

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: P214523

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214523
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
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 9572.8 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 83
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

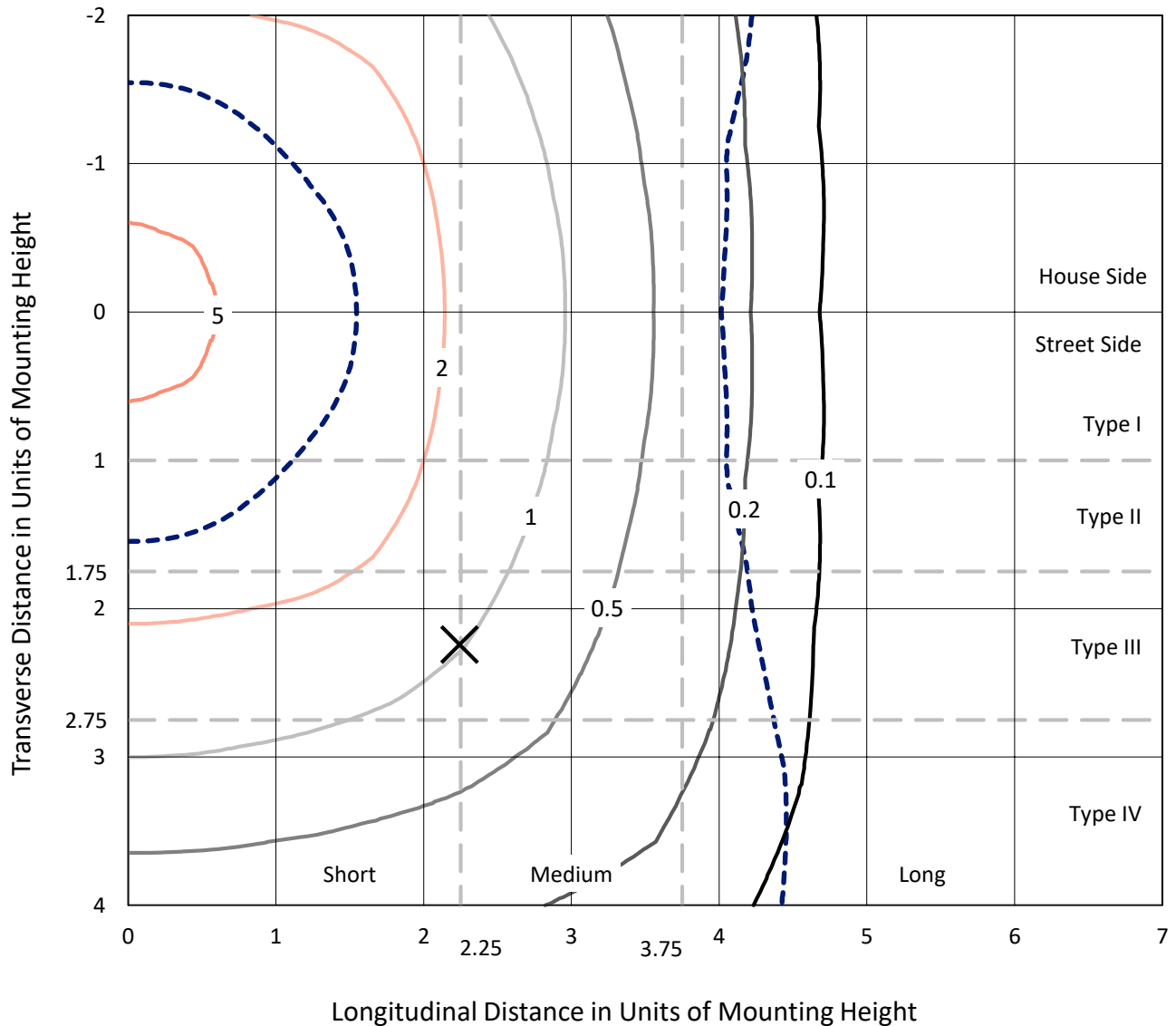


REPORT NUMBER: P214523

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

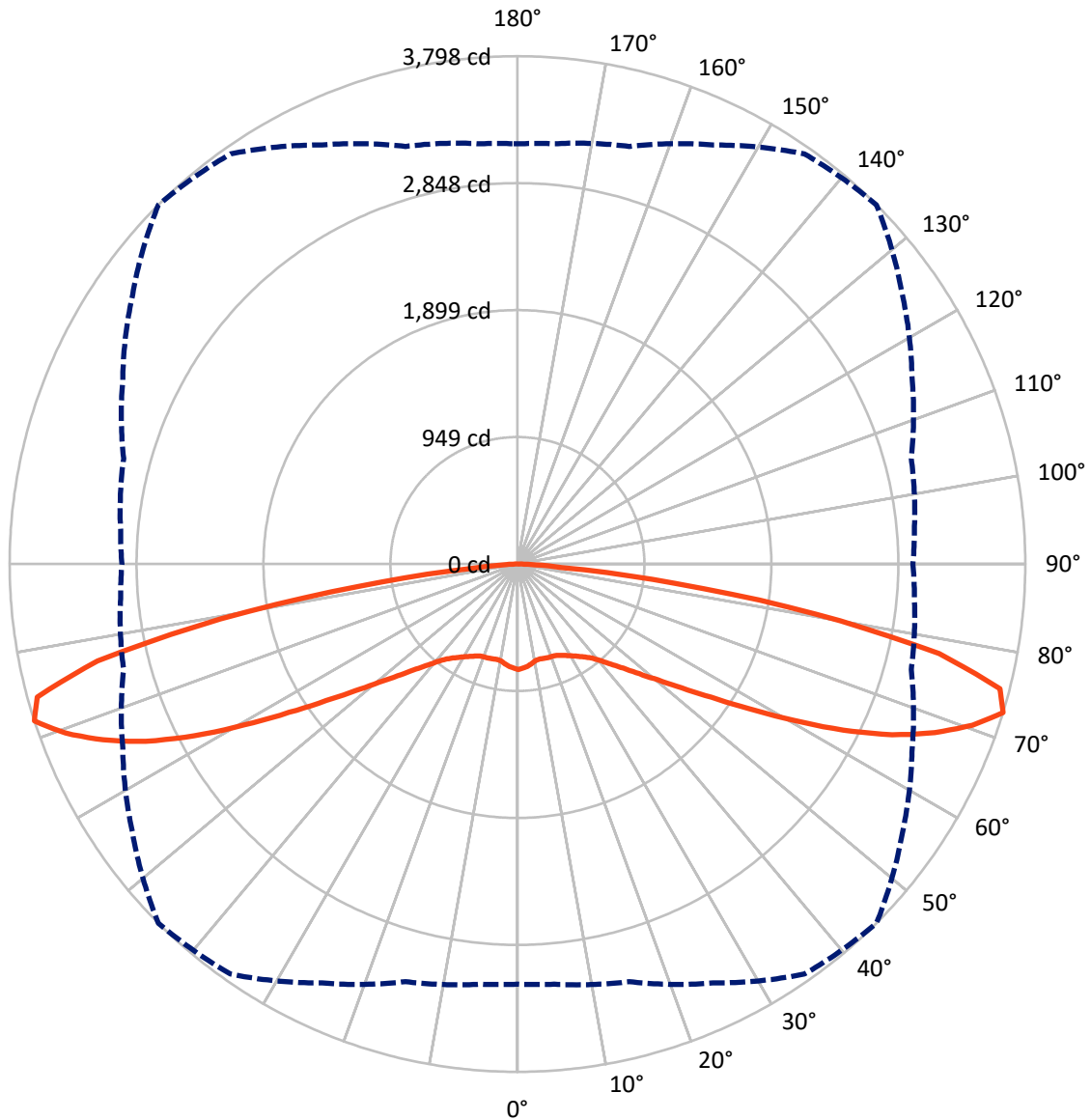


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P214523

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

Luminous Intensity Polar Plot



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



REPORT NUMBER: P214523

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4786.4	0.0	4786.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4786.4	0.0	4786.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9572.8	0.0	9572.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	0.8
10°-20°	209.5	2.2
20°-30°	350.5	3.7
30°-40°	538.6	5.6
40°-50°	891.8	9.3
50°-60°	1585.4	16.6
60°-70°	2773.7	29.0
70°-80°	2822.0	29.5
80°-90°	328.6	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°	9572.8	100.0
0°-180°	9572.8	100.0

