

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P835810

Luminaire Tested: **ARCH3-100-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15020 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 102.6
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: 24 FT

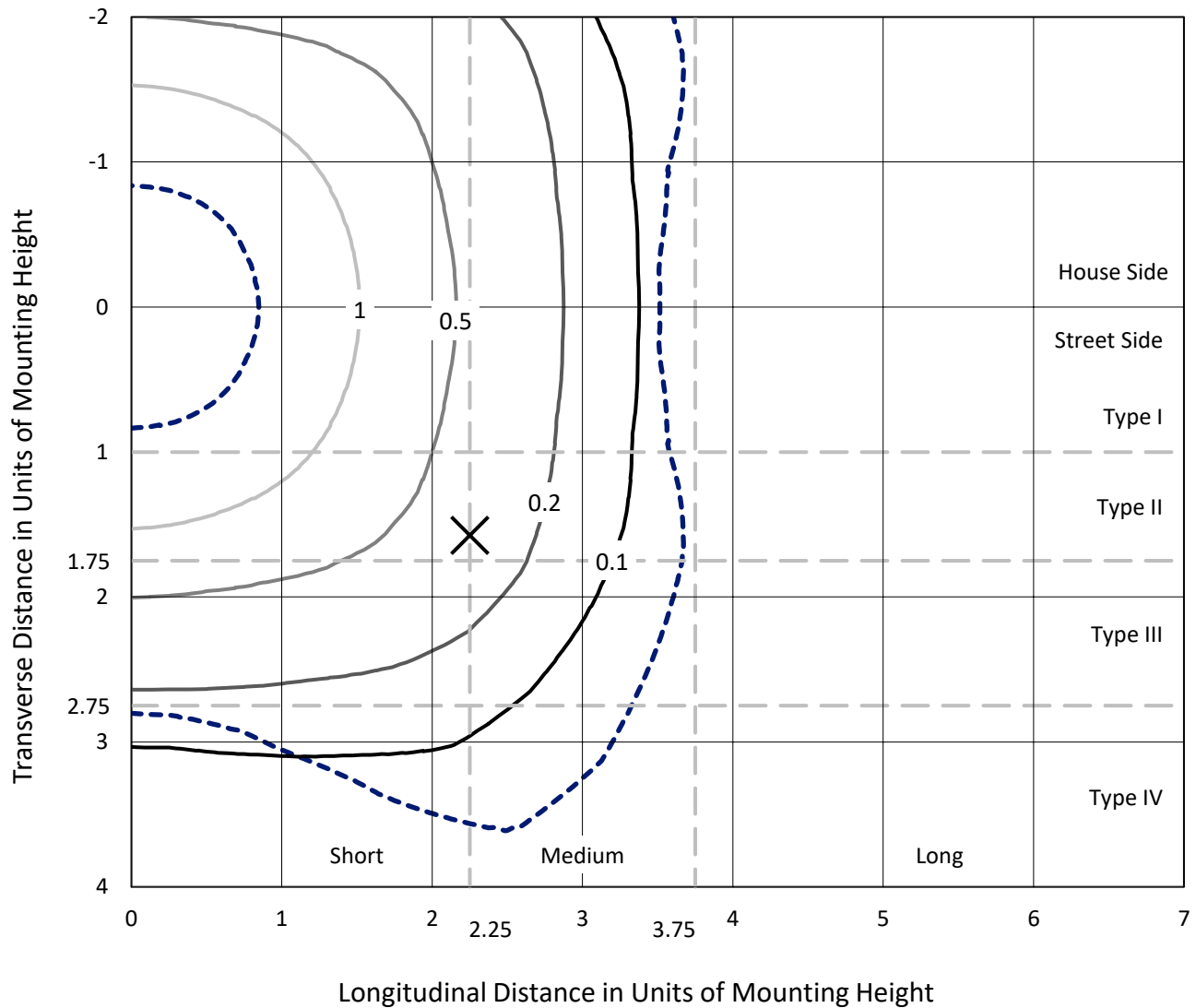


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Iso-Footcandle Lines of Horizontal Illumination

