

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: P234679

Luminaire Tested: **ARCH-AF24-80-D-U-5WQ-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234679
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-8027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 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: 7271 lumens
Efficiency: N/A
Efficacy: 87.6 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

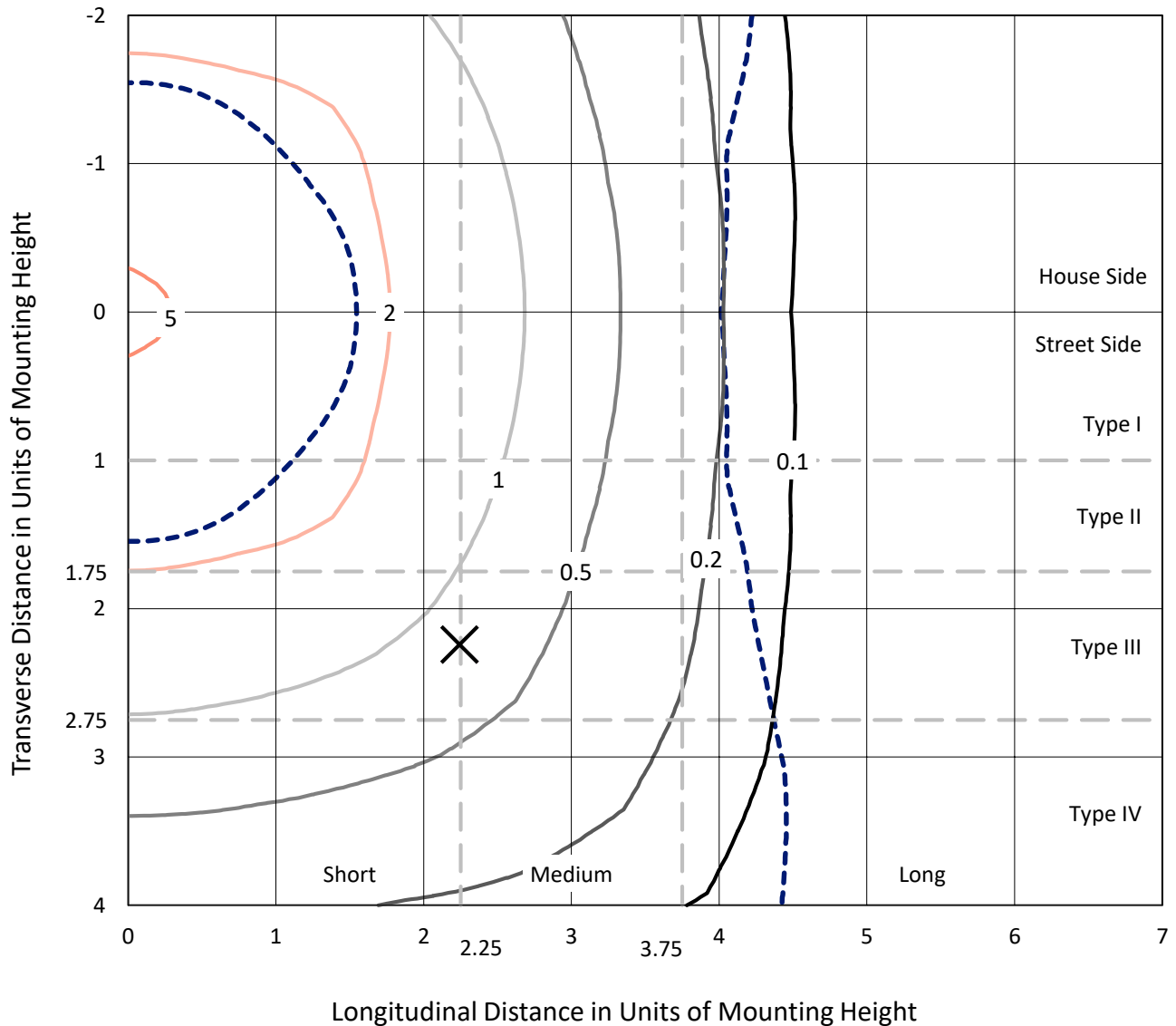


REPORT NUMBER: P234679

CATALOG NUMBER: ARCH-AF24-80-D-U-5WQ-8027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

