

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209145

Luminaire Tested: UPW-SA2-090-827-U-5NQ

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-827-U-5NQ  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9044 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 85  
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

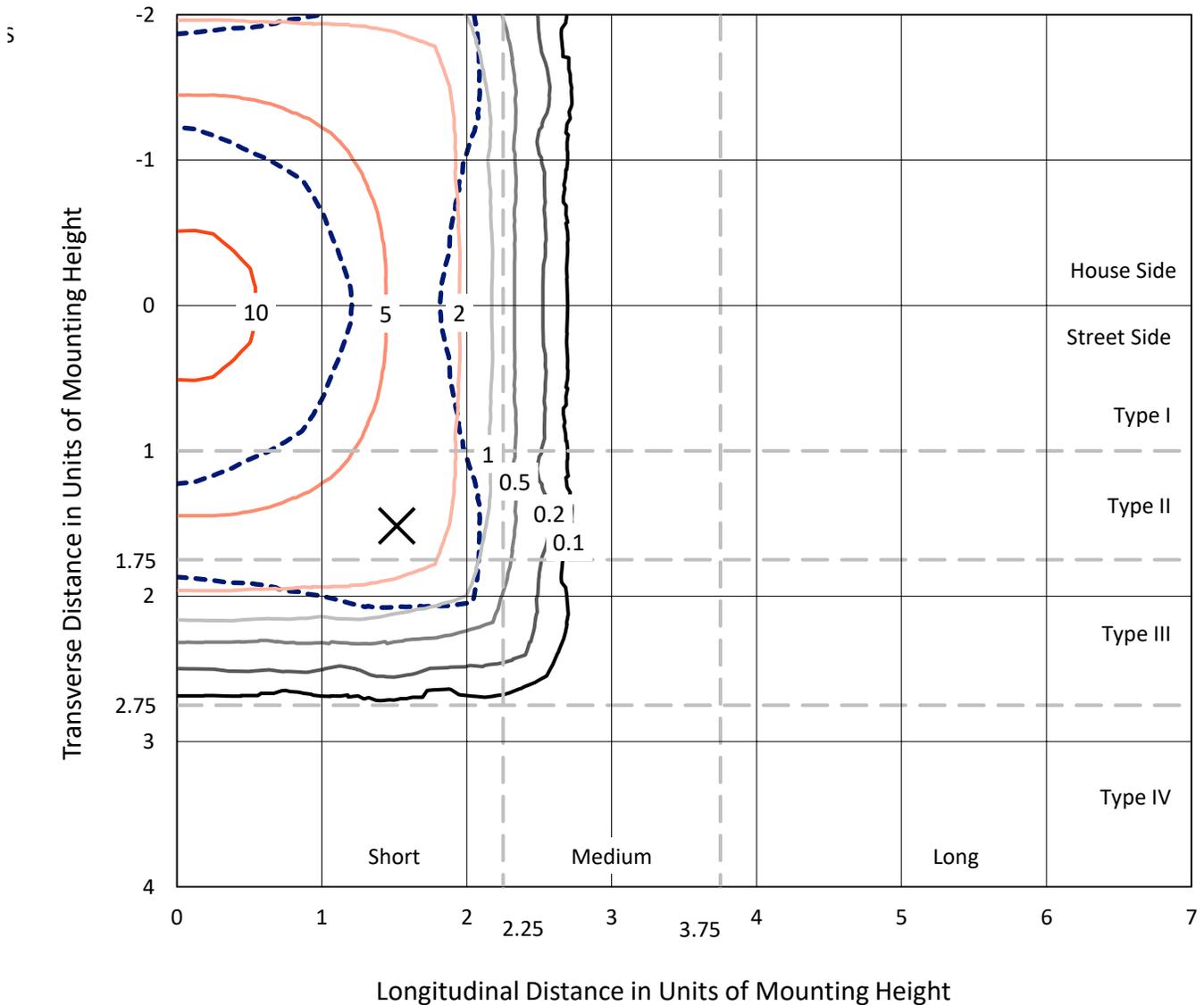


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### Iso-Footcandle Lines of Horizontal Illumination

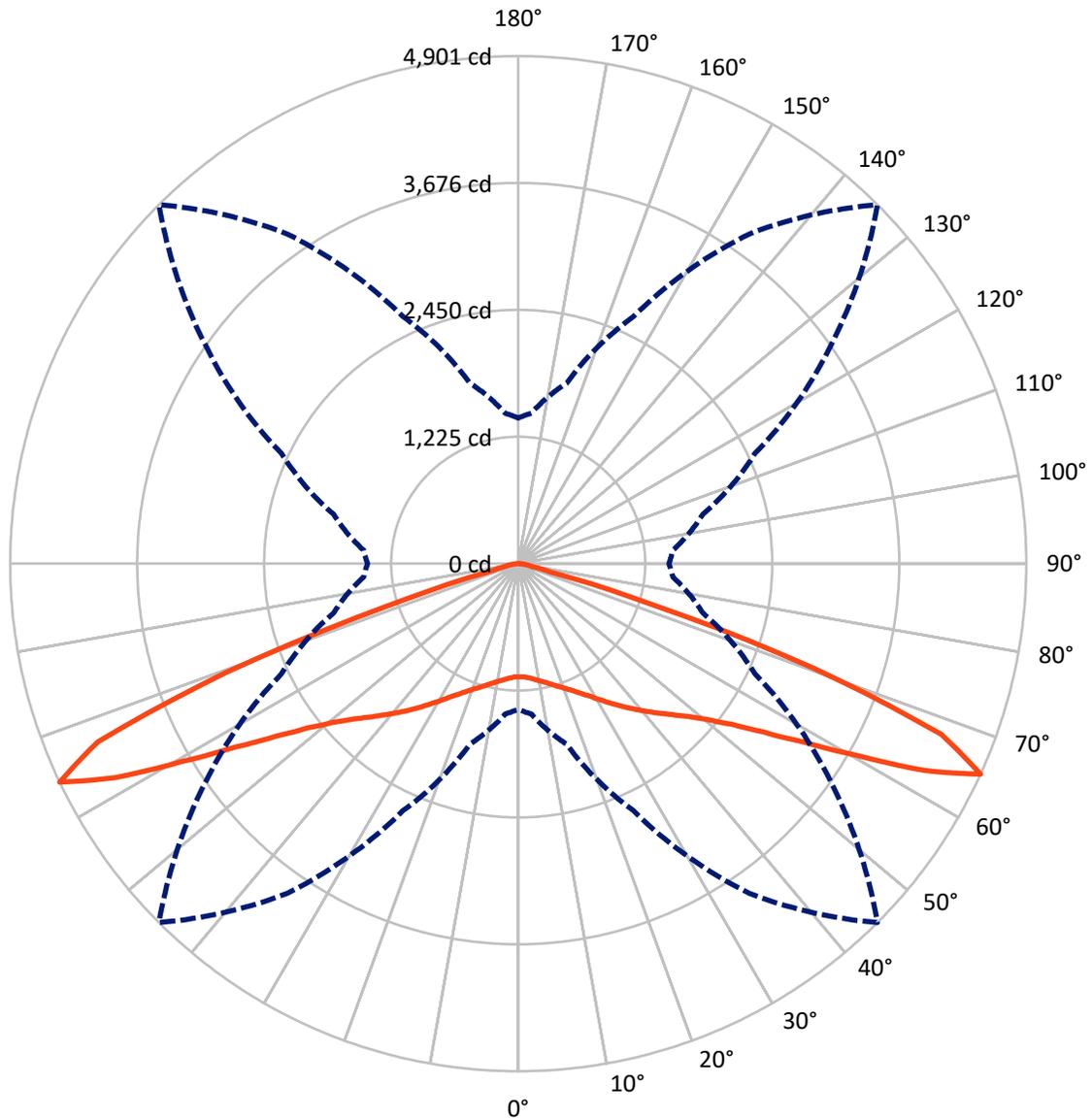
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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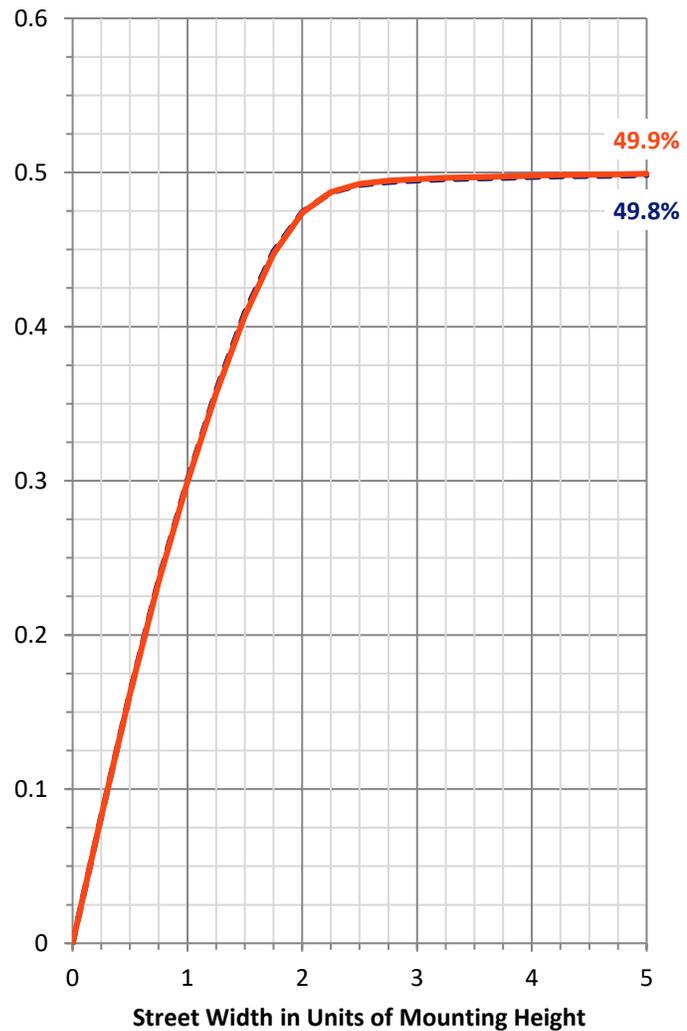
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4522.0	0.0	4522.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4522.0	0.0	4522.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9044.0	0.0	9044.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	1.2
