

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: P799487

Luminaire Tested: **ARCH2-30-727-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799487
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: ARCH2-30-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4944 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

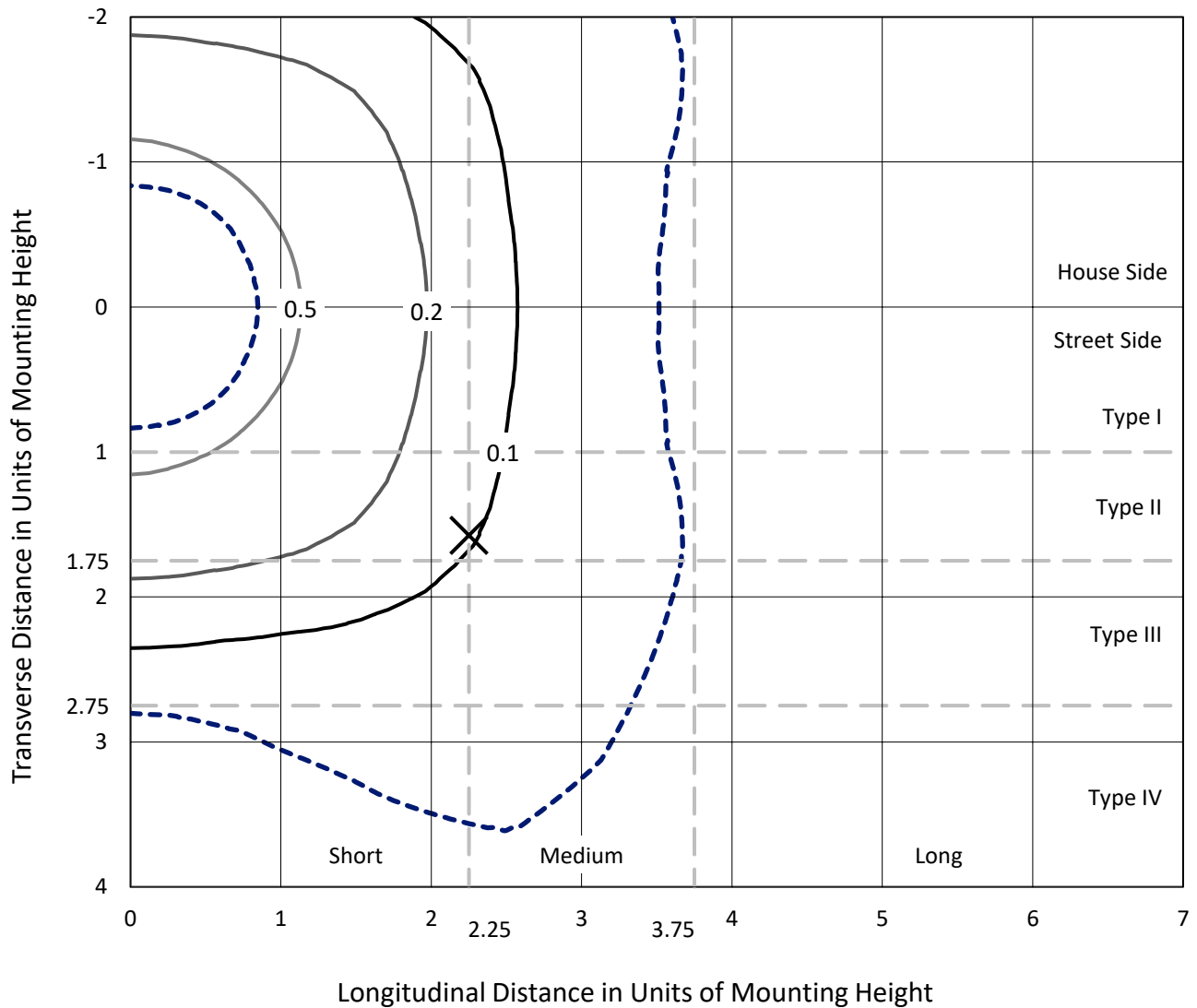
Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

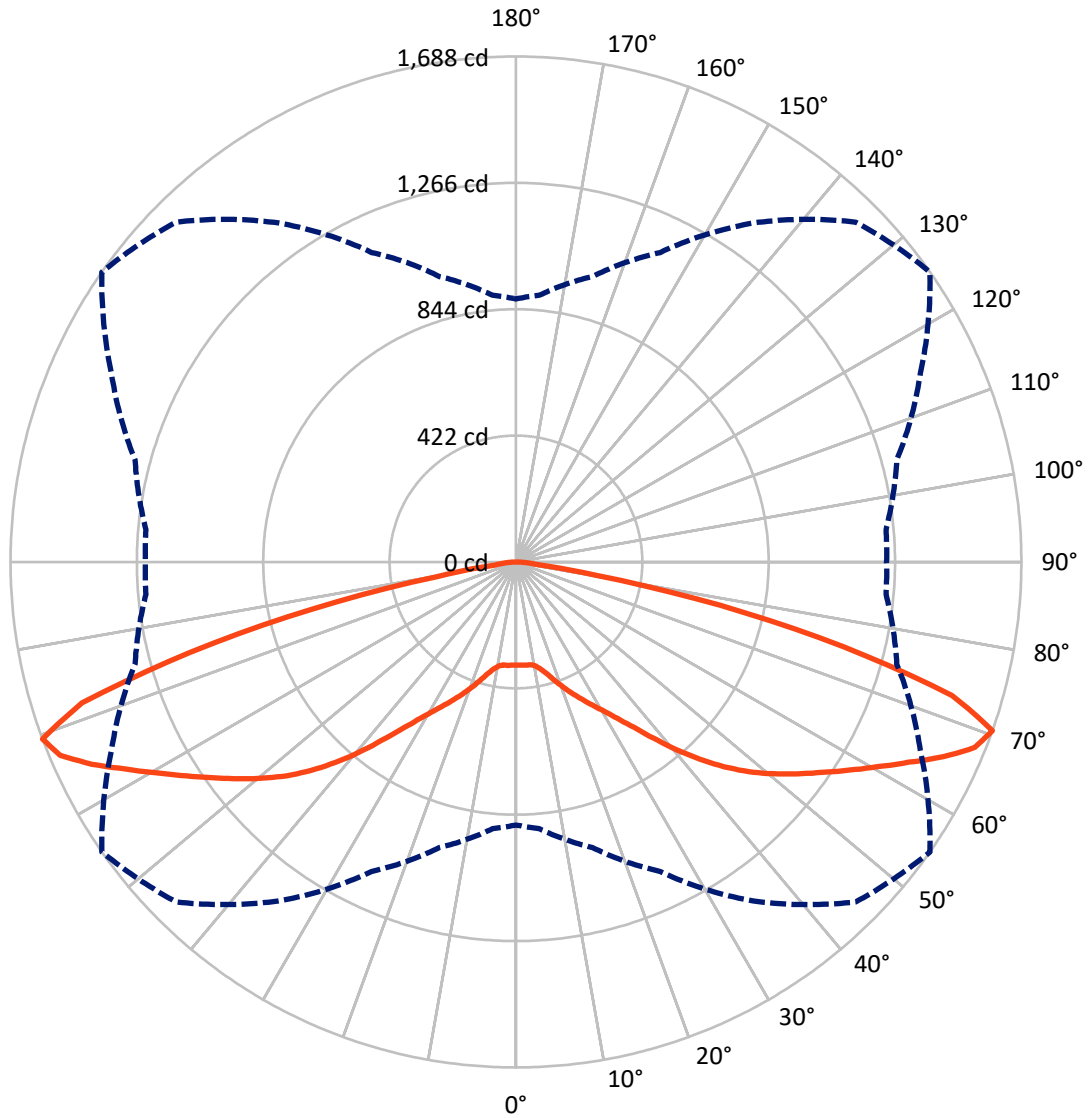
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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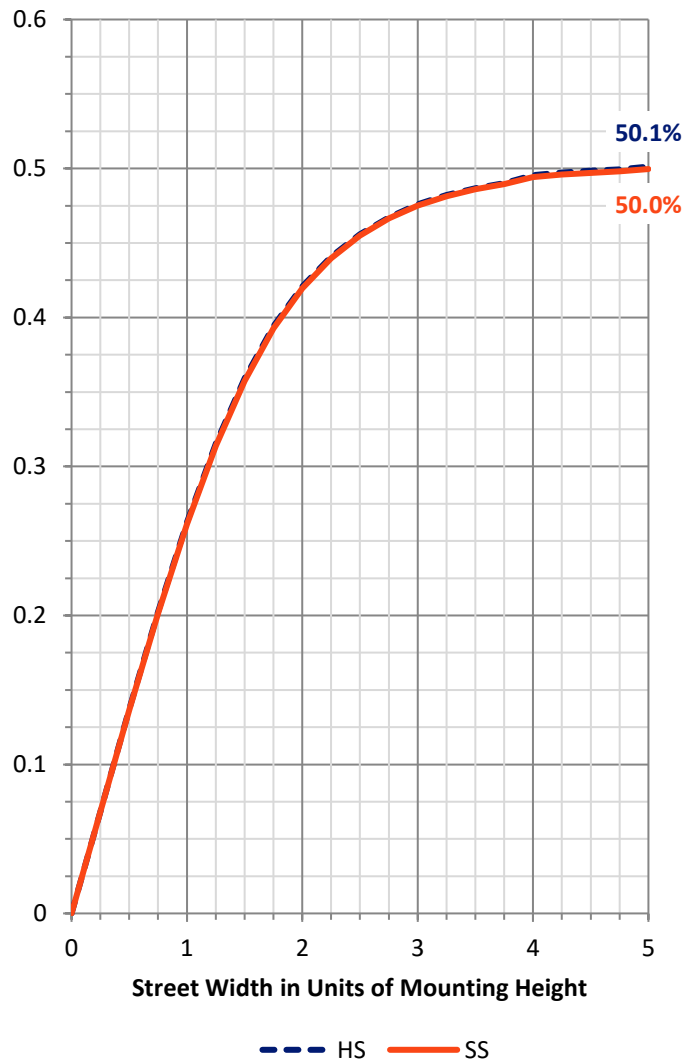
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2472.0	0.0	2472.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2472.0	0.0	2472.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4944.0	0.0	4944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	0.7
10°-20°	113.2	2.3
20°-30°	235.3	4.8
30°-40°	434.6	8.8
40°-50°	763.4	15.4
50°-60°	1101.1	22.3
60°-70°	1347.6	27.3
70°-80°	857.5	17.3
