

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: P799679

Luminaire Tested: **ARCH2-40-750-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799679
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: ARCH2-40-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

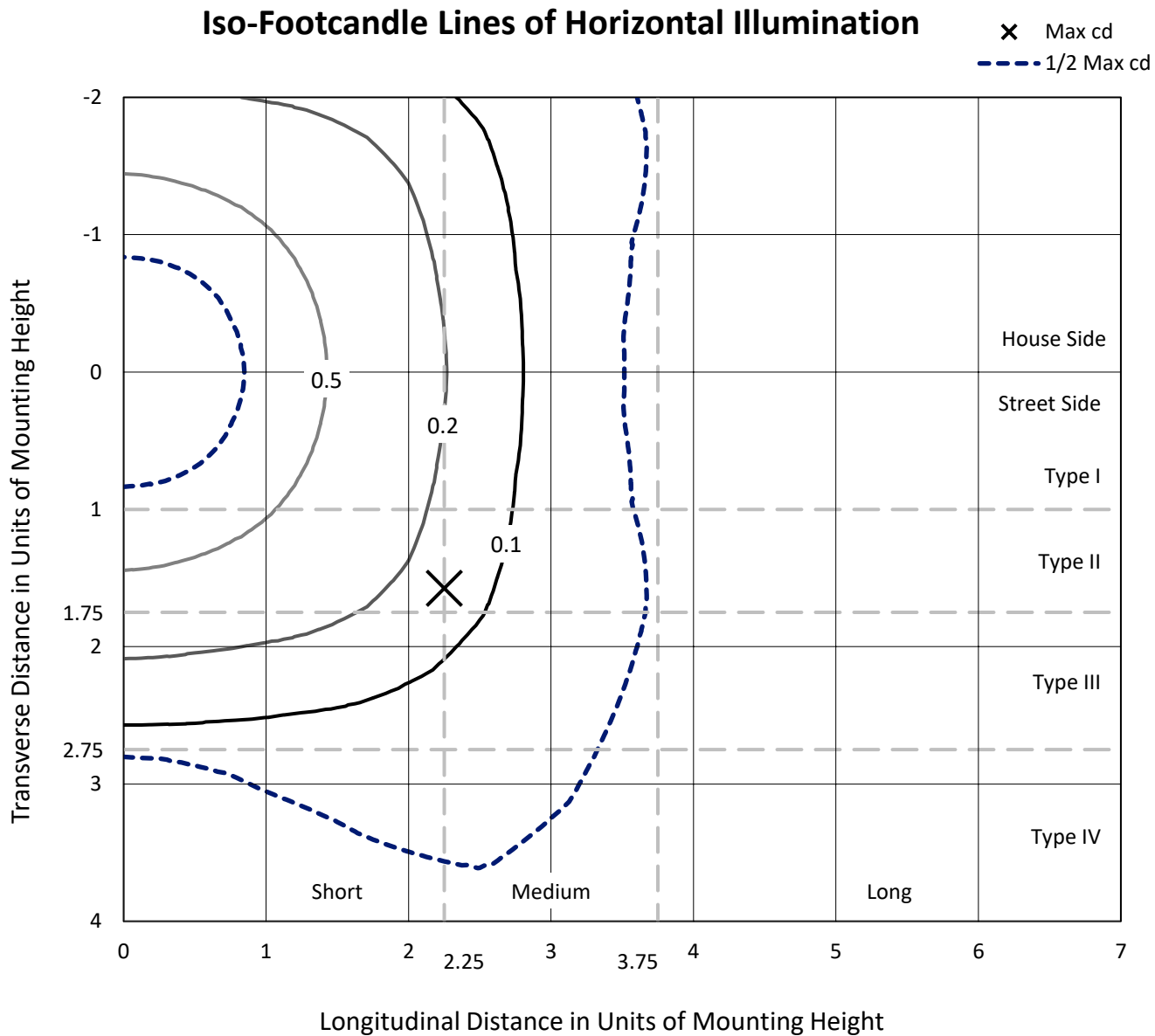
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6776 lumens
Efficiency: N/A
Efficacy: 153.7 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): 44.1
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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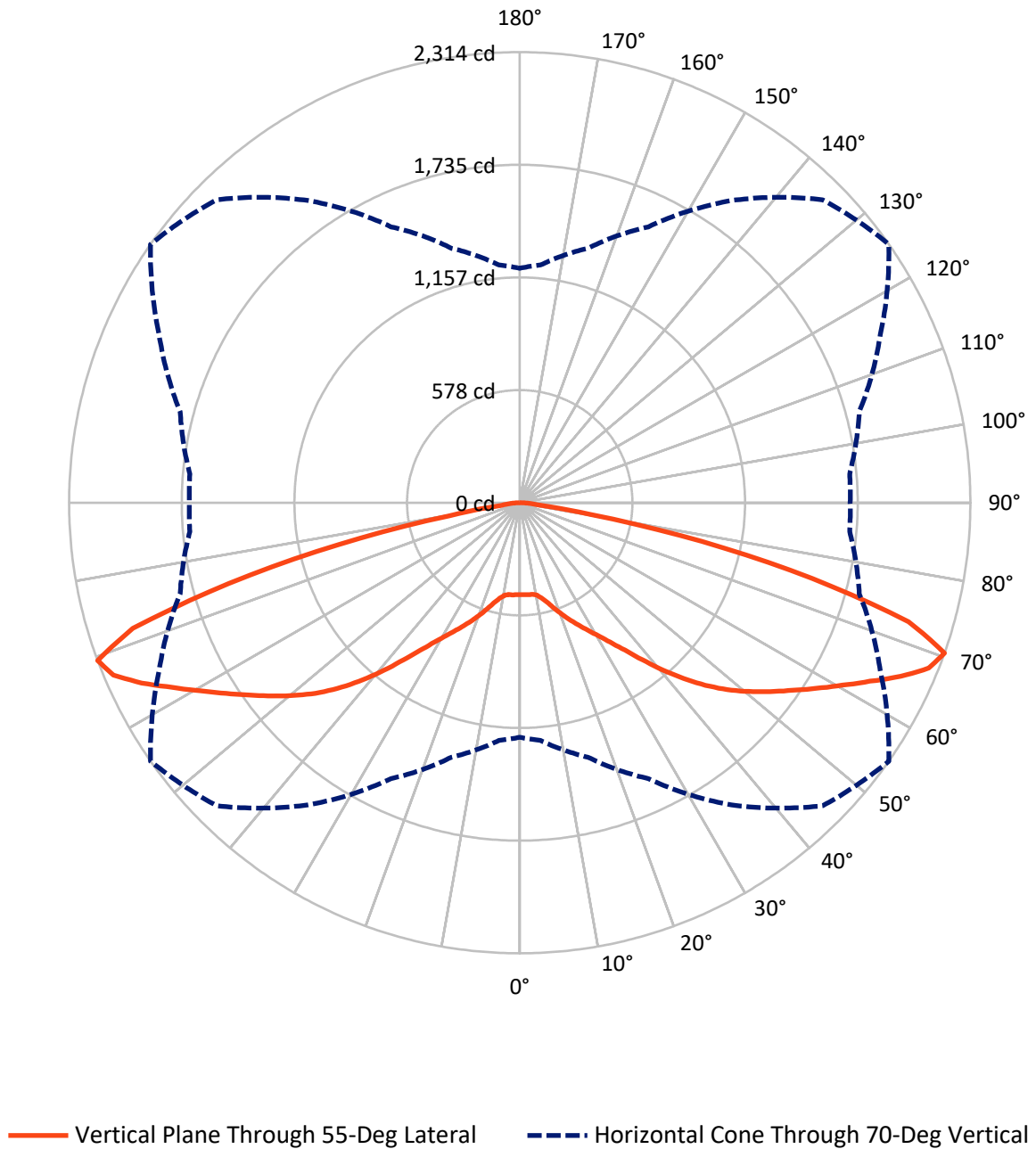


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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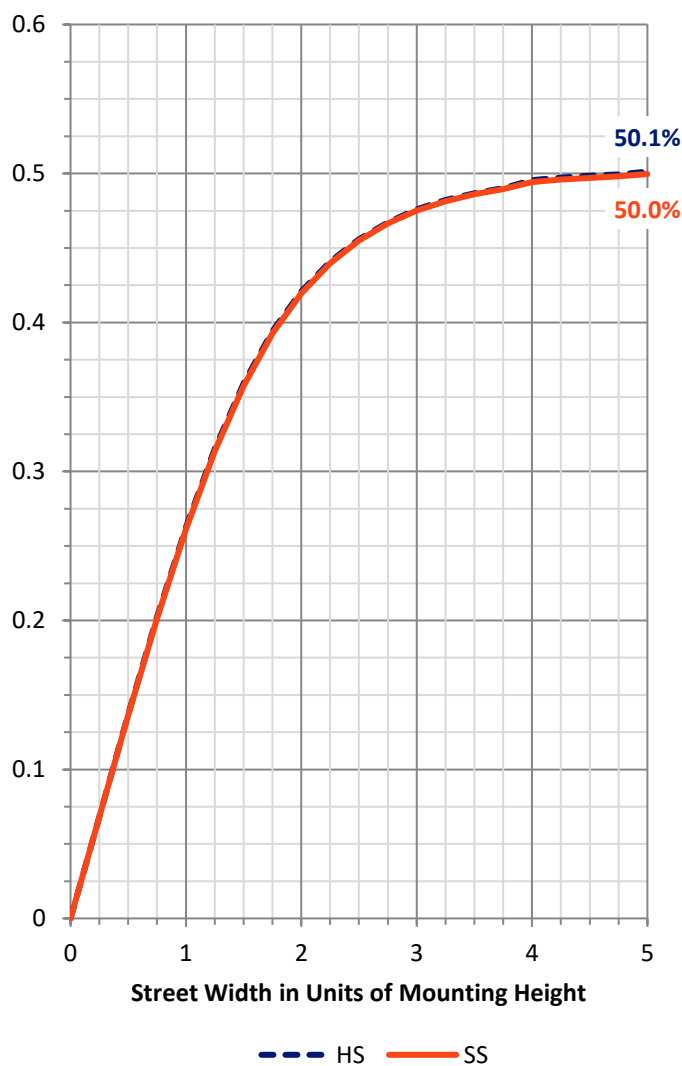
