

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: P1209065

Luminaire Tested: UPW-SA2-090-740-U-5WQ

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-740-U-5WQ  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12563 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

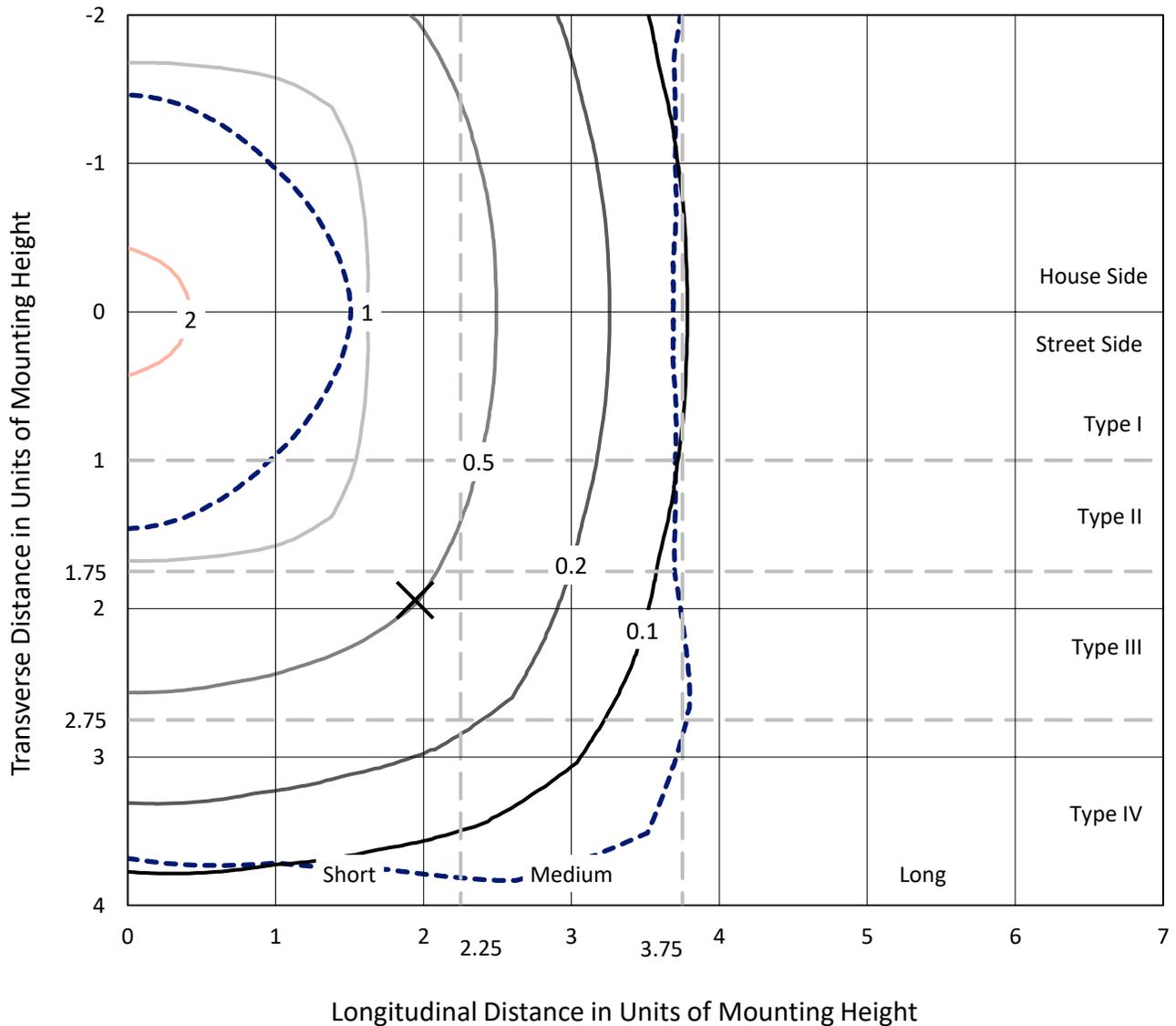
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

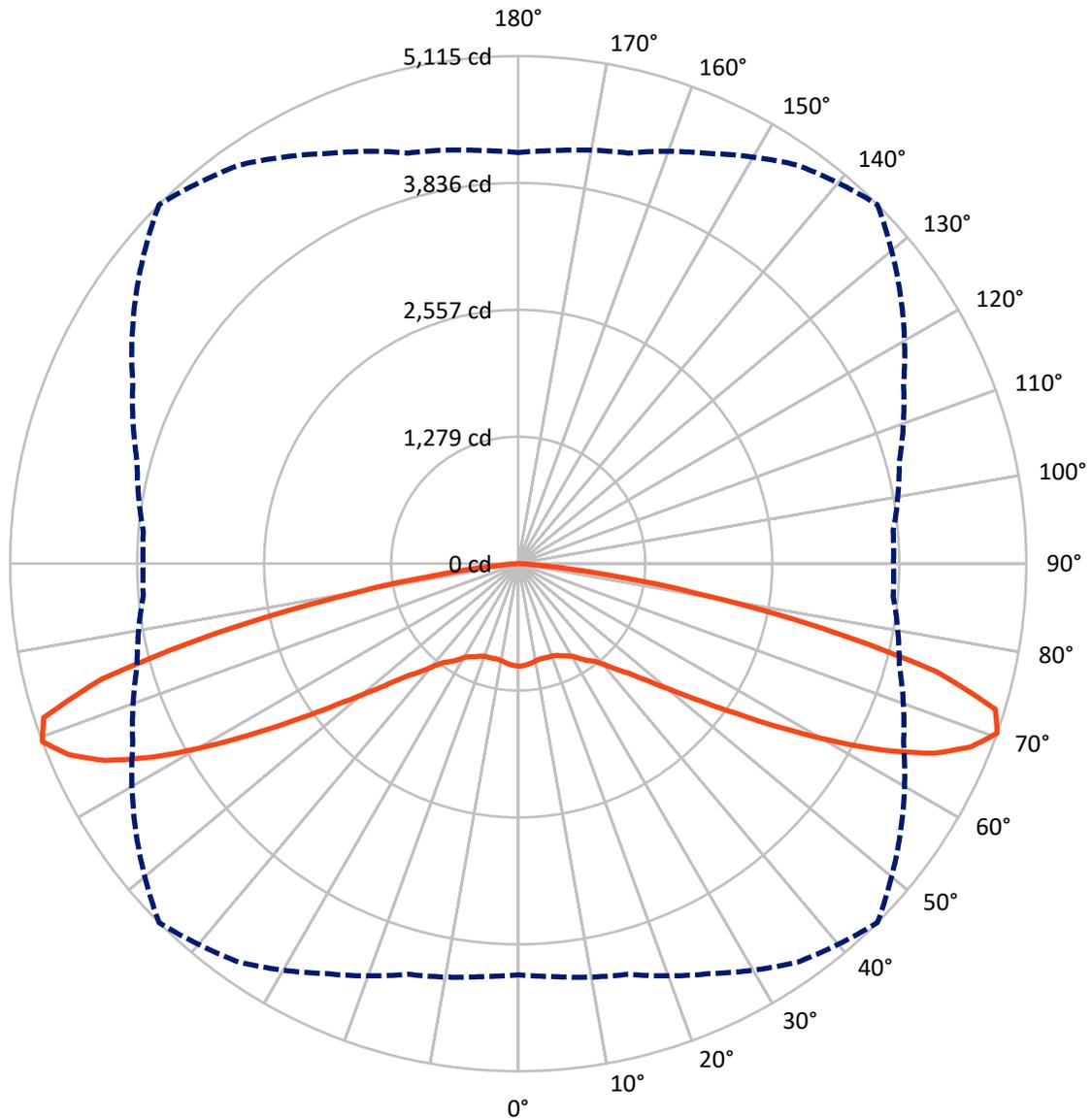
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 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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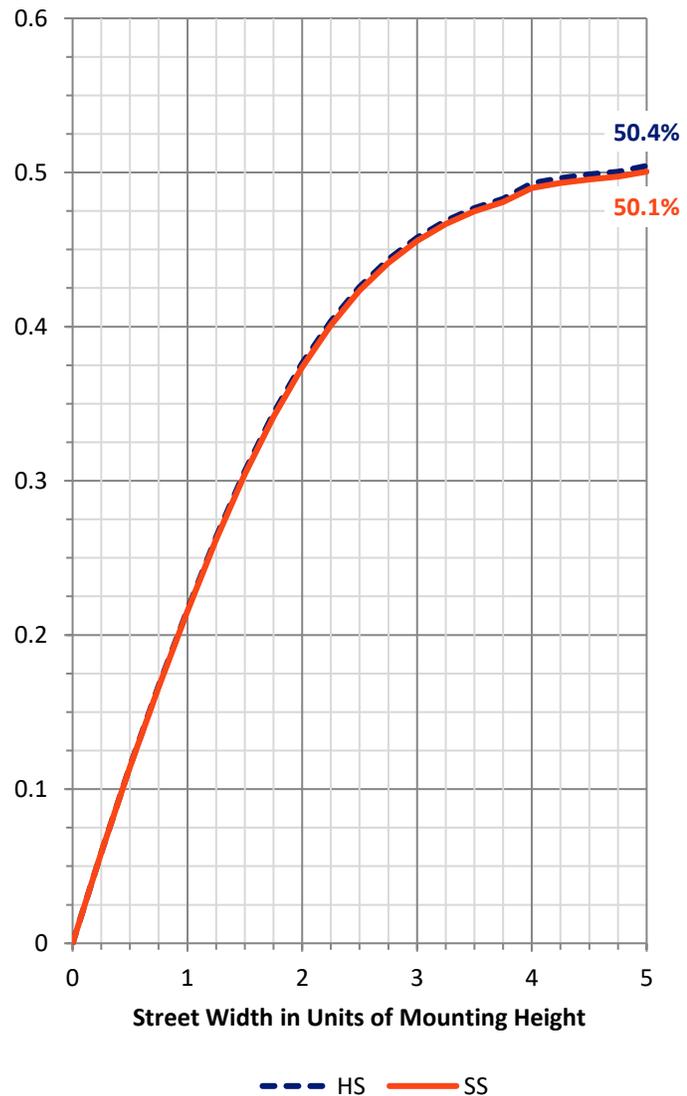
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6281.5	0.0	6281.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6281.5	0.0	6281.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12563.0	0.0	12563.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	0.8
