

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: P798639

Luminaire Tested: **ARCH1-20-740-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3638 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B2 - U0 - G1

Input Watts (W): 23.5
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: 24 FT

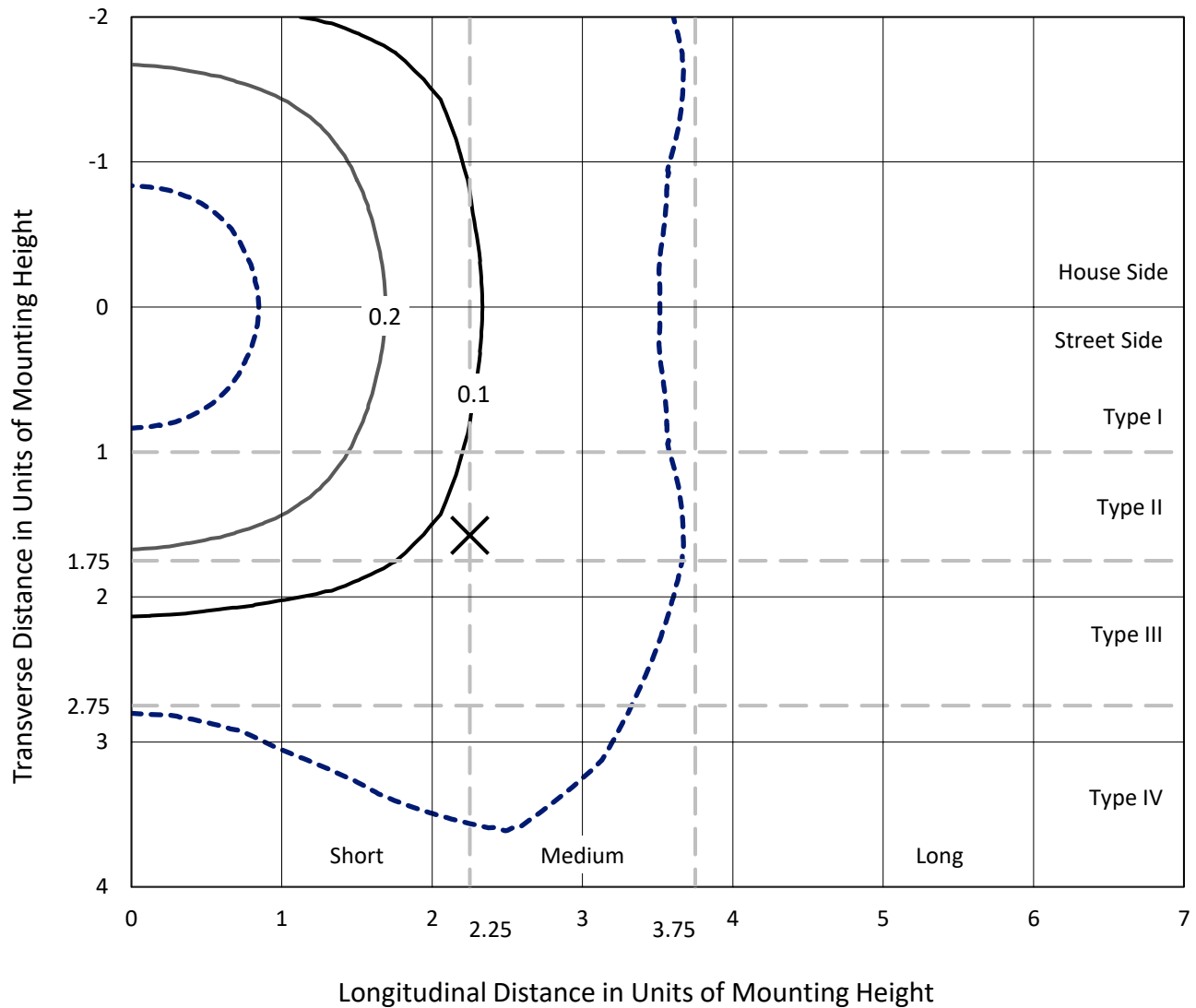


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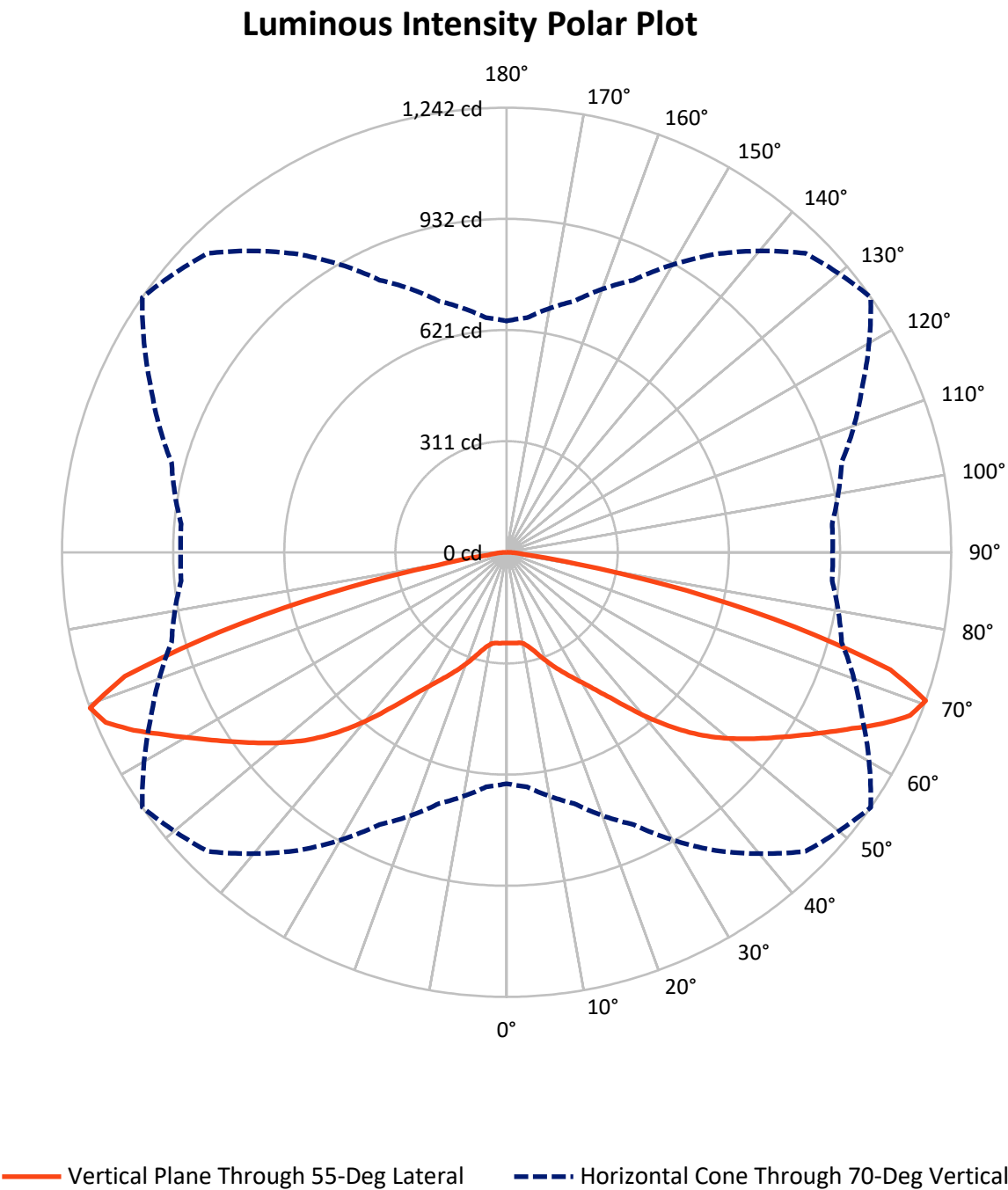
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
Type V - Medium - N/A

