

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: P234673

Luminaire Tested: **ARCH-AF24-20-D-U-5WQ-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234673
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-8027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 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: 2257 lumens
Efficiency: N/A
Efficacy: 107.5 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): 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

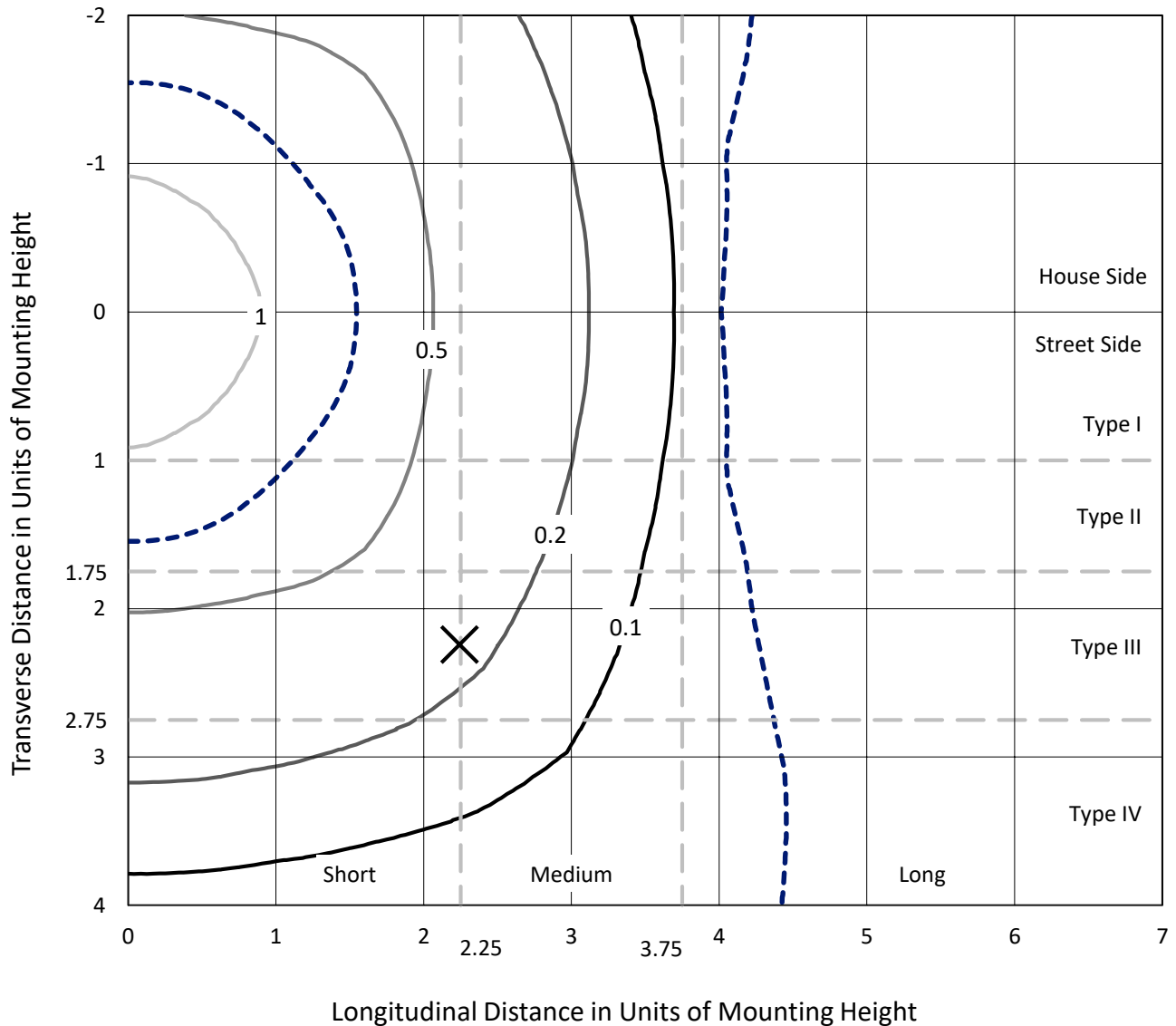


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

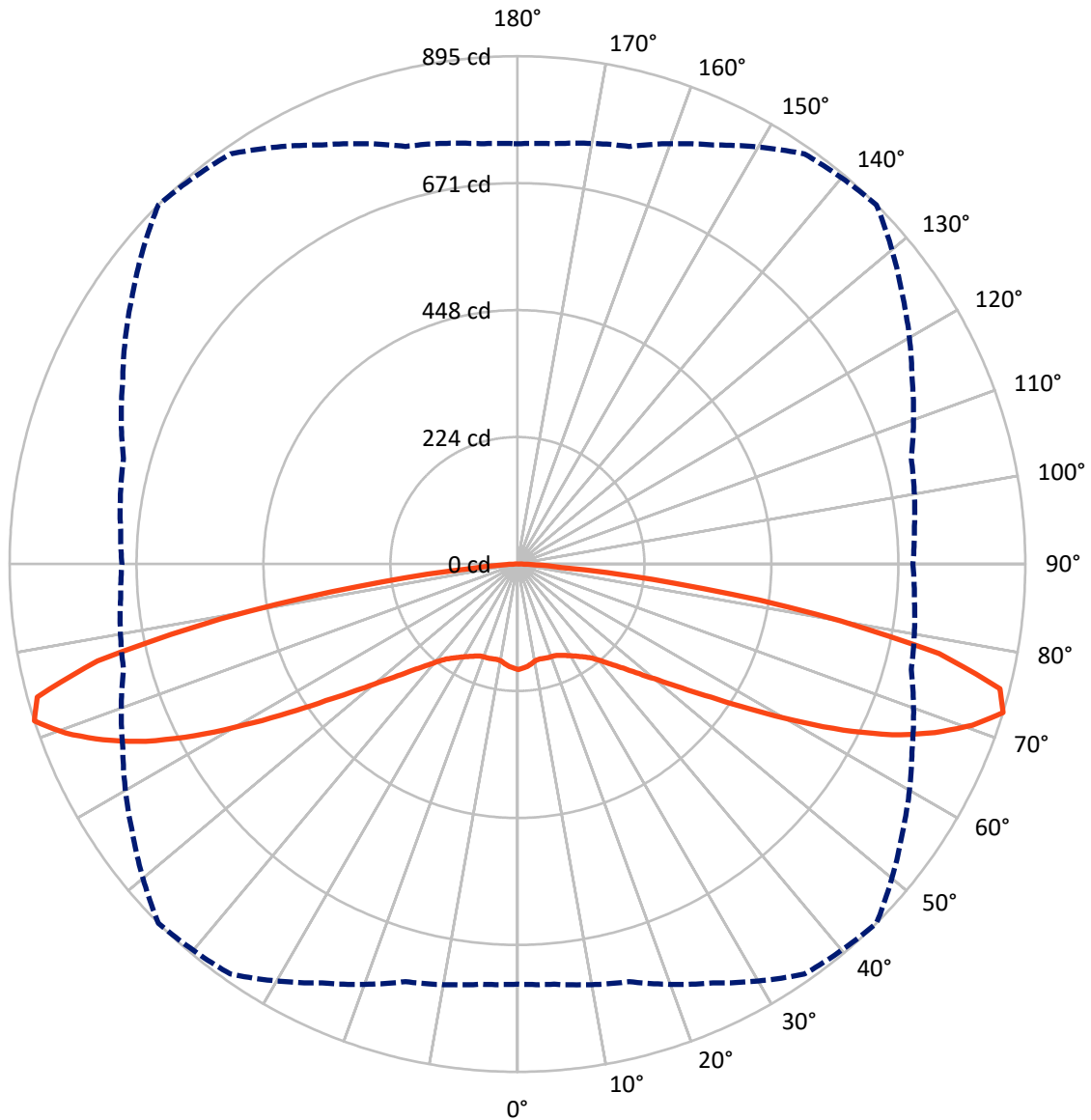


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Non-Cutoff

