

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: P1209104

Luminaire Tested: UPW-SA2-090-750-U-T1

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-750-U-T1  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11980 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

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

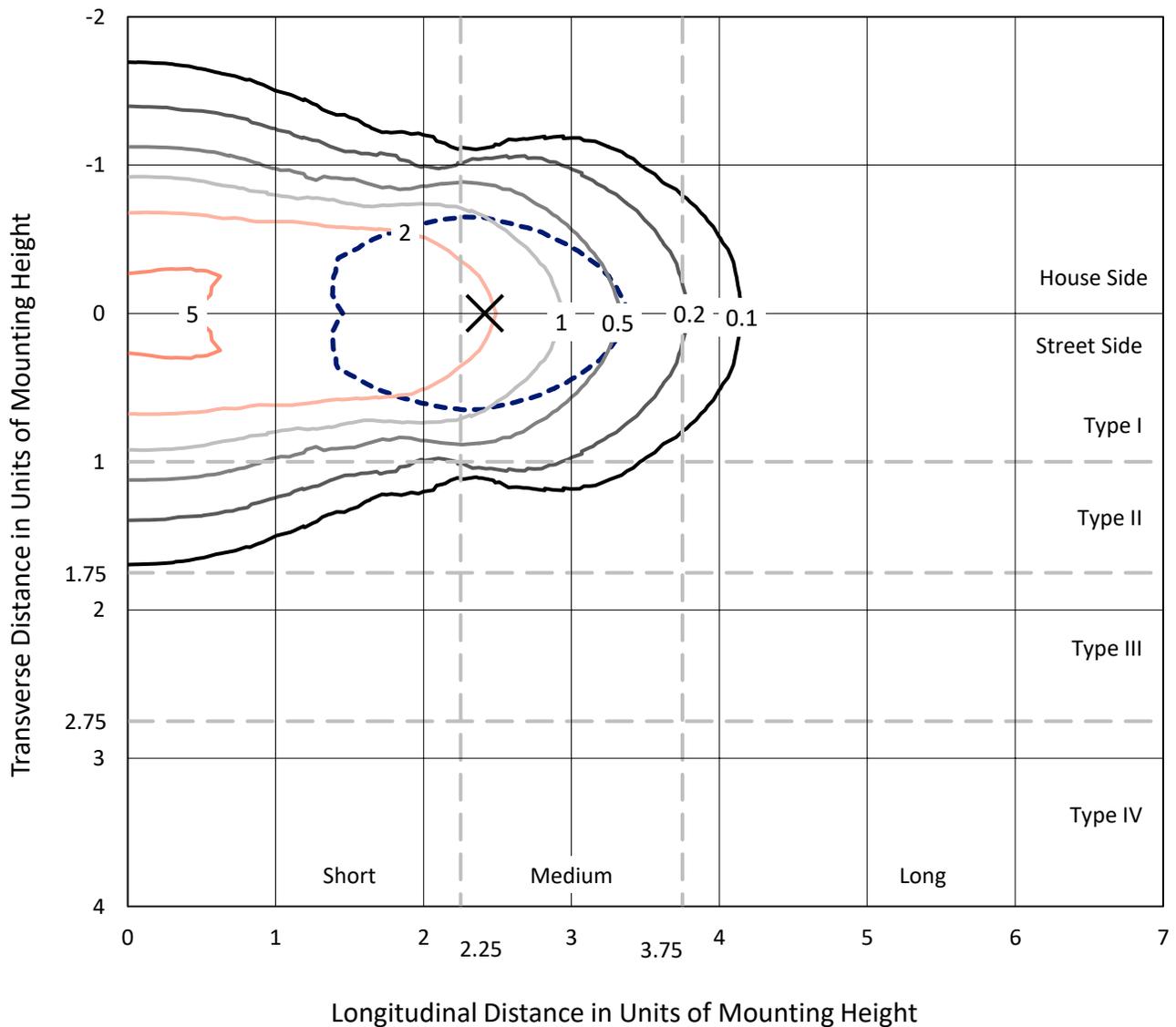


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

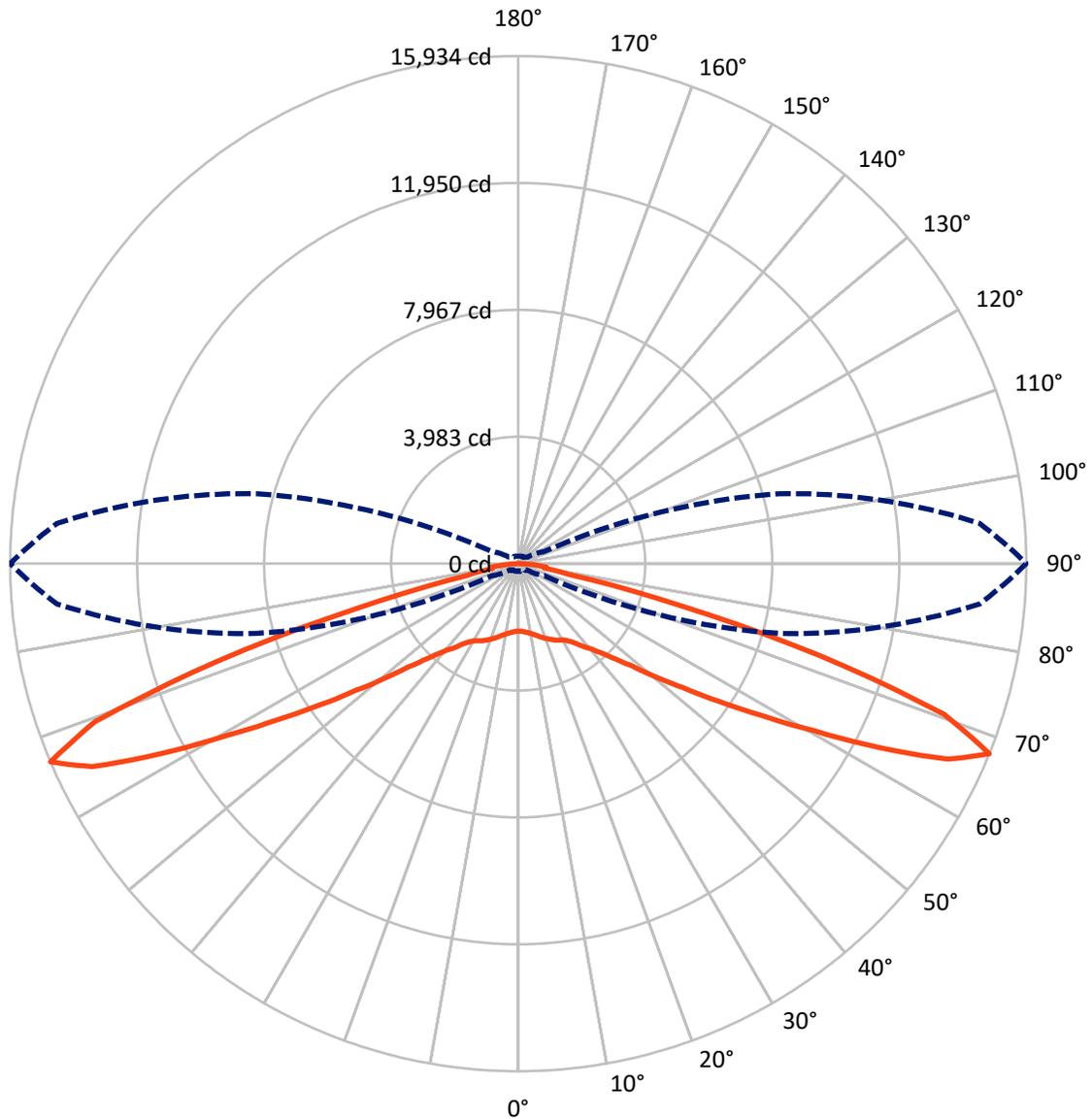


Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5990.0	0.0	5990.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5990.0	0.0	5990.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11980.0	0.0	11980.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.4	1.8
10°-20°	676.5	5.6
20°-30°	1132.3	9.5
30°-40°	1534.0	12.8
40°-50°	1943.1	16.2
50°-60°	2427.4	20.3
60°-70°	2853.3	23.8
70°-80°	1091.5	9.1
80°-90°	110.6	0.9
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°	11980.0	100.0
0°-180°	11980.0	100.0