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3388.0	0.0	3388.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3388.0	0.0	3388.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6776.0	0.0	6776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	0.7
10°-20°	155.2	2.3
20°-30°	322.5	4.8
30°-40°	595.6	8.8
40°-50°	1046.3	15.4
50°-60°	1509.1	22.3
60°-70°	1846.9	27.3
70°-80°	1175.2	17.3
80°-90°	79.5	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°	6776.0	100.0
0°-180°	6776.0	100.0

Coefficient of Utilization



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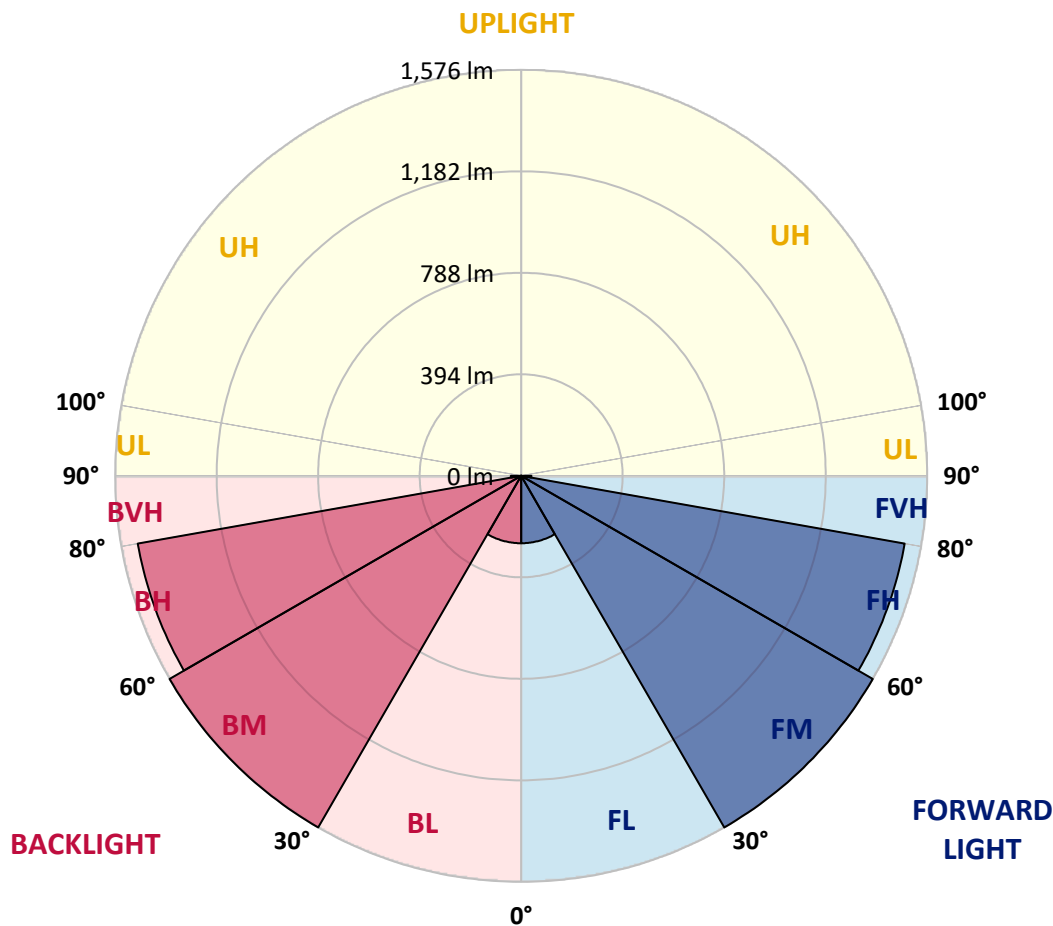
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.6	3.9			
FM	(30°-60°)	1575.5	23.3			
FH	(60°-80°)	1511.1	22.3			G1/1800
FVH	(80°-90°)	39.8	0.6			G1/100
BL	(0°-30°)	261.6	3.9	B1/500		
BM	(30°-60°)	1575.5	23.3	B2/2500		
BH	(60°-80°)	1511.1	22.3	B3/2500		G1/1800
BVH	(80°-90°)	39.8	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°	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4