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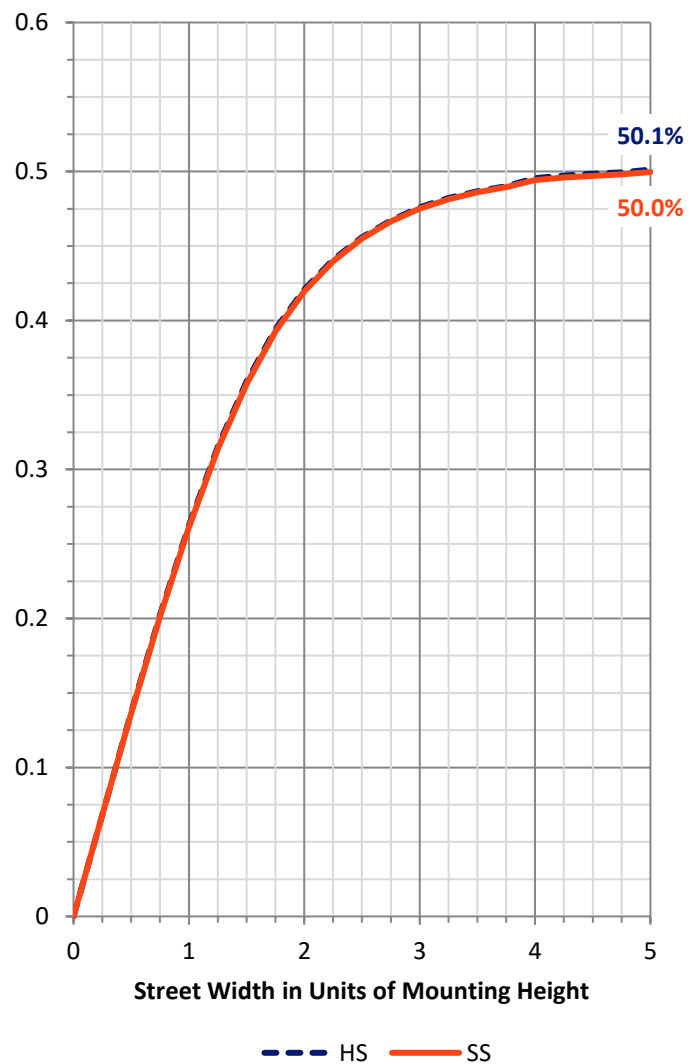
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1819.0	0.0	1819.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1819.0	0.0	1819.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3638.0	0.0	3638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.5	0.7
10°-20°	83.3	2.3
20°-30°	173.1	4.8
30°-40°	319.8	8.8
40°-50°	561.8	15.4
50°-60°	810.2	22.3
60°-70°	991.6	27.3
70°-80°	631.0	17.3
80°-90°	42.7	1.2
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°	3638.0	100.0
0°-180°	3638.0	100.0

