

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: P214526

Luminaire Tested: **ARCH-AF16-20-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214526
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-AF16-20-D-U-5WQ-7050
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 420mA LIGHT ENGINE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3037 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

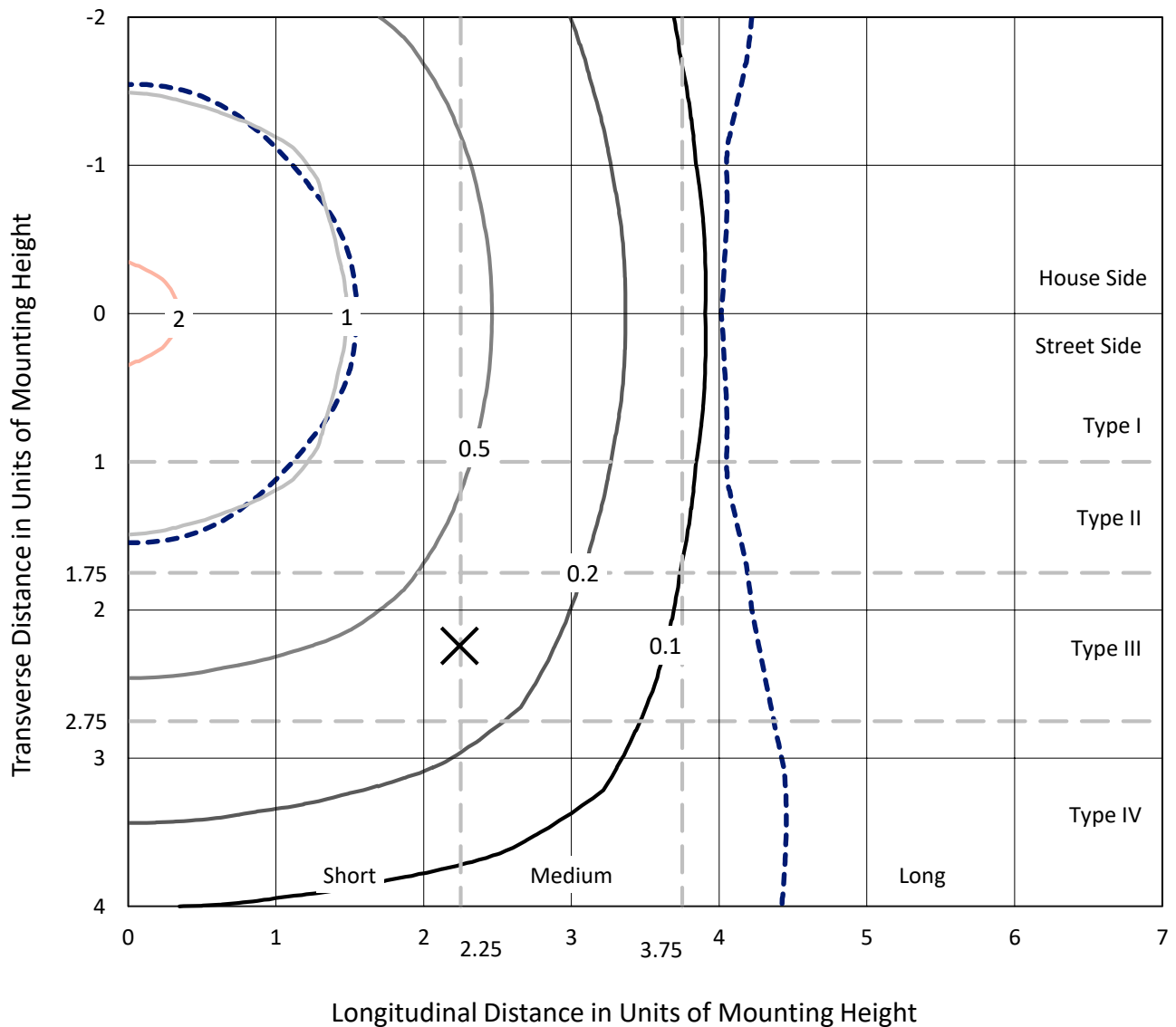
Input Watts (W): 24
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P214526
 CATALOG NUMBER: ARCH-AF16-20-D-U-5WQ-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

