

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: P1503071

Luminaire Tested: PRV-P-90-8540-U-T3RE-HSS

Issue Date: 07/22/2026

Test Information

Test Method: LM-79-2024
Report Number: P1503071
Test Lab: INNOVATION CENTER(G3)
Issue Date: 7/22/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: PRV-P-90-8540-U-T3RE-HSS
Description: PREVAIL PETITE DISCRETE LED 2 SQUARES 90W 85CRI 4000k FIXTURE w/ TYPE III
ROADWAY ILLUMINANCE DISTRIBUTION OPTIC AND HOUSE SIDE SHIELD
Light Source: (20) 4000k CCT, 85 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7729.6 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

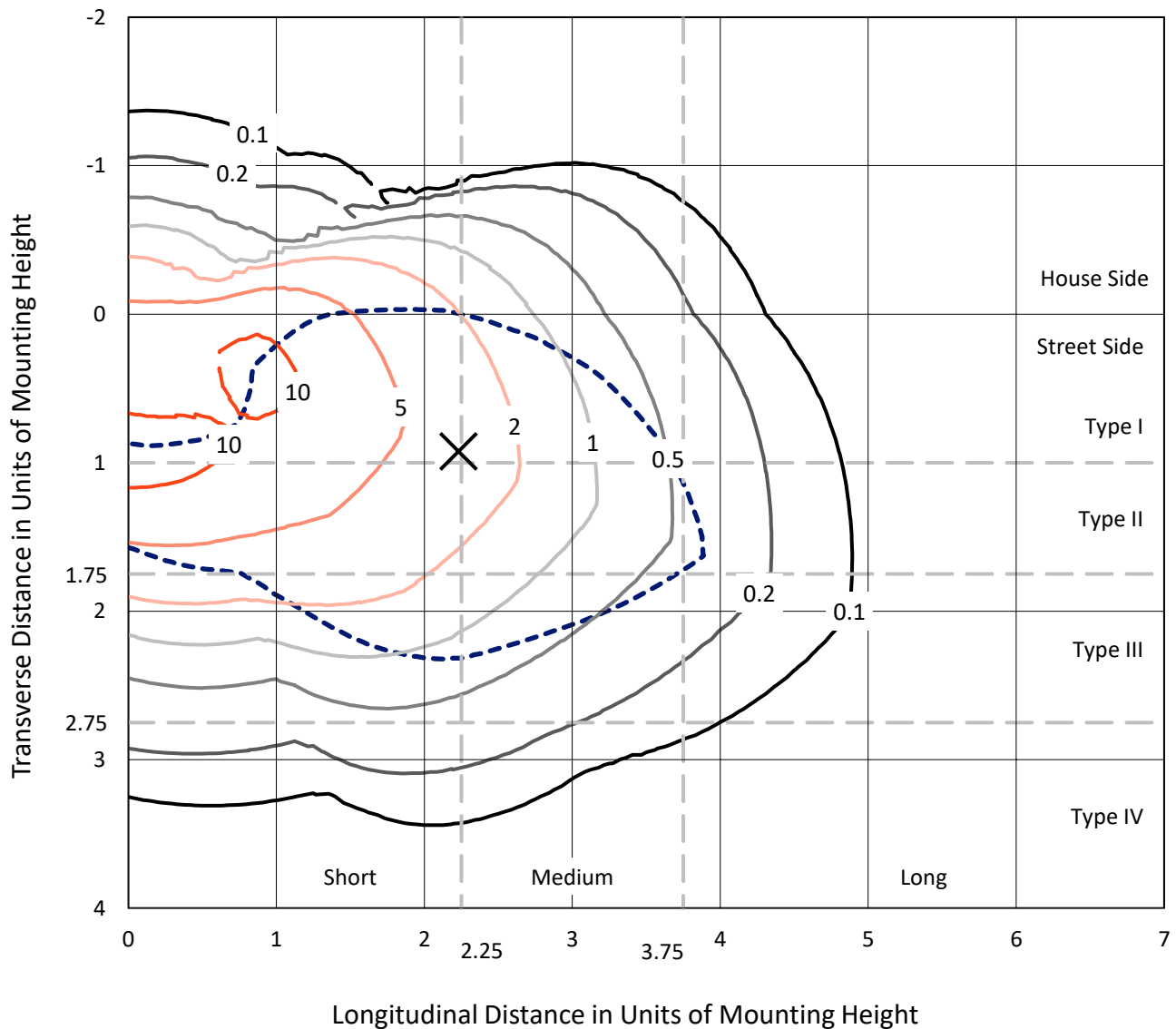
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): 6.0%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