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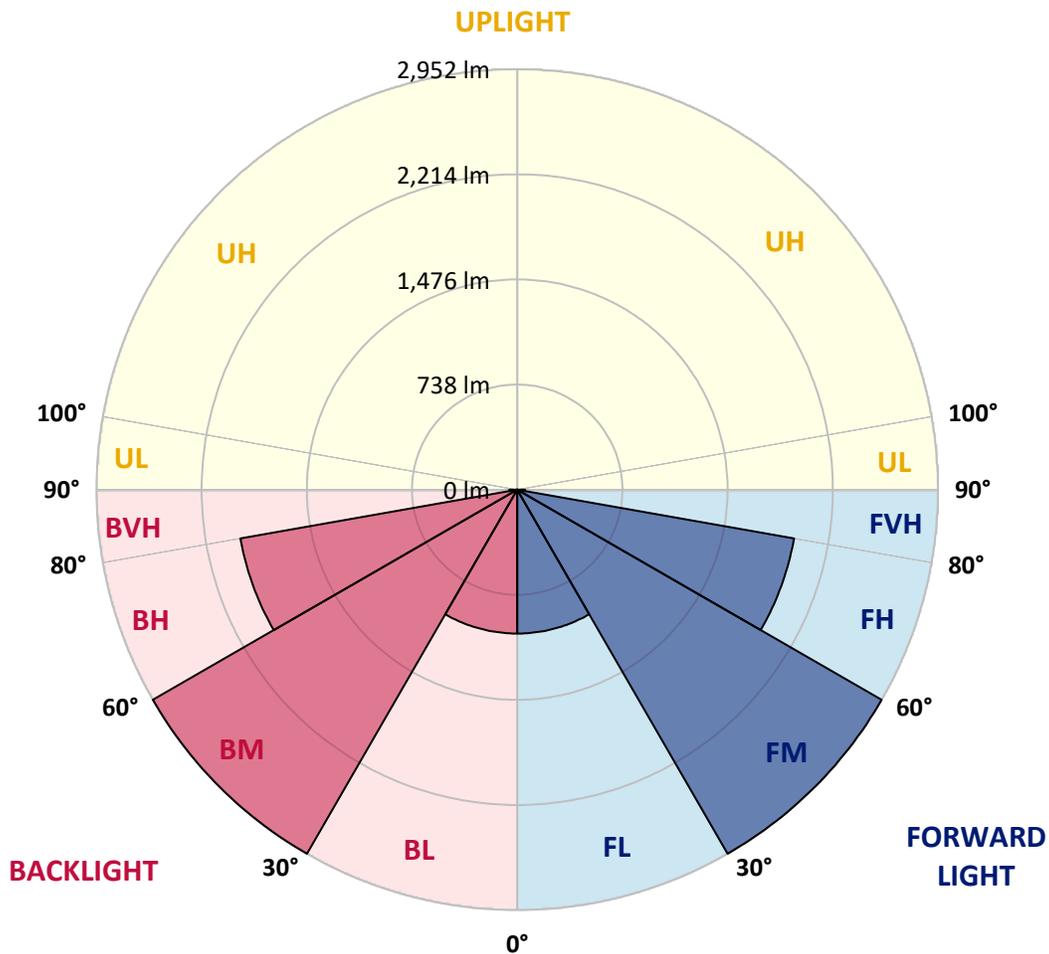
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1010.1	8.4			
FM	(30°-60°)	2952.2	24.6			
FH	(60°-80°)	1972.4	16.5			G2/5000
FVH	(80°-90°)	55.3	0.5			G1/100
BL	(0°-30°)	1010.1	8.4	B3/2500		
BM	(30°-60°)	2952.2	24.6	B3/5000		
BH	(60°-80°)	1972.4	16.5	B3/2500		G3/2500
BVH	(80°-90°)	55.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2120.8	2120.8	2120.8	2120.8	2120.8	2120.8	2120.8	2120.8	2120.8	2120.8	2120.8
2.5°	2148.0	2146.7	2147.4	2146.7	2148.7	2147.4	2139.4	2132.8	2127.5	2128.1	2126.1
5°	2193.8	2194.5	2195.1	2191.8	2196.5	2193.8	2181.2	2170.6	2160.0	2156.0	2154.7
7.5°	2231.6	2234.9	2236.9	2240.2	2248.2	2248.2	2241.6	2226.3	2203.1	2189.8	2189.2
10°	2269.4	2272.1	2278.1	2288.7	2301.9	2314.5	2311.9	2291.3	2261.5	2238.9	2233.6
12.5°	2282.7	2286.0	2305.9	2336.4	2366.3	2390.8	2390.8	2374.2	2335.8	2301.3	2291.3
15°	2236.3	2242.2	2278.1	2343.1	2421.3	2475.1	2487.0	2463.8	2422.7	2369.6	2357.7
17.5°	2144.1	2158.6	2211.1	2307.2	2437.3	2548.7	2583.2	2571.9	2518.9	2451.2	2437.3
20°	2045.2	2061.1	2116.9	2244.2	2424.0	2591.8	2692.0	2694.7	2629.0	2530.8	2510.2
22.5°	1936.4	1948.4	2020.0	2169.3	2384.2	2601.8	2785.5	2831.3	2742.4	2610.4	2581.2
25°	1814.4	1827.6	1902.6	2063.8	2309.2	2590.5	2871.1	2972.0	2861.2	2695.3	2658.2
27.5°	1697.6	1702.9	1783.2	1947.0	2210.4	2561.3	2934.1	3101.3	2992.5	2765.6	2718.5
30°	1585.5	1598.1	1669.1	1830.9	2097.0	2504.3	2988.5	3248.6	3133.8	2839.3	2778.9
32.5°	1466.7	1482.0	1558.9	1722.8	1983.5	2418.7	3021.7	3409.8	3330.8	2958.7	2894.3
35°	1352.6	1362.6	1440.2	1599.4	1872.7	2319.2	3027.7	3591.6	3584.9	3139.8	3054.2