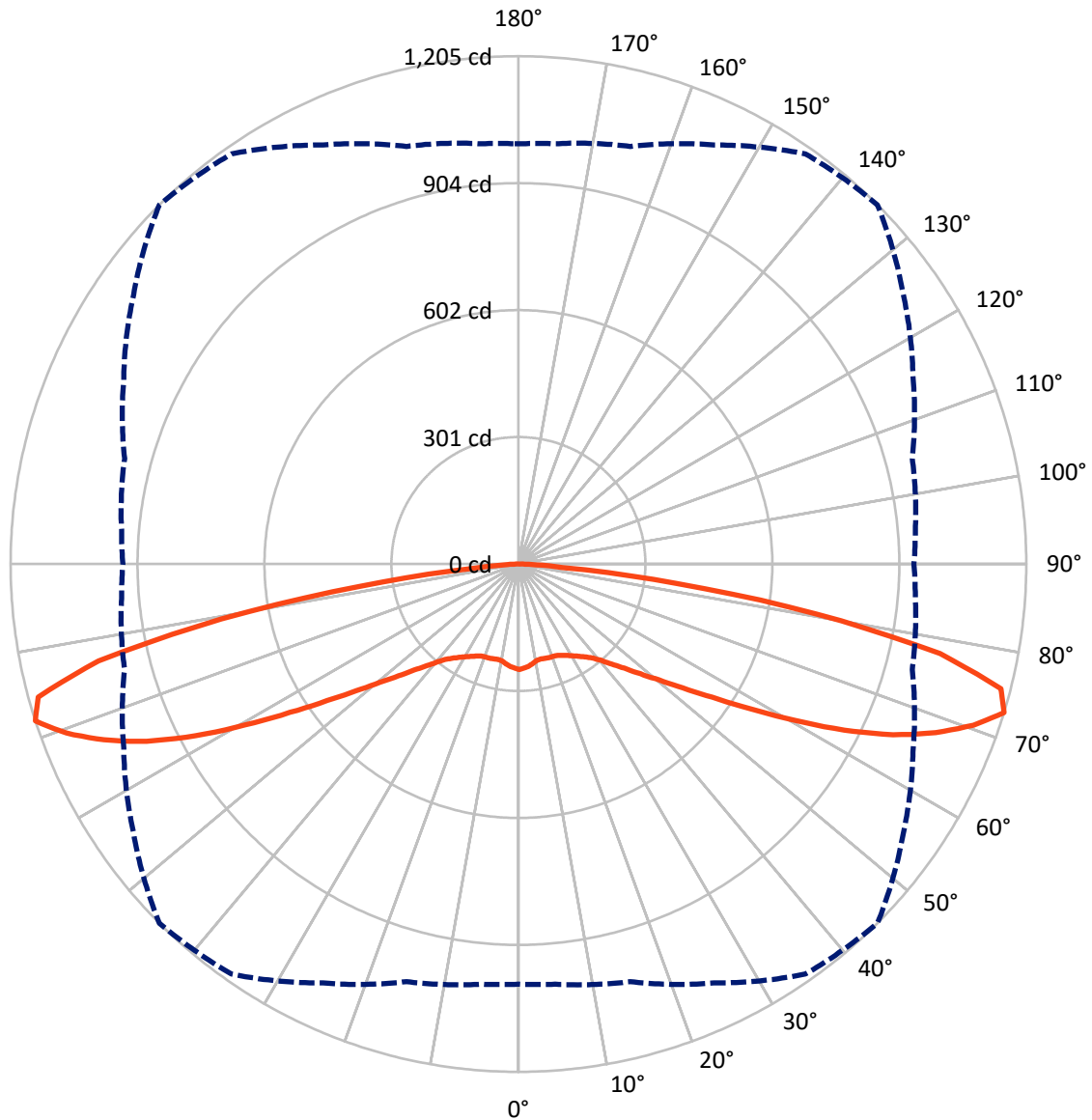


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P214526

CATALOG NUMBER: ARCH-AF16-20-D-U-5WQ-7050

Luminous Intensity Polar Plot



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



REPORT NUMBER: P214526

CATALOG NUMBER: ARCH-AF16-20-D-U-5WQ-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1518.5	0.0	1518.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1518.5	0.0	1518.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3037.0	0.0	3037.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	0.8
10°-20°	66.5	2.2
20°-30°	111.2	3.7
30°-40°	170.9	5.6
40°-50°	282.9	9.3
50°-60°	503.0	16.6
60°-70°	880.0	29.0
70°-80°	895.3	29.5
80°-90°	104.2	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°	3037.0	100.0
0°-180°	3037.0	100.0