Coefficient of Utilization



REPORT NUMBER: P214523

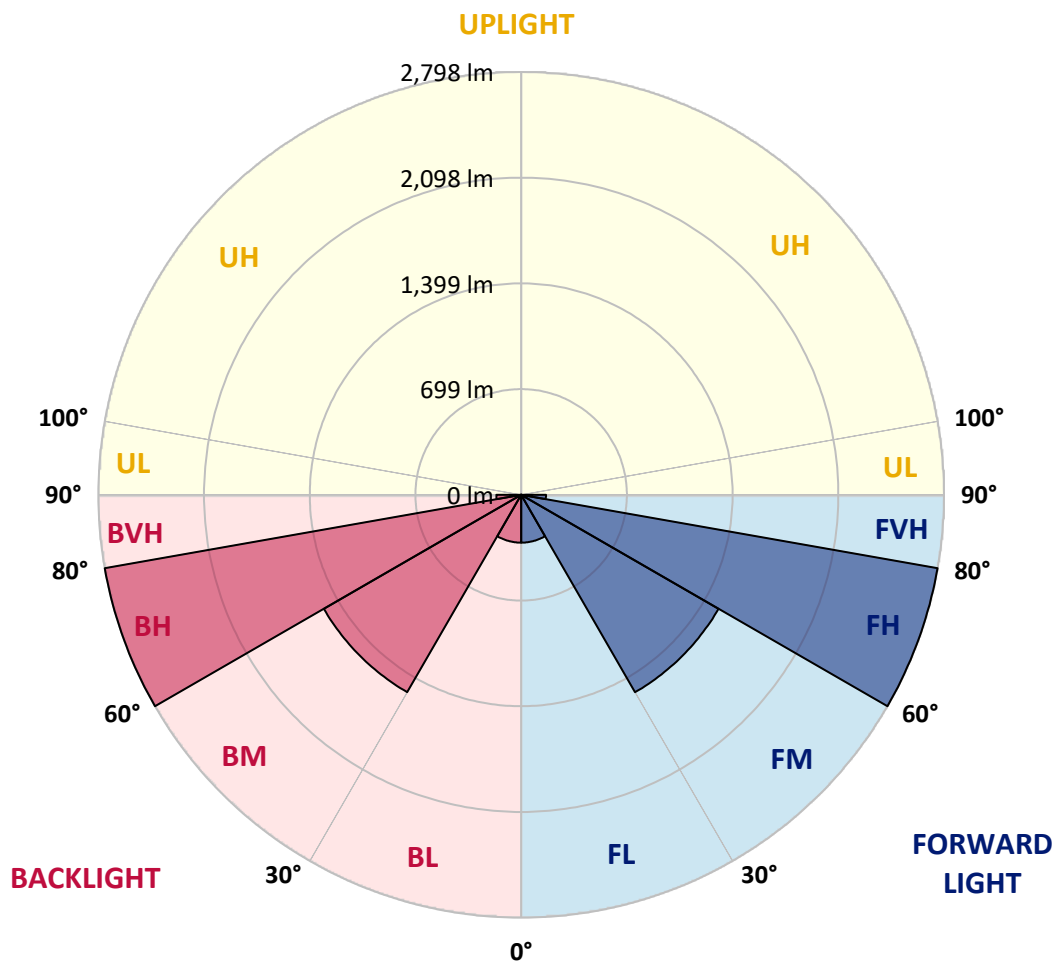
CATALOG NUMBER: ARCH-AF24-80-D-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.3	3.3			
FM (30°-60°)	1507.9	15.8			
FH (60°-80°)	2797.9	29.2			G2/5000
FVH (80°-90°)	164.3	1.7			G2/225
BL (0°-30°)	316.3	3.3	B1/500		
BM (30°-60°)	1507.9	15.8	B2/2500		
BH (60°-80°)	2797.9	29.2	B4/5000		G2/5000
BVH (80°-90°)	164.3	1.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P214523

