

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: P1209387

Luminaire Tested: UPW-SA2-110-827-U-5MQ

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-827-U-5MQ
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11400 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

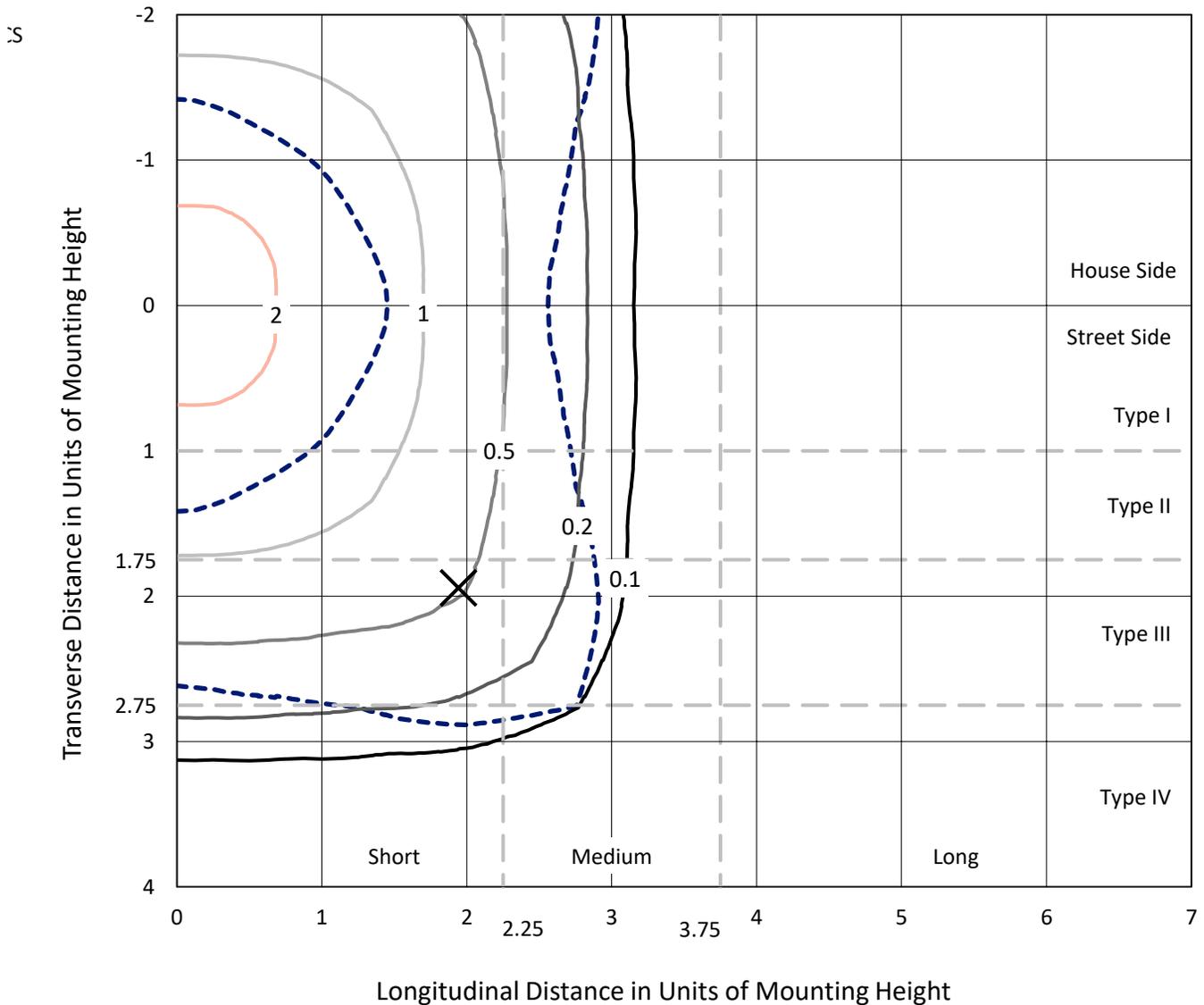
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

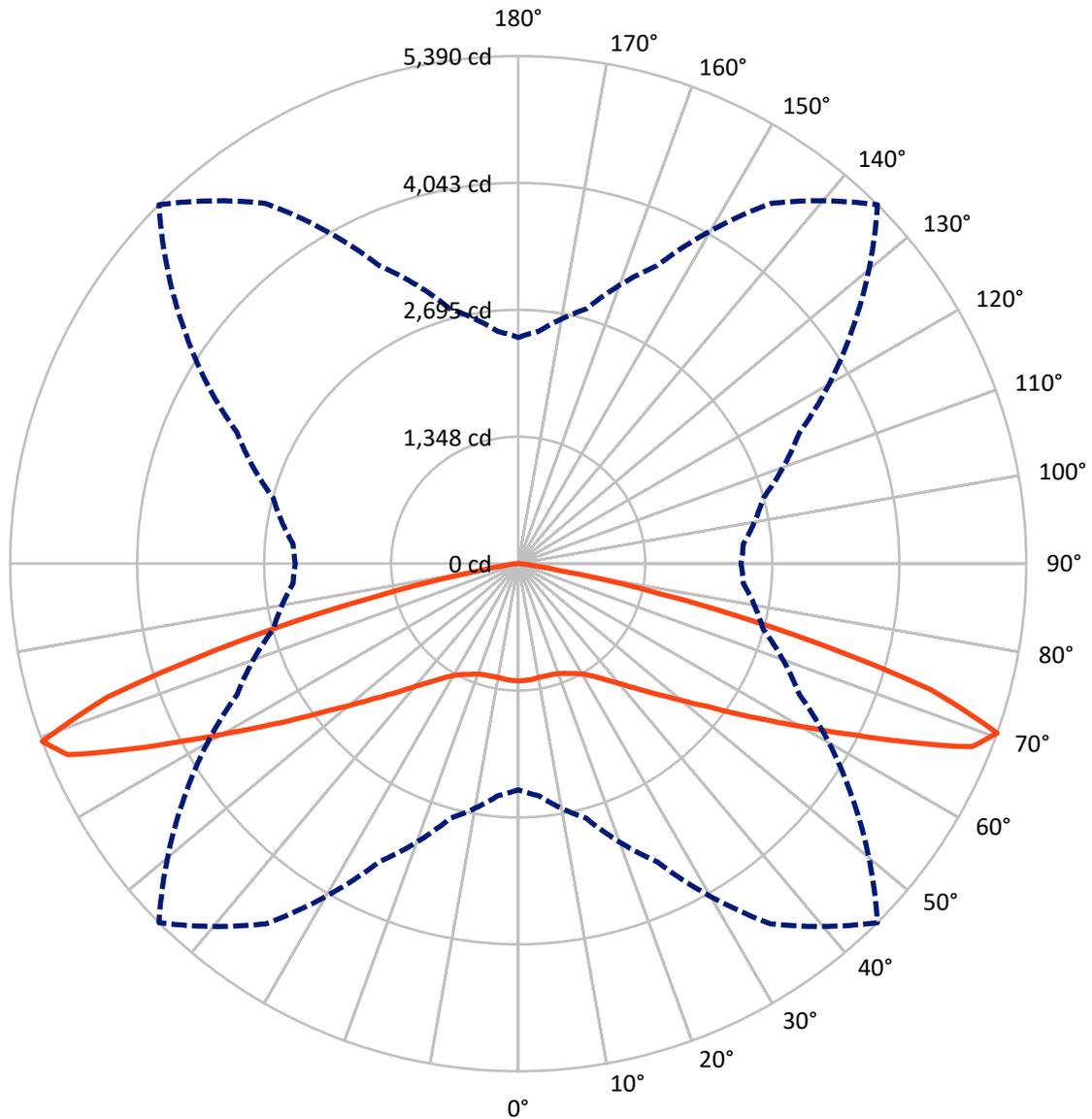
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	5700.0	0.0	5700.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5700.0	0.0	5700.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11400.0	0.0	11400.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	1.0
10°-20°	346.2	3.0
20°-30°	589.3	5.2
30°-40°	934.6	8.2
40°-50°	1521.0	13.3
50°-60°	2507.8	22.0
60°-70°	3681.5	32.3
70°-80°	1628.0	14.3
80°-90°	73.7	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°	11400.0	100.0
0°-180°	11400.0	100.0



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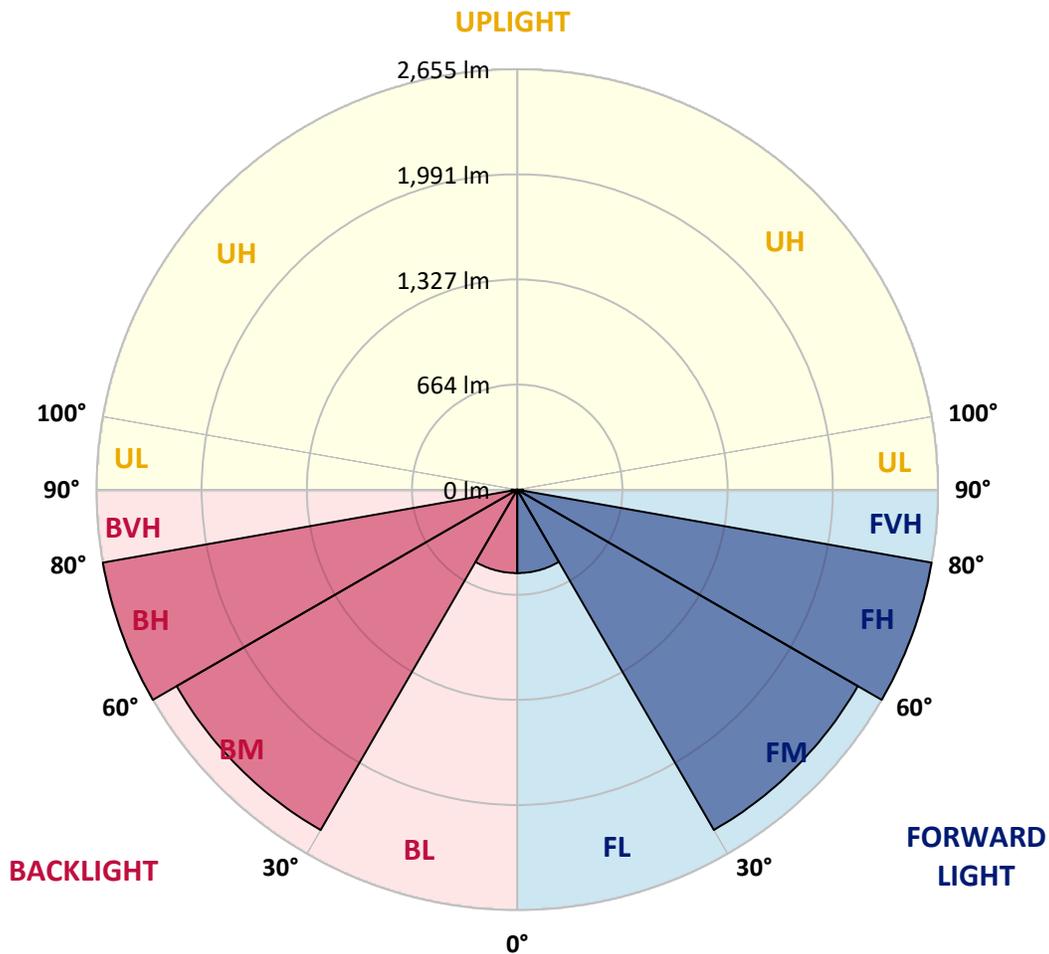