2.5°	478.6	478.6	477.4	477.4	474.9	473.6	472.4	472.4	471.1	471.1	469.8
5°	481.2	481.2	481.2	479.9	478.6	477.4	474.9	472.4	471.1	469.8	468.6
7.5°	482.4	482.4	481.2	481.2	479.9	478.6	474.9	471.1	469.8	468.6	468.6
10°	492.5	491.2	490.0	487.5	487.5	487.5	482.4	478.6	477.4	477.4	477.4
12.5°	516.4	515.2	512.7	508.9	508.9	510.1	502.6	497.5	497.5	496.3	496.3
15°	551.7	550.4	547.9	541.6	540.4	542.9	531.6	526.5	526.5	526.5	525.3
17.5°	590.8	588.2	584.5	579.4	579.4	579.4	568.1	561.8	558.0	558.0	556.7
20°	623.5	622.2	622.2	621.0	624.8	624.8	609.6	599.6	590.8	585.7	584.5
22.5°	652.5	651.2	653.7	658.8	666.3	668.8	651.2	636.1	622.2	612.2	609.6
25°	691.5	690.3	689.0	696.6	709.2	712.9	694.0	675.1	661.3	656.3	653.7
27.5°	733.1	734.3	735.6	743.2	753.2	759.5	740.6	723.0	711.7	704.1	701.6
30°	779.7	782.2	786.0	797.3	804.9	807.4	791.0	778.4	768.4	762.1	758.3
32.5°	838.9	843.9	849.0	859.0	862.8	860.3	852.8	843.9	836.4	827.6	826.3