10°-20°	281.9	2.2
20°-30°	480.6	3.8
30°-40°	751.0	6.0
40°-50°	1272.7	10.1
50°-60°	2320.8	18.5
60°-70°	3995.5	31.8
70°-80°	3131.8	24.9
80°-90°	232.2	1.8
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°	12563.0	100.0
0°-180°	12563.0	100.0



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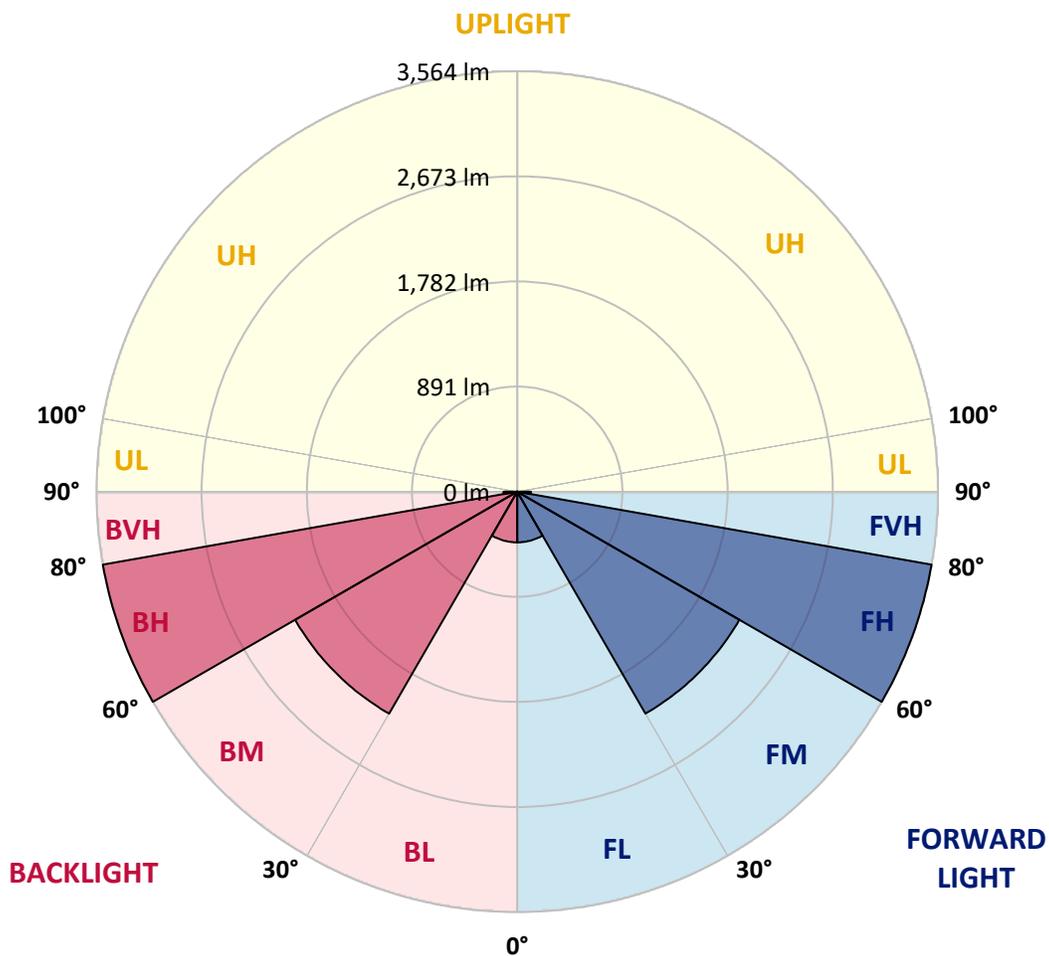
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.5	3.4			
FM (30°-60°)	2172.2	17.3			
FH (60°-80°)	3563.7	28.4			G2/5000
FVH (80°-90°)	116.1	0.9			G2/225
BL (0°-30°)	429.5	3.4	B1/500		
BM (30°-60°)	2172.2	17.3	B2/2500		
BH (60°-80°)	3563.7	28.4	B4/5000		G2/5000
BVH (80°-90°)	116.1	0.9			G2/225
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°	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9
2.5°	1029.4	1030.6	1029.4	1030.2	1028.1	1028.9	1028.9	1028.9	1028.5	1028.9	1028.1
5°	1020.2	1021.1	1019.4	1020.2	1019.0	1020.2	1020.6	1020.2	1019.4	1019.8	1018.1