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	526.7	4.6			
FM	(30°-60°)	2481.7	21.8			
FH	(60°-80°)	2654.7	23.3			G2/5000
FVH	(80°-90°)	36.9	0.3			G1/100
BL	(0°-30°)	526.7	4.6	B2/1000		
BM	(30°-60°)	2481.7	21.8	B2/2500		
BH	(60°-80°)	2654.7	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°	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1
2.5°	1243.2	1242.0	1244.7	1244.3	1242.0	1242.4	1242.4	1243.5	1243.5	1242.8	1242.8
5°	1238.6	1237.9	1240.9	1240.9	1238.6	1239.4	1240.2	1241.3	1240.9	1240.2	1239.8
7.5°	1233.0	1232.6	1235.6	1235.6	1234.1	1234.9	1234.1	1234.5	1233.7	1233.0	1231.9
10°	1223.6	1224.3	1226.9	1227.7	1227.7	1228.1	1227.3	1225.4	1224.3	1223.2	1222.0
12.5°	1214.9	1214.5	1218.3	1220.2	1223.2	1226.6	1224.3	1219.0	1216.8	1214.5	1213.7
15°	1209.2	1209.6	1213.4	1216.8	1222.0	1229.2	1226.6	1218.3	1213.7	1211.1	1210.3
17.5°	1208.1	1208.8	1213.7	1219.8	1225.4	1233.4	1231.9	1223.6	1216.0	1211.1	1210.0
20°	1210.7	1211.1	1218.6	1227.3	1237.1	1244.7	1241.3	1232.2	1222.0	1214.5	1212.6
22.5°	1215.6	1217.1	1226.6	1240.2	1255.2	1265.4	1261.3	1245.8	1230.0	1220.5	1217.9