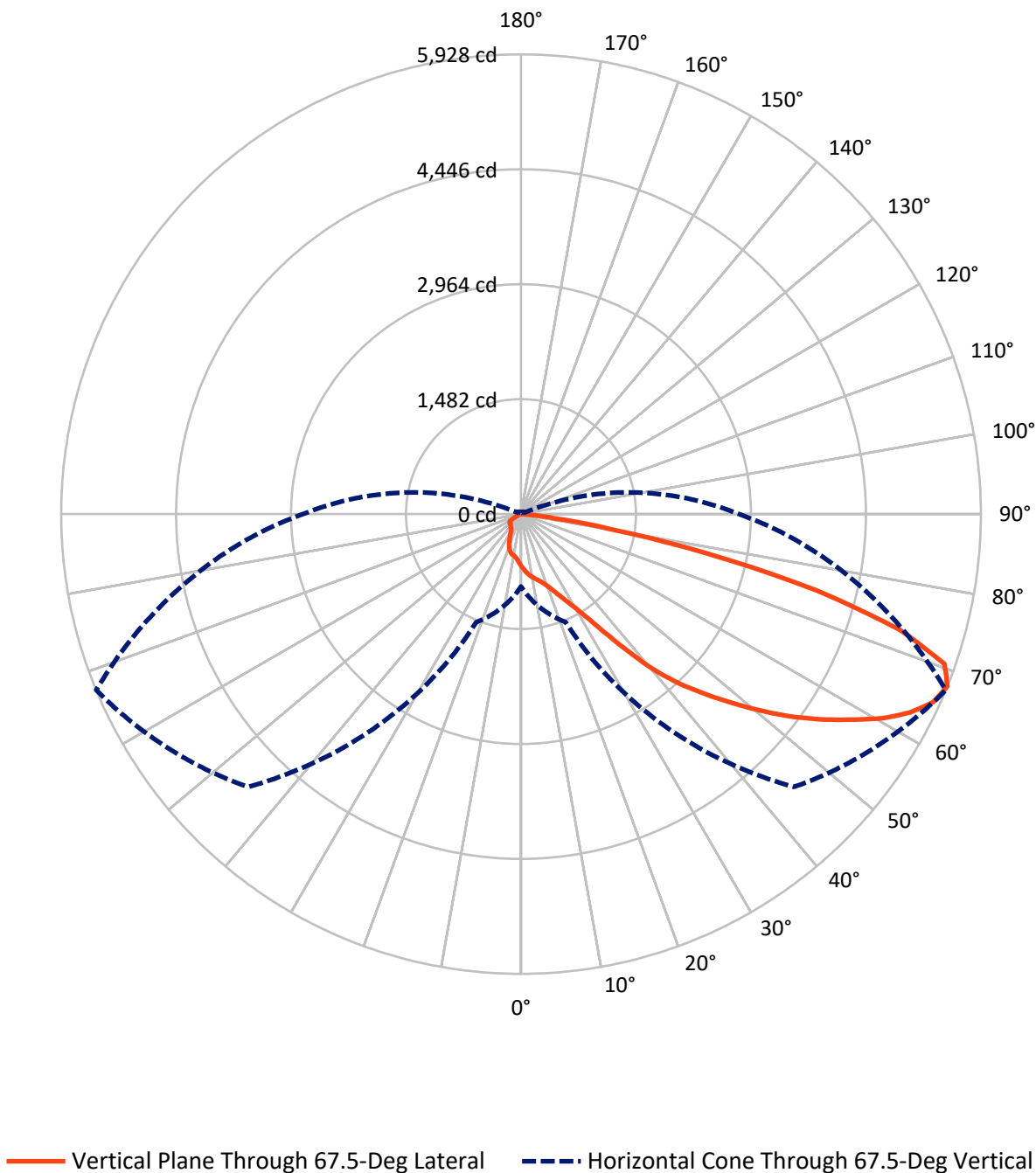


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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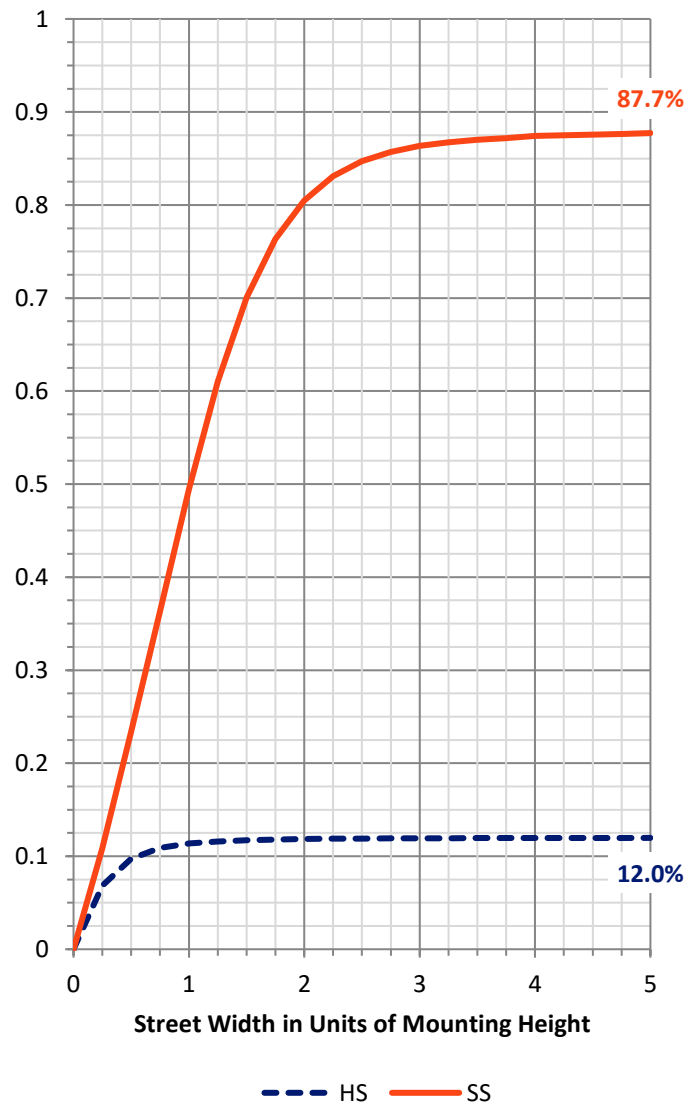
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	933.2	0.0	933.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	6796.4	0.0	6796.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	7729.6	0.0	7729.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	0.8
10°-20°	186.5	2.4
20°-30°	350.5	4.5
30°-40°	668.2	8.6
40°-50°	1333.2	17.2
50°-60°	1973.5	25.5
60°-70°	2066.1	26.7
70°-80°	1018.3	13.2
80°-90°	70.9	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°	7729.6	100.0
0°-180°	7729.6	100.0

