

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: P1209009

Luminaire Tested: UPW-SA2-090-730-U-5MQ

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-730-U-5MQ  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 3000K, 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: 11410 lumens  
Efficiency: N/A  
Efficacy: 132.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - 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

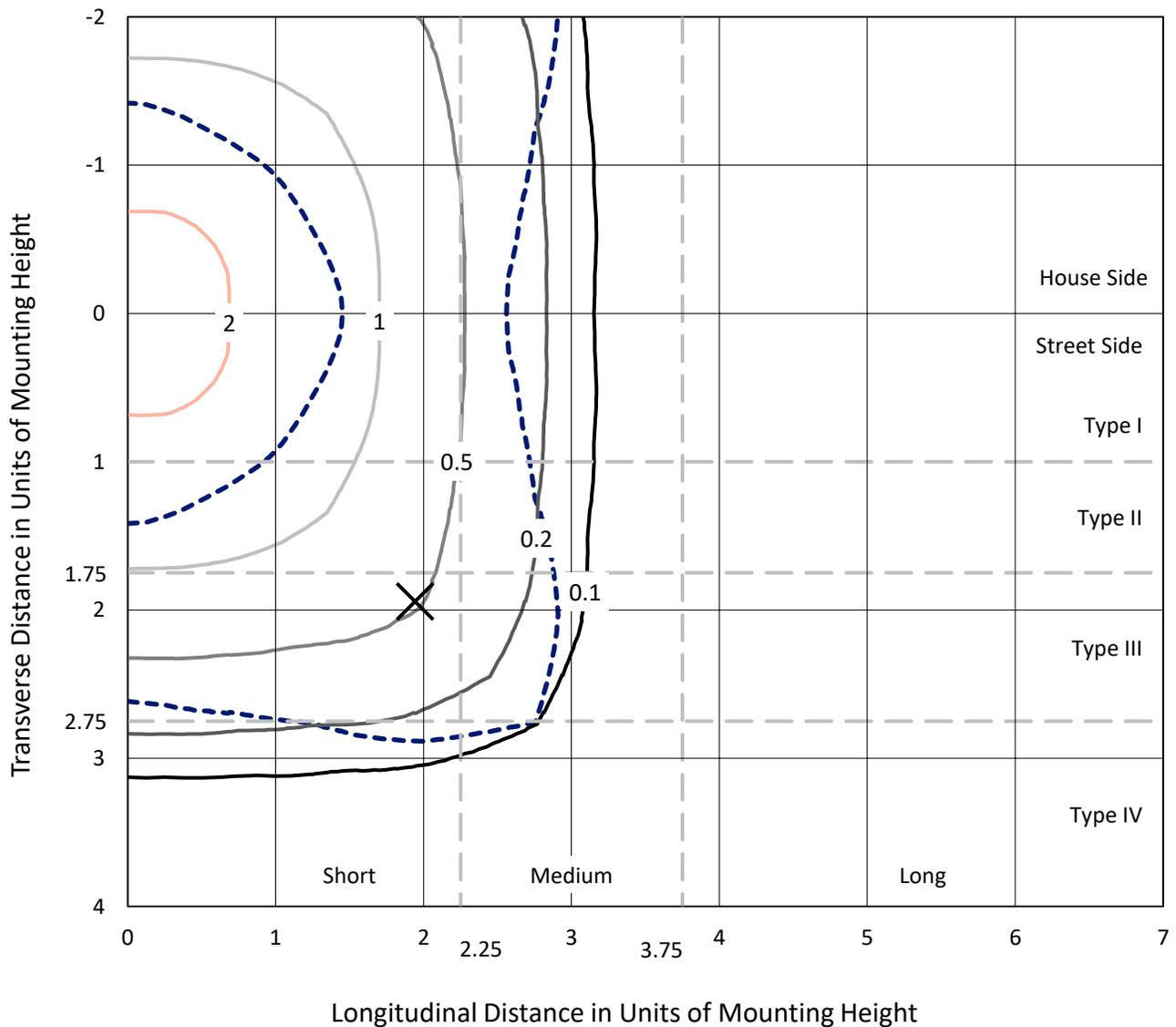


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### Iso-Footcandle Lines of Horizontal Illumination

