

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: P348730

Luminaire Tested: **ARCH-N-PA1-19-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2270 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

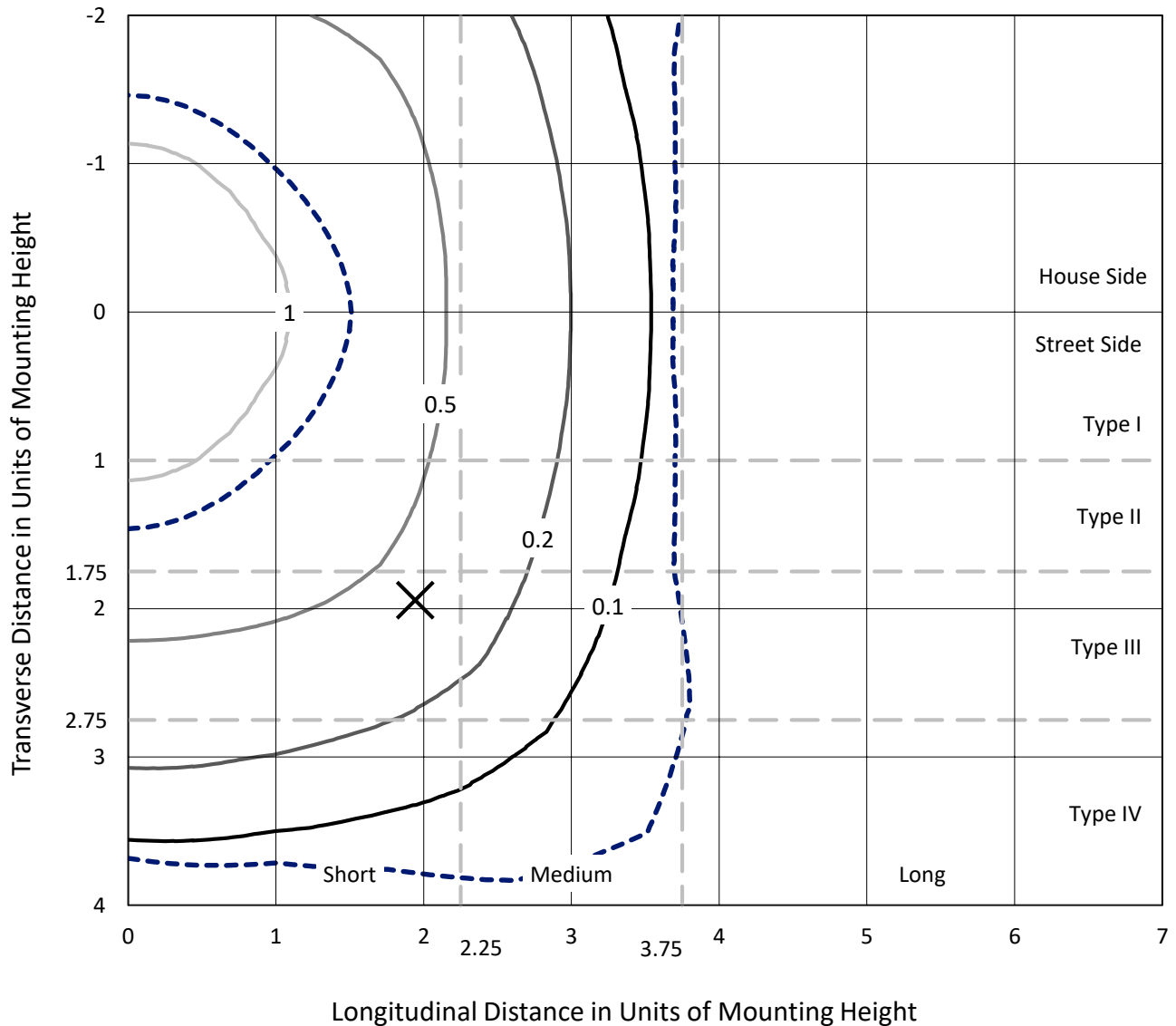
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

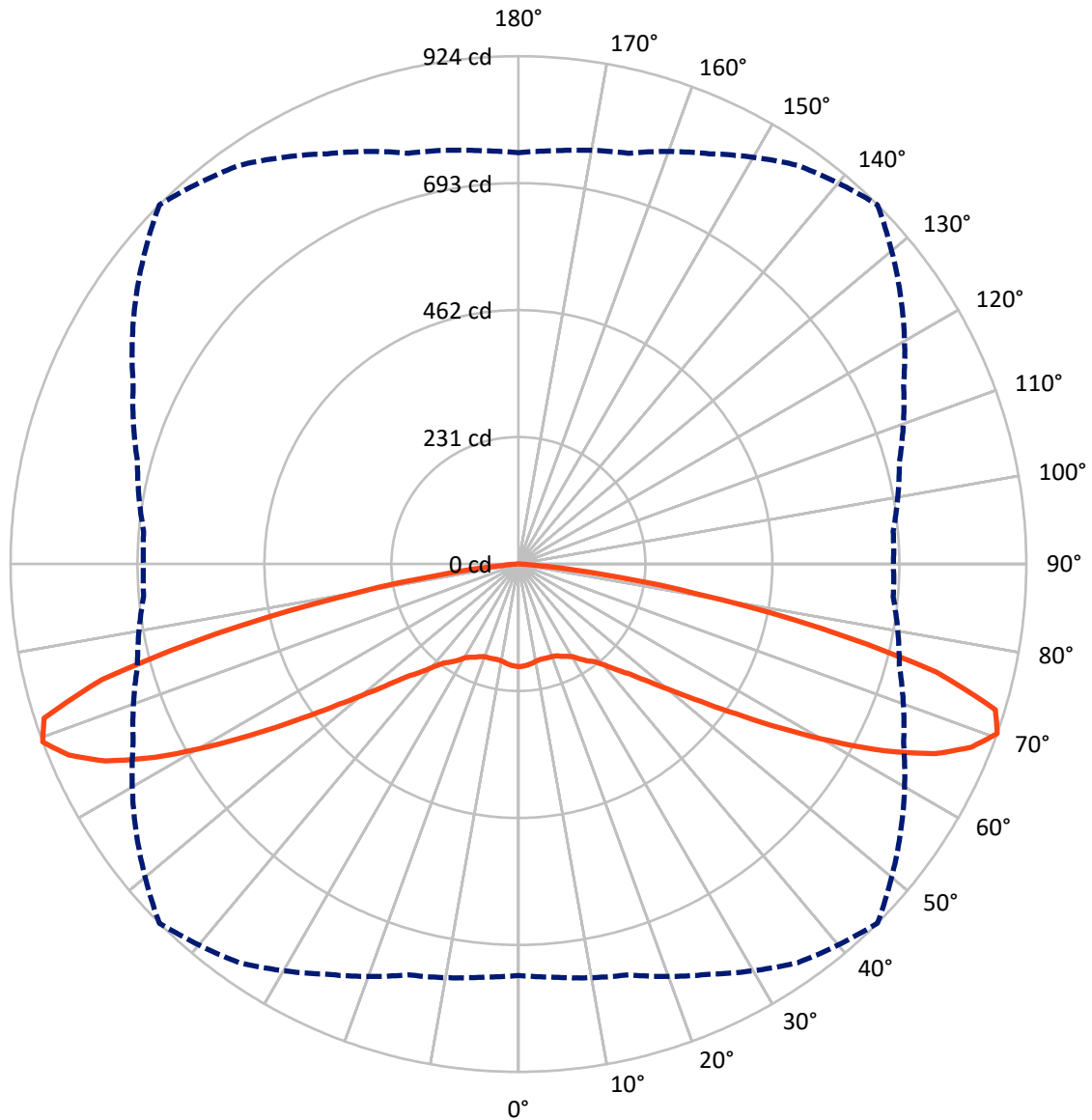
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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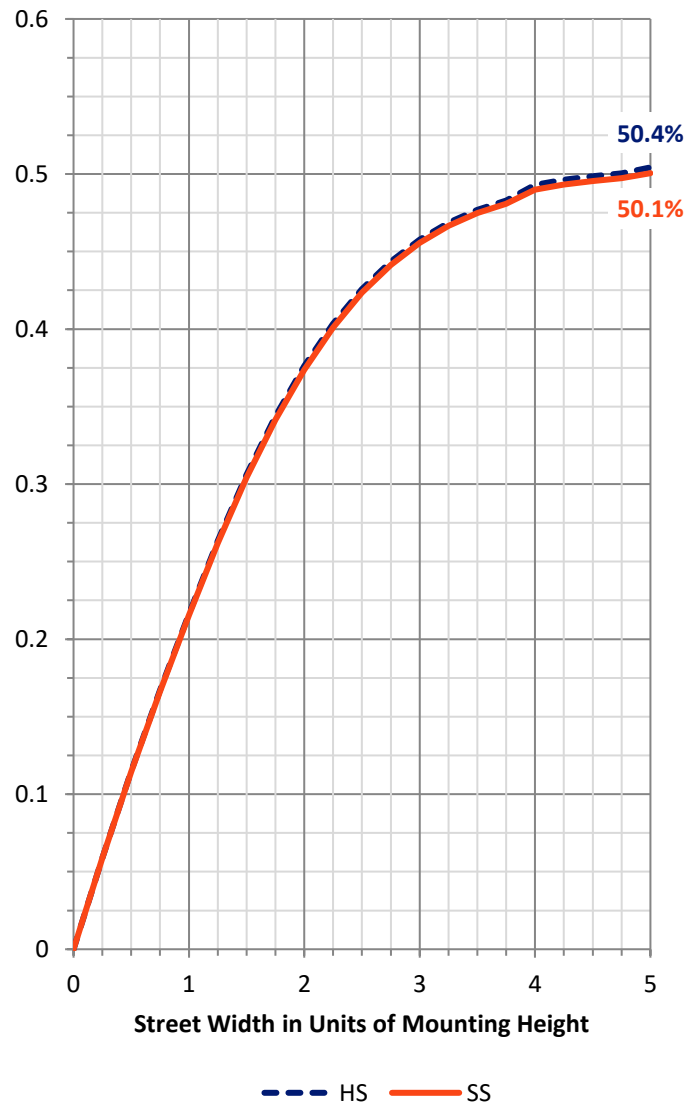
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1135.0	0.0	1135.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1135.0	0.0	1135.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	2270.0	0.0	2270.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.4	0.8
10°-20°	50.9	2.2
20°-30°	86.8	3.8
30°-40°	135.7	6.0
40°-50°	230.0	10.1
50°-60°	419.4	18.5
60°-70°	721.9	31.8
70°-80°	565.9	24.9
80°-90°	42.0	1.8
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°	2270.0	100.0
0°-180°	2270.0	100.0