10°-20°	344.4	3.8
20°-30°	646.2	7.1
30°-40°	1068.7	11.8
40°-50°	1655.3	18.3
50°-60°	2538.8	28.1
60°-70°	2369.0	26.2
70°-80°	275.7	3.0
80°-90°	38.7	0.4
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°	9044.0	100.0
0°-180°	9044.0	100.0



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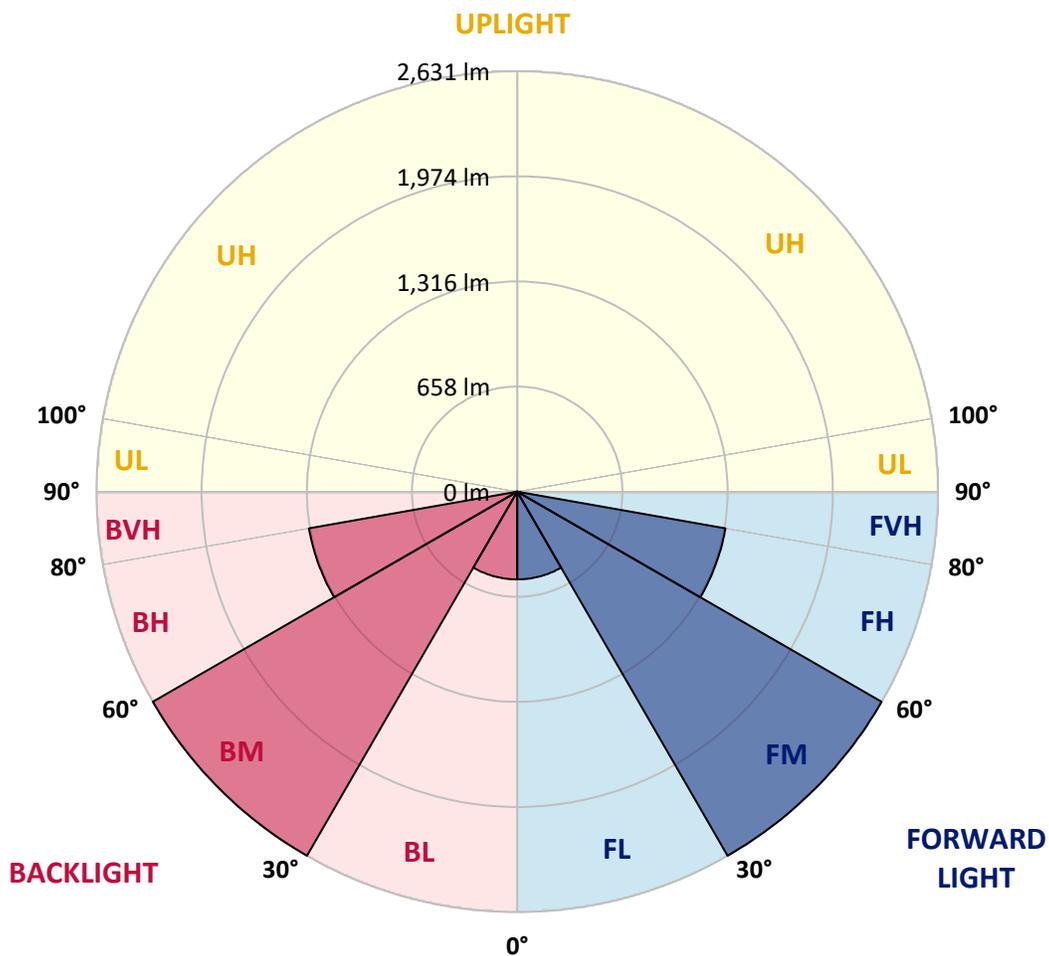
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	548.9	6.1			
FM	(30°-60°)	2631.4	29.1			
FH	(60°-80°)	1322.3	14.6			G1/1800
FVH	(80°-90°)	19.4	0.2			G1/100
BL	(0°-30°)	548.9	6.1	B2/1000		
BM	(30°-60°)	2631.4	29.1	B3/5000		
BH	(60°-80°)	1322.3	14.6	B3/2500		G1/1800
BVH	(80°-90°)	19.4	0.2			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1092.2	1092.2	1092.2	1092.2	1092.2	1092.2	1092.2	1092.2	1092.2	1092.2	1092.2
2.5°	1095.8	1095.2	1095.8	1096.1	1094.3	1095.2	1094.9	1096.4	1097.0	1096.4	1096.4
