

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: P265913

Luminaire Tested: **ARCH-AF24-20-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265913
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-AF24-20-D-U-5WQ-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2524.4 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 21
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

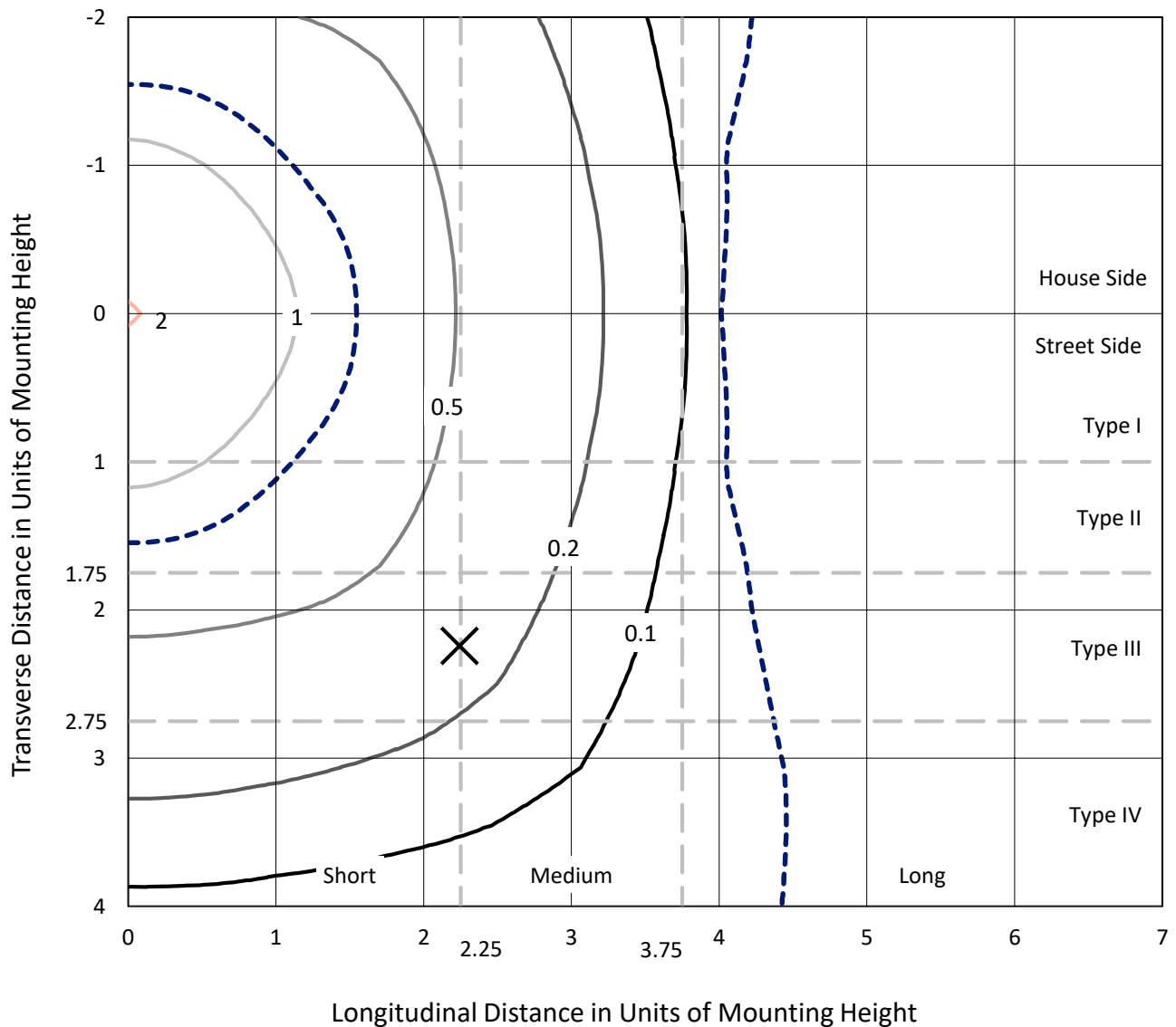


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

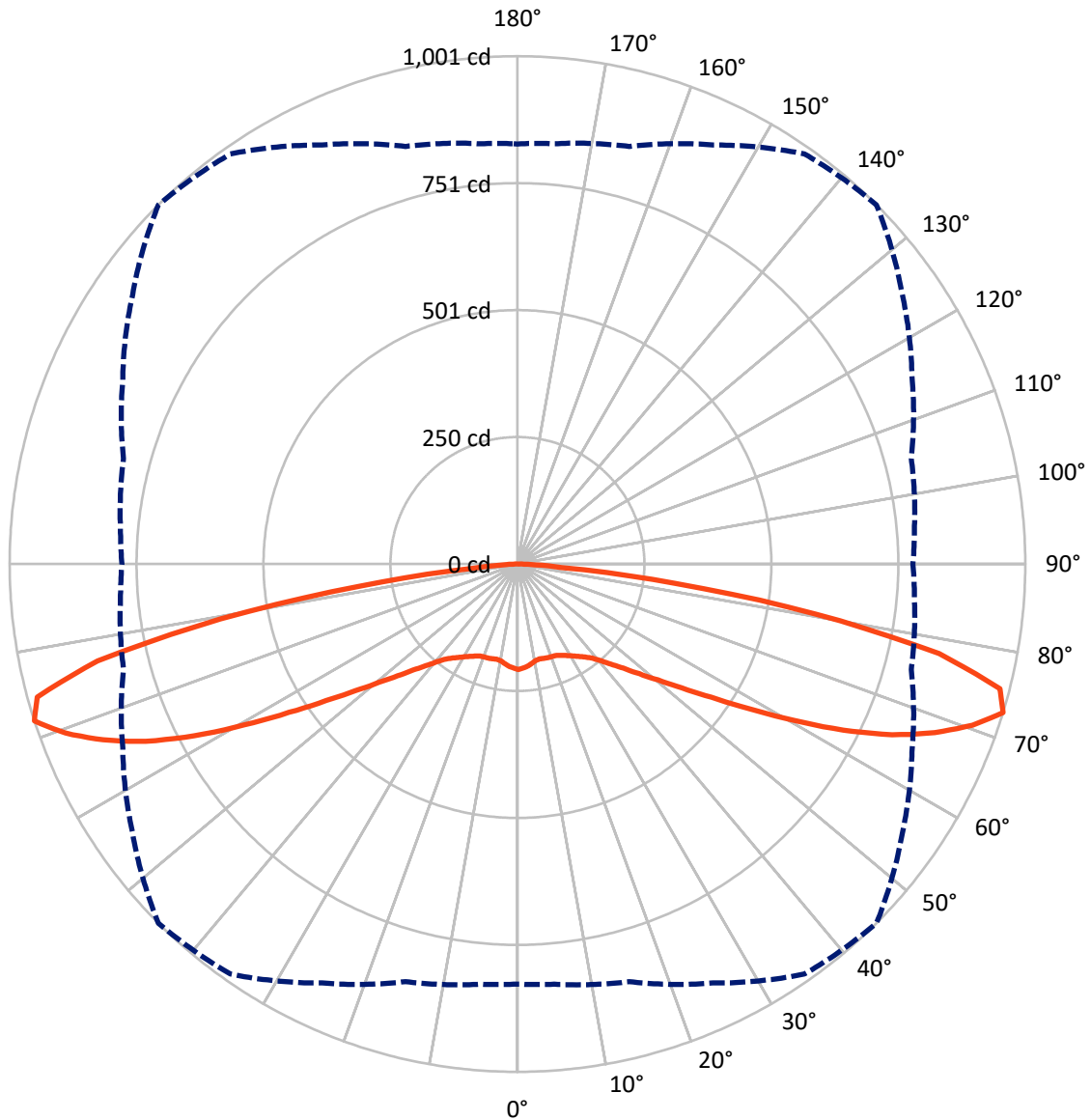


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Non-Cutoff

