

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: P214532

Luminaire Tested: **ARCH-AF24-30-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214532
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-AF24-30-D-U-5WQ-7050
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4067 lumens
Efficiency: N/A
Efficacy: 131.2 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 - G1

Input Watts (W): 31
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

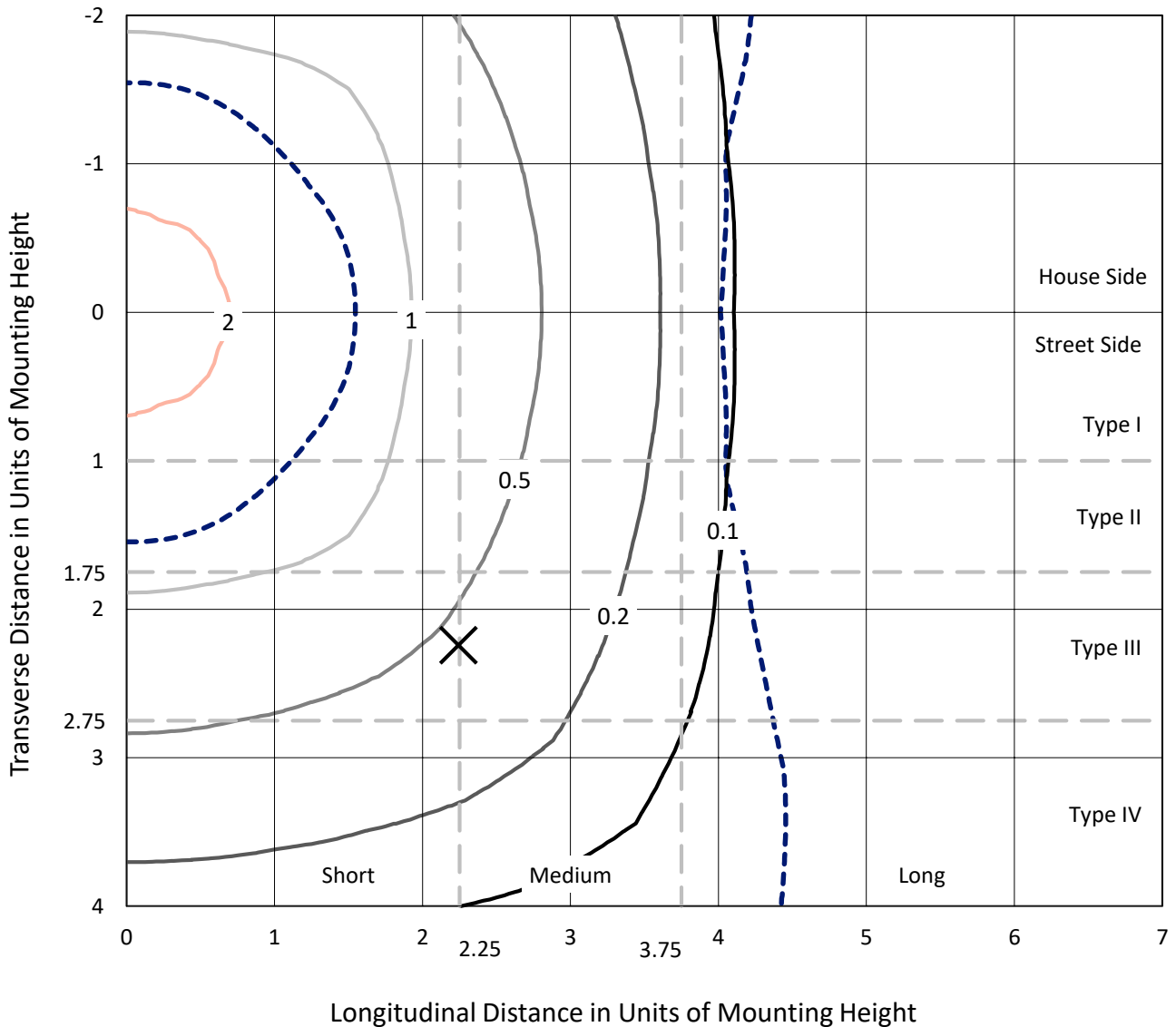




REPORT NUMBER: P214532
 CATALOG NUMBER: ARCH-AF24-30-D-U-5WQ-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

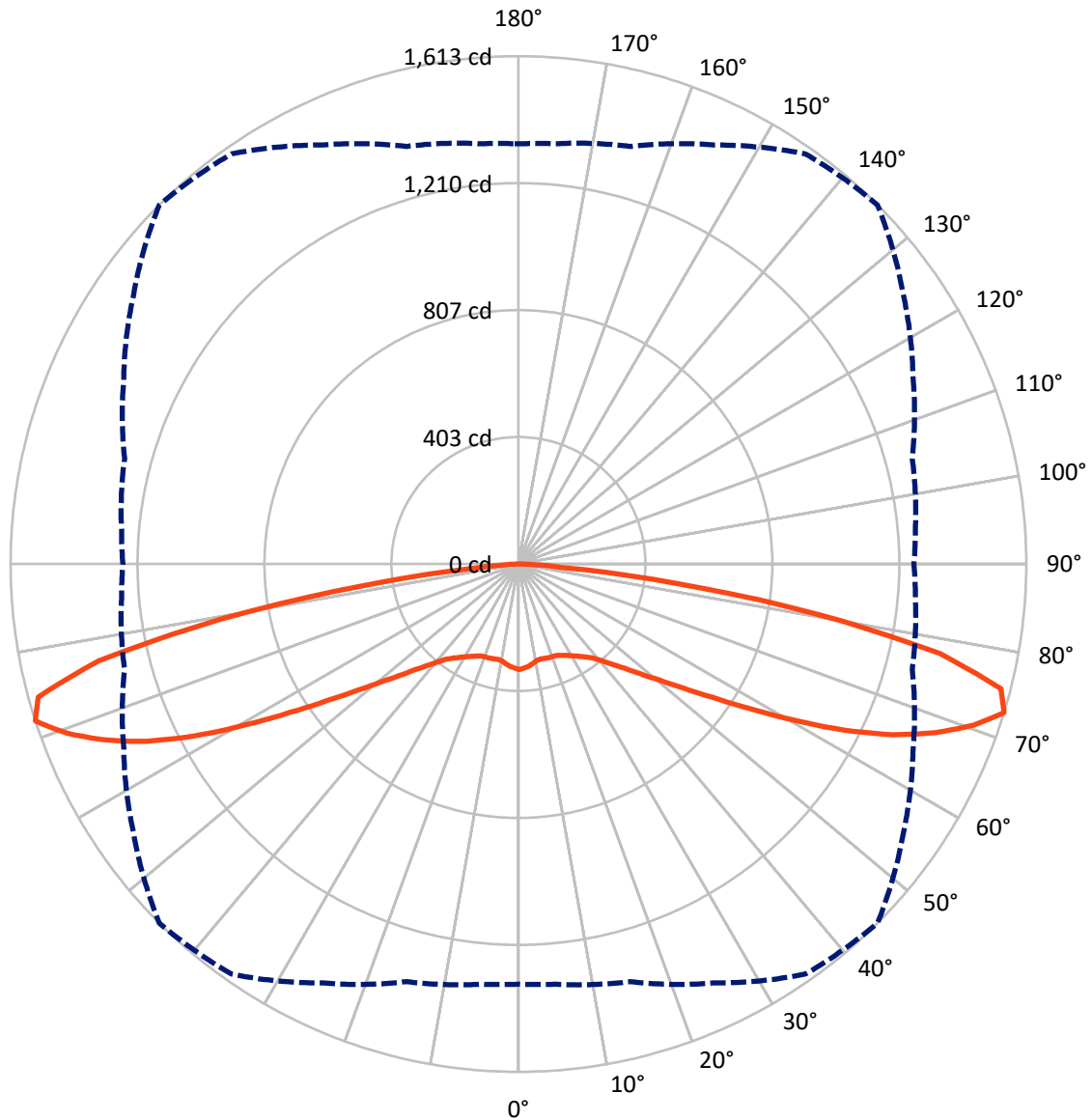


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P214532

CATALOG NUMBER: ARCH-AF24-30-D-U-5WQ-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P214532