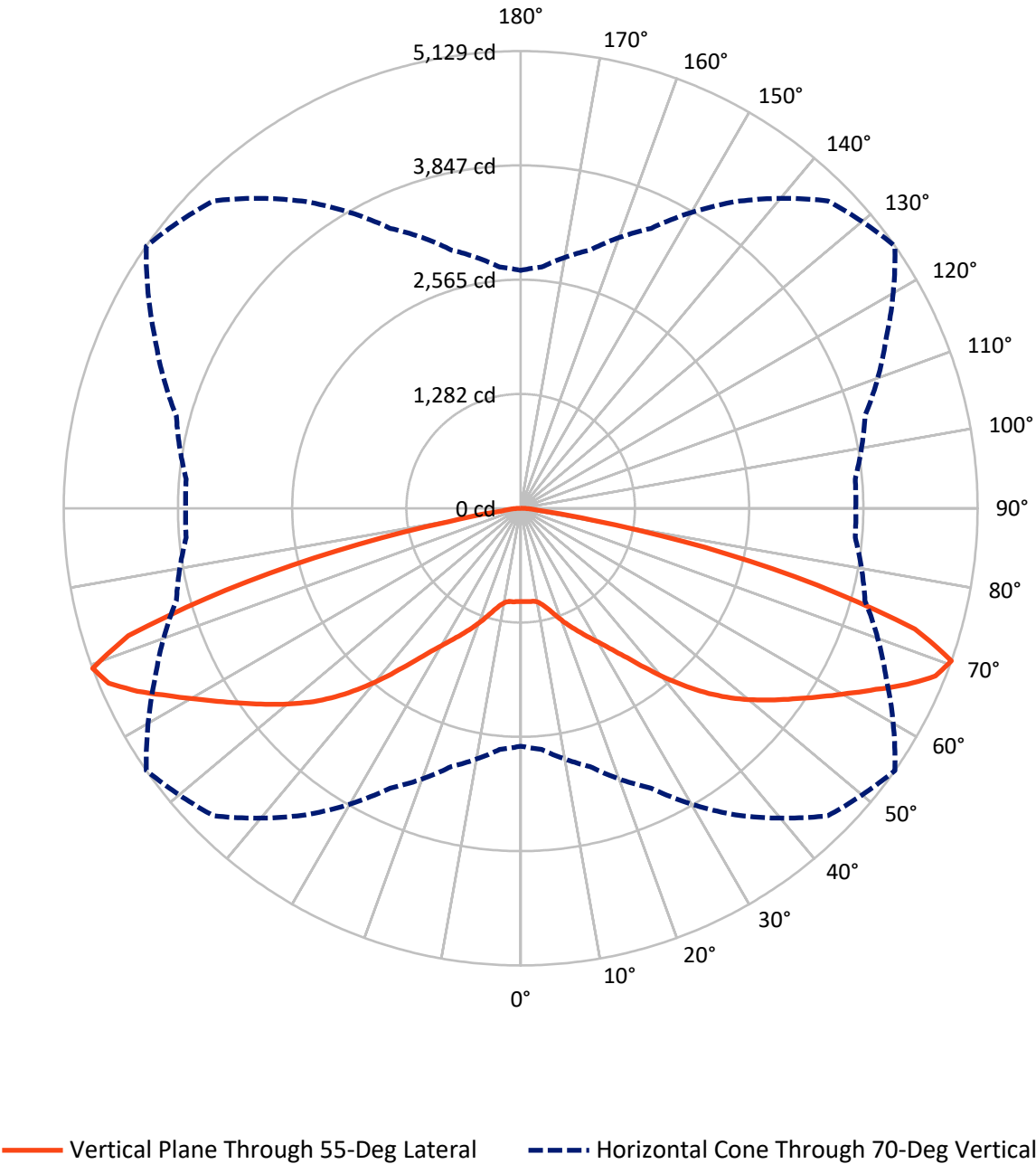
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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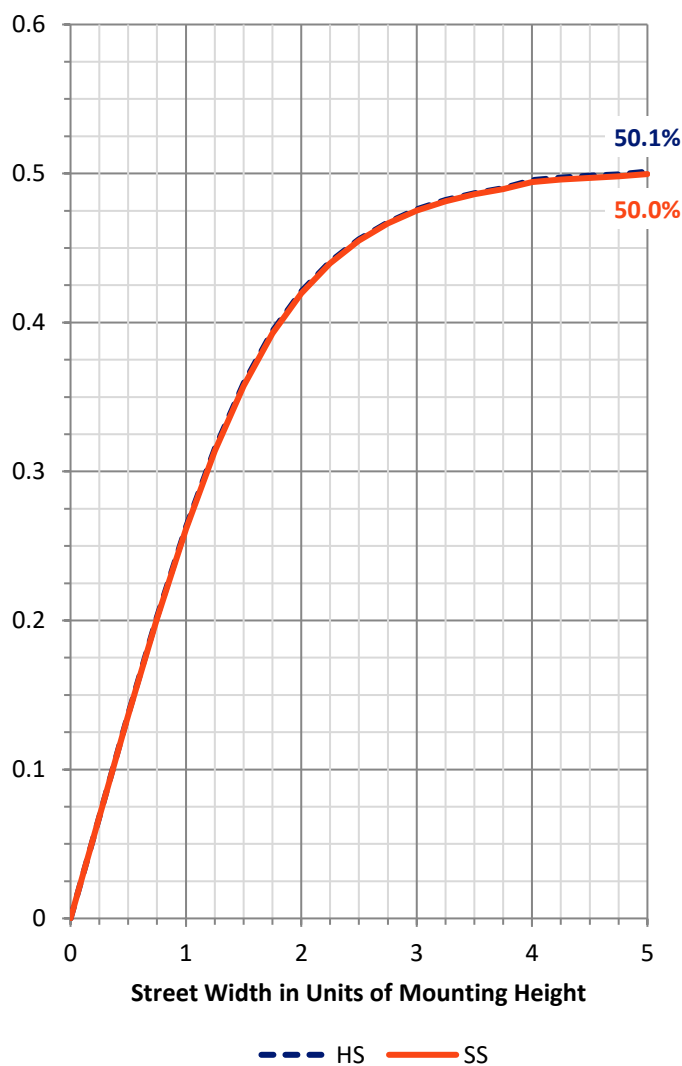
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7510.0	0.0	7510.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7510.0	0.0	7510.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15020.0	0.0	15020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	0.7
10°-20°	344.0	2.3
20°-30°	714.8	4.8
30°-40°	1320.2	8.8
40°-50°	2319.4	15.4
50°-60°	3345.1	22.3
60°-70°	4094.0	27.3
70°-80°	2605.1	17.3
80°-90°	176.3	1.2
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°	15020.0	100.0
0°-180°	15020.0	100.0

