

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: P214512

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214512
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
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 3106.7 lumens
Efficiency: N/A
Efficacy: 129.4 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 (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

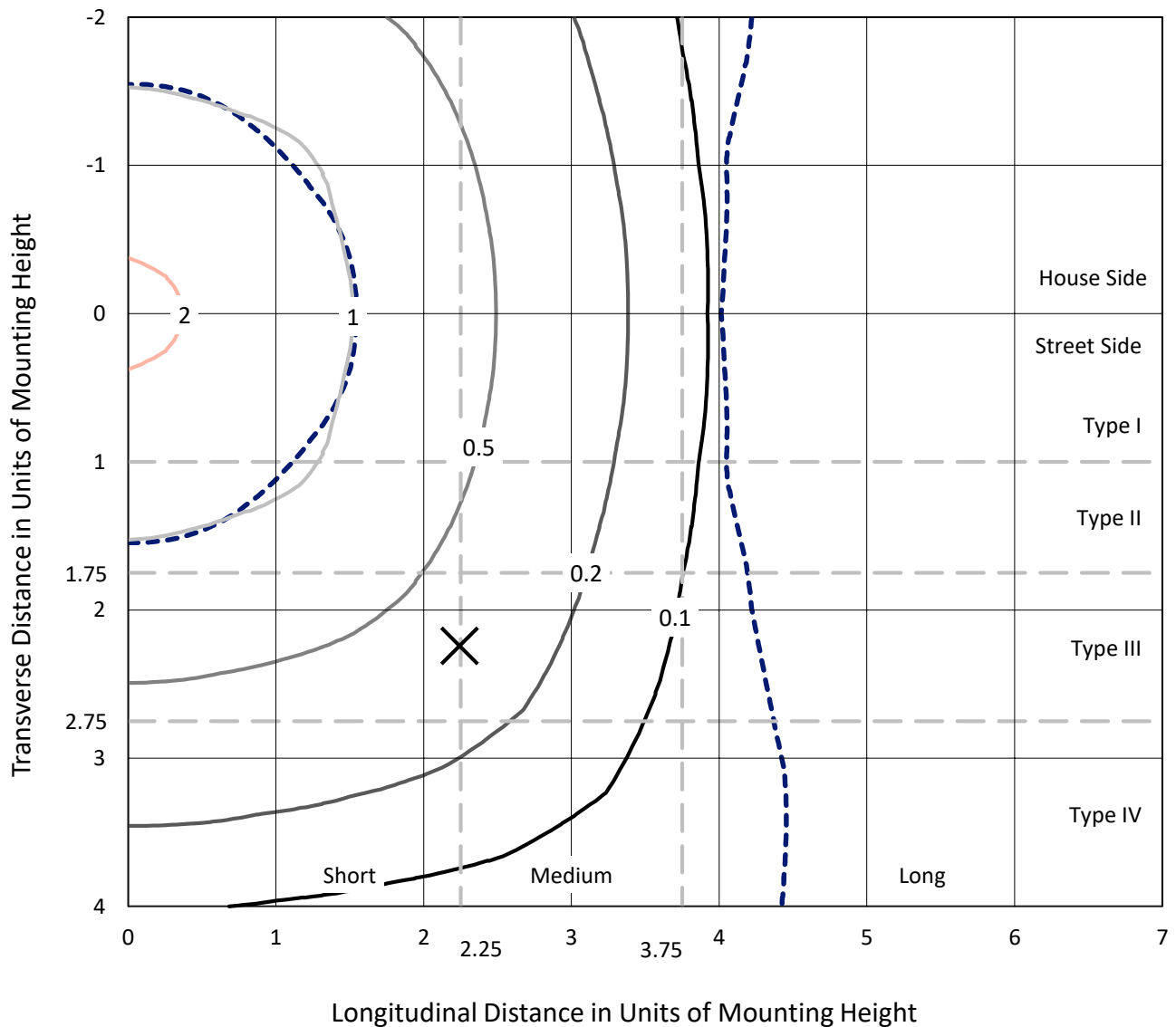


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

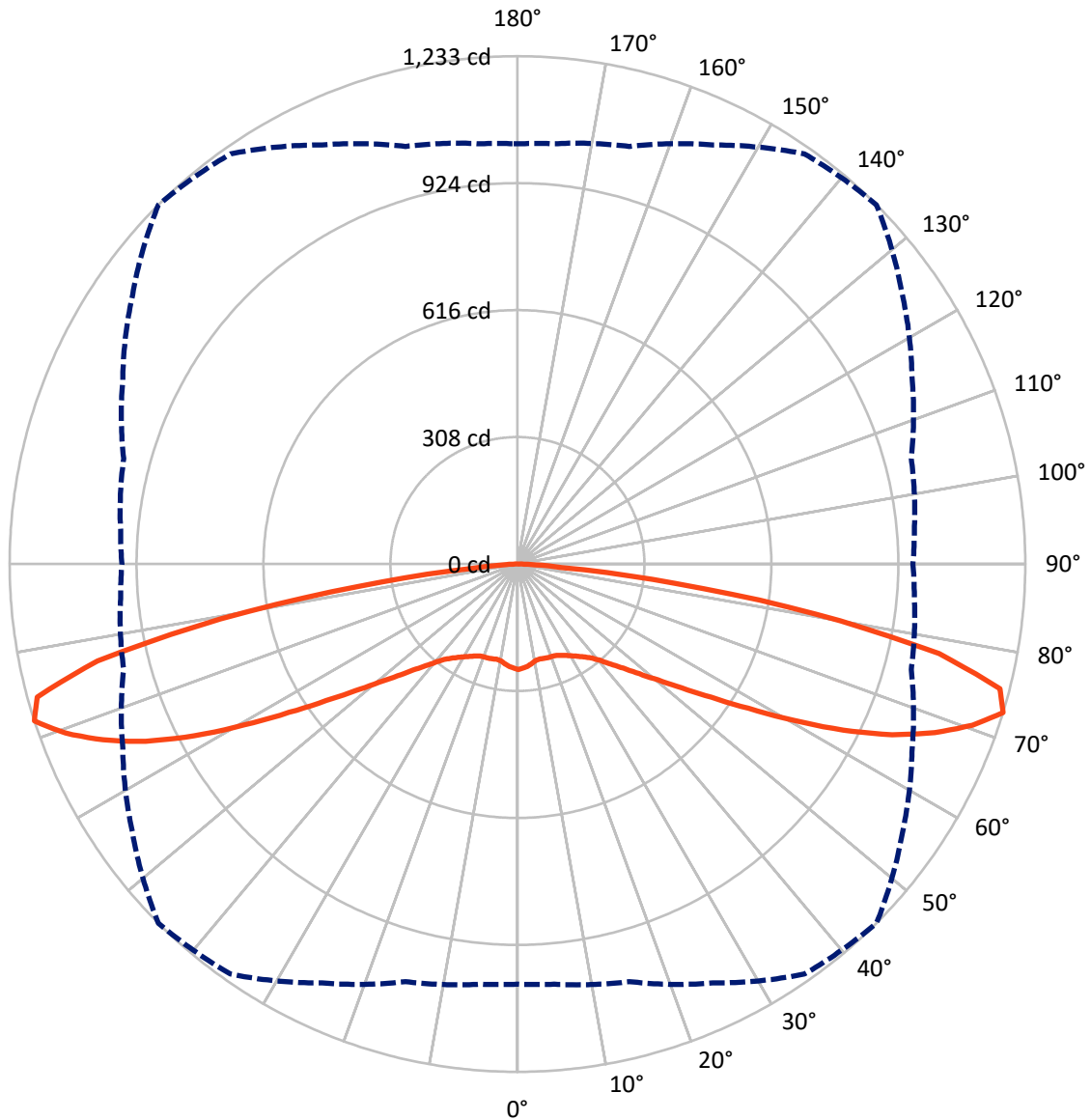


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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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	1553.4	0.0	1553.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1553.4	0.0	1553.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	3106.7	0.0	3106.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	0.8
10°-20°	68.0	2.2
20°-30°	113.8	3.7
30°-40°	174.8	5.6
40°-50°	289.4	9.3
50°-60°	514.5	16.6
60°-70°	900.2	29.0
70°-80°	915.9	29.5
80°-90°	106.6	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°	3106.7	100.0
0°-180°	3106.7	100.0