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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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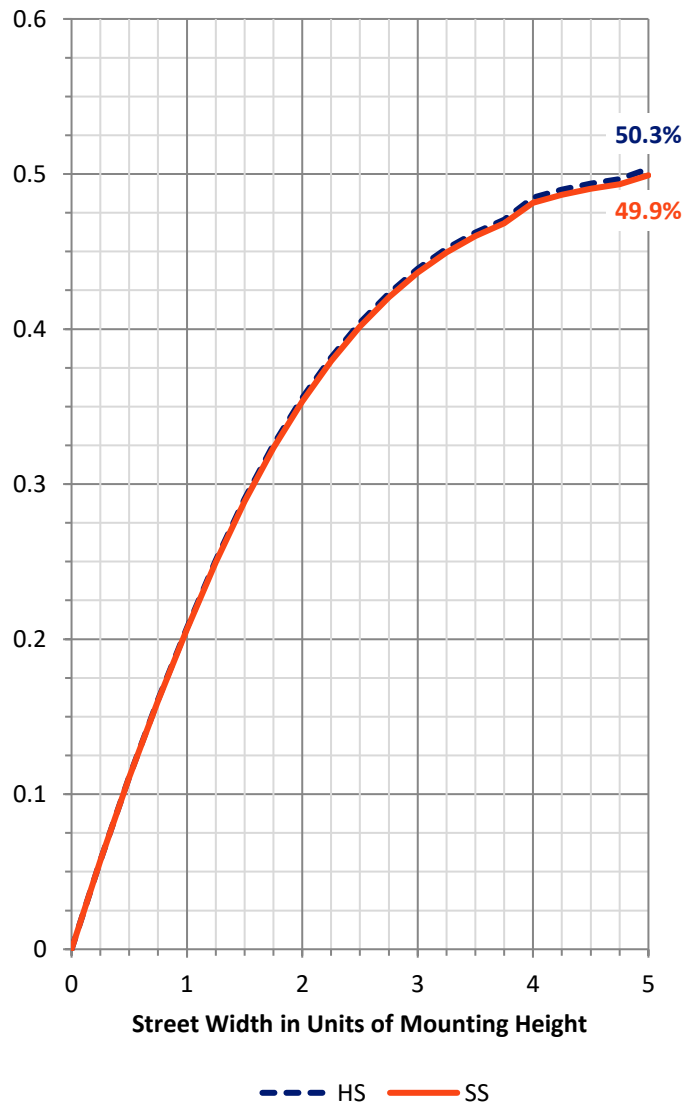
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1262.2	0.0	1262.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1262.2	0.0	1262.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	2524.4	0.0	2524.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	0.8
10°-20°	55.2	2.2
20°-30°	92.4	3.7
30°-40°	142.0	5.6
40°-50°	235.2	9.3
50°-60°	418.1	16.6
60°-70°	731.4	29.0
70°-80°	744.2	29.5
80°-90°	86.7	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°	2524.4	100.0
0°-180°	2524.4	100.0