Coefficient of Utilization



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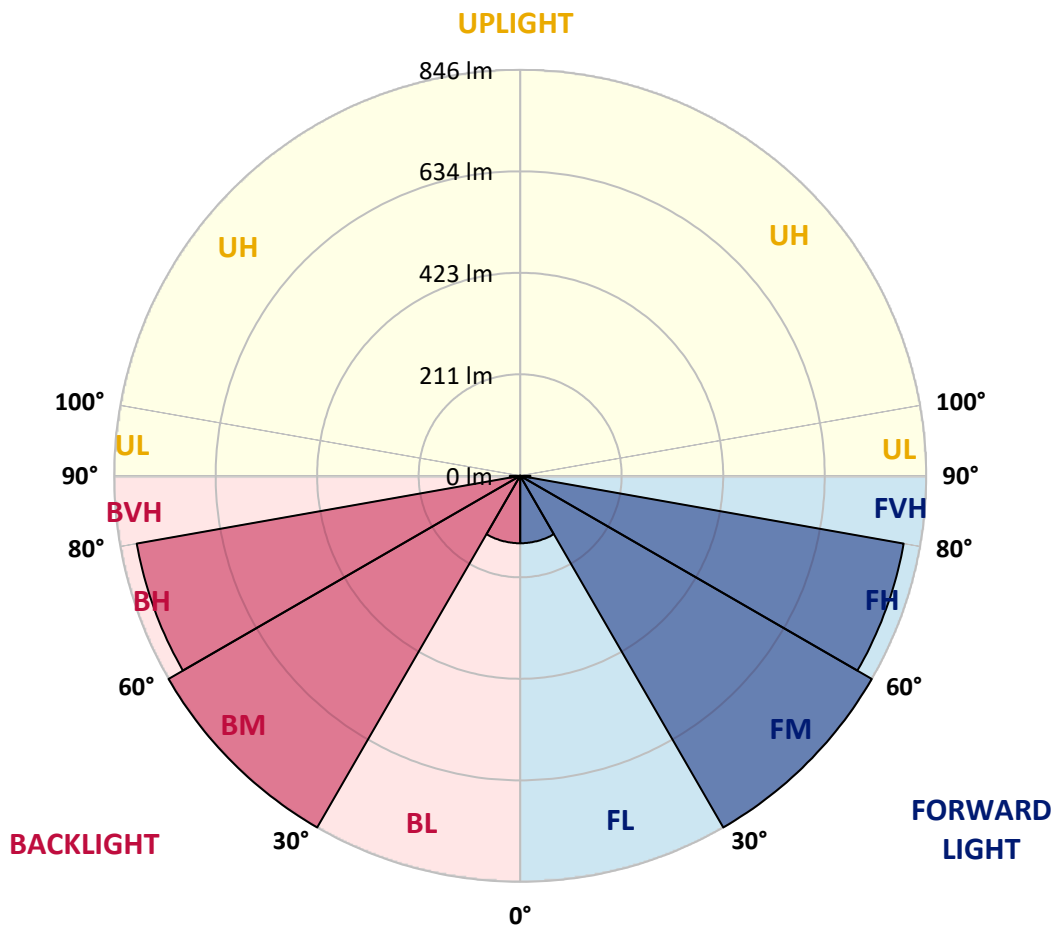
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.5	3.9			
FM	(30°-60°)	845.9	23.3			
FH	(60°-80°)	811.3	22.3			G1/1800
FVH	(80°-90°)	21.3	0.6			G1/100
BL	(0°-30°)	140.5	3.9	B1/500		
BM	(30°-60°)	845.9	23.3	B1/1000		
BH	(60°-80°)	811.3	22.3	B2/1000		G1/1800
BVH	(80°-90°)	21.3	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	253.6	253.6	253.6	253.6	253.6	253.6	253.6	253.6	253.6	253.6	253.6
2.5°	257.0	257.0	256.3	256.3	255.0	254.3	253.6	253.6	252.9	252.9	252.3
5°	258.3	258.3	258.3	257.7	257.0	256.3	255.0	253.6	252.9	252.3	251.6
7.5°	259.0	259.0	258.3	258.3	257.7	257.0	255.0	252.9	252.3	251.6	251.6
10°	264.4	263.7	263.1	261.7	261.7	261.7	259.0	257.0	256.3	256.3	256.3
12.5°	277.3	276.6	275.2	273.2	273.2	273.9	269.8	267.1	267.1	266.5	266.5
15°	296.2	295.5	294.2	290.8	290.1	291.5	285.4	282.7	282.7	282.7	282.0
17.5°	317.2	315.8	313.8	311.1	311.1	311.1	305.0	301.6	299.6	299.6	298.9
20°	334.8	334.1	334.1	333.4	335.4	335.4	327.3	321.9	317.2	314.5	313.8
22.5°	350.3	349.6	351.0	353.7	357.7	359.1	349.6	341.5	334.1	328.7	327.3
25°	371.3	370.6	369.9	374.0	380.7	382.8	372.6	362.5	355.0	352.3	351.0
27.5°	393.6	394.3	394.9	399.0	404.4	407.8	397.6	388.2	382.1	378.0	376.7
30°	418.6	420.0	422.0	428.1	432.1	433.5	424.7	417.9	412.5	409.1	407.1
32.5°	450.4	453.1	455.8	461.2	463.2	461.9	457.8	453.1	449.0	444.3	443.6
35°	497.7	500.4	499.8	501.8	502.5	501.1	499.1	496.4	494.4	488.3	487.6