7.5°	1006.5	1007.3	1006.1	1007.3	1005.7	1007.8	1007.3	1006.1	1004.8	1004.8	1003.2
10°	999.0	999.4	996.1	994.9	991.1	992.0	993.2	994.5	995.7	998.2	997.8
12.5°	999.4	999.4	994.5	989.1	983.7	984.9	987.0	991.5	996.5	1001.1	1001.5
15°	1003.6	1003.2	995.7	987.0	983.2	987.0	988.2	991.1	999.0	1006.9	1007.3
17.5°	1006.5	1006.5	994.9	984.9	984.5	990.3	989.9	991.1	999.9	1011.5	1011.9
20°	1011.9	1011.9	997.0	986.1	986.1	992.4	992.8	994.9	1003.6	1016.5	1018.6
22.5°	1024.0	1024.4	1008.6	999.9	1000.7	1004.4	1005.7	1009.0	1016.9	1031.0	1033.5
25°	1041.0	1041.8	1025.6	1020.6	1023.5	1030.6	1029.8	1032.3	1041.0	1054.7	1057.2
27.5°	1064.7	1062.6	1047.7	1045.6	1048.5	1053.5	1053.1	1053.5	1060.5	1073.0	1075.9
30°	1095.4	1094.6	1083.8	1085.1	1083.8	1082.1	1082.6	1085.9	1089.6	1099.6	1102.5
32.5°	1125.4	1126.2	1119.5	1125.8	1134.9	1141.2	1131.6	1122.5	1118.3	1123.7	1126.2