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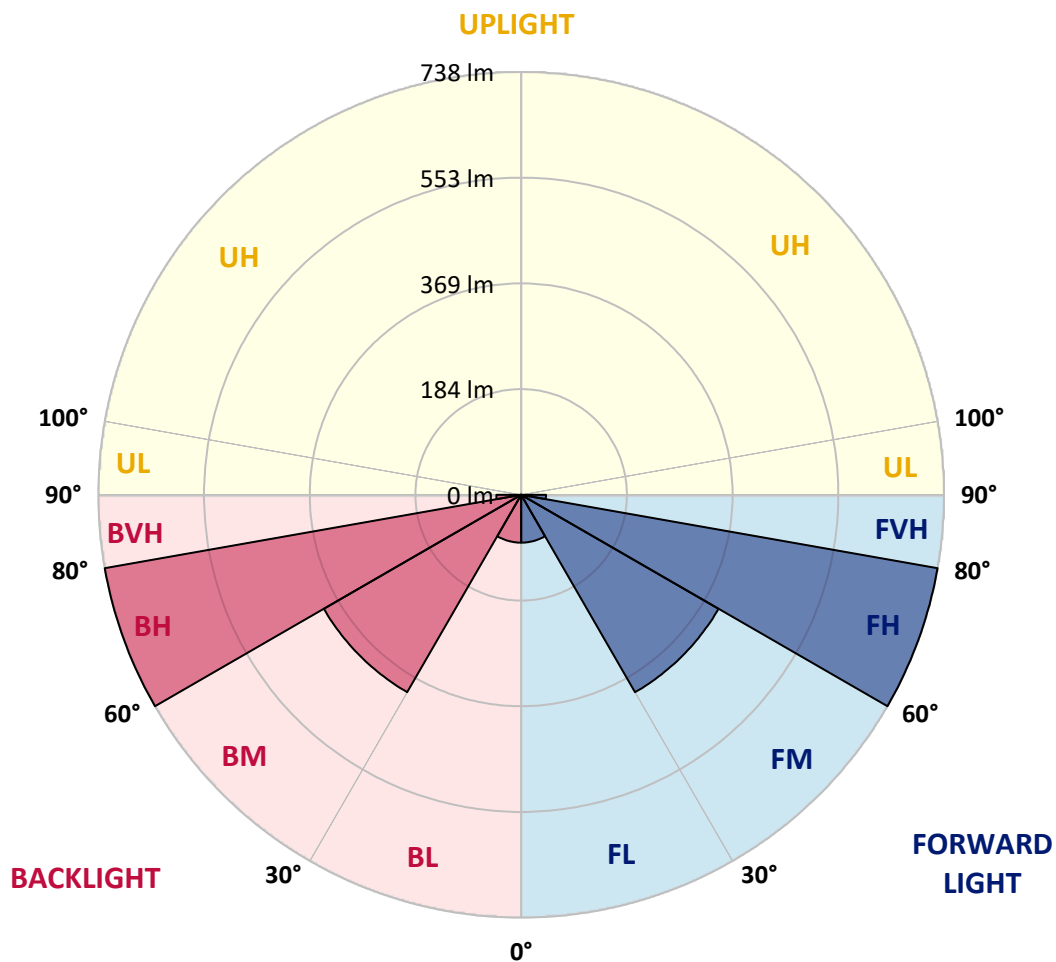
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	83.4	3.3			
FM (30°-60°)	397.6	15.8			
FH (60°-80°)	737.8	29.2			G1/1800
FVH (80°-90°)	43.3	1.7			G1/100
BL (0°-30°)	83.4	3.3	B0/110		
BM (30°-60°)	397.6	15.8	B1/1000		
BH (60°-80°)	737.8	29.2	B2/1000		G1/1800
BVH (80°-90°)	43.3	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°	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
2.5°	206.2	206.6	205.6	205.6	205.6	205.3	205.6	205.3	205.6	206.2	206.2
5°	204.3	204.3	203.2	203.2	203.2	202.7	203.2	203.2	203.7	204.3	204.3
7.5°	200.0	200.0	199.5	199.0	198.4	198.4	199.0	199.0	199.5	200.0	200.0
10°	197.4	197.0	196.1	194.7	194.2	193.7	194.7	195.7	197.0	198.4	197.9
12.5°	196.5	196.1	194.2	192.6	191.7	192.1	193.1	194.2	196.5	197.9	197.4
15°	197.4	196.5	194.2	191.7	192.1	193.1	194.2	194.2	197.0	198.4	198.4
17.5°	197.4	197.0	194.2	192.1	192.6	194.2	194.7	194.2	196.5	199.0	199.0
20°	197.9	197.9	194.2	192.6	193.1	194.7	195.1	194.7	196.5	199.5	199.5
22.5°	199.0	198.4	194.7	193.7	194.7	195.7	196.1	195.7	197.4	200.0	200.4
25°	200.9	200.0	196.5	196.1	197.9	199.5	199.5	198.4	199.5	201.8	201.8
27.5°	203.2	202.7	199.0	199.0	201.3	204.3	202.7	200.9	201.8	204.3	204.3
30°	207.6	207.1	203.2	203.2	206.6	210.1	206.6	204.3	205.6	208.0	208.5
32.5°	213.8	213.8	210.5	209.6	215.2	216.8	215.2	210.5	211.5	214.8	214.8
35°	224.3	223.5	220.1	219.5	225.4	224.8	224.3	220.1	221.1	224.8	224.8
