

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: P1208982

Luminaire Tested: UPW-SA2-090-727-U-5MQ

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-727-U-5MQ  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10478 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

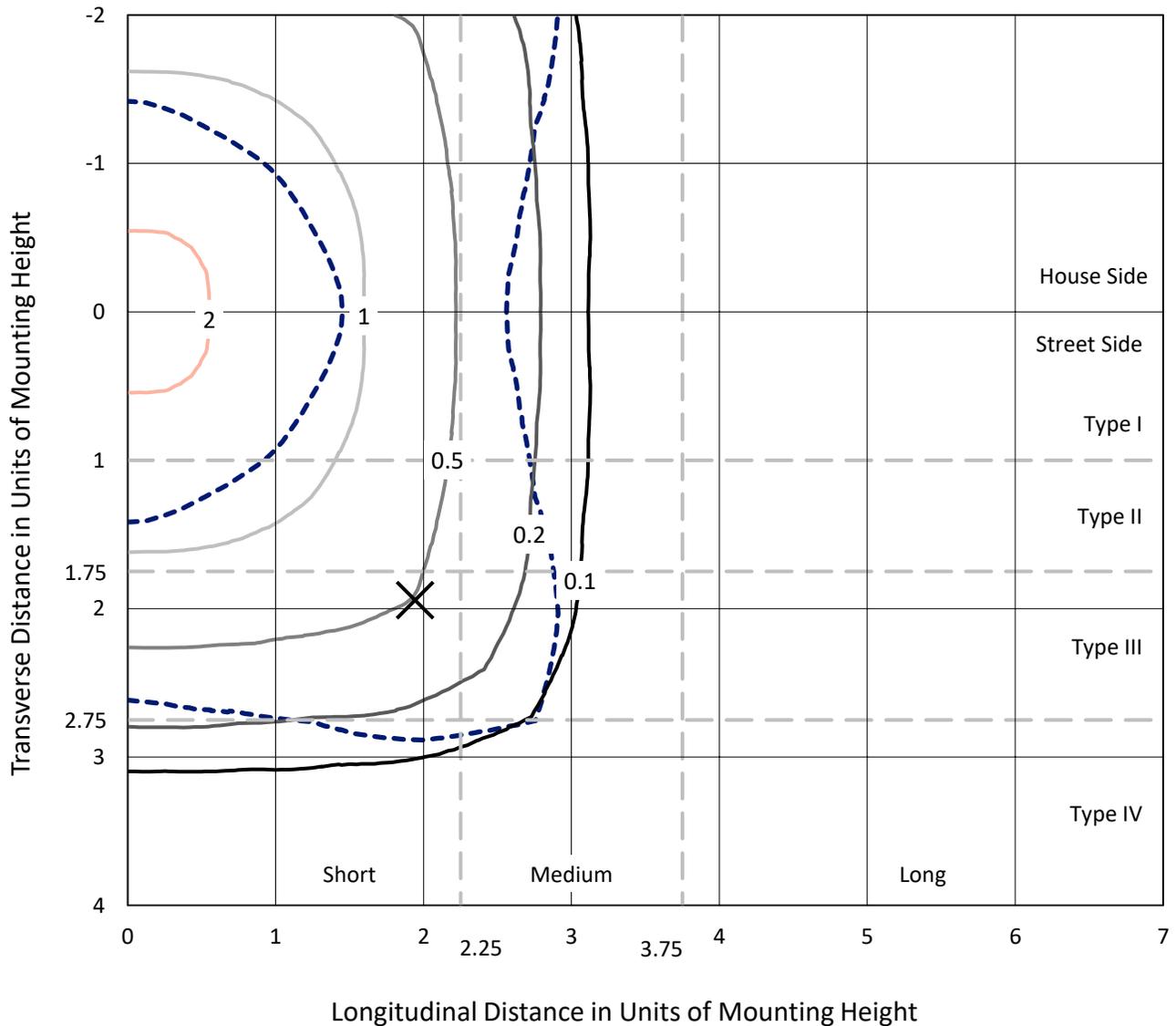
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