Coefficient of Utilization



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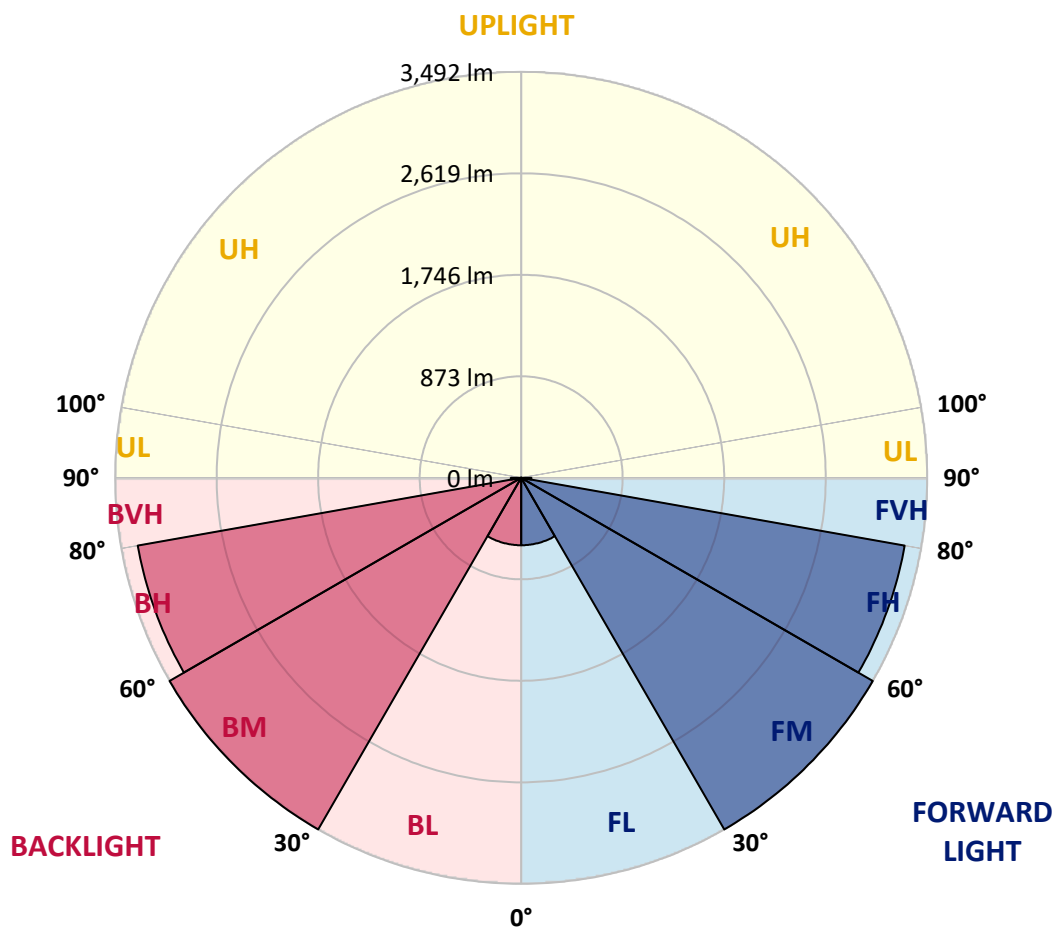
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	580.0	3.9			
FM	(30°-60°)	3492.3	23.3			
FH	(60°-80°)	3349.6	22.3			G2/5000
FVH	(80°-90°)	88.1	0.6			G1/100
BL	(0°-30°)	580.0	3.9	B2/1000		
BM	(30°-60°)	3492.3	23.3	B3/5000		
BH	(60°-80°)	3349.6	22.3	B4/5000		G2/5000
BVH	(80°-90°)	88.1	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0	1047.0
2.5°	1061.0	1061.0	1058.2	1058.2	1052.6	1049.8	1047.0	1047.0	1044.2	1044.2	1041.5
5°	1066.6	1066.6	1066.6	1063.8	1061.0	1058.2	1052.6	1047.0	1044.2	1041.5	1038.7
7.5°	1069.4	1069.4	1066.6	1066.6	1063.8	1061.0	1052.6	1044.2	1041.5	1038.7	1038.7
10°	1091.7	1088.9	1086.1	1080.5	1080.5	1080.5	1069.4	1061.0	1058.2	1058.2	1058.2
12.5°	1144.8	1142.0	1136.4	1128.0	1128.0	1130.8	1114.0	1102.9	1102.9	1100.1	1100.1
15°	1222.9	1220.1	1214.6	1200.6	1197.8	1203.4	1178.3	1167.1	1167.1	1167.1	1164.3
17.5°	1309.5	1303.9	1295.5	1284.4	1284.4	1284.4	1259.2	1245.3	1236.9	1236.9	1234.1
20°	1382.1	1379.3	1379.3	1376.5	1384.9	1384.9	1351.4	1329.0	1309.5	1298.3	1295.5
22.5°	1446.3	1443.5	1449.1	1460.3	1477.0	1482.6	1443.5	1410.0	1379.3	1357.0	1351.4
25°	1532.9	1530.1	1527.3	1544.0	1571.9	1580.3	1538.4	1496.6	1465.8	1454.7	1449.1