CATALOG NUMBER: ARCH-AF24-30-D-U-5WQ-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2033.5	0.0	2033.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2033.5	0.0	2033.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4067.0	0.0	4067.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	0.8
10°-20°	89.0	2.2
20°-30°	148.9	3.7
30°-40°	228.8	5.6
40°-50°	378.9	9.3
50°-60°	673.6	16.6
60°-70°	1178.4	29.0
70°-80°	1198.9	29.5
80°-90°	139.6	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°	4067.0	100.0
0°-180°	4067.0	100.0



REPORT NUMBER: P214532

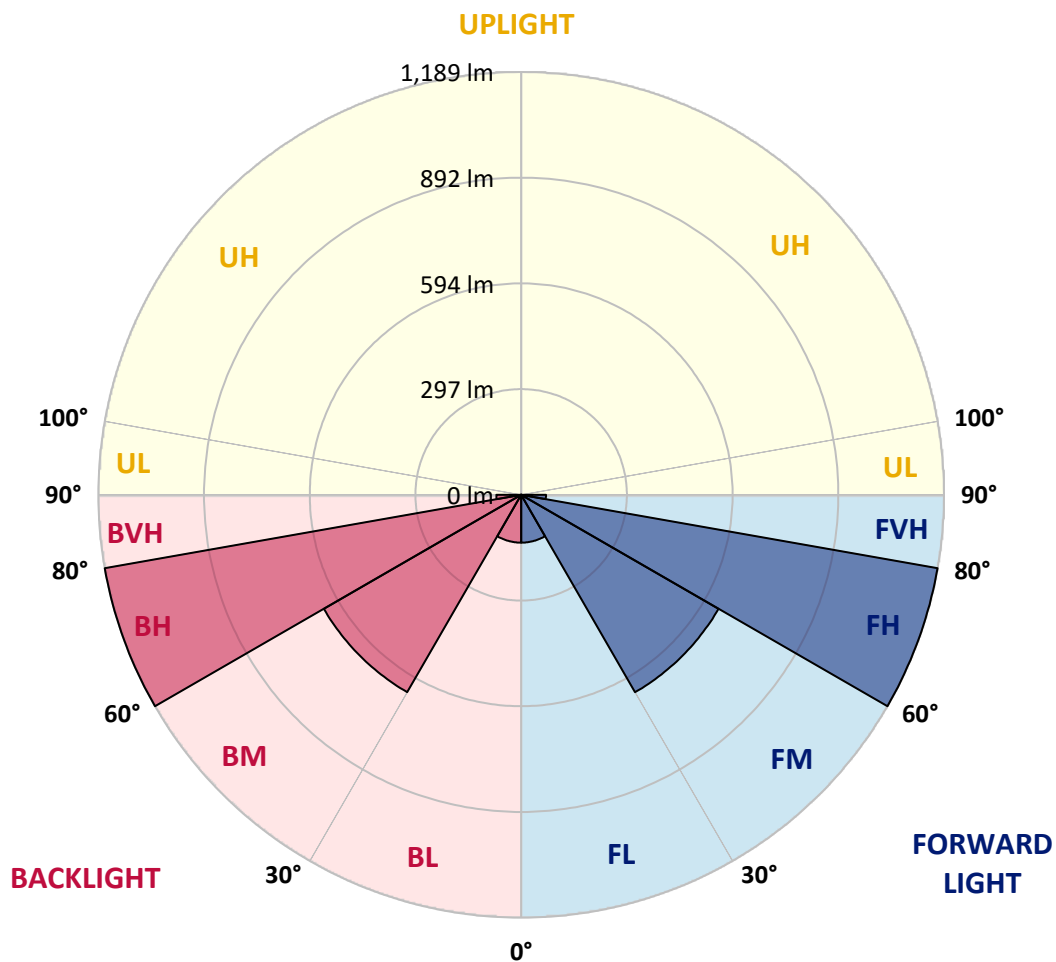
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	134.4	3.3			
FM	(30°-60°)	640.6	15.8			
FH	(60°-80°)	1188.7	29.2			G1/1800
FVH	(80°-90°)	69.8	1.7			G1/100
BL	(0°-30°)	134.4	3.3	B1/500		
BM	(30°-60°)	640.6	15.8	B1/1000		
BH	(60°-80°)	1188.7	29.2	B3/2500		G1/1800
BVH	(80°-90°)	69.8	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2
2.5°	332.1	332.9	331.3	331.3	331.3	330.6	331.3	330.6	331.3	332.1	332.1
5°	329.0	329.0	327.5	327.5	327.5	326.7	327.5	327.5	328.2	329.0	329.0
7.5°	322.1	322.1	321.3	320.5	319.7	319.7	320.5	320.5	321.3	322.1	322.1
10°	318.2	317.4	315.9	313.5	312.8	312.0	313.5	315.1	317.4	319.7	319.0
12.5°	316.6	315.9	312.8	310.4	308.9	309.7	311.2	312.8	316.6	319.0	318.2
15°	318.2	316.6	312.8	308.9	309.7	311.2	312.8	312.8	317.4	319.7	319.7
17.5°	318.2	317.4	312.8	309.7	310.4	312.8	313.5	312.8	316.6	320.5	320.5
20°	319.0	319.0	312.8	310.4	311.2	313.5	314.3	313.5	316.6	321.3	321.3
22.5°	320.5	319.7	313.5	312.0	313.5	315.1	315.9	315.1	318.2	322.1	322.8
25°	323.6	322.1	316.6	315.9	319.0	321.3	321.3	319.7	321.3	325.2	325.2
27.5°	327.5	326.7	320.5	320.5	324.4	329.0	326.7	323.6	325.2	329.0	329.0
30°	334.4	333.7	327.5	327.5	332.9	338.3	332.9	329.0	331.3	335.2	336.0