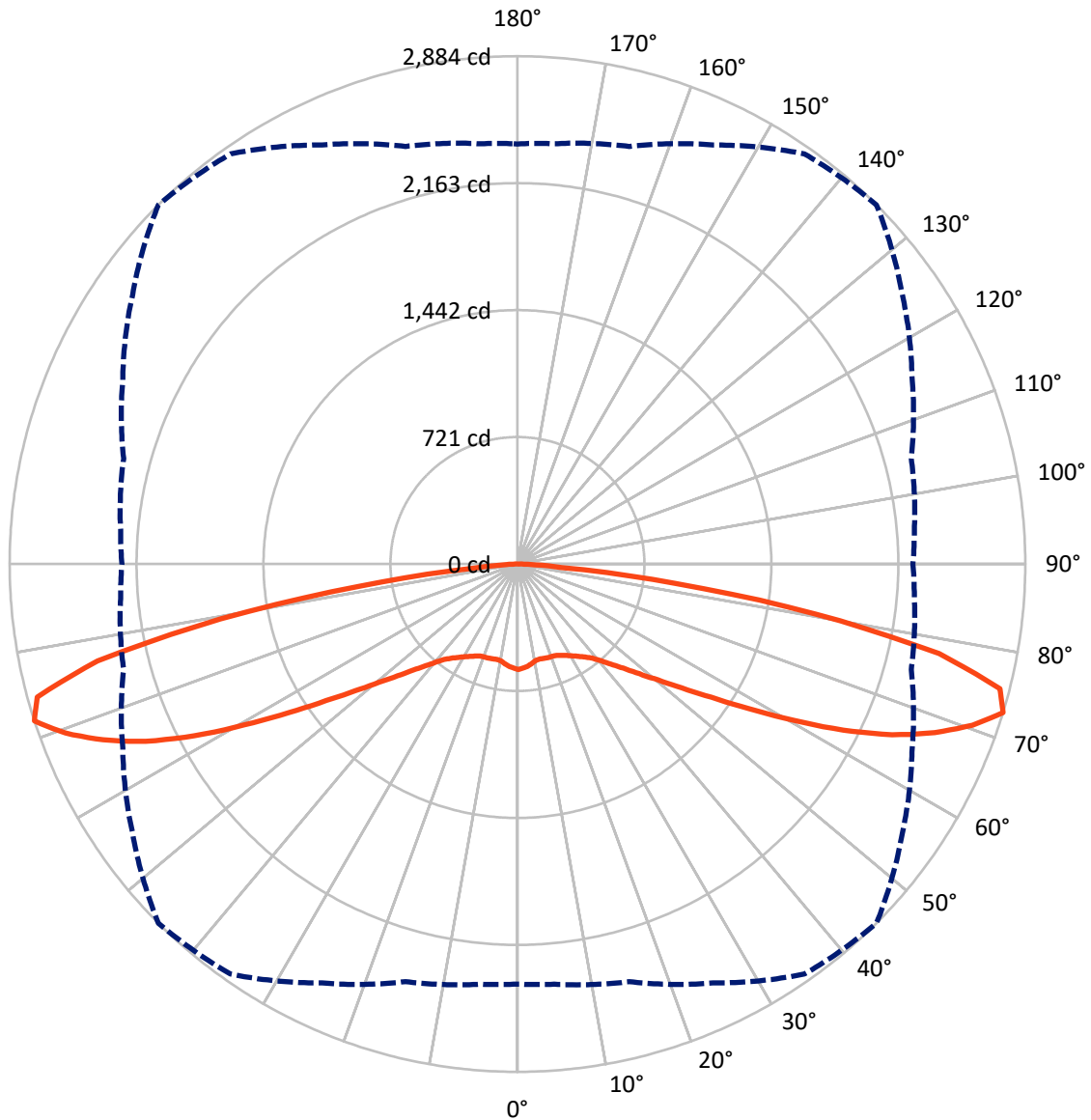


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P234679

CATALOG NUMBER: ARCH-AF24-80-D-U-5WQ-8027

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P234679

CATALOG NUMBER: ARCH-AF24-80-D-U-5WQ-8027

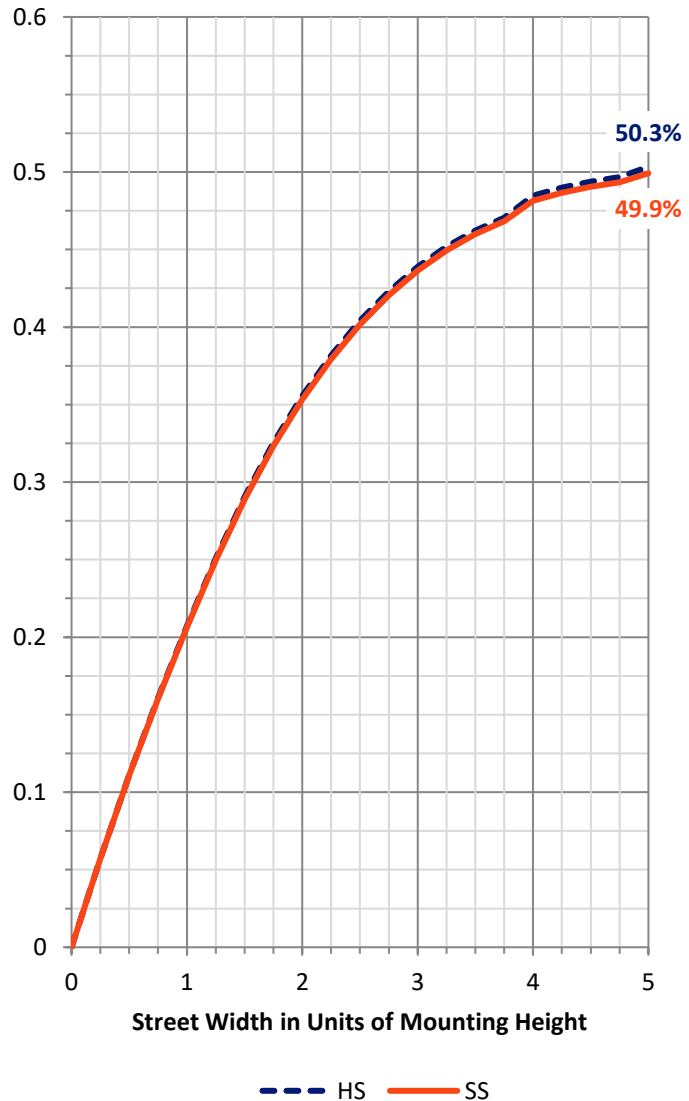
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3635.5	0.0	3635.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3635.5	0.0	3635.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7271.0	0.0	7271.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	0.8
10°-20°	159.1	2.2
20°-30°	266.2	3.7
30°-40°	409.1	5.6
40°-50°	677.4	9.3
50°-60°	1204.2	16.6
60°-70°	2106.8	29.0
70°-80°	2143.5	29.5
80°-90°	249.6	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°	7271.0	100.0
0°-180°	7271.0	100.0