5°	1108.4	1107.5	1108.7	1110.2	1107.8	1108.4	1107.5	1109.3	1109.9	1108.7	1109.6
7.5°	1125.8	1126.1	1127.3	1130.0	1128.5	1129.7	1127.9	1128.2	1127.9	1126.1	1126.4
10°	1144.7	1145.0	1147.1	1150.7	1151.3	1151.3	1150.1	1149.2	1148.0	1146.8	1147.1
12.5°	1167.5	1169.0	1170.5	1175.0	1175.0	1177.4	1176.8	1174.4	1172.3	1170.5	1170.5
15°	1198.5	1198.2	1200.0	1204.5	1206.6	1210.5	1210.5	1207.2	1204.5	1202.7	1202.1
17.5°	1230.9	1231.8	1233.0	1238.4	1241.7	1246.2	1246.8	1244.1	1242.3	1239.9	1238.4
20°	1268.7	1270.2	1275.0	1277.1	1280.1	1284.3	1285.8	1285.2	1283.4	1282.2	1282.5
22.5°	1312.8	1316.7	1319.7	1322.7	1326.3	1329.3	1330.8	1332.9	1331.1	1330.2	1329.6
25°	1366.3	1369.0	1375.0	1380.4	1382.8	1383.7	1385.5	1388.5	1388.2	1386.1	1386.1
27.5°	1426.9	1432.0	1439.5	1447.3	1447.3	1444.3	1450.3	1455.4	1453.6	1450.9	1447.3
30°	1500.5	1505.3	1514.0	1524.8	1519.4	1517.3	1525.4	1534.7	1532.0	1527.5	1526.9