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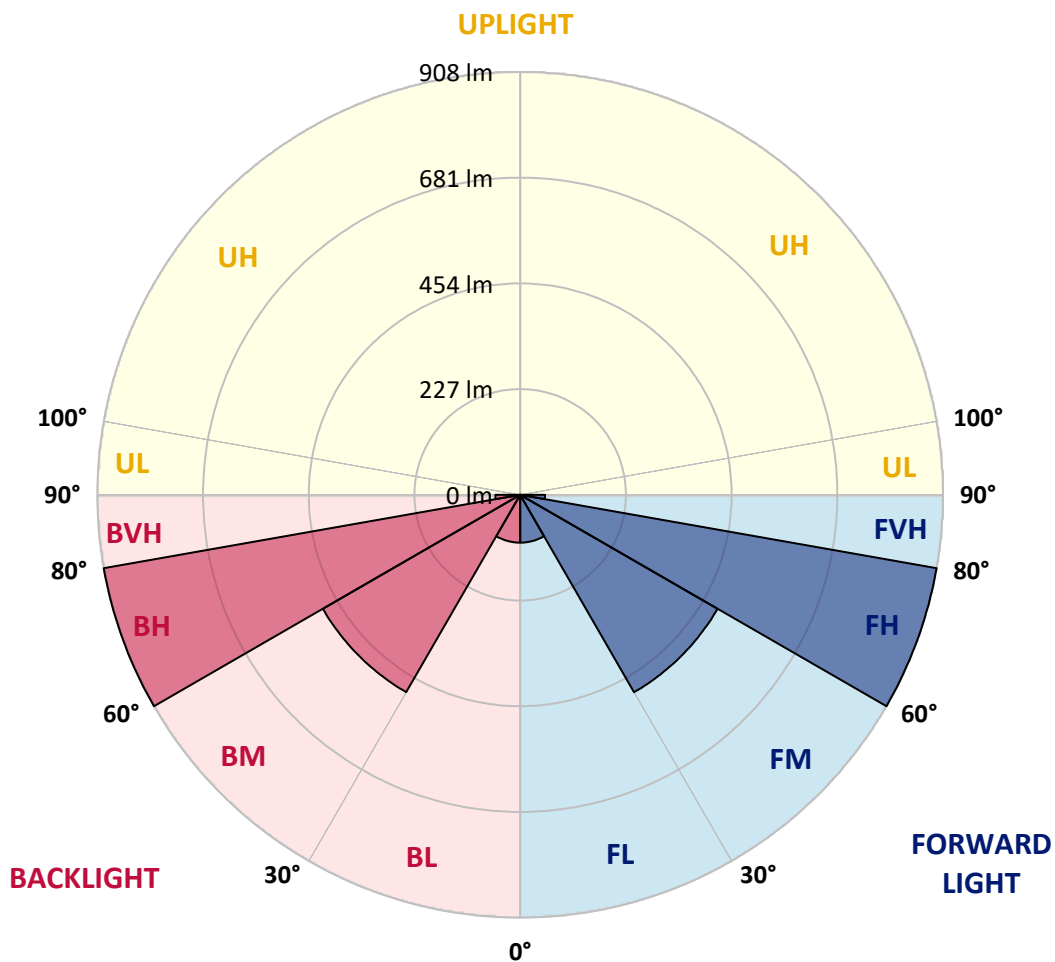
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	102.7	3.3			
FM	(30°-60°)	489.4	15.8			
FH	(60°-80°)	908.0	29.2			G1/1800
FVH	(80°-90°)	53.3	1.7			G1/100
BL	(0°-30°)	102.7	3.3	B0/110		
BM	(30°-60°)	489.4	15.8	B1/1000		
BH	(60°-80°)	908.0	29.2	B2/1000		G1/1800
BVH	(80°-90°)	53.3	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°	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
2.5°	253.7	254.3	253.1	253.1	253.1	252.6	253.1	252.6	253.1	253.7	253.7
5°	251.3	251.3	250.1	250.1	250.1	249.6	250.1	250.1	250.7	251.3	251.3
7.5°	246.0	246.0	245.4	244.8	244.3	244.3	244.8	244.8	245.4	246.0	246.0
10°	243.1	242.4	241.3	239.5	239.0	238.3	239.5	240.7	242.4	244.3	243.7
12.5°	241.8	241.3	239.0	237.1	236.0	236.5	237.7	239.0	241.8	243.7	243.1
15°	243.1	241.8	239.0	236.0	236.5	237.7	239.0	239.0	242.4	244.3	244.3
17.5°	243.1	242.4	239.0	236.5	237.1	239.0	239.5	239.0	241.8	244.8	244.8
20°	243.7	243.7	239.0	237.1	237.7	239.5	240.1	239.5	241.8	245.4	245.4
22.5°	244.8	244.3	239.5	238.3	239.5	240.7	241.3	240.7	243.1	246.0	246.6
25°	247.1	246.0	241.8	241.3	243.7	245.4	245.4	244.3	245.4	248.4	248.4
27.5°	250.1	249.6	244.8	244.8	247.8	251.3	249.6	247.1	248.4	251.3	251.3
30°	255.4	254.9	250.1	250.1	254.3	258.4	254.3	251.3	253.1	256.0	256.7
32.5°	263.2	263.2	259.0	257.9	264.9	266.7	264.9	259.0	260.2	264.3	264.3
35°	276.2	275.0	270.9	270.3	277.3	276.8	276.2	270.9	272.0	276.8	276.8