REPORT NUMBER: P214526

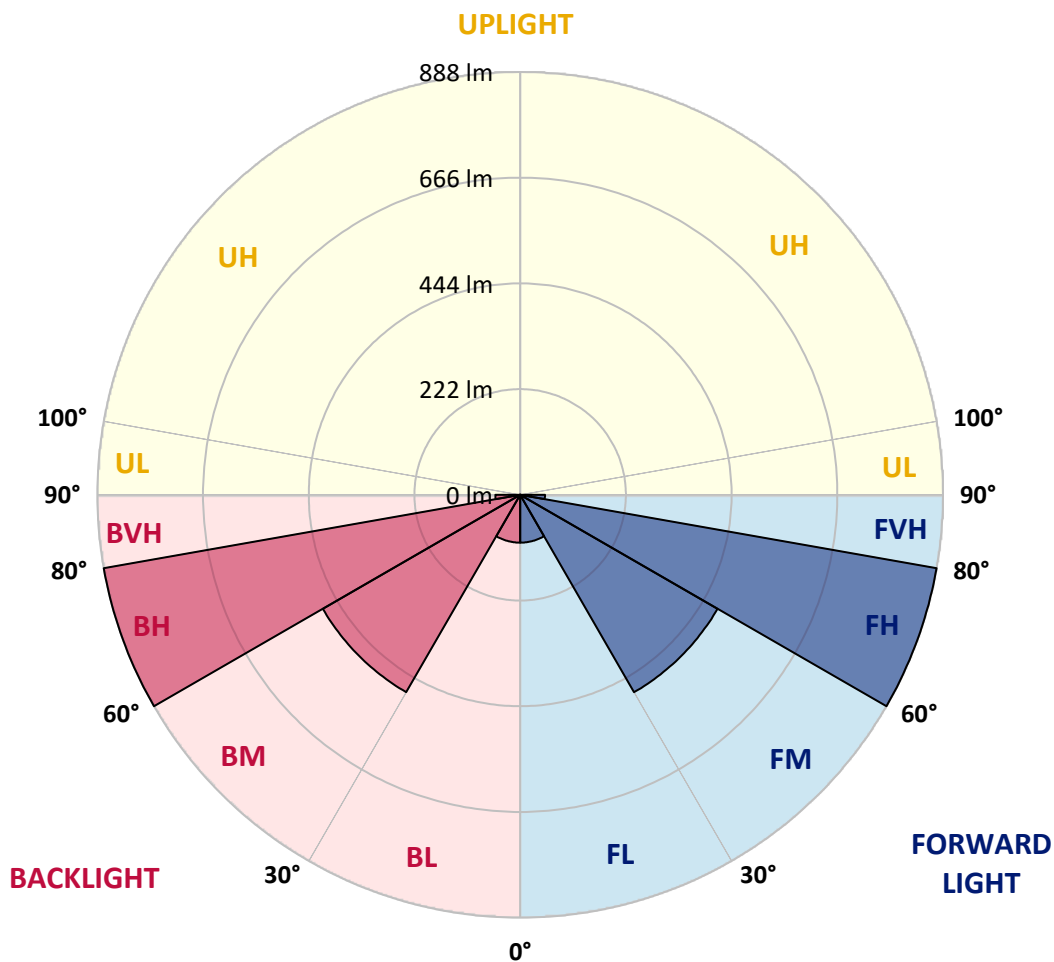
CATALOG NUMBER: ARCH-AF16-20-D-U-5WQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	100.3	3.3			
FM	(30°-60°)	478.4	15.8			
FH	(60°-80°)	887.6	29.2			G1/1800
FVH	(80°-90°)	52.1	1.7			G1/100
BL	(0°-30°)	100.3	3.3	B0/110		
BM	(30°-60°)	478.4	15.8	B1/1000		
BH	(60°-80°)	887.6	29.2	B2/1000		G1/1800
BVH	(80°-90°)	52.1	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





