

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: P1209227

Luminaire Tested: UPW-SA2-110-727-U-5WQ

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-727-U-5WQ
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13004 lumens
Efficiency: N/A
Efficacy: 115.1 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): 113
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

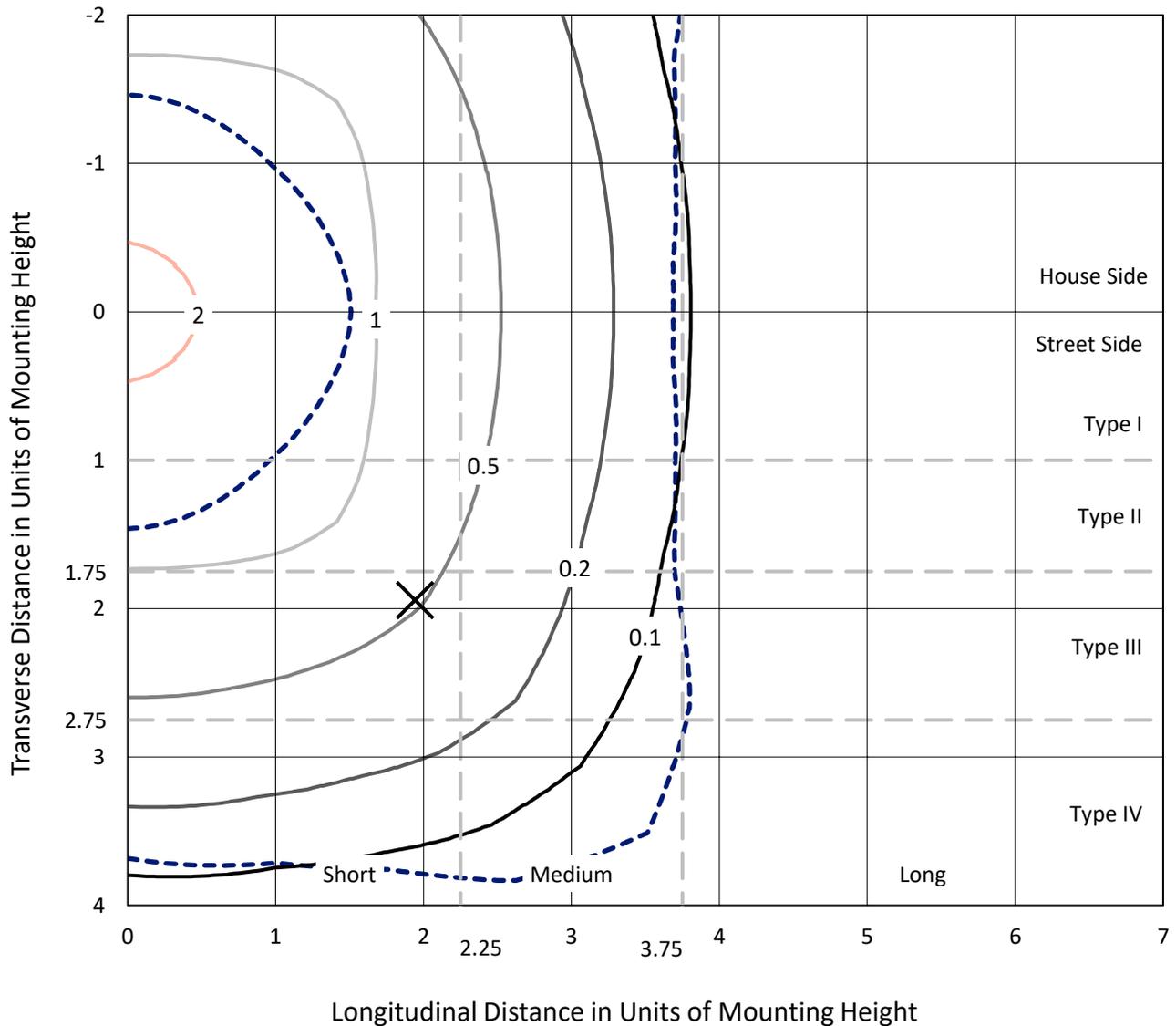


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Iso-Footcandle Lines of Horizontal Illumination