35°	1179.4	1181.5	1171.1	1166.9	1179.4	1197.7	1170.7	1155.7	1164.0	1171.1	1173.2
37.5°	1271.2	1272.5	1255.0	1238.4	1229.3	1246.7	1219.7	1220.9	1250.0	1263.3	1262.9
40°	1376.0	1376.4	1364.7	1350.2	1334.4	1338.5	1327.7	1331.1	1350.2	1362.2	1365.6
42.5°	1500.6	1499.4	1481.1	1460.3	1455.7	1459.9	1441.6	1439.1	1461.1	1482.8	1483.2
45°	1662.3	1659.4	1635.7	1612.8	1590.8	1581.7	1577.1	1589.1	1619.5	1639.4	1639.8
47.5°	1836.4	1828.5	1816.0	1797.8	1778.6	1769.5	1762.0	1767.8	1789.9	1797.8	1798.6
50°	2015.5	2017.2	2019.7	2012.6	2005.5	2002.6	1983.1	1971.9	1978.5	1964.0	1961.9
52.5°	2227.9	2231.2	2255.3	2275.7	2287.7	2293.9	2257.0	2218.3	2196.7	2168.4	2160.1
55°	2478.5	2483.9	2519.2	2575.7	2633.9	2664.6	2597.7	2525.4	2458.5	2405.7	2388.7
57.5°	2757.7	2767.3	2815.9	2924.4	3043.6	3116.4	3003.3	2872.0	2742.8	2666.7	2653.4
60°	3085.2	3094.3	3161.7	3317.1	3510.3	3619.6	3448.4	3233.5	3072.7	3000.0	2975.5