37.5°	293.3	292.8	289.2	287.4	290.9	288.6	289.8	287.4	290.3	293.9	294.5
40°	315.2	314.7	311.7	309.2	310.5	306.9	308.1	309.2	312.2	314.7	315.2
42.5°	342.4	342.4	339.4	335.3	333.6	331.7	331.7	334.1	337.1	340.0	340.0
45°	376.1	376.1	372.6	368.5	363.1	360.2	361.3	363.7	367.2	370.8	371.9
47.5°	415.7	415.7	411.0	406.8	401.5	398.0	398.0	399.2	404.5	407.4	409.2
50°	460.1	458.3	453.6	449.5	446.5	441.7	442.3	441.7	446.5	450.6	451.8
52.5°	506.3	505.6	500.9	499.7	501.5	499.1	499.1	493.2	495.0	497.4	496.7
55°	563.5	561.8	557.7	560.1	567.1	570.7	569.5	560.1	554.7	555.9	555.3
57.5°	626.3	624.5	623.3	630.4	646.4	661.1	658.2	636.3	626.3	626.9	627.5
60°	690.1	690.1	693.7	711.5	745.7	770.0	761.1	724.5	706.7	703.2	701.9
62.5°	755.8	757.6	765.3	794.8	847.4	887.6	865.2	813.1	786.5	779.4	777.0
65°	832.1	833.8	845.1	881.8	951.5	999.4	961.0	911.9	874.6	859.9	857.5
67.5°	942.6	943.9	952.7	988.2	1053.8	1092.3	1052.6	1008.8	968.6	951.5	950.3
70°	1042.0	1043.2	1050.9	1097.6	1157.9	1171.5	1127.7	1072.2	1030.2	1016.6	1014.2
72.5°	1019.6	1023.7	1049.1	1121.9	1214.7	1232.5	1140.2	1056.8	989.4	966.9	959.8
75°	855.1	861.6	901.8	1011.3	1159.1	1209.3	1066.8	913.7	813.1	770.0	758.7
77.5°	499.1	523.3	592.6	732.7	943.9	1046.2	878.8	668.8	499.7	428.7	405.1
80°	136.6	149.7	199.9	337.1	592.0	732.7	560.6	306.9	165.6	124.2	115.3
82.5°	43.2	57.4	72.7	97.0	232.4	386.2	208.2	90.5	71.0	58.5	52.1
85°	23.0	24.9	40.8	47.3	69.8	108.2	64.4	47.3	42.6	31.3	29.6
87.5°	11.9	12.4	23.0	23.0	30.8	25.5	27.8	25.5	24.2	15.3	13.6
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)