

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: P348738

Luminaire Tested: **ARCH-N-PA1-20-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348738
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-PA1-20-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2779 lumens
Efficiency: N/A
Efficacy: 115.8 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

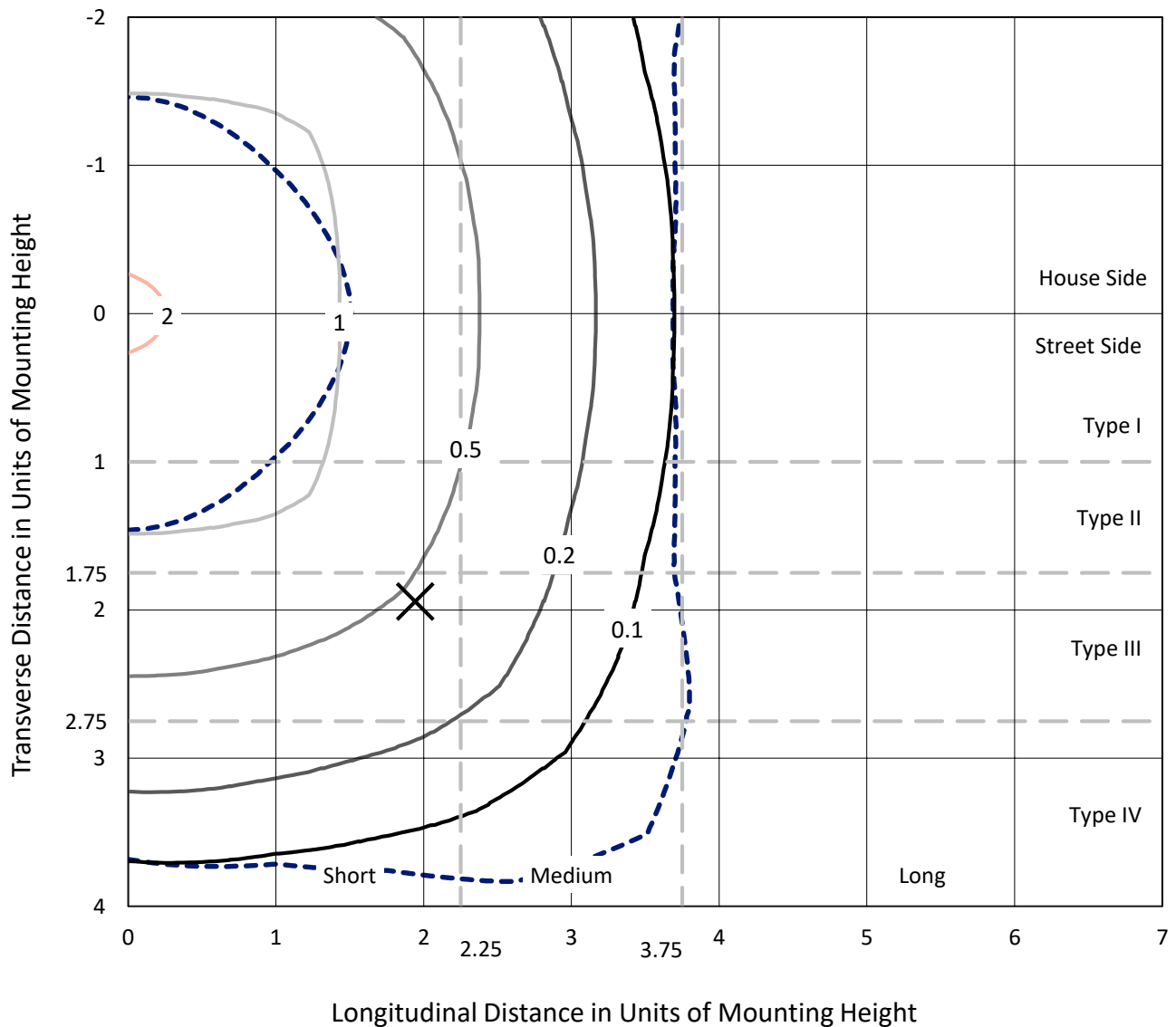
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

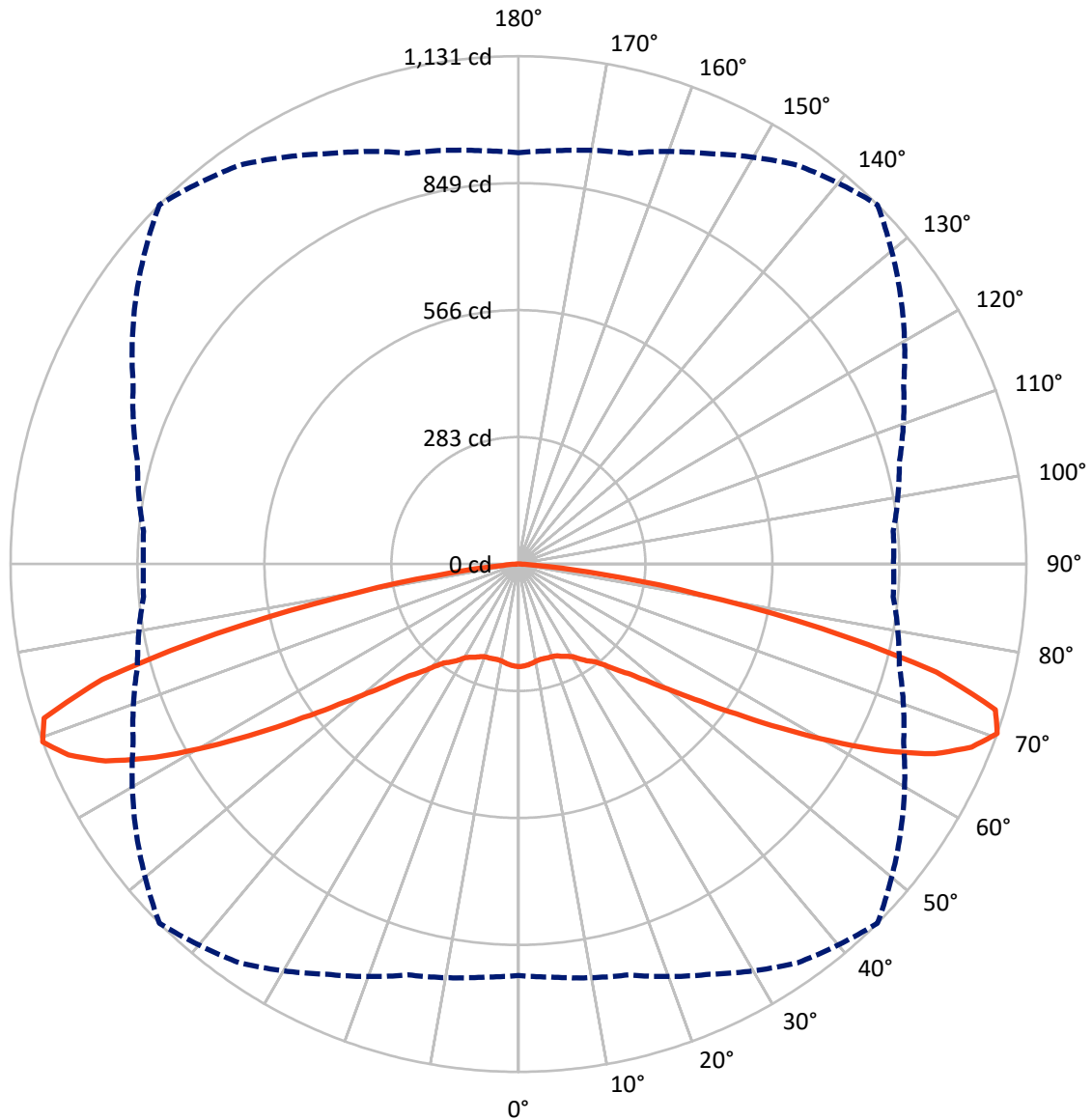
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 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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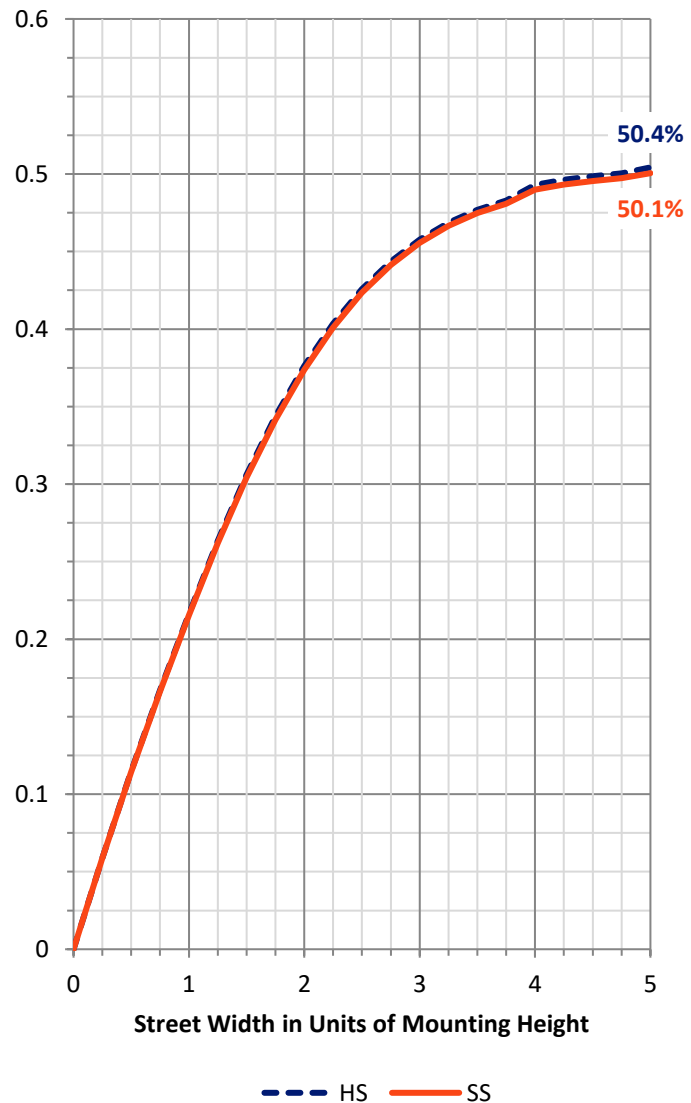
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1389.5	0.0	1389.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1389.5	0.0	1389.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2779.0	0.0	2779.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.8
10°-20°	62.4	2.2
20°-30°	106.3	3.8
30°-40°	166.1	6.0
40°-50°	281.5	10.1