25°	1231.1	1231.5	1244.3	1262.8	1280.9	1292.6	1287.7	1265.8	1245.4	1234.9	1231.5
27.5°	1263.2	1264.3	1277.1	1298.6	1314.1	1321.6	1318.6	1300.9	1283.5	1272.2	1273.4
30°	1309.6	1311.1	1325.4	1349.2	1358.6	1360.5	1359.8	1351.5	1335.6	1320.5	1321.6
32.5°	1366.2	1366.9	1386.2	1407.7	1415.2	1416.7	1415.2	1407.7	1388.8	1368.4	1369.6
35°	1439.0	1441.2	1459.7	1480.5	1486.5	1489.5	1486.9	1477.1	1457.5	1437.5	1436.7
37.5°	1528.8	1529.2	1548.4	1569.9	1577.5	1578.2	1575.2	1568.8	1544.2	1526.1	1525.0
40°	1632.9	1634.4	1657.1	1680.1	1683.1	1679.7	1683.8	1680.1	1654.8	1634.0	1637.4
42.5°	1759.7	1763.1	1790.2	1812.9	1804.2	1802.3	1805.0	1806.1	1785.7	1760.4	1758.2
45°	1907.2	1910.2	1944.2	1962.3	1956.6	1944.2	1949.5	1958.5	1930.2	1898.9	1901.9
47.5°	2075.5	2083.0	2119.2	2136.2	2122.3	2105.3	2115.5	2129.0	2095.8	2057.0	2055.1
50°	2262.6	2272.0	2320.3	2344.1	2330.1	2298.8	2315.8	2324.9	2276.9	2226.8	2222.6
52.5°	2462.2	2471.6	2532.4	2581.4	2572.4	2523.7	2547.5	2538.0	2482.9	2415.4	2410.1
55°	2688.2	2692.0	2757.6	2836.8	2845.9	2810.1	2808.5	2793.1	2711.6	2633.5	2629.7