37.5°	557.3	560.0	555.9	553.9	549.1	549.8	549.1	551.2	551.8	545.8	545.1
40°	617.4	620.1	614.7	609.3	604.6	602.6	605.9	612.7	612.7	608.6	608.6
42.5°	681.7	683.7	674.9	668.2	662.1	660.7	662.7	670.9	672.9	672.2	672.2
45°	745.9	744.6	733.1	726.3	720.9	717.5	718.2	724.3	728.3	730.4	730.4
47.5°	795.3	793.3	783.8	778.4	775.0	770.3	770.3	773.7	775.7	776.4	776.4
50°	834.5	832.5	823.0	822.3	822.3	820.3	818.3	817.6	816.3	816.9	816.9
52.5°	868.3	865.6	858.9	860.2	866.3	867.7	865.0	859.5	854.1	852.1	852.8
55°	904.9	900.8	895.4	899.4	911.6	917.0	913.0	902.2	892.7	886.6	886.6
57.5°	933.9	929.2	929.2	940.7	963.0	973.8	965.0	944.8	928.5	921.8	922.4
60°	913.6	909.6	925.8	976.5	1018.5	1036.7	1021.9	986.0	959.6	951.5	952.9
62.5°	873.7	871.0	891.3	969.8	1068.5	1106.4	1084.1	1032.7	993.4	984.0	984.0
65°	814.9	814.2	842.6	939.3	1080.0	1173.3	1154.4	1083.4	1032.7	1019.8	1022.5
67.5°	754.0	754.0	779.7	887.3	1066.5	1201.7	1216.6	1129.4	1051.6	1019.8	1020.5
70°	646.5	658.0	726.3	839.3	1017.1	1181.5	1242.3	1096.9	969.1	913.0	910.9
72.5°	426.1	440.9	576.9	755.4	968.4	1107.7	1121.3	963.7	804.8	739.2	735.8
75°	257.0	269.8	374.0	589.7	851.4	892.0	832.5	755.4	601.2	549.8	549.8
77.5°	75.7	84.5	172.4	374.0	589.0	586.3	513.3	445.0	355.7	302.3	306.4
80°	44.6	46.0	56.1	170.4	244.1	257.0	198.1	123.8	123.8	92.0	89.3
82.5°	34.5	34.5	35.8	42.6	58.8	65.6	50.0	42.6	48.7	41.3	39.2
85°	24.3	24.3	24.3	25.0	25.7	26.4	27.7	28.4	31.1	25.7	24.3
87.5°	7.4	8.1	8.8	10.1	12.2	12.8	13.5	12.2	12.2	11.5	10.8
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)