50°-60°	513.4	18.5
60°-70°	883.8	31.8
70°-80°	692.8	24.9
80°-90°	51.4	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°	2779.0	100.0
0°-180°	2779.0	100.0



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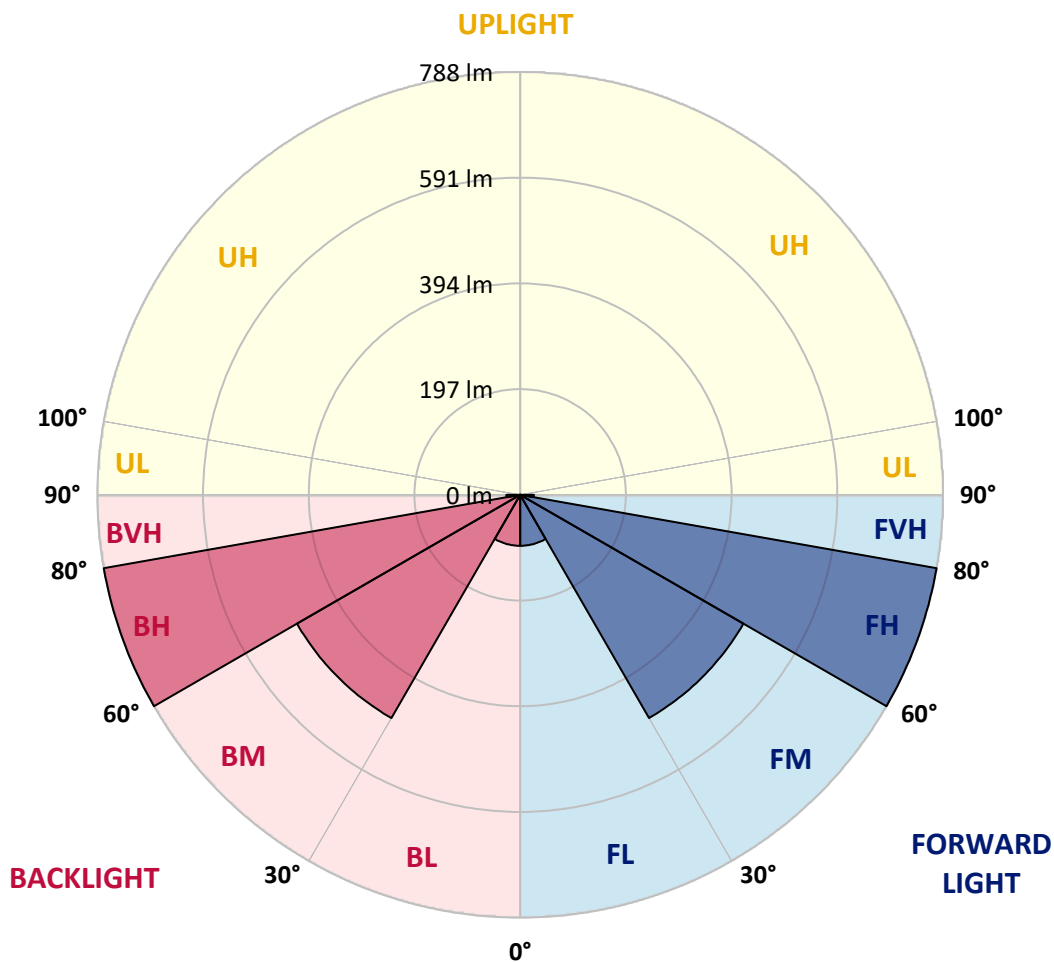
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.0	3.4			
FM	(30°-60°)	480.5	17.3			
FH	(60°-80°)	788.3	28.4			G1/1800
FVH	(80°-90°)	25.7	0.9			G1/100
BL	(0°-30°)	95.0	3.4	B0/110		
BM	(30°-60°)	480.5	17.3	B1/1000		
BH	(60°-80°)	788.3	28.4	B2/1000		G1/1800
BVH	(80°-90°)	25.7	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°	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.7
2.5°	227.7	228.0	227.7	227.9	227.4	227.6	227.6	227.6	227.5	227.6	227.4
5°	225.7	225.9	225.5	225.7	225.4	225.7	225.8	225.7	225.5	225.6	225.2
7.5°	222.6	222.8	222.6	222.8	222.5	222.9	222.8	222.6	222.3	222.3	221.9
10°	221.0	221.1	220.3	220.1	219.2	219.4	219.7	220.0	220.3	220.8	220.7
12.5°	221.1	221.1	220.0	218.8	217.6	217.9	218.3	219.3	220.4	221.4	221.5
15°	222.0	221.9	220.3	218.3	217.5	218.3	218.6	219.2	221.0	222.7	222.8
