

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: P214498

Luminaire Tested: **ARCH-AF16-20-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214498
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-7030
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 2936.9 lumens
Efficiency: N/A
Efficacy: 122.4 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

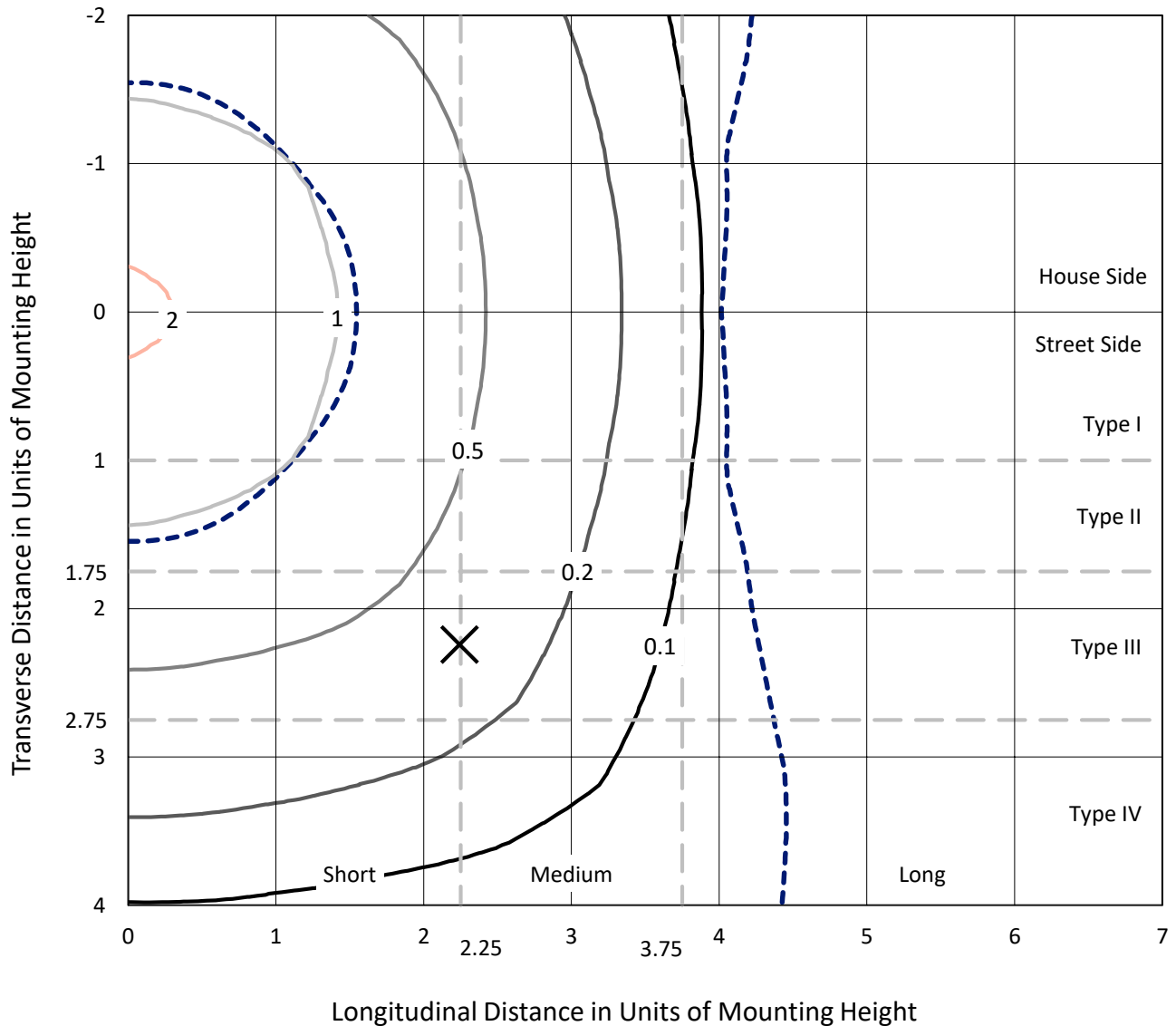
Input Watts (W): 24
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

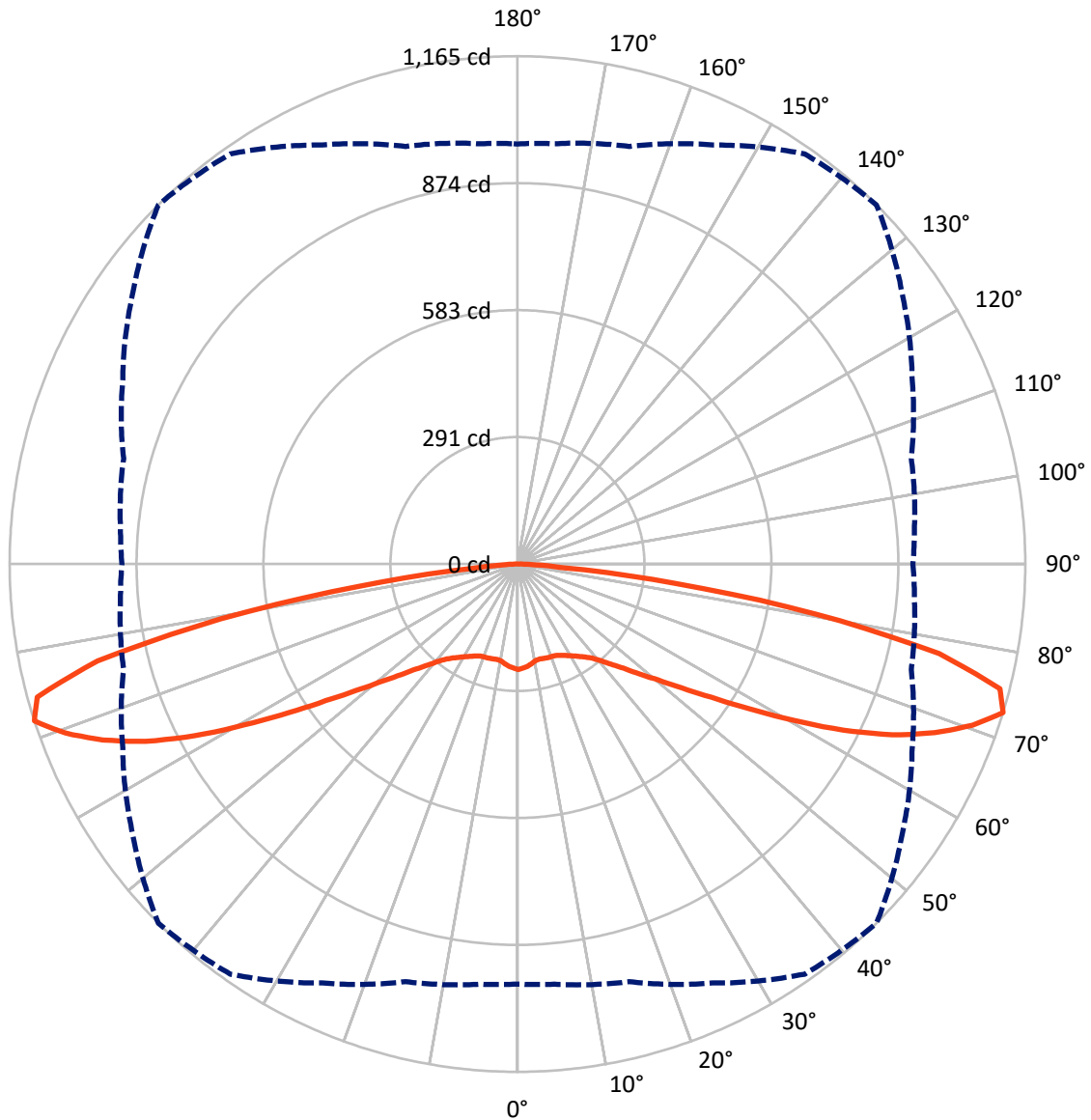


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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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	1468.4	0.0	1468.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1468.4	0.0	1468.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	2936.9	0.0	2936.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	0.8
10°-20°	64.3	2.2
20°-30°	107.5	3.7
30°-40°	165.2	5.6
40°-50°	273.6	9.3
50°-60°	486.4	16.6
60°-70°	851.0	29.0