32.5°	1579.7	1584.2	1595.6	1607.3	1600.4	1597.4	1606.1	1619.7	1614.8	1605.8	1600.4
35°	1665.6	1670.1	1686.3	1700.4	1688.7	1683.6	1690.8	1705.5	1697.1	1680.3	1676.1
37.5°	1759.0	1761.4	1782.4	1796.8	1788.7	1775.2	1784.2	1795.0	1787.8	1767.4	1759.3
40°	1855.9	1864.6	1888.9	1905.8	1891.6	1870.3	1885.3	1900.4	1889.5	1863.4	1849.6
42.5°	1969.1	1975.7	2008.1	2023.1	2000.3	1970.3	1990.7	2011.1	2000.3	1975.1	1963.1
45°	2086.8	2097.0	2135.7	2150.7	2117.7	2079.6	2104.5	2140.2	2139.3	2103.0	2090.4
47.5°	2215.0	2225.2	2271.4	2291.2	2255.5	2204.5	2239.6	2290.0	2286.4	2246.5	2236.3
50°	2363.0	2373.8	2431.4	2456.3	2423.0	2363.6	2416.4	2460.9	2454.2	2405.0	2405.9
52.5°	2548.8	2548.2	2620.0	2663.2	2629.0	2576.4	2625.1	2668.3	2641.0	2572.8	2570.7
55°	2711.5	2721.4	2810.3	2892.3	2890.2	2870.0	2889.6	2891.4	2813.3	2722.6	2711.5
57.5°	2818.4	2837.3	2962.5	3110.8	3221.9	3248.6	3210.8	3096.1	2913.3	2768.3	2750.6