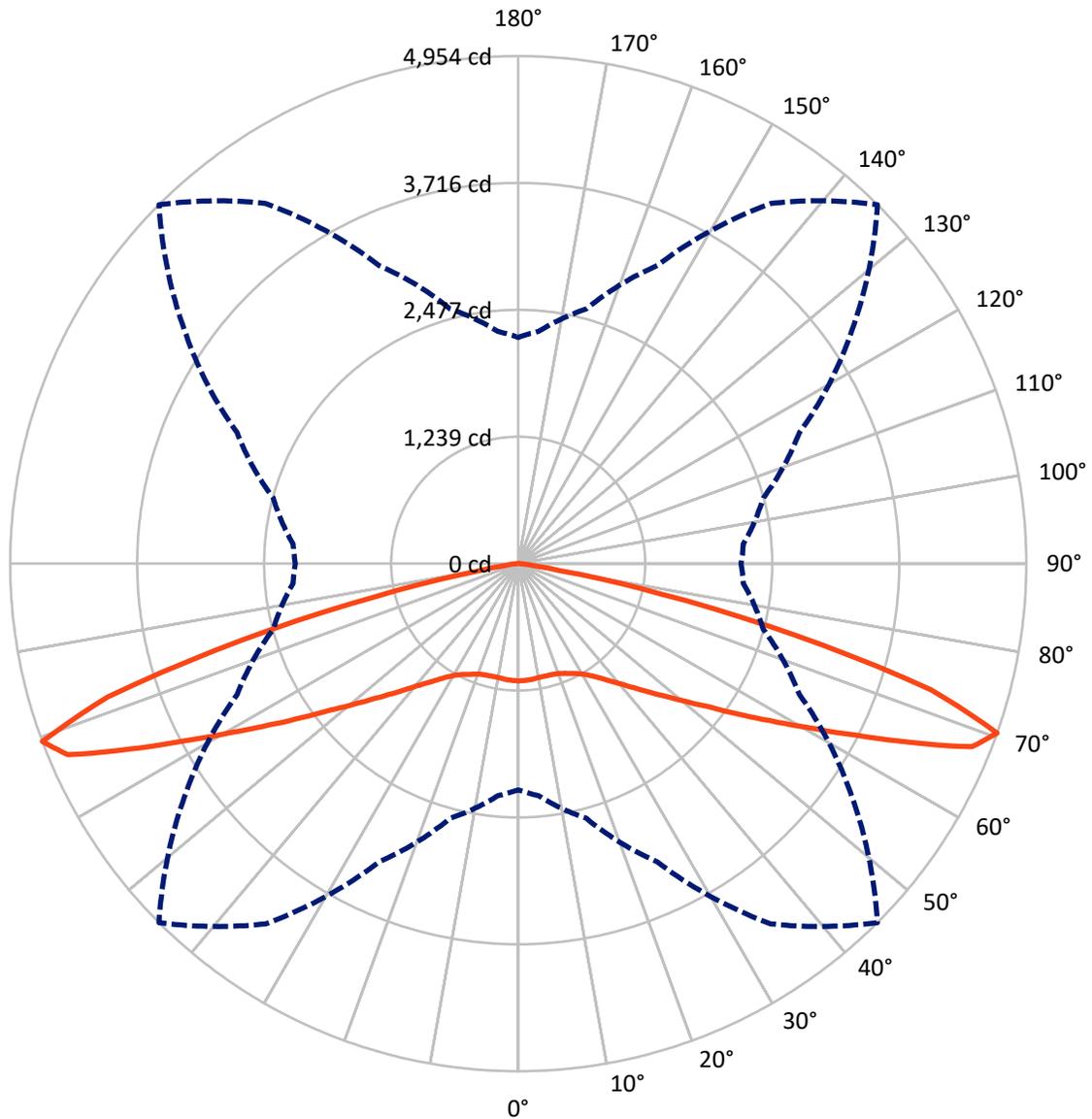
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - N/A

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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
<b>House Side</b>	Lumens	5239.0	0.0	5239.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5239.0	0.0	5239.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10478.0	0.0	10478.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.4	1.0
10°-20°	318.2	3.0
20°-30°	541.7	5.2
30°-40°	859.1	8.2
40°-50°	1397.9	13.3
50°-60°	2305.0	22.0
60°-70°	3383.8	32.3
70°-80°	1496.3	14.3
80°-90°	67.7	0.6
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°	10478.0	100.0
0°-180°	10478.0	100.0