Coefficient of Utilization



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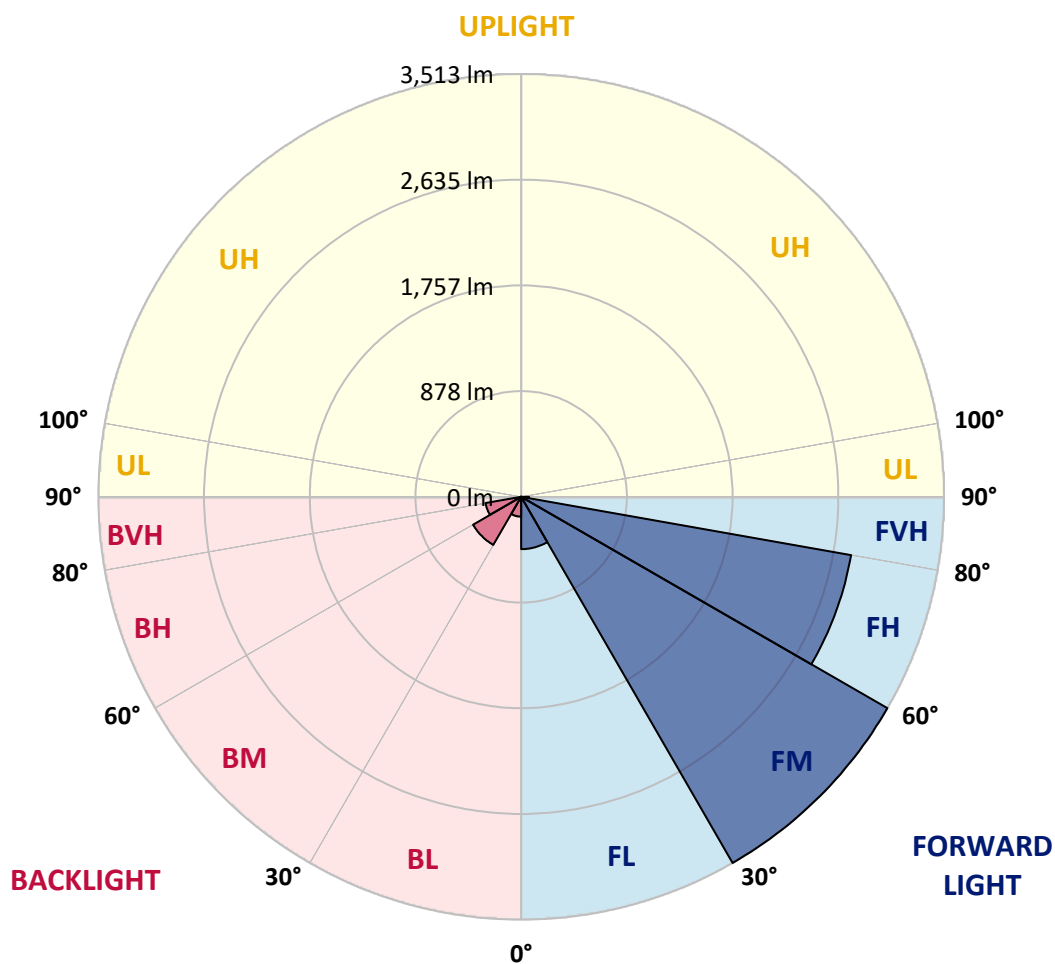
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.9	5.6			
FM	(30°-60°)	3513.2	45.5			
FH	(60°-80°)	2783.9	36.0			G2/5000
FVH	(80°-90°)	64.5	0.8			G1/100
BL	(0°-30°)	164.7	2.1	B1/500		
BM	(30°-60°)	461.6	6.0	B1/1000		
BH	(60°-80°)	300.5	3.9	B1/500		G1/500
BVH	(80°-90°)	6.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8	671.8
2.5°	761.0	765.7	749.3	714.0	674.1	629.5	596.6	577.8	570.8
5°	796.2	800.9	796.2	756.3	674.1	589.5	535.5	505.0	502.6
7.5°	805.6	812.7	812.7	796.2	681.1	561.4	493.2	446.3	427.5
10°	831.5	833.8	833.8	829.1	692.9	544.9	439.2	361.7	345.3
12.5°	880.8	876.1	862.0	859.7	714.0	533.2	371.1	307.7	303.0
15°	930.1	925.4	906.6	892.5	739.9	516.7	314.7	288.9	288.9
17.5°	991.2	984.1	958.3	937.2	772.7	490.9	281.9	277.2	274.8
20°	1054.6	1047.6	1021.7	995.9	815.0	451.0	272.5	263.1	256.0
22.5°	1122.7	1108.6	1092.2	1073.4	869.0	404.0	263.1	246.6	234.9
25°	1195.5	1174.4	1169.7	1169.7	934.8	352.3	253.7	227.8	211.4
27.5°	1277.7	1249.5	1249.5	1280.1	1017.0	307.7	239.6	204.3	185.6
30°	1385.8	1334.1	1338.8	1423.4	1129.8	267.8	223.1	183.2	157.4
32.5°	1569.0	1453.9	1456.2	1616.0	1270.7	237.2	204.3	159.7	138.6
35°	1914.3	1693.5	1604.2	1893.1	1430.4	225.5	180.9	136.2	124.5