70°-80°	865.8	29.5
80°-90°	100.8	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°	2936.9	100.0
0°-180°	2936.9	100.0



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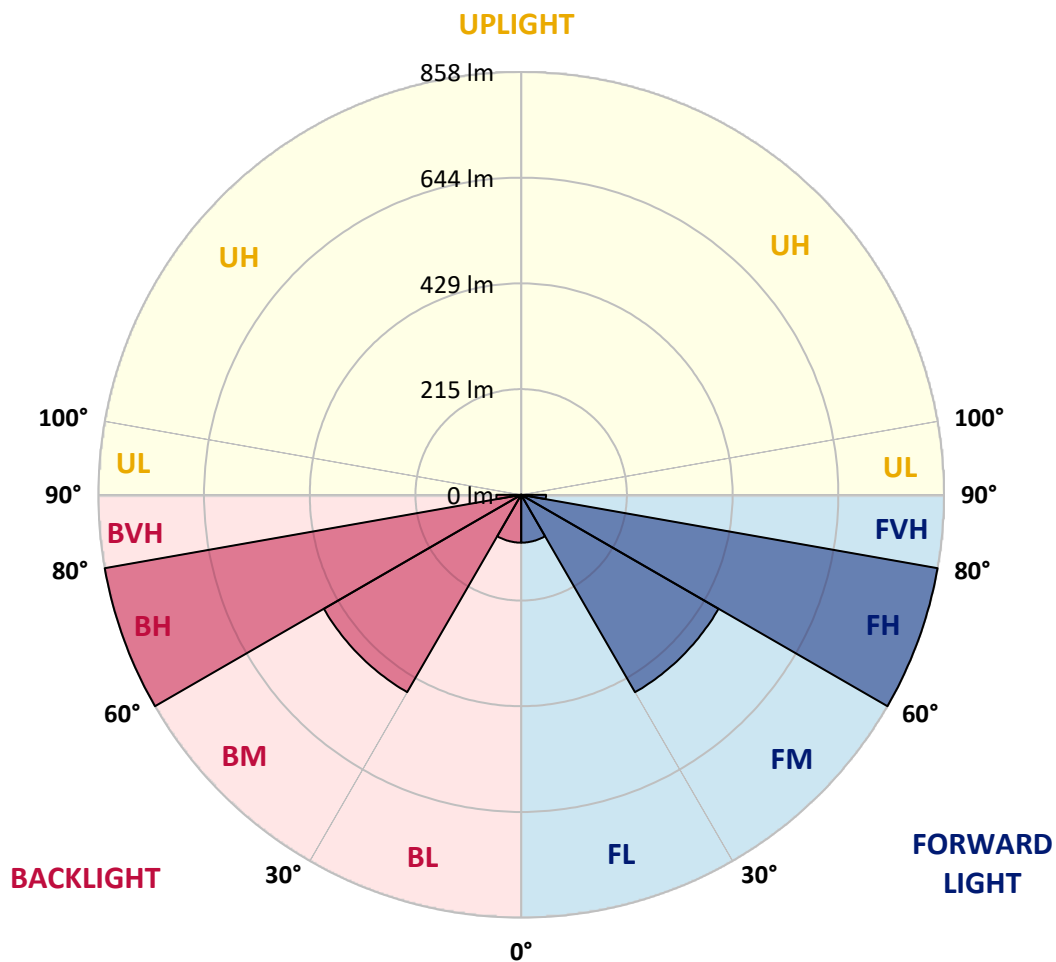
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.0	3.3			
FM	(30°-60°)	462.6	15.8			
FH	(60°-80°)	858.4	29.2			G1/1800
FVH	(80°-90°)	50.4	1.7			G1/100
BL	(0°-30°)	97.0	3.3	B0/110		
BM	(30°-60°)	462.6	15.8	B1/1000		
BH	(60°-80°)	858.4	29.2	B2/1000		G1/1800
BVH	(80°-90°)	50.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1	242.1
2.5°	239.9	240.4	239.3	239.3	239.3	238.7	239.3	238.7	239.3	239.9	239.9
5°	237.6	237.6	236.4	236.4	236.4	235.9	236.4	236.4	237.0	237.6	237.6
7.5°	232.6	232.6	231.9	231.4	230.9	230.9	231.4	231.4	231.9	232.6	232.6
10°	229.8	229.2	228.2	226.3	225.8	225.3	226.3	227.6	229.2	230.9	230.3
12.5°	228.7	228.2	225.8	224.2	223.1	223.7	224.7	225.8	228.7	230.3	229.8
15°	229.8	228.7	225.8	223.1	223.7	224.7	225.8	225.8	229.2	230.9	230.9
17.5°	229.8	229.2	225.8	223.7	224.2	225.8	226.3	225.8	228.7	231.4	231.4