35°	927.1	932.1	930.8	934.6	935.9	933.4	929.6	924.5	920.8	909.4	908.2
37.5°	1037.9	1043.0	1035.4	1031.6	1022.8	1024.1	1022.8	1026.6	1027.8	1016.5	1015.2
40°	1150.0	1155.1	1145.0	1134.9	1126.1	1122.3	1128.6	1141.2	1141.2	1133.6	1133.6
42.5°	1269.7	1273.5	1257.1	1244.5	1233.2	1230.6	1234.4	1249.5	1253.3	1252.0	1252.0
45°	1389.3	1386.8	1365.4	1352.8	1342.7	1336.4	1337.7	1349.0	1356.6	1360.4	1360.4
47.5°	1481.3	1477.5	1459.9	1449.8	1443.5	1434.7	1434.7	1441.0	1444.8	1446.0	1446.0
50°	1554.4	1550.6	1532.9	1531.7	1531.7	1527.9	1524.1	1522.9	1520.3	1521.6	1521.6
52.5°	1617.3	1612.3	1599.7	1602.2	1613.6	1616.1	1611.0	1601.0	1590.9	1587.1	1588.4
55°	1685.3	1677.8	1667.7	1675.3	1697.9	1708.0	1700.5	1680.3	1662.7	1651.3	1651.3
57.5°	1739.5	1730.7	1730.7	1752.1	1793.7	1813.8	1797.5	1759.7	1729.4	1716.8	1718.1
60°	1701.7	1694.2	1724.4	1818.9	1897.0	1931.0	1903.3	1836.5	1787.4	1772.3	1774.8