REPORT NUMBER: P234679

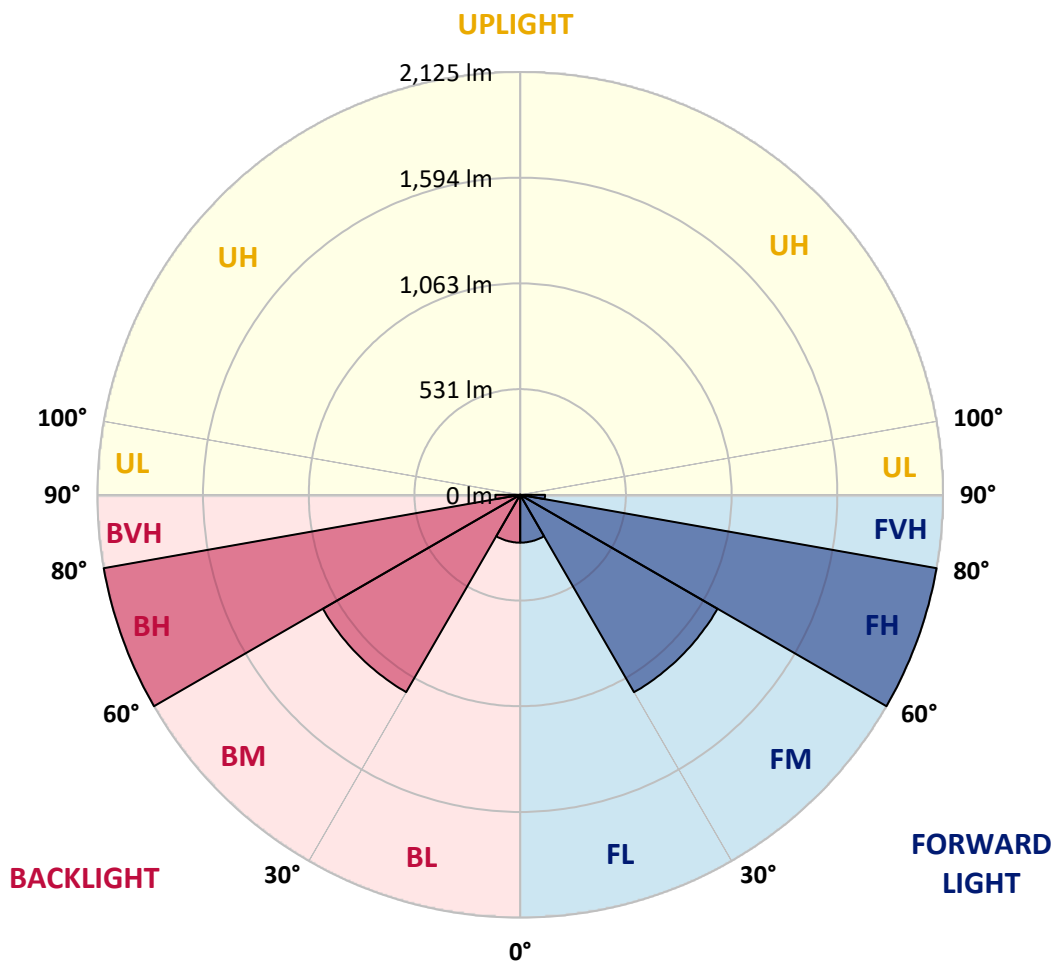
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.2	3.3			
FM	(30°-60°)	1145.3	15.8			
FH	(60°-80°)	2125.1	29.2			G2/5000
FVH	(80°-90°)	124.8	1.7			G2/225
BL	(0°-30°)	240.2	3.3	B1/500		
BM	(30°-60°)	1145.3	15.8	B2/2500		
BH	(60°-80°)	2125.1	29.2	B3/2500		G2/5000
BVH	(80°-90°)	124.8	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°	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3	599.3
2.5°	593.8	595.1	592.4	592.4	592.4	591.0	592.4	591.0	592.4	593.8	593.8
5°	588.2	588.2	585.5	585.5	585.5	584.1	585.5	585.5	586.8	588.2	588.2
7.5°	575.8	575.8	574.4	573.0	571.6	571.6	573.0	573.0	574.4	575.8	575.8
10°	568.8	567.5	564.7	560.5	559.2	557.8	560.5	563.3	567.5	571.6	570.2
12.5°	566.1	564.7	559.2	555.0	552.2	553.6	556.4	559.2	566.1	570.2	568.8
15°	568.8	566.1	559.2	552.2	553.6	556.4	559.2	559.2	567.5	571.6	571.6
17.5°	568.8	567.5	559.2	553.6	555.0	559.2	560.5	559.2	566.1	573.0	573.0
20°	570.2	570.2	559.2	555.0	556.4	560.5	561.9	560.5	566.1	574.4	574.4
22.5°	573.0	571.6	560.5	557.8	560.5	563.3	564.7	563.3	568.8	575.8	577.2
25°	578.5	575.8	566.1	564.7	570.2	574.4	574.4	571.6	574.4	581.3	581.3
27.5°	585.5	584.1	573.0	573.0	579.9	588.2	584.1	578.5	581.3	588.2	588.2
30°	597.9	596.5	585.5	585.5	595.1	604.8	595.1	588.2	592.4	599.3	600.7
32.5°	615.9	615.9	606.2	603.5	620.1	624.2	620.1	606.2	609.0	618.7	618.7
35°	646.4	643.6	633.9	632.5	649.1	647.7	646.4	633.9	636.7	647.7	647.7
37.5°	686.5	685.1	676.8	672.7	681.0	675.4	678.2	672.7	679.6	687.9	689.3