20°	230.3	230.3	225.8	224.2	224.7	226.3	226.9	226.3	228.7	231.9	231.9
22.5°	231.4	230.9	226.3	225.3	226.3	227.6	228.2	227.6	229.8	232.6	233.2
25°	233.7	232.6	228.7	228.2	230.3	231.9	231.9	230.9	231.9	234.8	234.8
27.5°	236.4	235.9	231.4	231.4	234.3	237.6	235.9	233.7	234.8	237.6	237.6
30°	241.5	240.9	236.4	236.4	240.4	244.3	240.4	237.6	239.3	242.1	242.7
32.5°	248.8	248.8	244.8	243.7	250.4	252.2	250.4	244.8	246.0	249.8	249.8
35°	261.1	259.9	256.0	255.4	262.2	261.6	261.1	256.0	257.2	261.6	261.6
37.5°	277.3	276.8	273.3	271.7	275.0	272.8	273.9	271.7	274.5	277.8	278.4
40°	297.9	297.4	294.7	292.4	293.5	290.2	291.2	292.4	295.2	297.4	297.9
42.5°	323.7	323.7	320.9	317.0	315.3	313.6	313.6	315.9	318.7	321.4	321.4
45°	355.5	355.5	352.3	348.3	343.3	340.5	341.6	343.8	347.1	350.5	351.6
47.5°	393.0	393.0	388.5	384.6	379.5	376.3	376.3	377.4	382.4	385.1	386.9
50°	435.0	433.2	428.9	424.9	422.1	417.6	418.1	417.6	422.1	426.0	427.1
52.5°	478.5	478.0	473.5	472.4	474.0	471.9	471.9	466.2	467.9	470.2	469.6