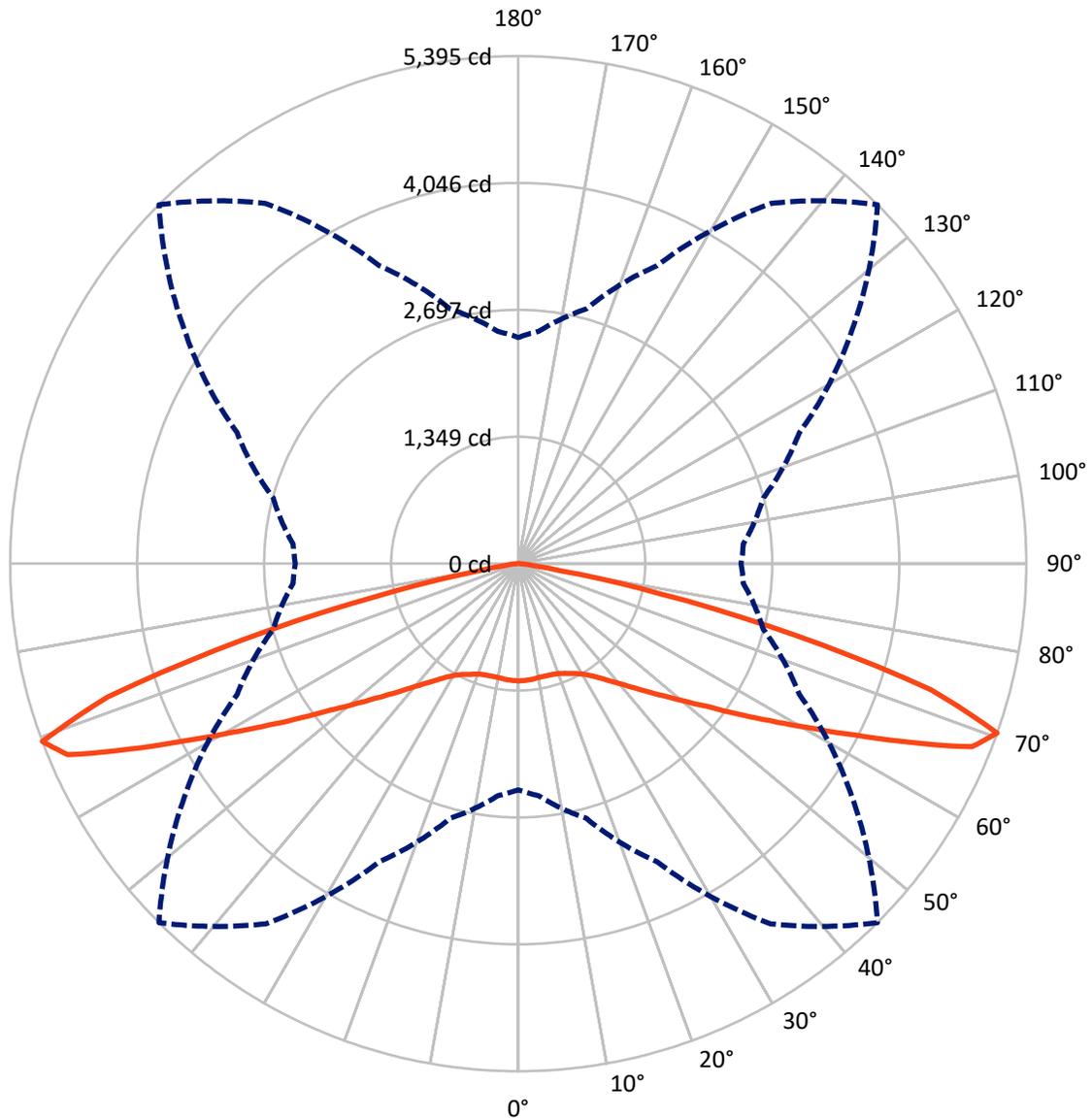
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 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	5705.0	0.0	5705.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5705.0	0.0	5705.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11410.0	0.0	11410.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.0	1.0
10°-20°	346.5	3.0
20°-30°	589.8	5.2
30°-40°	935.5	8.2
40°-50°	1522.3	13.3
50°-60°	2510.0	22.0
60°-70°	3684.7	32.3
70°-80°	1629.4	14.3
80°-90°	73.8	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°	11410.0	100.0
0°-180°	11410.0	100.0