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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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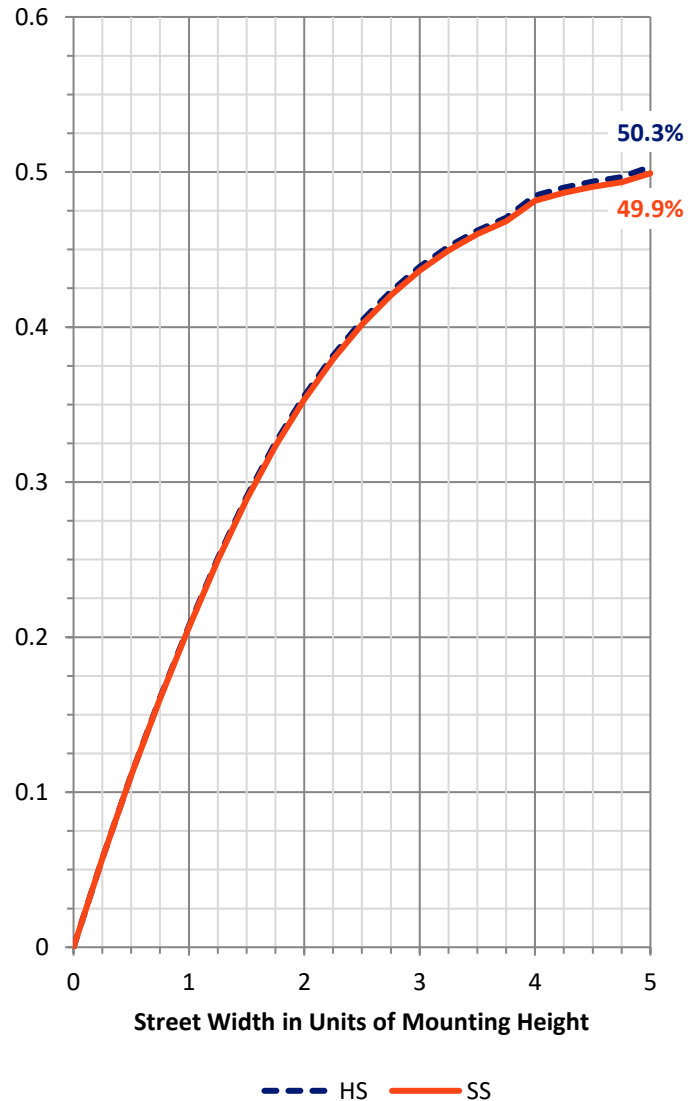
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.5	0.0	1128.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1128.5	0.0	1128.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2257.0	0.0	2257.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	0.8
10°-20°	49.4	2.2
20°-30°	82.6	3.7
30°-40°	127.0	5.6
40°-50°	210.3	9.3
50°-60°	373.8	16.6
60°-70°	654.0	29.0
70°-80°	665.4	29.5
80°-90°	77.5	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°	2257.0	100.0
0°-180°	2257.0	100.0