37.5°	1235.9	1250.5	1328.8	1481.3	1755.3	2213.7	2997.8	3784.6	3891.4	3391.2	3299.0
40°	1123.8	1136.4	1213.3	1367.2	1622.0	2085.0	2926.8	3961.1	4249.0	3649.9	3519.2
42.5°	1001.7	1005.0	1089.3	1245.8	1491.3	1935.7	2824.7	4118.3	4647.7	3996.9	3834.3
45°	863.1	871.7	950.0	1103.9	1341.4	1768.6	2686.0	4248.3	5153.2	4477.8	4256.3
47.5°	724.4	731.7	803.4	955.3	1177.5	1576.9	2472.4	4362.4	5671.9	5088.8	4798.2
50°	589.1	593.1	651.4	786.1	993.1	1375.2	2207.7	4398.9	6258.3	5953.9	5583.0
52.5°	465.7	471.7	516.1	621.6	796.1	1137.0	1921.8	4308.7	6943.0	6979.4	6456.7
55°	377.5	379.5	412.6	490.2	622.3	887.6	1576.9	4057.2	7679.3	8293.6	7626.9
57.5°	325.1	326.4	345.0	388.1	479.0	669.4	1223.3	3581.6	8340.7	9833.3	8976.2
60°	295.2	295.9	306.5	331.7	379.5	513.5	876.3	2910.3	8993.5	11546.8	10653.3
62.5°	276.6	276.6	283.9	297.9	321.1	394.0	634.9	2099.6	9440.6	13285.6	12720.4
65°	258.7	258.7	264.0	274.0	286.6	322.4	469.0	1369.2	9429.3	14552.0	14799.4
67.5°	238.2	238.2	242.1	252.1	259.4	277.3	362.2	896.9	8470.1	14524.1	15933.8
70°	213.6	213.6	218.9	227.5	233.5	244.8	285.9	613.6	6222.5	12401.3	14170.5
72.5°	189.1	189.7	193.0	201.7	206.3	212.9	237.5	429.9	3817.1	8444.2	9908.3
75°	161.9	163.2	166.5	175.1	179.1	181.8	200.3	306.5	1931.1	4552.8	5183.7
77.5°	130.7	133.3	135.3	144.6	147.3	151.3	165.2	221.6	847.8	1635.9	1650.5
80°	95.5	98.8	104.8	113.4	115.4	118.1	126.0	157.2	384.1	747.0	811.3
82.5°	70.3	75.0	67.7	78.9	78.9	75.6	88.9	105.5	176.5	739.7	885.0
85°	38.5	39.1	35.2	40.5	43.1	42.5	47.1	51.7	85.6	493.6	508.8
87.5°	9.3	10.0	10.6	12.6	15.3	15.3	16.6	14.6	27.9	159.9	91.5
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)