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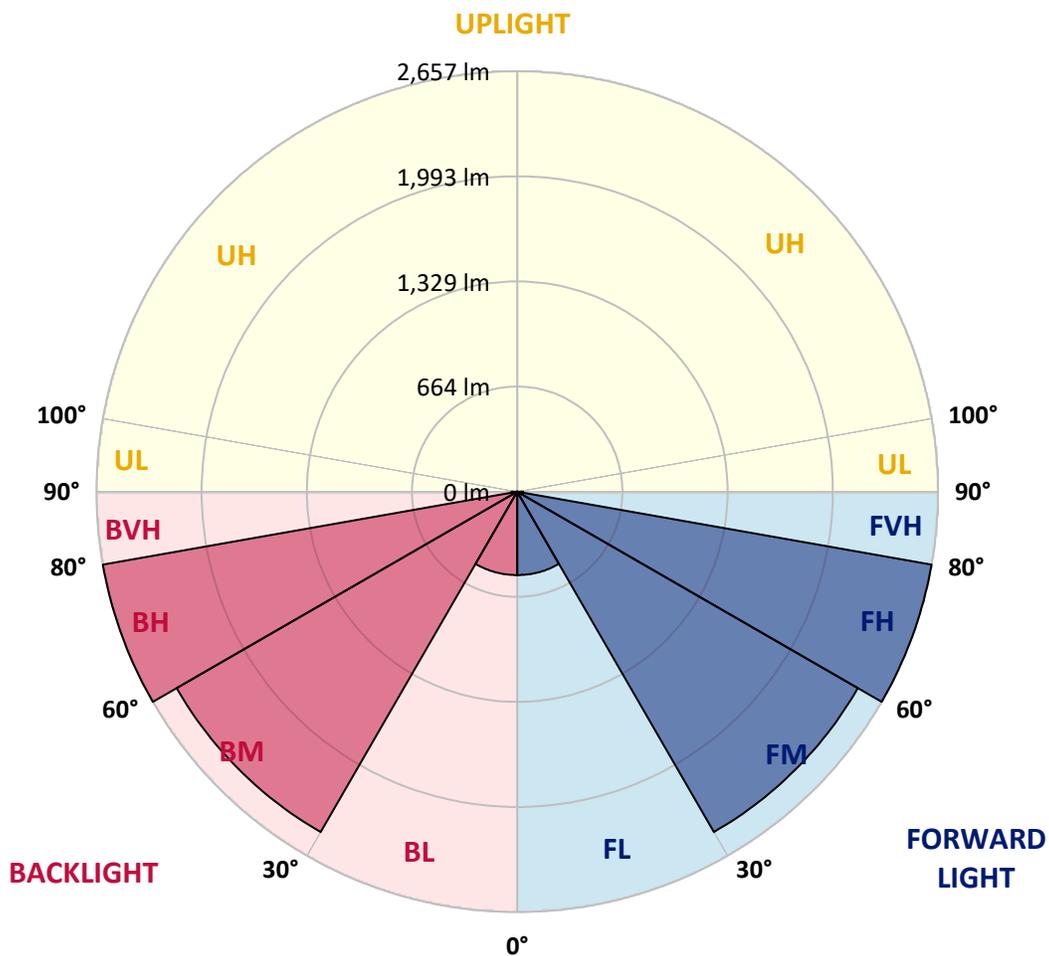
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	527.2	4.6			
FM	(30°-60°)	2483.9	21.8			
FH	(60°-80°)	2657.1	23.3			G2/5000
FVH	(80°-90°)	36.9	0.3			G1/100
BL	(0°-30°)	527.2	4.6	B2/1000		
BM	(30°-60°)	2483.9	21.8	B2/2500		
BH	(60°-80°)	2657.1	23.3	B4/5000		G2/5000
BVH	(80°-90°)	36.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1
2.5°	1244.3	1243.1	1245.8	1245.4	1243.1	1243.5	1243.5	1244.6	1244.6	1243.9	1243.9
5°	1239.7	1239.0	1242.0	1242.0	1239.7	1240.5	1241.2	1242.4	1242.0	1241.2	1240.9
7.5°	1234.1	1233.7	1236.7	1236.7	1235.2	1236.0	1235.2	1235.6	1234.8	1234.1	1232.9
10°	1224.6	1225.4	1228.0	1228.8	1228.8	1229.2	1228.4	1226.5	1225.4	1224.2	1223.1
12.5°	1215.9	1215.6	1219.3	1221.2	1224.2	1227.6	1225.4	1220.1	1217.8	1215.6	1214.8
15°	1210.3	1210.7	1214.4	1217.8	1223.1	1230.3	1227.6	1219.3	1214.8	1212.2	1211.4
17.5°	1209.1	1209.9	1214.8	1220.8	1226.5	1234.4	1232.9	1224.6	1217.1	1212.2	1211.0
20°	1211.8	1212.2	1219.7	1228.4	1238.2	1245.8	1242.4	1233.3	1223.1	1215.6	1213.7
22.5°	1216.7	1218.2	1227.6	1241.2	1256.3	1266.5	1262.4	1246.9	1231.0	1221.6	1219.0
25°	1232.2	1232.6	1245.4	1263.9	1282.0	1293.7	1288.8	1266.9	1246.5	1236.0	1232.6
27.5°	1264.3	1265.4	1278.2	1299.8	1315.3	1322.8	1319.8	1302.0	1284.7	1273.3	1274.5
30°	1310.7	1312.2	1326.6	1350.4	1359.8	1361.7	1360.9	1352.6	1336.8	1321.7	1322.8
32.5°	1367.4	1368.1	1387.4	1408.9	1416.5	1418.0	1416.5	1408.9	1390.0	1369.6	1370.8
35°	1440.2	1442.5	1461.0	1481.8	1487.8	1490.8	1488.2	1478.4	1458.8	1438.7	1438.0
37.5°	1530.1	1530.5	1549.8	1571.3	1578.8	1579.6	1576.6	1570.1	1545.6	1527.5	1526.3