62.5°	1627.4	1622.4	1660.2	1806.3	1990.2	2060.7	2019.1	1923.4	1850.4	1832.7	1832.7
65°	1517.8	1516.6	1569.5	1749.6	2011.6	2185.4	2150.1	2017.9	1923.4	1899.5	1904.5
67.5°	1404.5	1404.5	1452.3	1652.6	1986.4	2238.3	2266.0	2103.5	1958.7	1899.5	1900.7
70°	1204.2	1225.6	1352.8	1563.2	1894.4	2200.5	2313.9	2043.1	1805.0	1700.5	1696.7
72.5°	793.5	821.3	1074.4	1407.0	1803.8	2063.2	2088.4	1794.9	1498.9	1376.7	1370.4
75°	478.6	502.6	696.6	1098.4	1585.8	1661.4	1550.6	1407.0	1119.8	1024.1	1024.1
77.5°	141.1	157.5	321.2	696.6	1097.1	1092.1	956.0	828.8	662.6	563.0	570.6
80°	83.1	85.7	104.5	317.4	454.7	478.6	369.1	230.5	230.5	171.3	166.3
82.5°	64.2	64.2	66.8	79.4	109.6	122.2	93.2	79.4	90.7	76.8	73.1
85°	45.3	45.3	45.3	46.6	47.9	49.1	51.6	52.9	57.9	47.9	45.3
87.5°	13.9	15.1	16.4	18.9	22.7	23.9	25.2	22.7	22.7	21.4	20.2
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)