17.5°	222.6	222.6	220.1	217.9	217.8	219.1	219.0	219.2	221.2	223.7	223.8
20°	223.8	223.8	220.5	218.1	218.1	219.5	219.6	220.1	222.0	224.9	225.3
22.5°	226.5	226.6	223.1	221.2	221.4	222.2	222.5	223.2	224.9	228.1	228.6
25°	230.3	230.5	226.9	225.8	226.4	228.0	227.8	228.3	230.3	233.3	233.9
27.5°	235.5	235.1	231.7	231.3	231.9	233.0	232.9	233.0	234.6	237.4	238.0
30°	242.3	242.1	239.7	240.0	239.7	239.4	239.5	240.2	241.0	243.2	243.9
32.5°	248.9	249.1	247.6	249.0	251.1	252.4	250.3	248.3	247.4	248.6	249.1
35°	260.9	261.3	259.0	258.1	260.9	264.9	259.0	255.6	257.5	259.0	259.5
37.5°	281.2	281.5	277.6	273.9	271.9	275.8	269.8	270.1	276.5	279.5	279.4
40°	304.4	304.5	301.9	298.7	295.2	296.1	293.7	294.4	298.7	301.3	302.1
42.5°	331.9	331.7	327.6	323.0	322.0	322.9	318.9	318.3	323.2	328.0	328.1
45°	367.7	367.1	361.8	356.8	351.9	349.9	348.9	351.5	358.2	362.6	362.7
47.5°	406.2	404.5	401.7	397.7	393.4	391.4	389.8	391.1	395.9	397.7	397.9
50°	445.8	446.2	446.8	445.2	443.6	443.0	438.7	436.2	437.7	434.4	434.0
52.5°	492.8	493.6	498.9	503.4	506.1	507.4	499.3	490.7	485.9	479.7	477.8
