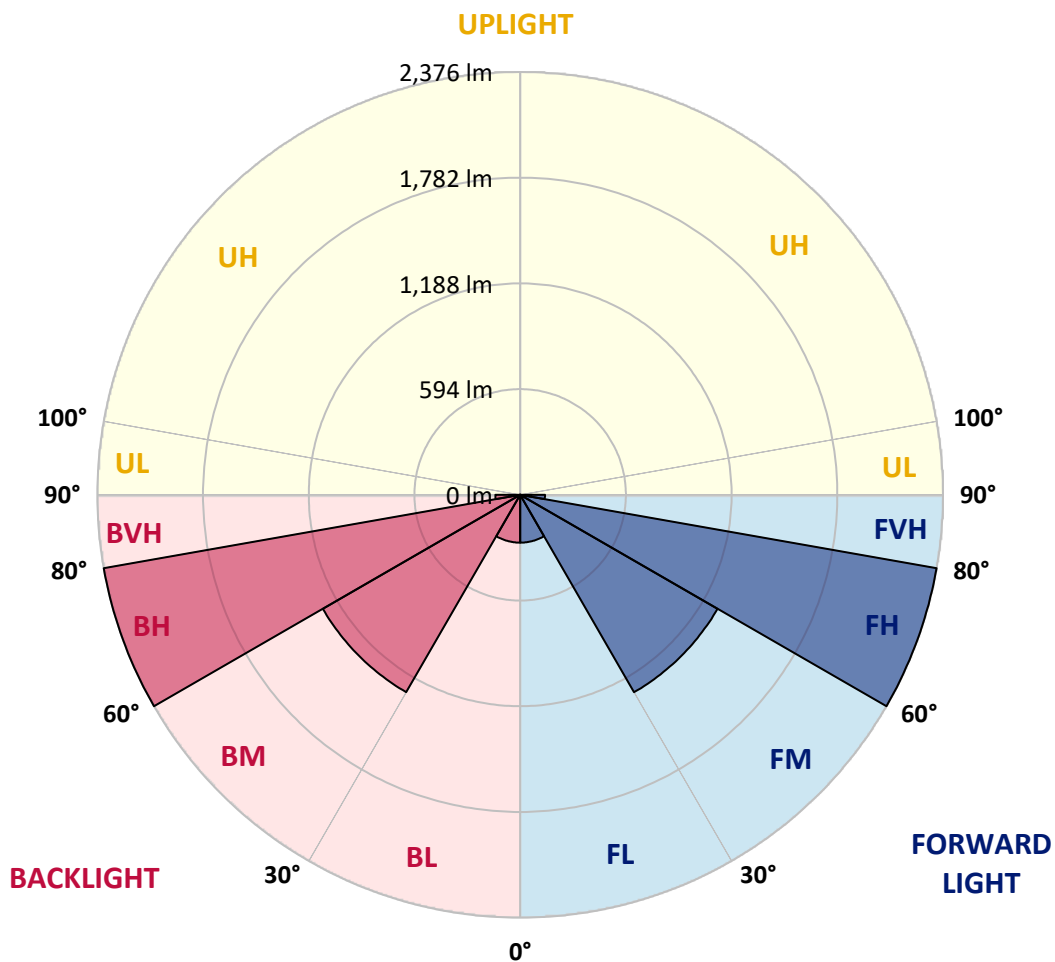
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	268.6	3.3			
FM	(30°-60°)	1280.7	15.8			
FH	(60°-80°)	2376.3	29.2			G2/5000
FVH	(80°-90°)	139.6	1.7			G2/225
BL	(0°-30°)	268.6	3.3	B1/500		
BM	(30°-60°)	1280.7	15.8	B2/2500		
BH	(60°-80°)	2376.3	29.2	B3/2500		G2/5000
BVH	(80°-90°)	139.6	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°	670.1	670.1	670.1	670.1	670.1	670.1	670.1	670.1	670.1	670.1	670.1
2.5°	663.9	665.6	662.4	662.4	662.4	660.9	662.4	660.9	662.4	663.9	663.9
5°	657.7	657.7	654.7	654.7	654.7	653.1	654.7	654.7	656.2	657.7	657.7
7.5°	643.8	643.8	642.3	640.8	639.2	639.2	640.8	640.8	642.3	643.8	643.8
10°	636.1	634.6	631.5	626.7	625.3	623.8	626.7	629.9	634.6	639.2	637.6
12.5°	632.9	631.5	625.3	620.5	617.6	619.1	622.2	625.3	632.9	637.6	636.1
15°	636.1	632.9	625.3	617.6	619.1	622.2	625.3	625.3	634.6	639.2	639.2
17.5°	636.1	634.6	625.3	619.1	620.5	625.3	626.7	625.3	632.9	640.8	640.8
20°	637.6	637.6	625.3	620.5	622.2	626.7	628.4	626.7	632.9	642.3	642.3
22.5°	640.8	639.2	626.7	623.8	626.7	629.9	631.5	629.9	636.1	643.8	645.4
25°	646.9	643.8	632.9	631.5	637.6	642.3	642.3	639.2	642.3	650.1	650.1
27.5°	654.7	653.1	640.8	640.8	648.4	657.7	653.1	646.9	650.1	657.7	657.7
30°	668.6	667.0	654.7	654.7	665.6	676.3	665.6	657.7	662.4	670.1	671.8
32.5°	688.7	688.7	678.0	674.7	693.3	698.1	693.3	678.0	680.9	691.9	691.9
35°	722.7	719.7	708.9	707.2	725.9	724.4	722.7	708.9	711.9	724.4	724.4
37.5°	767.6	766.2	756.8	752.2	761.5	755.2	758.3	752.2	760.0	769.2	770.7
40°	825.0	823.3	815.7	809.5	812.5	803.3	806.4	809.5	817.2	823.3	825.0