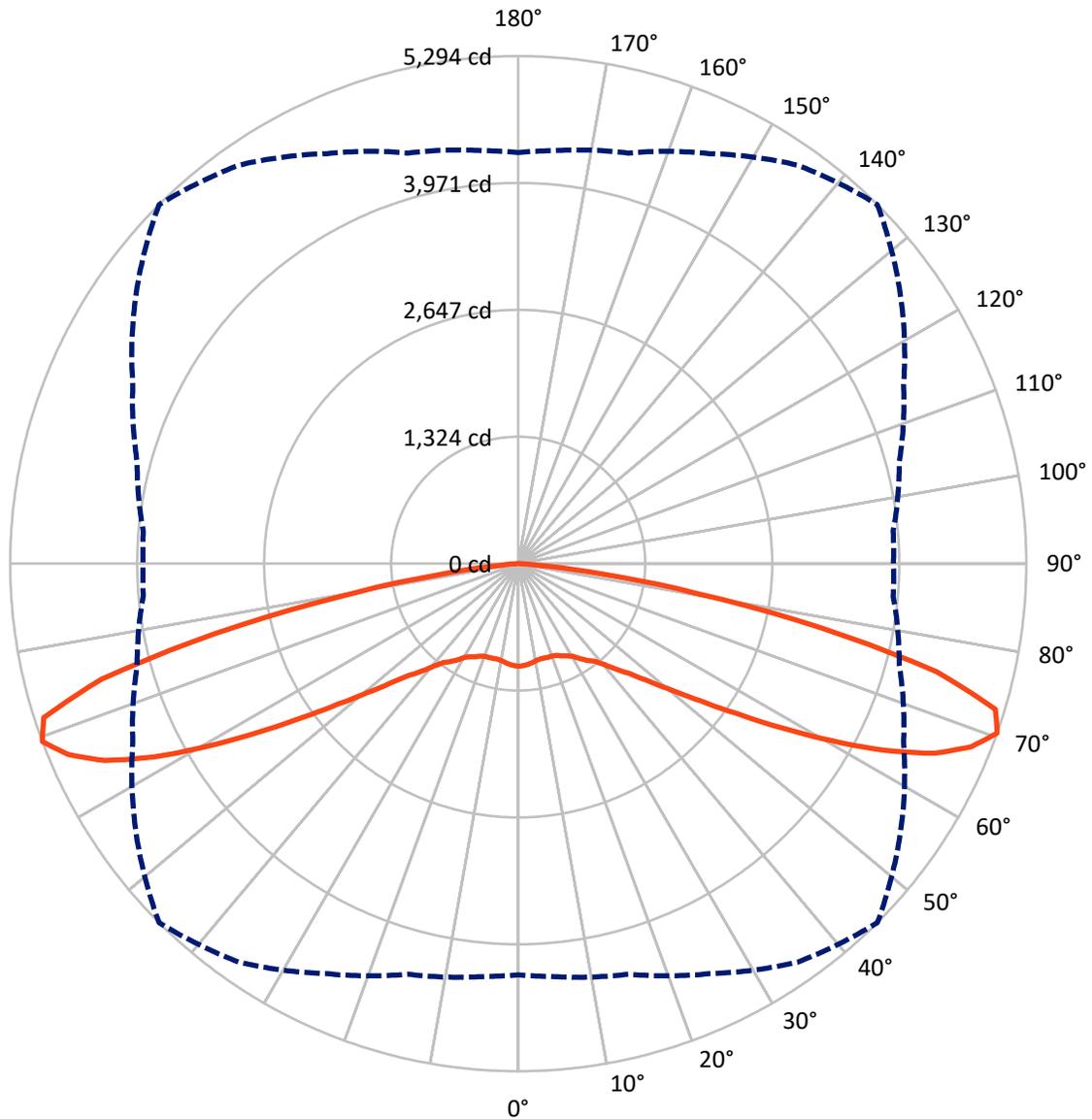
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.7 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
House Side	Lumens	6502.0	0.0	6502.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6502.0	0.0	6502.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13004.0	0.0	13004.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	0.8
10°-20°	291.8	2.2
20°-30°	497.5	3.8
30°-40°	777.3	6.0
40°-50°	1317.4	10.1
50°-60°	2402.3	18.5
60°-70°	4135.7	31.8
70°-80°	3241.8	24.9
80°-90°	240.4	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°	13004.0	100.0
0°-180°	13004.0	100.0