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	789.0	789.0	789.0	789.0	789.0	789.0	789.0	789.0	789.0	789.0	789.0
2.5°	781.7	783.6	779.9	779.9	779.9	778.1	779.9	778.1	779.9	781.7	781.7
5°	774.5	774.5	770.8	770.8	770.8	769.0	770.8	770.8	772.6	774.5	774.5
7.5°	758.0	758.0	756.3	754.4	752.6	752.6	754.4	754.4	756.3	758.0	758.0
10°	748.9	747.1	743.5	738.0	736.2	734.4	738.0	741.6	747.1	752.6	750.7
12.5°	745.3	743.5	736.2	730.7	727.1	728.9	732.5	736.2	745.3	750.7	748.9
15°	748.9	745.3	736.2	727.1	728.9	732.5	736.2	736.2	747.1	752.6	752.6
17.5°	748.9	747.1	736.2	728.9	730.7	736.2	738.0	736.2	745.3	754.4	754.4
20°	750.7	750.7	736.2	730.7	732.5	738.0	739.8	738.0	745.3	756.3	756.3
22.5°	754.4	752.6	738.0	734.4	738.0	741.6	743.5	741.6	748.9	758.0	759.8
25°	761.7	758.0	745.3	743.5	750.7	756.3	756.3	752.6	756.3	765.4	765.4
27.5°	770.8	769.0	754.4	754.4	763.5	774.5	769.0	761.7	765.4	774.5	774.5
30°	787.2	785.4	770.8	770.8	783.6	796.3	783.6	774.5	779.9	789.0	790.8
32.5°	810.9	810.9	798.1	794.5	816.3	821.8	816.3	798.1	801.8	814.6	814.6
35°	851.0	847.3	834.5	832.8	854.6	852.8	851.0	834.5	838.2	852.8	852.8
37.5°	903.8	902.0	891.1	885.6	896.5	889.3	892.9	885.6	894.7	905.6	907.5
40°	971.2	969.5	960.3	953.0	956.7	945.7	949.4	953.0	962.1	969.5	971.2
42.5°	1055.1	1055.1	1046.0	1033.2	1027.8	1022.2	1022.2	1029.6	1038.7	1047.8	1047.8
45°	1158.9	1158.9	1148.0	1135.3	1118.8	1109.7	1113.4	1120.6	1131.6	1142.5	1146.2
47.5°	1281.0	1281.0	1266.4	1253.7	1237.3	1226.3	1226.3	1230.0	1246.4	1255.5	1261.0
50°	1417.7	1412.2	1397.7	1384.9	1375.8	1361.2	1363.0	1361.2	1375.8	1388.6	1392.1
52.5°	1559.8	1558.0	1543.4	1539.7	1545.3	1537.9	1537.9	1519.7	1525.2	1532.5	1530.6
55°	1736.6	1731.1	1718.4	1725.6	1747.5	1758.5	1754.8	1725.6	1709.2	1712.9	1711.1
57.5°	1929.7	1924.3	1920.6	1942.5	1991.7	2037.2	2028.1	1960.7	1929.7	1931.5	1933.4
60°	2126.5	2126.5	2137.5	2192.1	2297.9	2372.5	2345.2	2232.2	2177.6	2166.6	2162.9
62.5°	2328.7	2334.3	2357.9	2449.0	2611.2	2735.2	2665.9	2505.5	2423.6	2401.7	2394.4
65°	2563.8	2569.3	2603.9	2717.0	2932.0	3079.6	2961.1	2809.8	2695.1	2649.5	2642.2
67.5°	2904.6	2908.2	2935.6	3044.9	3247.2	3365.6	3243.6	3108.7	2984.8	2932.0	2928.3
70°	3210.7	3214.4	3238.0	3382.1	3567.8	3609.8	3475.0	3303.7	3174.3	3132.4	3125.1
72.5°	3141.5	3154.3	3232.6	3456.8	3742.9	3797.5	3513.2	3256.3	3048.6	2979.3	2957.5
75°	2634.9	2655.0	2778.8	3116.0	3571.5	3726.4	3287.3	2815.4	2505.5	2372.5	2337.9
77.5°	1537.9	1612.7	1825.9	2257.8	2908.2	3223.5	2707.9	2060.9	1539.7	1321.1	1248.2
80°	420.9	461.0	615.9	1038.7	1824.0	2257.8	1727.5	945.7	510.2	382.7	355.4
82.5°	133.0	176.8	224.1	298.8	716.2	1189.9	641.4	278.8	218.7	180.4	160.4
85°	71.1	76.5	125.7	145.8	215.0	333.5	198.7	145.8	131.2	96.6	91.1
87.5°	36.4	38.3	71.1	71.1	94.7	78.4	85.6	78.4	74.7	47.4	41.9
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)