80°-90°	58.0	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°	4944.0	100.0
0°-180°	4944.0	100.0

Coefficient of Utilization



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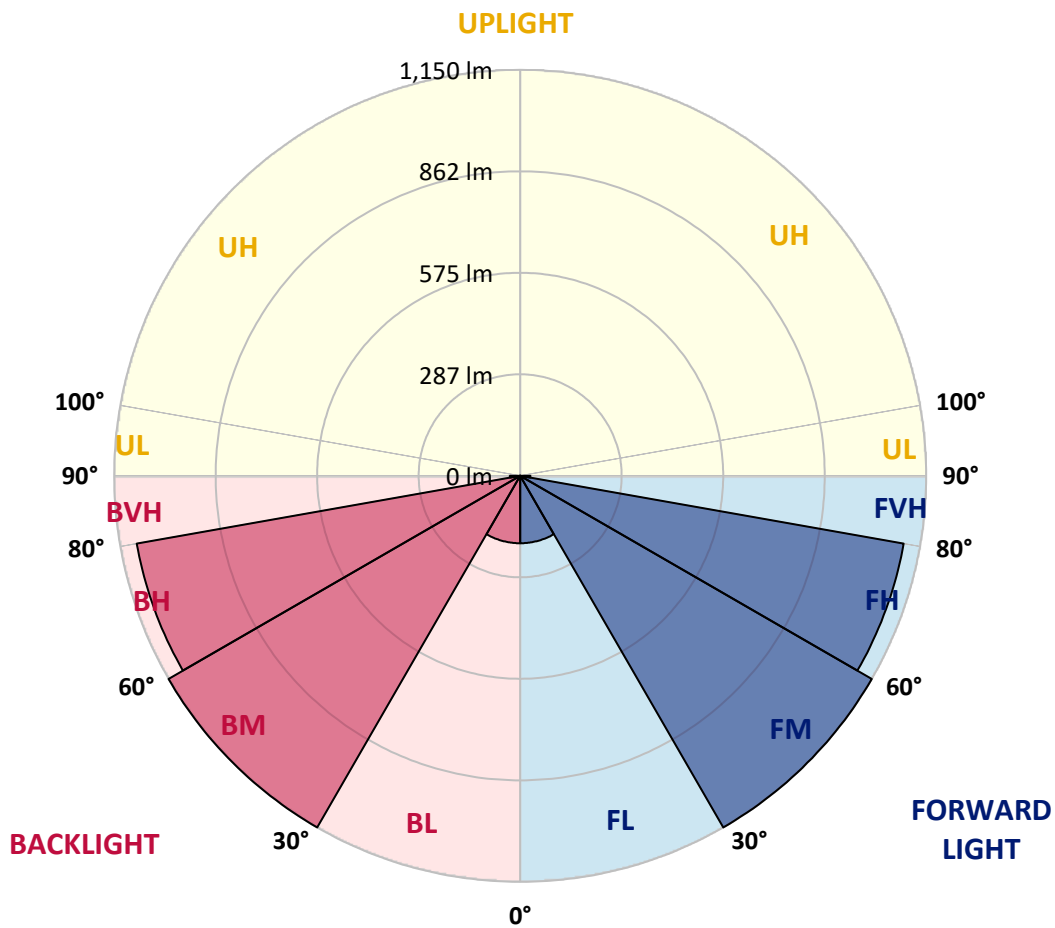
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.9	3.9			
FM (30°-60°)	1149.5	23.3			
FH (60°-80°)	1102.5	22.3			G1/1800
FVH (80°-90°)	29.0	0.6			G1/100
BL (0°-30°)	190.9	3.9	B1/500		
BM (30°-60°)	1149.5	23.3	B2/2500		
BH (60°-80°)	1102.5	22.3	B3/2500		G1/1800
BVH (80°-90°)	29.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6
2.5°	349.2	349.2	348.3	348.3	346.5	345.6	344.6	344.6	343.7	343.7	342.8
5°	351.1	351.1	351.1	350.2	349.2	348.3	346.5	344.6	343.7	342.8	341.9
7.5°	352.0	352.0	351.1	351.1	350.2	349.2	346.5	343.7	342.8	341.9	341.9
10°	359.3	358.4	357.5	355.7	355.7	355.7	352.0	349.2	348.3	348.3	348.3
12.5°	376.8	375.9	374.1	371.3	371.3	372.2	366.7	363.0	363.0	362.1	362.1
15°	402.5	401.6	399.8	395.2	394.3	396.1	387.8	384.2	384.2	384.2	383.2
17.5°	431.0	429.2	426.4	422.8	422.8	422.8	414.5	409.9	407.1	407.1	406.2