42.5°	896.1	896.1	888.3	877.6	873.0	868.2	868.2	874.4	882.1	890.0	890.0
45°	984.4	984.4	975.0	964.2	950.2	942.5	945.6	951.8	961.0	970.3	973.6
47.5°	1088.0	1088.0	1075.6	1064.9	1050.8	1041.6	1041.6	1044.6	1058.7	1066.4	1071.0
50°	1204.1	1199.4	1187.1	1176.2	1168.5	1156.1	1157.6	1156.1	1168.5	1179.4	1182.3
52.5°	1324.8	1323.3	1310.8	1307.8	1312.5	1306.2	1306.2	1290.8	1295.4	1301.6	1300.0
55°	1474.9	1470.3	1459.4	1465.7	1484.2	1493.5	1490.4	1465.7	1451.8	1454.8	1453.3
57.5°	1639.0	1634.3	1631.2	1649.8	1691.6	1730.3	1722.6	1665.3	1639.0	1640.6	1642.1
60°	1806.1	1806.1	1815.5	1861.8	1951.7	2015.1	1991.9	1896.0	1849.5	1840.2	1837.2
62.5°	1978.0	1982.6	2002.7	2080.0	2217.8	2323.0	2264.3	2128.1	2058.5	2039.8	2033.7
65°	2177.6	2182.3	2211.6	2307.6	2490.2	2615.5	2515.0	2386.5	2289.1	2250.3	2244.1
67.5°	2467.0	2470.1	2493.3	2586.2	2757.9	2858.5	2754.9	2640.4	2535.0	2490.2	2487.1
70°	2727.1	2730.0	2750.3	2872.5	3030.4	3065.9	2951.4	2805.9	2696.1	2660.5	2654.3
72.5°	2668.2	2679.0	2745.6	2936.0	3178.9	3225.4	2983.9	2765.7	2589.3	2530.4	2511.9
75°	2237.9	2254.9	2360.2	2646.5	3033.4	3165.0	2792.0	2391.2	2128.1	2015.1	1985.8
77.5°	1306.2	1369.6	1550.7	1917.6	2470.1	2737.9	2299.9	1750.4	1307.8	1122.1	1060.2
80°	357.5	391.7	523.2	882.1	1549.2	1917.6	1467.2	803.3	433.3	324.9	301.8
82.5°	112.9	150.1	190.4	253.9	608.2	1010.7	544.8	236.9	185.7	153.3	136.3
85°	60.4	64.9	106.8	123.8	182.6	283.2	168.7	123.8	111.4	82.0	77.3
87.5°	30.9	32.5	60.4	60.4	80.5	66.6	72.8	66.6	63.5	40.2	35.7
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)