32.5°	344.5	344.5	339.1	337.5	346.8	349.2	346.8	339.1	340.6	346.1	346.1
35°	361.5	360.0	354.6	353.8	363.1	362.3	361.5	354.6	356.1	362.3	362.3
37.5°	384.0	383.2	378.6	376.2	380.9	377.8	379.3	376.2	380.1	384.8	385.5
40°	412.6	411.9	408.0	404.9	406.4	401.8	403.3	404.9	408.8	411.9	412.6
42.5°	448.2	448.2	444.4	439.0	436.6	434.3	434.3	437.4	441.3	445.1	445.1
45°	492.4	492.4	487.7	482.3	475.3	471.5	473.0	476.1	480.8	485.4	487.0
47.5°	544.2	544.2	538.0	532.6	525.7	521.0	521.0	522.6	529.5	533.4	535.7
50°	602.3	600.0	593.8	588.4	584.5	578.3	579.1	578.3	584.5	589.9	591.5
52.5°	662.7	661.9	655.7	654.2	656.5	653.4	653.4	645.7	648.0	651.1	650.3
55°	737.8	735.5	730.0	733.1	742.4	747.1	745.5	733.1	726.2	727.7	726.9
57.5°	819.8	817.5	816.0	825.3	846.2	865.5	861.7	833.0	819.8	820.6	821.4
60°	903.5	903.5	908.1	931.3	976.2	1008.0	996.4	948.4	925.1	920.5	918.9
62.5°	989.4	991.7	1001.8	1040.5	1109.4	1162.0	1132.6	1064.5	1029.6	1020.4	1017.3
65°	1089.3	1091.6	1106.3	1154.3	1245.6	1308.3	1258.0	1193.8	1145.0	1125.6	1122.5
67.5°	1234.0	1235.6	1247.2	1293.6	1379.6	1429.9	1378.0	1320.7	1268.1	1245.6	1244.1
70°	1364.1	1365.6	1375.7	1436.9	1515.8	1533.6	1476.3	1403.6	1348.6	1330.8	1327.7
72.5°	1334.7	1340.1	1373.4	1468.6	1590.1	1613.4	1492.6	1383.4	1295.2	1265.8	1256.5
75°	1119.4	1128.0	1180.6	1323.8	1517.4	1583.2	1396.6	1196.1	1064.5	1008.0	993.3
77.5°	653.4	685.1	775.7	959.2	1235.6	1369.5	1150.4	875.6	654.2	561.3	530.3
80°	178.8	195.9	261.7	441.3	774.9	959.2	733.9	401.8	216.8	162.6	151.0
82.5°	56.5	75.1	95.2	127.0	304.2	505.5	272.5	118.4	92.9	76.6	68.1
85°	30.2	32.5	53.4	61.9	91.4	141.7	84.4	61.9	55.7	41.0	38.7
87.5°	15.5	16.3	30.2	30.2	40.3	33.3	36.4	33.3	31.7	20.1	17.8
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)