57.5°	2920.6	2923.2	3008.1	3101.7	3144.3	3144.3	3102.1	3069.3	2961.0	2870.4	2861.0
60°	3171.5	3180.9	3274.9	3402.0	3501.6	3531.1	3456.4	3366.9	3249.2	3138.7	3127.7
62.5°	3394.9	3405.8	3549.5	3738.9	3898.9	4006.1	3823.5	3677.8	3463.5	3286.2	3265.4
65°	3423.2	3452.6	3662.0	4004.9	4363.0	4576.9	4226.8	3868.0	3477.5	3231.1	3210.0
67.5°	3126.2	3176.0	3459.0	3992.9	4732.7	5191.9	4484.5	3759.3	3227.0	2954.6	2931.2
70°	2402.2	2474.6	2801.0	3492.6	4669.0	5390.0	4323.0	3291.1	2690.5	2397.3	2364.5
72.5°	1317.9	1347.7	1641.2	2391.6	3743.1	4580.3	3605.8	2433.5	1784.2	1451.8	1396.7
75°	418.0	428.6	578.0	978.7	2117.4	3033.8	2290.5	1194.5	657.6	484.8	479.2
77.5°	185.6	186.8	209.0	285.6	729.3	1537.1	876.1	325.2	224.1	195.8	202.2
80°	117.3	117.3	129.4	141.5	198.5	446.3	236.9	154.7	132.1	122.6	125.3
82.5°	56.2	62.3	84.1	90.5	109.0	150.2	121.5	101.1	88.3	65.6	61.1
85°	37.0	30.9	53.2	60.0	63.4	72.1	70.6	66.8	57.7	32.8	36.6
87.5°	16.6	15.8	27.5	25.3	23.8	18.1	27.2	33.6	32.4	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)