REPORT NUMBER: P214526

CATALOG NUMBER: ARCH-AF16-20-D-U-5WQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3	250.3
2.5°	248.0	248.6	247.4	247.4	247.4	246.9	247.4	246.9	247.4	248.0	248.0
5°	245.7	245.7	244.5	244.5	244.5	244.0	244.5	244.5	245.1	245.7	245.7
7.5°	240.5	240.5	239.9	239.3	238.8	238.8	239.3	239.3	239.9	240.5	240.5
10°	237.6	237.0	235.9	234.1	233.6	233.0	234.1	235.3	237.0	238.8	238.2
12.5°	236.4	235.9	233.6	231.8	230.7	231.2	232.4	233.6	236.4	238.2	237.6
15°	237.6	236.4	233.6	230.7	231.2	232.4	233.6	233.6	237.0	238.8	238.8
17.5°	237.6	237.0	233.6	231.2	231.8	233.6	234.1	233.6	236.4	239.3	239.3
20°	238.2	238.2	233.6	231.8	232.4	234.1	234.7	234.1	236.4	239.9	239.9
22.5°	239.3	238.8	234.1	233.0	234.1	235.3	235.9	235.3	237.6	240.5	241.1
25°	241.6	240.5	236.4	235.9	238.2	239.9	239.9	238.8	239.9	242.8	242.8
27.5°	244.5	244.0	239.3	239.3	242.2	245.7	244.0	241.6	242.8	245.7	245.7
30°	249.7	249.2	244.5	244.5	248.6	252.6	248.6	245.7	247.4	250.3	250.9
32.5°	257.3	257.3	253.2	252.1	259.0	260.7	259.0	253.2	254.4	258.4	258.4
35°	270.0	268.8	264.8	264.2	271.1	270.6	270.0	264.8	265.9	270.6	270.6
37.5°	286.7	286.2	282.7	281.0	284.4	282.1	283.3	281.0	283.8	287.3	287.9
40°	308.1	307.6	304.7	302.3	303.5	300.0	301.2	302.3	305.2	307.6	308.1
42.5°	334.7	334.7	331.8	327.8	326.1	324.3	324.3	326.6	329.5	332.4	332.4
45°	367.7	367.7	364.2	360.2	355.0	352.1	353.2	355.5	359.0	362.5	363.6
47.5°	406.4	406.4	401.8	397.7	392.5	389.1	389.1	390.2	395.4	398.3	400.0
50°	449.8	448.0	443.4	439.4	436.5	431.8	432.4	431.8	436.5	440.5	441.7
52.5°	494.9	494.3	489.7	488.5	490.2	487.9	487.9	482.1	483.9	486.2	485.6
55°	550.9	549.2	545.2	547.5	554.4	557.9	556.7	547.5	542.3	543.4	542.8
57.5°	612.2	610.5	609.3	616.3	631.9	646.3	643.4	622.0	612.2	612.8	613.4
60°	674.6	674.6	678.1	695.5	729.0	752.7	744.0	708.2	690.8	687.4	686.2
62.5°	738.8	740.6	748.1	777.0	828.4	867.7	845.8	794.9	768.9	761.9	759.6
65°	813.4	815.1	826.1	862.0	930.2	977.0	939.4	891.4	855.0	840.6	838.3
67.5°	921.5	922.7	931.3	966.0	1030.2	1067.8	1029.0	986.2	946.9	930.2	929.0
70°	1018.6	1019.8	1027.3	1073.0	1131.9	1145.2	1102.4	1048.1	1007.1	993.8	991.4
72.5°	996.7	1000.7	1025.6	1096.7	1187.4	1204.8	1114.6	1033.1	967.2	945.2	938.3
75°	835.9	842.3	881.6	988.6	1133.1	1182.2	1042.9	893.2	794.9	752.7	741.7
77.5°	487.9	511.6	579.3	716.3	922.7	1022.7	859.1	653.8	488.5	419.1	396.0
80°	133.5	146.3	195.4	329.5	578.7	716.3	548.0	300.0	161.9	121.4	112.7
82.5°	42.2	56.1	71.1	94.8	227.2	377.5	203.5	88.5	69.4	57.2	50.9
85°	22.5	24.3	39.9	46.2	68.2	105.8	63.0	46.2	41.6	30.6	28.9
87.5°	11.6	12.1	22.5	22.5	30.1	24.9	27.2	24.9	23.7	15.0	13.3
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)