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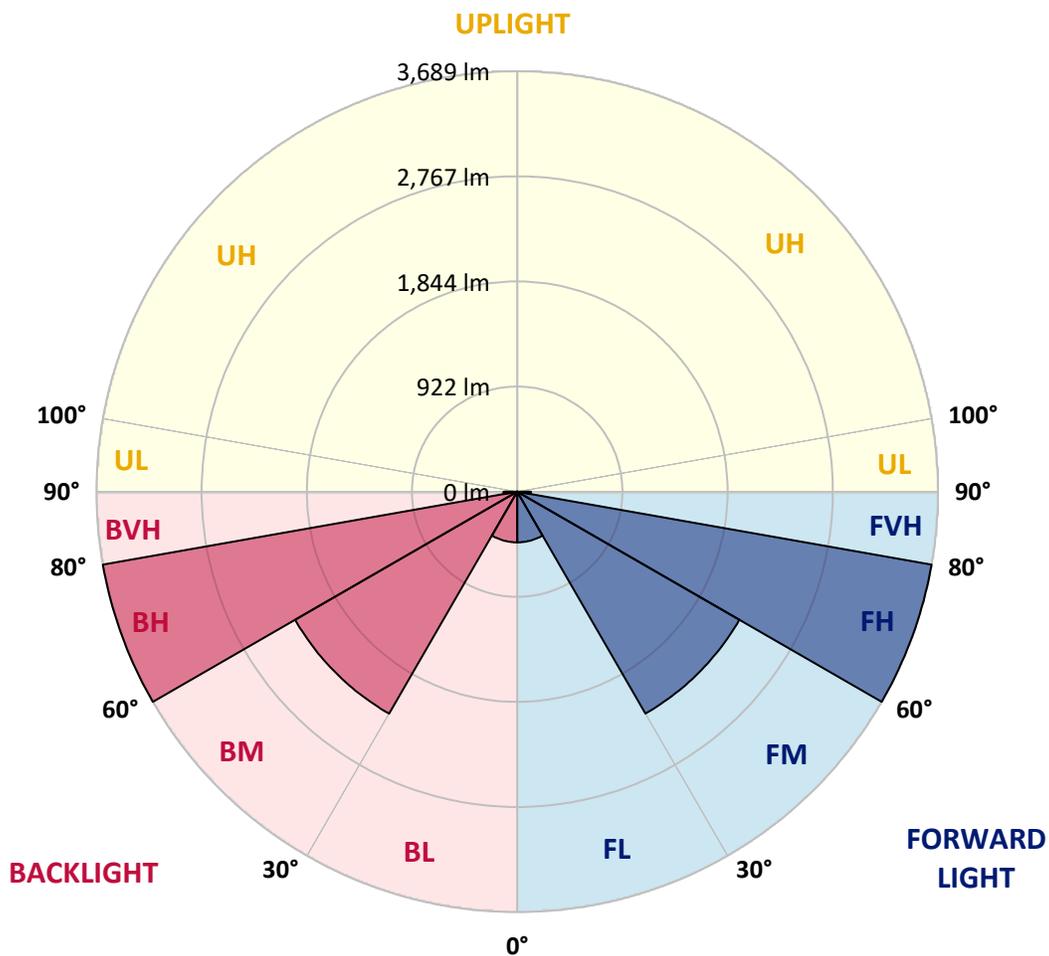
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.6	3.4			
FM	(30°-60°)	2248.5	17.3			
FH	(60°-80°)	3688.7	28.4			G2/5000
FVH	(80°-90°)	120.2	0.9			G2/225
BL	(0°-30°)	444.6	3.4	B1/500		
BM	(30°-60°)	2248.5	17.3	B2/2500		
BH	(60°-80°)	3688.7	28.4	B4/5000		G2/5000
BVH	(80°-90°)	120.2	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°	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2	1070.2
2.5°	1065.5	1066.8	1065.5	1066.4	1064.2	1065.1	1065.1	1065.1	1064.6	1065.1	1064.2
5°	1056.0	1056.9	1055.2	1056.0	1054.7	1056.0	1056.5	1056.0	1055.2	1055.6	1053.9
7.5°	1041.8	1042.7	1041.4	1042.7	1041.0	1043.1	1042.7	1041.4	1040.1	1040.1	1038.4
10°	1034.1	1034.5	1031.1	1029.8	1025.9	1026.8	1028.1	1029.4	1030.7	1033.2	1032.8
12.5°	1034.5	1034.5	1029.4	1023.8	1018.2	1019.5	1021.6	1026.4	1031.5	1036.2	1036.7
15°	1038.8	1038.4	1030.7	1021.6	1017.8	1021.6	1022.9	1025.9	1034.1	1042.3	1042.7
17.5°	1041.8	1041.8	1029.8	1019.5	1019.0	1025.1	1024.6	1025.9	1035.0	1047.0	1047.4
20°	1047.4	1047.4	1031.9	1020.8	1020.8	1027.2	1027.6	1029.8	1038.8	1052.2	1054.3
22.5°	1059.9	1060.3	1044.0	1035.0	1035.8	1039.7	1041.0	1044.4	1052.6	1067.2	1069.8
25°	1077.5	1078.4	1061.6	1056.5	1059.5	1066.8	1065.9	1068.5	1077.5	1091.7	1094.3
27.5°	1102.1	1099.9	1084.4	1082.3	1085.3	1090.4	1090.0	1090.4	1097.8	1110.7	1113.7
30°	1133.9	1133.0	1121.8	1123.1	1121.8	1120.1	1120.6	1124.0	1127.9	1138.2	1141.2
32.5°	1164.9	1165.7	1158.8	1165.3	1174.8	1181.2	1171.3	1161.9	1157.6	1163.1	1165.7
35°	1220.8	1222.9	1212.2	1207.9	1220.8	1239.7	1211.8	1196.3	1204.9	1212.2	1214.3