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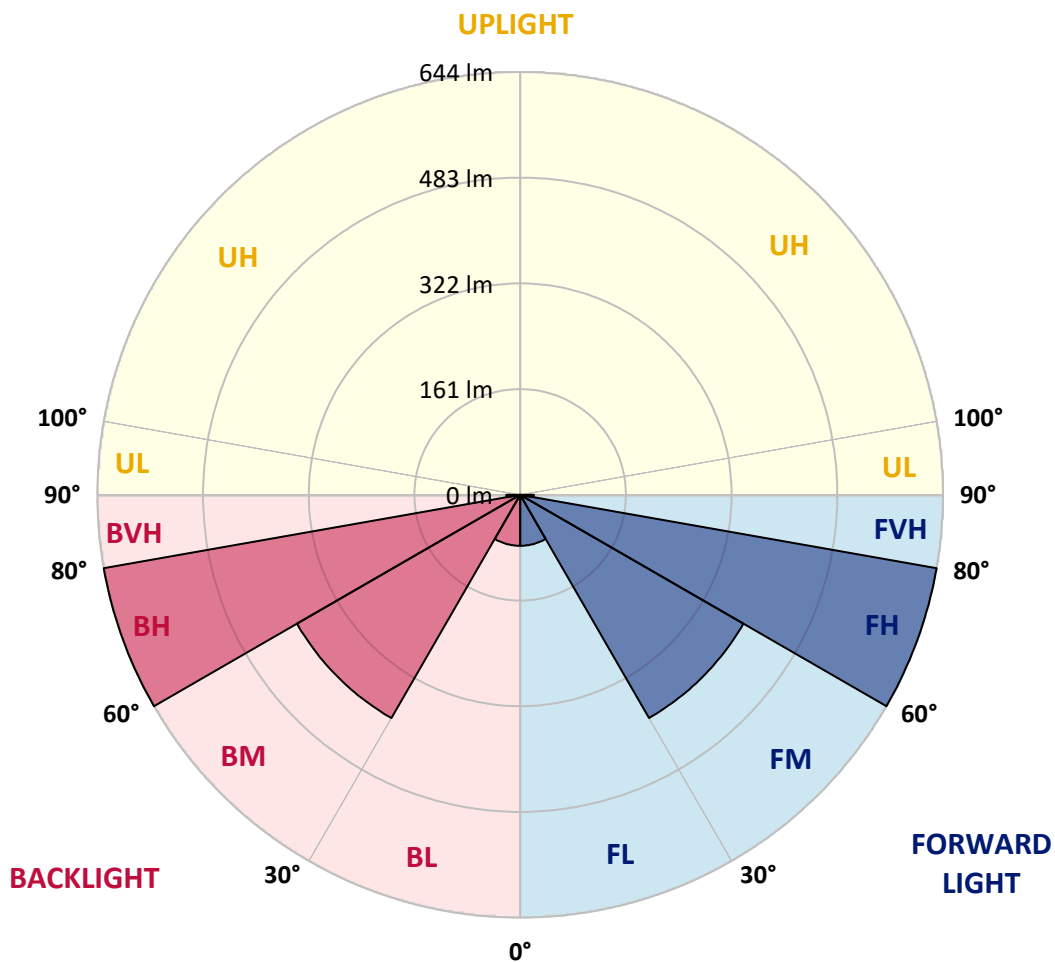
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	77.6	3.4			
FM (30°-60°)	392.5	17.3			
FH (60°-80°)	643.9	28.4			G0/660
FVH (80°-90°)	21.0	0.9			G1/100
BL (0°-30°)	77.6	3.4	B0/110		
BM (30°-60°)	392.5	17.3	B1/1000		
BH (60°-80°)	643.9	28.4	B2/1000		G0/660
BVH (80°-90°)	21.0	0.9			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°	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8
2.5°	186.0	186.2	186.0	186.1	185.8	185.9	185.9	185.9	185.8	185.9	185.8
5°	184.3	184.5	184.2	184.3	184.1	184.3	184.4	184.3	184.2	184.3	184.0
7.5°	181.9	182.0	181.8	182.0	181.7	182.1	182.0	181.8	181.6	181.6	181.3
10°	180.5	180.6	180.0	179.8	179.1	179.2	179.5	179.7	179.9	180.4	180.3
12.5°	180.6	180.6	179.7	178.7	177.7	178.0	178.3	179.2	180.1	180.9	181.0
15°	181.3	181.3	179.9	178.3	177.7	178.3	178.6	179.1	180.5	181.9	182.0
17.5°	181.9	181.9	179.8	178.0	177.9	178.9	178.9	179.1	180.7	182.8	182.8