20°	454.9	454.0	454.0	453.1	455.8	455.8	444.8	437.5	431.0	427.4	426.4
22.5°	476.1	475.1	477.0	480.7	486.2	488.0	475.1	464.1	454.0	446.7	444.8
25°	504.6	503.6	502.7	508.2	517.4	520.2	506.4	492.6	482.5	478.8	477.0
27.5°	534.9	535.8	536.7	542.2	549.6	554.2	540.4	527.5	519.3	513.7	511.9
30°	568.9	570.7	573.5	581.8	587.3	589.1	577.2	568.0	560.6	556.0	553.3
32.5°	612.1	615.8	619.4	626.8	629.5	627.7	622.2	615.8	610.2	603.8	602.9
35°	676.4	680.1	679.2	681.9	682.9	681.0	678.3	674.6	671.8	663.6	662.6
37.5°	757.3	761.0	755.5	752.7	746.3	747.2	746.3	749.0	749.9	741.7	740.8
40°	839.1	842.8	835.4	828.1	821.6	818.9	823.5	832.7	832.7	827.1	827.1
42.5°	926.4	929.2	917.2	908.0	899.7	897.9	900.7	911.7	914.5	913.5	913.5
45°	1013.7	1011.9	996.2	987.1	979.7	975.1	976.0	984.3	989.8	992.6	992.6
47.5°	1080.8	1078.0	1065.2	1057.8	1053.2	1046.8	1046.8	1051.4	1054.1	1055.1	1055.1
50°	1134.1	1131.3	1118.5	1117.6	1117.6	1114.8	1112.0	1111.1	1109.3	1110.2	1110.2
52.5°	1180.1	1176.4	1167.2	1169.0	1177.3	1179.1	1175.5	1168.1	1160.8	1158.0	1158.9
55°	1229.7	1224.2	1216.8	1222.3	1238.9	1246.2	1240.7	1226.0	1213.1	1204.9	1204.9