40°	1634.3	1635.9	1658.5	1681.5	1684.6	1681.2	1685.3	1681.5	1656.2	1635.5	1638.9
42.5°	1761.2	1764.6	1791.8	1814.5	1805.8	1803.9	1806.5	1807.7	1787.3	1762.0	1759.7
45°	1908.9	1911.9	1945.9	1964.0	1958.3	1945.9	1951.2	1960.2	1931.9	1900.6	1903.6
47.5°	2077.3	2084.8	2121.1	2138.1	2124.1	2107.1	2117.3	2130.9	2097.7	2058.8	2056.9
50°	2264.6	2274.0	2322.4	2346.2	2332.2	2300.8	2317.8	2326.9	2278.9	2228.7	2224.6
52.5°	2464.4	2473.8	2534.6	2583.7	2574.6	2525.9	2549.7	2540.3	2485.1	2417.5	2412.2
55°	2690.6	2694.3	2760.0	2839.3	2848.4	2812.5	2811.0	2795.5	2714.0	2635.8	2632.0
57.5°	2923.2	2925.8	3010.8	3104.4	3147.1	3147.1	3104.8	3071.9	2963.6	2872.9	2863.5
60°	3174.3	3183.7	3277.8	3405.0	3504.7	3534.2	3459.4	3369.9	3252.1	3141.4	3130.5
62.5°	3397.8	3408.8	3552.7	3742.2	3902.3	4009.6	3826.8	3681.1	3466.6	3289.1	3268.3
65°	3426.2	3455.6	3665.2	4008.4	4366.8	4580.9	4230.5	3871.4	3480.5	3233.9	3212.8
67.5°	3129.0	3178.8	3462.0	3996.4	4736.9	5196.4	4488.4	3762.6	3229.8	2957.2	2933.7
70°	2404.3	2476.8	2803.5	3495.6	4673.1	5394.7	4326.8	3294.0	2692.8	2399.4	2366.6
72.5°	1319.0	1348.9	1642.7	2393.7	3746.4	4584.3	3608.9	2435.7	1785.8	1453.1	1398.0
75°	418.4	429.0	578.5	979.5	2119.2	3036.5	2292.5	1195.5	658.2	485.2	479.6
77.5°	185.8	186.9	209.2	285.9	729.9	1538.4	876.8	325.5	224.3	196.0	202.4
80°	117.4	117.4	129.5	141.6	198.6	446.7	237.1	154.8	132.2	122.7	125.4
82.5°	56.3	62.3	84.2	90.6	109.1	150.3	121.6	101.2	88.4	65.7	61.2
85°	37.0	31.0	53.2	60.0	63.4	72.1	70.6	66.8	57.8	32.9	36.6
87.5°	16.6	15.9	27.6	25.3	23.8	18.1	27.2	33.6	32.5	16.2	16.2
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)