20°	182.8	182.8	180.1	178.2	178.2	179.3	179.4	179.8	181.3	183.7	184.0
22.5°	185.0	185.1	182.2	180.7	180.8	181.5	181.7	182.3	183.7	186.3	186.7
25°	188.1	188.2	185.3	184.4	184.9	186.2	186.1	186.5	188.1	190.6	191.0
27.5°	192.4	192.0	189.3	188.9	189.4	190.4	190.3	190.4	191.6	193.9	194.4
30°	197.9	197.8	195.8	196.1	195.8	195.5	195.6	196.2	196.9	198.7	199.2
32.5°	203.3	203.5	202.3	203.4	205.1	206.2	204.5	202.8	202.1	203.0	203.5
35°	213.1	213.5	211.6	210.8	213.1	216.4	211.5	208.8	210.3	211.6	212.0
37.5°	229.7	229.9	226.8	223.8	222.1	225.3	220.4	220.6	225.9	228.3	228.2
40°	248.6	248.7	246.6	244.0	241.1	241.9	239.9	240.5	244.0	246.1	246.7
42.5°	271.1	270.9	267.6	263.9	263.0	263.8	260.5	260.0	264.0	267.9	268.0
45°	300.4	299.8	295.6	291.4	287.4	285.8	285.0	287.1	292.6	296.2	296.3
47.5°	331.8	330.4	328.1	324.8	321.4	319.7	318.4	319.4	323.4	324.8	325.0
50°	364.2	364.5	364.9	363.7	362.4	361.9	358.3	356.3	357.5	354.9	354.5
52.5°	402.6	403.2	407.5	411.2	413.4	414.5	407.8	400.8	396.9	391.8	390.3