55°	532.7	531.1	527.1	529.5	536.1	539.5	538.3	529.5	524.3	525.5	525.0
57.5°	592.0	590.3	589.2	595.9	611.1	625.0	622.2	601.6	592.0	592.6	593.2
60°	652.4	652.4	655.8	672.5	704.9	727.8	719.5	684.8	668.0	664.8	663.6
62.5°	714.4	716.2	723.4	751.3	801.1	839.1	818.0	768.6	743.5	736.9	734.6
65°	786.5	788.3	798.9	833.5	899.5	944.8	908.5	862.0	826.9	812.9	810.6
67.5°	891.1	892.2	900.7	934.1	996.2	1032.6	995.2	953.8	915.7	899.5	898.4
70°	985.1	986.2	993.3	1037.6	1094.7	1107.5	1066.2	1013.6	973.8	961.1	958.7
72.5°	963.7	967.7	991.7	1060.5	1148.4	1165.0	1077.9	999.0	935.3	914.1	907.3
75°	808.4	814.5	852.6	956.0	1095.8	1143.3	1008.6	863.7	768.6	727.8	717.3
77.5°	471.9	494.7	560.2	692.7	892.2	988.9	830.7	632.3	472.4	405.4	383.0
80°	129.2	141.5	188.9	318.7	559.6	692.7	530.0	290.2	156.6	117.5	109.0
82.5°	40.9	54.2	68.8	91.7	219.7	365.0	196.7	85.5	67.0	55.4	49.1
85°	21.9	23.5	38.6	44.7	66.0	102.2	60.9	44.7	40.2	29.6	28.0
87.5°	11.2	11.7	21.9	21.9	29.1	24.0	26.2	24.0	23.0	14.5	12.9
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)