37.5°	2318.2	2034.0	1806.2	2240.7	1662.9	220.8	157.4	115.1	105.7
40°	2781.0	2452.1	2066.9	2637.7	1928.3	211.4	133.9	96.3	86.9
42.5°	3168.5	2851.4	2360.5	2982.9	2177.3	199.6	115.1	84.6	72.8
45°	3436.3	3217.8	2748.1	3297.7	2409.8	192.6	101.0	72.8	63.4
47.5°	3577.2	3520.8	3142.7	3624.2	2597.7	185.6	89.3	65.8	58.7
50°	3666.4	3725.2	3542.0	3974.1	2759.8	183.2	79.9	61.1	54.0
52.5°	3666.4	3847.3	3917.8	4331.1	2891.3	180.9	70.5	56.4	49.3
55°	3462.1	3889.6	4265.4	4669.4	2985.3	178.5	63.4	51.7	47.0
57.5°	2931.3	3774.5	4582.5	5002.9	3039.3	162.1	56.4	49.3	44.6
60°	2445.1	3356.4	4862.0	5348.2	3065.2	136.2	51.7	47.0	42.3
62.5°	1928.3	2790.3	5064.0	5632.4	3069.9	96.3	49.3	44.6	35.2
65°	1355.2	2250.1	5155.6	5841.4	3025.2	72.8	47.0	39.9	30.5
67.5°	932.5	1510.3	4974.7	5928.3	2809.1	56.4	42.3	30.5	16.4
70°	718.7	981.8	4248.9	5792.1	2456.8	47.0	35.2	18.8	11.7
72.5°	425.1	631.8	3180.2	5106.2	1975.3	42.3	28.2	14.1	7.0
75°	227.8	345.3	1843.8	3945.9	1298.9	37.6	23.5	11.7	4.7
77.5°	173.8	227.8	690.5	2449.8	730.5	32.9	18.8	7.0	2.3
80°	117.4	164.4	192.6	1167.3	277.2	25.8	16.4	4.7	0.0
82.5°	79.9	115.1	122.1	425.1	72.8	16.4	9.4	2.3	0.0
85°	30.5	63.4	70.5	84.6	28.2	7.0	2.3	0.0	0.0
87.5°	4.7	14.1	16.4	16.4	4.7	4.7	2.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)