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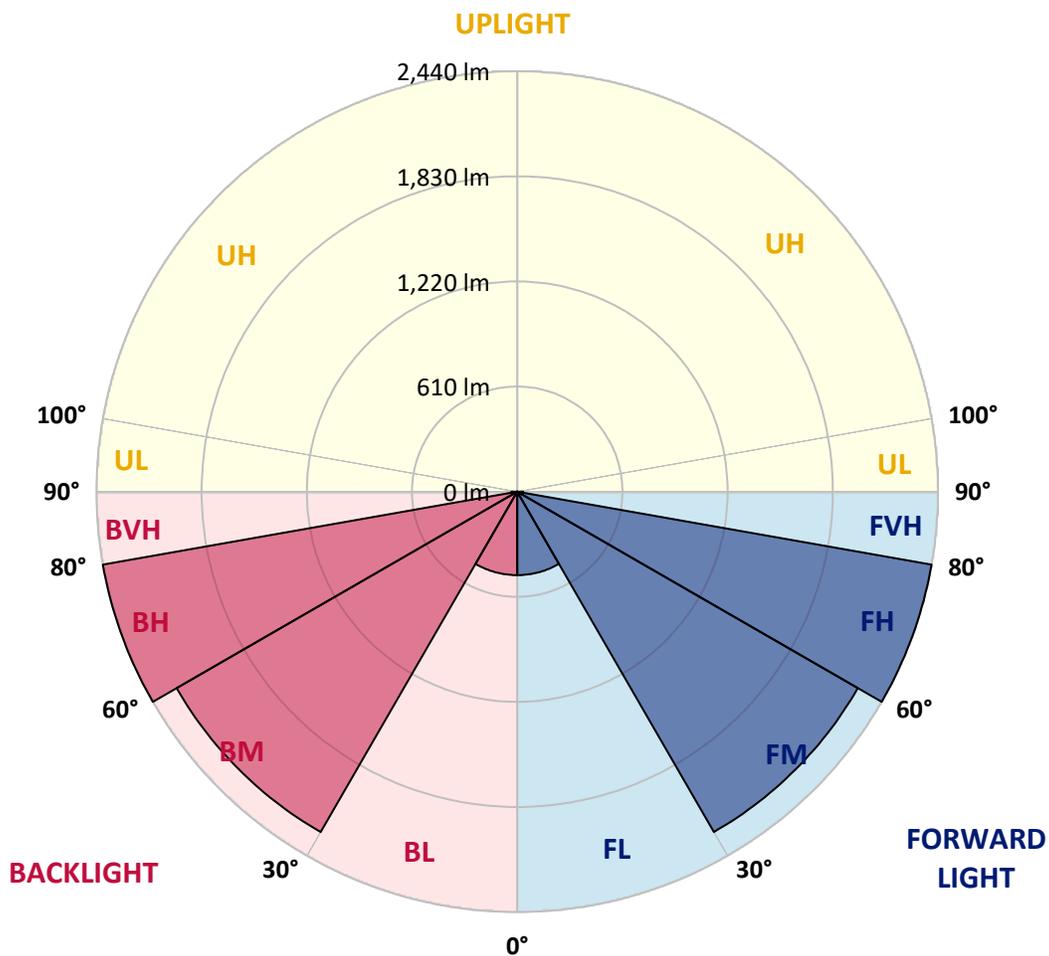
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	484.1	4.6			
FM	(30°-60°)	2281.0	21.8			
FH	(60°-80°)	2440.0	23.3			G2/5000
FVH	(80°-90°)	33.9	0.3			G1/100
BL	(0°-30°)	484.1	4.6	B1/500		
BM	(30°-60°)	2281.0	21.8	B2/2500		
BH	(60°-80°)	2440.0	23.3	B3/2500		G2/5000
BVH	(80°-90°)	33.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1142.6	1141.6	1144.0	1143.7	1141.6	1141.9	1141.9	1143.0	1143.0	1142.3	1142.3
5°	1138.5	1137.8	1140.5	1140.5	1138.5	1139.2	1139.9	1140.9	1140.5	1139.9	1139.5
7.5°	1133.3	1132.9	1135.7	1135.7	1134.3	1135.0	1134.3	1134.7	1134.0	1133.3	1132.2
10°	1124.6	1125.3	1127.7	1128.4	1128.4	1128.8	1128.1	1126.3	1125.3	1124.2	1123.2
12.5°	1116.6	1116.3	1119.7	1121.5	1124.2	1127.4	1125.3	1120.4	1118.4	1116.3	1115.6
15°	1111.4	1111.8	1115.2	1118.4	1123.2	1129.8	1127.4	1119.7	1115.6	1113.2	1112.5
17.5°	1110.4	1111.1	1115.6	1121.1	1126.3	1133.6	1132.2	1124.6	1117.7	1113.2	1112.1
20°	1112.8	1113.2	1120.1	1128.1	1137.1	1144.0	1140.9	1132.6	1123.2	1116.3	1114.5
22.5°	1117.3	1118.7	1127.4	1139.9	1153.7	1163.1	1159.3	1145.1	1130.5	1121.8	1119.4
25°	1131.5	1131.9	1143.7	1160.7	1177.3	1188.1	1183.5	1163.4	1144.7	1135.0	1131.9
27.5°	1161.0	1162.0	1173.8	1193.6	1207.8	1214.8	1212.0	1195.7	1179.7	1169.3	1170.4
30°	1203.7	1205.0	1218.2	1240.1	1248.7	1250.5	1249.8	1242.2	1227.6	1213.7	1214.8
32.5°	1255.7	1256.4	1274.1	1293.8	1300.8	1302.1	1300.8	1293.8	1276.5	1257.8	1258.8
35°	1322.6	1324.7	1341.7	1360.7	1366.3	1369.1	1366.6	1357.6	1339.6	1321.2	1320.5
37.5°	1405.1	1405.5	1423.2	1442.9	1449.9	1450.6	1447.8	1441.9	1419.4	1402.7	1401.7