37.5°	238.3	237.8	234.9	233.5	236.4	234.5	235.4	233.5	236.0	238.8	239.3
40°	256.1	255.7	253.2	251.3	252.2	249.4	250.4	251.3	253.7	255.7	256.1
42.5°	278.3	278.3	275.8	272.5	271.0	269.6	269.6	271.5	274.0	276.3	276.3
45°	305.7	305.7	302.6	299.3	295.1	292.7	293.6	295.5	298.3	301.3	302.3
47.5°	337.9	337.9	334.0	330.5	326.3	323.4	323.4	324.4	328.7	331.0	332.6
50°	373.9	372.3	368.6	365.3	362.7	359.0	359.4	359.0	362.7	366.1	367.0
52.5°	411.3	410.9	407.0	406.0	407.6	405.6	405.6	400.7	402.3	404.1	403.7
55°	458.0	456.5	453.1	455.0	460.8	463.7	462.7	455.0	450.7	451.7	451.2
57.5°	508.9	507.5	506.5	512.3	525.1	537.2	534.9	517.1	508.9	509.3	509.9
60°	560.8	560.8	563.6	578.1	605.9	625.6	618.5	588.6	574.2	571.3	570.3
62.5°	614.1	615.6	621.7	645.8	688.6	721.2	703.1	660.8	639.1	633.3	631.4
65°	676.2	677.5	686.7	716.5	773.3	812.1	780.8	740.9	710.6	698.7	696.7
67.5°	766.0	767.0	774.1	802.9	856.3	887.5	855.4	819.8	787.0	773.3	772.3
70°	846.7	847.6	853.8	891.8	940.9	951.9	916.4	871.1	837.1	826.0	824.0
72.5°	828.4	831.8	852.4	911.6	987.0	1001.4	926.4	858.7	804.0	785.7	779.9
75°	694.7	700.0	732.7	821.7	941.9	982.7	866.9	742.4	660.8	625.6	616.4
77.5°	405.6	425.3	481.5	595.3	767.0	850.1	714.1	543.5	406.0	348.5	329.1
80°	111.0	121.6	162.5	274.0	481.0	595.3	455.5	249.4	134.6	100.9	93.8
82.5°	35.0	46.6	59.1	78.8	188.9	313.8	169.2	73.5	57.8	47.6	42.3
85°	18.8	20.2	33.1	38.4	56.8	87.9	52.5	38.4	34.7	25.4	24.1
87.5°	9.6	10.2	18.8	18.8	25.1	20.8	22.5	20.8	19.8	12.4	11.0
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)