60°	2752.7	2781.5	2978.1	3280.4	3607.7	3764.7	3551.2	3195.5	2835.5	2633.5	2609.5
62.5°	2308.9	2357.6	2645.5	3198.5	3939.7	4398.7	3798.0	3036.1	2526.3	2248.0	2206.9
65°	1406.2	1457.5	1804.6	2632.6	3886.0	4900.7	3685.4	2520.0	1843.9	1497.8	1453.3
67.5°	468.6	483.6	688.1	1455.1	3054.1	4403.2	3059.2	1508.6	802.5	532.0	516.4
70°	183.4	184.9	218.3	421.8	1442.2	3024.4	1591.4	429.3	228.2	180.4	184.3
72.5°	134.8	135.4	144.7	176.2	375.9	1332.3	389.4	177.1	140.8	126.4	126.4
75°	108.4	108.4	115.0	128.5	168.4	305.6	170.8	127.0	110.2	100.9	99.7
77.5°	85.6	87.4	92.5	101.2	114.1	147.1	118.3	100.6	88.9	80.2	78.4
80°	63.6	65.4	73.9	78.1	82.0	102.1	87.4	78.7	70.3	60.0	58.2
82.5°	41.7	43.5	54.0	56.4	55.5	66.6	58.8	57.9	51.6	38.7	36.9
85°	27.3	27.9	36.0	37.5	34.5	30.3	37.5	39.6	36.0	25.2	24.3
87.5°	12.9	12.9	18.3	17.1	15.6	12.6	17.1	20.1	20.4	12.3	12.0
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)