40°	737.7	736.3	729.4	723.9	726.6	718.3	721.1	723.9	730.8	736.3	737.7
42.5°	801.4	801.4	794.5	784.8	780.6	776.5	776.5	782.0	788.9	795.8	795.8
45°	880.3	880.3	872.0	862.3	849.8	842.9	845.7	851.2	859.5	867.8	870.6
47.5°	973.0	973.0	961.9	952.2	939.8	931.5	931.5	934.2	946.7	953.6	957.8
50°	1076.8	1072.6	1061.6	1051.9	1045.0	1033.9	1035.3	1033.9	1045.0	1054.7	1057.4
52.5°	1184.8	1183.4	1172.3	1169.5	1173.7	1168.1	1168.1	1154.3	1158.5	1164.0	1162.6
55°	1319.0	1314.9	1305.2	1310.7	1327.3	1335.6	1332.9	1310.7	1298.3	1301.0	1299.6
57.5°	1465.7	1461.6	1458.8	1475.4	1512.8	1547.4	1540.5	1489.3	1465.7	1467.1	1468.5
60°	1615.2	1615.2	1623.5	1665.0	1745.3	1802.1	1781.3	1695.5	1654.0	1645.7	1642.9
62.5°	1768.8	1773.0	1791.0	1860.2	1983.4	2077.5	2024.9	1903.1	1840.8	1824.2	1818.7
65°	1947.4	1951.5	1977.8	2063.6	2227.0	2339.1	2249.1	2134.2	2047.0	2012.4	2006.9
67.5°	2206.2	2209.0	2229.7	2312.8	2466.4	2556.4	2463.6	2361.2	2267.1	2227.0	2224.2
70°	2438.7	2441.5	2459.5	2568.8	2710.0	2741.8	2639.4	2509.3	2411.0	2379.2	2373.7
72.5°	2386.1	2395.8	2455.3	2625.6	2842.9	2884.4	2668.5	2473.3	2315.5	2262.9	2246.3
75°	2001.4	2016.6	2110.7	2366.7	2712.8	2830.4	2496.8	2138.4	1903.1	1802.1	1775.8
77.5°	1168.1	1224.9	1386.8	1714.9	2209.0	2448.4	2056.7	1565.4	1169.5	1003.4	948.1
80°	319.7	350.2	467.8	788.9	1385.4	1714.9	1312.1	718.3	387.5	290.7	269.9
82.5°	101.0	134.3	170.2	227.0	543.9	903.8	487.2	211.8	166.1	137.0	121.8
85°	54.0	58.1	95.5	110.7	163.3	253.3	150.9	110.7	99.7	73.4	69.2
87.5°	27.7	29.1	54.0	54.0	72.0	59.5	65.1	59.5	56.7	36.0	31.8
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)