55°	548.2	549.4	557.3	569.8	582.6	589.4	574.6	558.6	543.8	532.2	528.4
57.5°	610.0	612.1	622.9	646.9	673.3	689.4	664.3	635.3	606.7	589.9	586.9
60°	682.5	684.5	699.4	733.8	776.5	800.7	762.8	715.3	679.7	663.6	658.2
62.5°	768.7	768.9	787.2	827.3	883.8	917.4	866.1	802.6	765.9	746.5	741.3
65°	861.4	861.9	880.8	924.2	982.6	1019.2	961.3	895.1	850.2	821.6	817.6
67.5°	927.0	928.9	948.9	1001.1	1055.7	1088.7	1028.7	953.9	902.1	868.0	864.6
70°	916.5	924.0	947.5	1008.4	1084.4	1131.4	1039.7	946.9	878.5	838.3	835.4
72.5°	799.3	813.7	845.0	925.0	1046.4	1111.2	980.0	848.1	770.7	736.4	731.3
75°	544.3	567.7	614.9	730.3	894.0	962.1	825.0	676.2	603.4	556.0	552.5
77.5°	242.7	248.0	307.8	440.6	616.9	690.9	599.4	442.3	332.0	264.8	250.7
80°	67.7	68.5	91.4	164.1	308.8	405.9	331.5	172.4	96.9	68.3	64.3
82.5°	21.5	23.3	28.5	42.6	103.8	185.2	106.5	46.0	32.7	26.1	23.5
85°	10.5	10.4	14.4	17.3	26.5	41.0	28.2	21.3	18.7	12.4	11.2
87.5°	4.4	4.5	6.7	6.1	7.7	6.6	9.1	9.6	10.0	5.5	4.8
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)