62.5°	3475.0	3475.8	3558.5	3740.1	3995.3	4147.4	3915.5	3628.3	3462.5	3374.8	3351.2
65°	3894.3	3896.4	3982.0	4178.1	4442.0	4607.4	4345.6	4046.4	3843.6	3714.4	3696.1
67.5°	4190.6	4199.3	4289.5	4525.6	4772.4	4921.6	4650.6	4312.4	4078.0	3923.8	3908.4
70°	4143.2	4177.3	4283.3	4558.8	4902.1	5114.8	4700.1	4280.8	3971.6	3789.6	3776.7
72.5°	3613.4	3678.6	3819.9	4181.5	4730.4	5023.4	4430.4	3834.0	3484.1	3329.1	3305.9
75°	2460.6	2566.6	2779.7	3301.3	4041.4	4349.3	3729.7	3056.9	2727.8	2513.4	2497.6
77.5°	1097.1	1121.2	1391.3	1991.8	2788.9	3123.4	2709.9	1999.7	1501.0	1197.3	1133.3
80°	305.9	309.6	413.1	741.8	1395.9	1835.2	1498.5	779.2	438.0	308.8	290.9
82.5°	97.2	105.6	128.8	192.4	469.2	837.4	481.6	207.8	147.9	118.0	106.4
85°	47.4	47.0	65.2	78.1	119.7	185.3	127.6	96.4	84.4	56.1	50.7
87.5°	19.9	20.4	30.3	27.4	34.9	29.9	41.1	43.2	45.3	24.9	21.6
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)