57.5°	1269.2	1262.8	1262.8	1278.4	1308.7	1323.4	1311.5	1283.9	1261.9	1252.7	1253.6
60°	1241.6	1236.1	1258.2	1327.1	1384.1	1408.9	1388.7	1340.0	1304.1	1293.1	1294.9
62.5°	1187.4	1183.7	1211.3	1317.9	1452.1	1503.6	1473.2	1403.4	1350.1	1337.2	1337.2
65°	1107.5	1106.5	1145.1	1276.6	1467.7	1594.6	1568.8	1472.3	1403.4	1385.9	1389.6
67.5°	1024.7	1024.7	1059.7	1205.8	1449.3	1633.2	1653.4	1534.8	1429.1	1385.9	1386.8
70°	878.6	894.2	987.1	1140.5	1382.2	1605.6	1688.3	1490.7	1317.0	1240.7	1238.0
72.5°	579.0	599.2	783.9	1026.6	1316.1	1505.4	1523.8	1309.6	1093.7	1004.5	999.9
75°	349.2	366.7	508.2	801.4	1157.1	1212.2	1131.3	1026.6	817.0	747.2	747.2
77.5°	102.9	114.9	234.4	508.2	800.5	796.8	697.6	604.7	483.4	410.8	416.3
80°	60.7	62.5	76.3	231.6	331.8	349.2	269.3	168.2	168.2	125.0	121.3
82.5°	46.9	46.9	48.7	57.9	80.0	89.1	68.0	57.9	66.2	56.1	53.3
85°	33.1	33.1	33.1	34.0	34.9	35.8	37.7	38.6	42.3	34.9	33.1
87.5°	10.1	11.0	11.9	13.8	16.5	17.5	18.4	16.5	16.5	15.6	14.7
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)