55°	447.8	448.8	455.2	465.4	475.9	481.5	469.4	456.3	444.2	434.7	431.6
57.5°	498.3	500.0	508.8	528.4	550.0	563.1	542.7	518.9	495.6	481.8	479.4
60°	557.5	559.1	571.3	599.4	634.3	654.0	623.1	584.3	555.2	542.1	537.6
62.5°	627.9	628.0	643.0	675.8	721.9	749.4	707.5	655.6	625.6	609.8	605.5
65°	703.7	704.0	719.5	754.9	802.6	832.5	785.2	731.1	694.5	671.1	667.8
67.5°	757.2	758.8	775.1	817.7	862.3	889.3	840.3	779.2	736.8	709.0	706.2
70°	748.6	754.8	773.9	823.7	885.7	924.2	849.3	773.5	717.6	684.7	682.4
72.5°	652.9	664.7	690.2	755.5	854.7	907.7	800.5	692.8	629.5	601.5	597.3
75°	444.6	463.7	502.3	596.5	730.2	785.9	673.9	552.4	492.9	454.1	451.3
77.5°	198.2	202.6	251.4	359.9	503.9	564.4	489.7	361.3	271.2	216.3	204.8
80°	55.3	55.9	74.6	134.0	252.2	331.6	270.8	140.8	79.1	55.8	52.6
82.5°	17.6	19.1	23.3	34.8	84.8	151.3	87.0	37.5	26.7	21.3	19.2
85°	8.6	8.5	11.8	14.1	21.6	33.5	23.1	17.4	15.2	10.1	9.2
87.5°	3.6	3.7	5.5	5.0	6.3	5.4	7.4	7.8	8.2	4.5	3.9
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)