37.5°	1315.9	1317.1	1299.1	1281.9	1272.4	1290.5	1262.5	1263.8	1293.9	1307.7	1307.2
40°	1424.3	1424.7	1412.6	1397.6	1381.2	1385.5	1374.4	1377.8	1397.6	1410.1	1413.5
42.5°	1553.3	1552.0	1533.1	1511.6	1506.8	1511.1	1492.2	1489.6	1512.4	1534.8	1535.2
45°	1720.6	1717.6	1693.1	1669.4	1646.6	1637.2	1632.4	1644.9	1676.3	1697.0	1697.4
47.5°	1900.9	1892.7	1879.8	1860.9	1841.1	1831.6	1823.9	1829.9	1852.7	1860.9	1861.7
50°	2086.3	2088.0	2090.6	2083.3	2075.9	2072.9	2052.7	2041.1	2048.0	2032.9	2030.8
52.5°	2306.1	2309.5	2334.5	2355.5	2368.0	2374.5	2336.2	2296.2	2273.8	2244.6	2236.0
55°	2565.5	2571.0	2607.6	2666.1	2726.3	2758.2	2688.9	2614.1	2544.8	2490.2	2472.5
57.5°	2854.5	2864.4	2914.7	3027.0	3150.5	3225.7	3108.7	2972.8	2839.0	2760.3	2746.6
60°	3193.5	3203.0	3272.6	3433.5	3633.5	3746.7	3569.4	3347.1	3180.6	3105.3	3079.9
62.5°	3597.0	3597.8	3683.4	3871.4	4135.5	4293.0	4052.9	3755.7	3584.1	3493.3	3468.8
65°	4031.0	4033.2	4121.8	4324.8	4597.9	4769.2	4498.2	4188.4	3978.5	3844.7	3825.8
67.5°	4337.7	4346.7	4440.1	4684.4	4939.9	5094.4	4813.9	4463.7	4221.1	4061.5	4045.6
70°	4288.7	4323.9	4433.6	4718.8	5074.1	5294.4	4865.1	4431.0	4111.0	3922.6	3909.3
72.5°	3740.2	3807.8	3954.0	4328.2	4896.5	5199.7	4585.9	3968.6	3606.4	3446.0	3421.9
75°	2547.0	2656.7	2877.3	3417.2	4183.3	4502.0	3860.7	3164.2	2823.6	2601.6	2585.2
77.5°	1135.6	1160.6	1440.2	2061.7	2886.8	3233.1	2805.1	2069.9	1553.7	1239.3	1173.0
80°	316.6	320.5	427.6	767.8	1444.9	1899.6	1551.1	806.5	453.4	319.6	301.1
82.5°	100.7	109.3	133.3	199.2	485.6	866.8	498.6	215.1	153.1	122.2	110.1
85°	49.0	48.6	67.5	80.9	123.9	191.9	132.1	99.8	87.3	58.1	52.5
87.5°	20.6	21.1	31.4	28.4	36.1	31.0	42.6	44.7	46.9	25.8	22.4
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)