40°	1500.8	1502.2	1523.0	1544.2	1547.0	1543.8	1547.7	1544.2	1521.0	1501.9	1505.0
42.5°	1617.4	1620.5	1645.5	1666.3	1658.3	1656.5	1659.0	1660.0	1641.3	1618.1	1616.0
45°	1753.0	1755.7	1786.9	1803.6	1798.4	1786.9	1791.8	1800.1	1774.1	1745.3	1748.1
47.5°	1907.6	1914.6	1947.8	1963.4	1950.6	1935.0	1944.4	1956.9	1926.3	1890.6	1888.9
50°	2079.6	2088.3	2132.7	2154.5	2141.7	2112.9	2128.5	2136.8	2092.8	2046.7	2042.9
52.5°	2263.1	2271.7	2327.6	2372.6	2364.3	2319.6	2341.4	2332.8	2282.1	2220.1	2215.2
55°	2470.8	2474.2	2534.6	2607.4	2615.7	2582.8	2581.4	2567.2	2492.3	2420.5	2417.0
57.5°	2684.4	2686.8	2764.8	2850.8	2890.0	2890.0	2851.2	2821.0	2721.5	2638.3	2629.6
60°	2915.0	2923.7	3010.0	3126.9	3218.4	3245.5	3176.8	3094.6	2986.4	2884.8	2874.8
62.5°	3120.3	3130.3	3262.5	3436.5	3583.6	3682.1	3514.2	3380.4	3183.4	3020.4	3001.3
65°	3146.3	3173.3	3365.8	3681.0	4010.1	4206.7	3884.9	3555.1	3196.2	2969.8	2950.4
67.5°	2873.4	2919.2	3179.2	3669.9	4350.0	4772.0	4121.8	3455.3	2966.0	2715.6	2694.1
70°	2207.9	2274.5	2574.5	3210.1	4291.4	4954.0	3973.4	3024.9	2472.9	2203.4	2173.2
72.5°	1211.3	1238.7	1508.5	2198.2	3440.4	4209.9	3314.1	2236.7	1639.9	1334.4	1283.8
75°	384.2	393.9	531.3	899.5	1946.1	2788.4	2105.3	1097.9	604.4	445.6	440.4
77.5°	170.6	171.7	192.1	262.5	670.3	1412.8	805.2	298.9	206.0	180.0	185.9
80°	107.8	107.8	118.9	130.0	182.4	410.2	217.8	142.2	121.4	112.7	115.1
82.5°	51.7	57.2	77.3	83.2	100.2	138.0	111.7	92.9	81.1	60.3	56.2
85°	34.0	28.4	48.9	55.1	58.3	66.2	64.8	61.4	53.1	30.2	33.6
87.5°	15.3	14.6	25.3	23.2	21.8	16.6	25.0	30.9	29.8	14.9	14.9
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)