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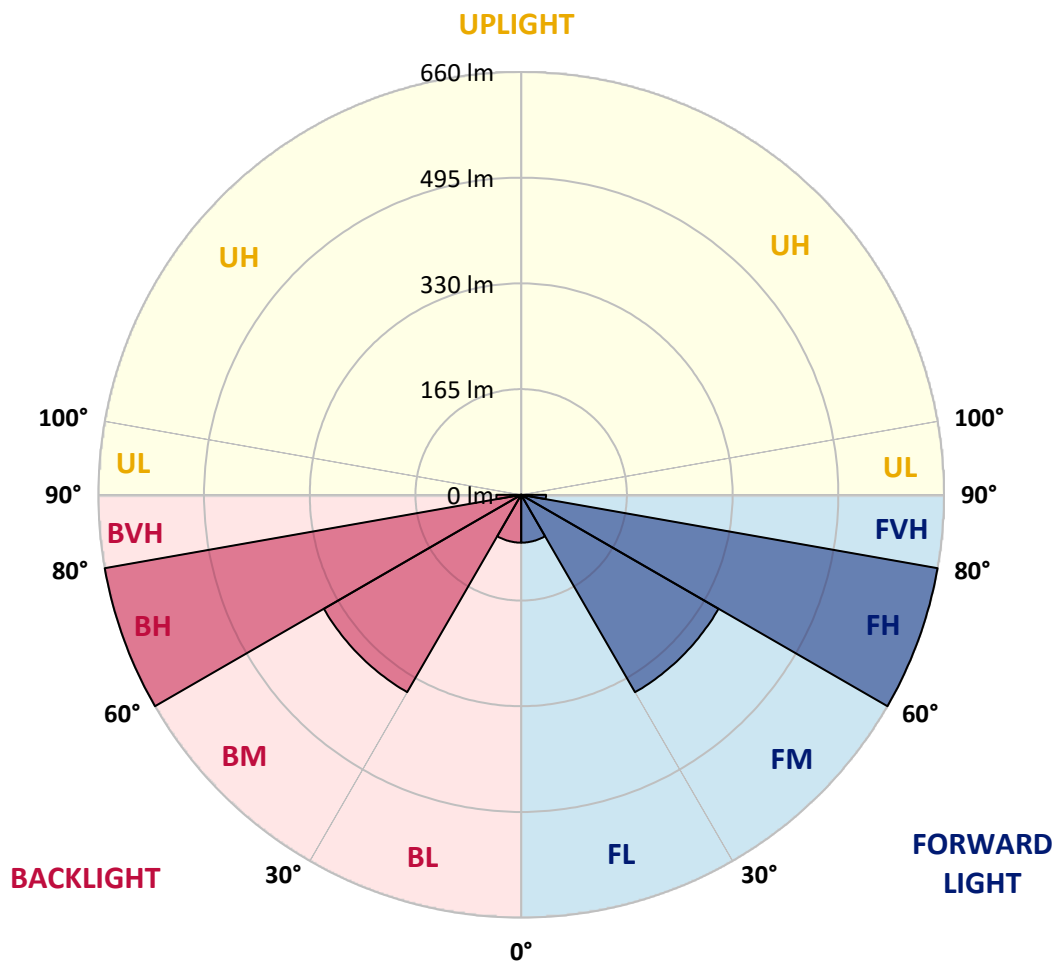
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	74.6	3.3			
FM (30°-60°)	355.5	15.8			
FH (60°-80°)	659.7	29.2			G0/660
FVH (80°-90°)	38.7	1.7			G1/100
BL (0°-30°)	74.6	3.3	B0/110		
BM (30°-60°)	355.5	15.8	B1/1000		
BH (60°-80°)	659.7	29.2	B2/1000		G0/660
BVH (80°-90°)	38.7	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°	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0
2.5°	184.3	184.7	183.9	183.9	183.9	183.5	183.9	183.5	183.9	184.3	184.3
5°	182.6	182.6	181.7	181.7	181.7	181.3	181.7	181.7	182.2	182.6	182.6
7.5°	178.7	178.7	178.3	177.9	177.4	177.4	177.9	177.9	178.3	178.7	178.7
10°	176.6	176.1	175.3	174.0	173.6	173.1	174.0	174.9	176.1	177.4	177.0
12.5°	175.7	175.3	173.6	172.3	171.4	171.9	172.7	173.6	175.7	177.0	176.6
15°	176.6	175.7	173.6	171.4	171.9	172.7	173.6	173.6	176.1	177.4	177.4
17.5°	176.6	176.1	173.6	171.9	172.3	173.6	174.0	173.6	175.7	177.9	177.9
20°	177.0	177.0	173.6	172.3	172.7	174.0	174.4	174.0	175.7	178.3	178.3
22.5°	177.9	177.4	174.0	173.1	174.0	174.9	175.3	174.9	176.6	178.7	179.2
25°	179.6	178.7	175.7	175.3	177.0	178.3	178.3	177.4	178.3	180.4	180.4
27.5°	181.7	181.3	177.9	177.9	180.0	182.6	181.3	179.6	180.4	182.6	182.6
30°	185.6	185.2	181.7	181.7	184.7	187.7	184.7	182.6	183.9	186.0	186.5
32.5°	191.2	191.2	188.2	187.3	192.5	193.8	192.5	188.2	189.0	192.0	192.0
35°	200.6	199.8	196.8	196.3	201.5	201.1	200.6	196.8	197.6	201.1	201.1
37.5°	213.1	212.7	210.1	208.8	211.4	209.7	210.5	208.8	210.9	213.5	214.0
40°	229.0	228.6	226.4	224.7	225.6	223.0	223.8	224.7	226.8	228.6	229.0
42.5°	248.8	248.8	246.6	243.6	242.3	241.0	241.0	242.7	244.9	247.0	247.0
45°	273.2	273.2	270.7	267.7	263.8	261.6	262.5	264.2	266.8	269.4	270.2
47.5°	302.0	302.0	298.6	295.6	291.7	289.1	289.1	290.0	293.9	296.0	297.3
50°	334.3	333.0	329.5	326.5	324.4	320.9	321.4	320.9	324.4	327.4	328.2
52.5°	367.8	367.3	363.9	363.0	364.3	362.6	362.6	358.3	359.6	361.3	360.9
55°	409.4	408.1	405.1	406.9	412.0	414.6	413.7	406.9	403.0	403.9	403.4
57.5°	455.0	453.7	452.8	458.0	469.6	480.3	478.2	462.3	455.0	455.4	455.8
60°	501.4	501.4	504.0	516.8	541.8	559.4	552.9	526.3	513.4	510.8	510.0
62.5°	549.1	550.4	555.9	577.4	615.7	644.9	628.5	590.7	571.4	566.3	564.5
65°	604.5	605.8	613.9	640.6	691.3	726.1	698.1	662.5	635.4	624.7	623.0
67.5°	684.8	685.7	692.1	717.9	765.6	793.5	764.7	732.9	703.7	691.3	690.4
70°	757.0	757.9	763.5	797.4	841.2	851.1	819.3	778.9	748.4	738.5	736.8
72.5°	740.7	743.7	762.2	815.0	882.5	895.3	828.3	767.7	718.8	702.4	697.3
75°	621.2	626.0	655.2	734.7	842.1	878.6	775.1	663.8	590.7	559.4	551.2
77.5°	362.6	380.2	430.5	532.3	685.7	760.0	638.4	485.9	363.0	311.5	294.3
80°	99.2	108.7	145.2	244.9	430.1	532.3	407.3	223.0	120.3	90.2	83.8
82.5°	31.4	41.7	52.8	70.5	168.8	280.5	151.2	65.7	51.6	42.5	37.8
85°	16.8	18.0	29.6	34.4	50.7	78.6	46.8	34.4	30.9	22.8	21.5
87.5°	8.6	9.0	16.8	16.8	22.3	18.5	20.2	18.5	17.6	11.2	9.9
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)