27.5°	1625.0	1627.8	1630.6	1647.3	1669.7	1683.6	1641.8	1602.7	1577.5	1560.8	1555.2
30°	1728.3	1733.9	1742.3	1767.4	1784.1	1789.7	1753.4	1725.5	1703.2	1689.2	1680.8
32.5°	1859.5	1870.7	1881.9	1904.2	1912.6	1907.0	1890.2	1870.7	1854.0	1834.4	1831.6
35°	2055.0	2066.2	2063.4	2071.7	2074.5	2068.9	2060.6	2049.4	2041.0	2015.9	2013.1
37.5°	2300.7	2311.9	2295.1	2286.7	2267.2	2270.0	2267.2	2275.6	2278.3	2253.2	2250.4
40°	2549.2	2560.4	2538.0	2515.7	2496.1	2487.8	2501.7	2529.6	2529.6	2512.9	2512.9
42.5°	2814.4	2822.8	2786.5	2758.6	2733.5	2727.9	2736.3	2769.8	2778.1	2775.3	2775.3
45°	3079.7	3074.1	3026.6	2998.7	2976.4	2962.4	2965.2	2990.3	3007.1	3015.5	3015.5
47.5°	3283.5	3275.1	3236.0	3213.7	3199.7	3180.2	3180.2	3194.2	3202.5	3205.3	3205.3
50°	3445.4	3437.1	3398.0	3395.2	3395.2	3386.8	3378.4	3375.6	3370.1	3372.9	3372.9
52.5°	3585.1	3573.9	3546.0	3551.5	3576.7	3582.3	3571.1	3548.8	3526.4	3518.0	3520.8
55°	3735.8	3719.1	3696.7	3713.5	3763.7	3786.1	3769.3	3724.7	3685.6	3660.4	3660.4
57.5°	3855.9	3836.3	3836.3	3883.8	3975.9	4020.6	3984.3	3900.6	3833.5	3805.6	3808.4
60°	3772.1	3755.4	3822.4	4031.8	4204.9	4280.3	4218.9	4070.9	3962.0	3928.5	3934.1
62.5°	3607.4	3596.2	3680.0	4003.9	4411.5	4567.9	4475.7	4263.5	4101.6	4062.5	4062.5
65°	3364.5	3361.7	3479.0	3878.2	4459.0	4844.3	4766.1	4472.9	4263.5	4210.5	4221.6
67.5°	3113.2	3113.2	3219.3	3663.2	4403.1	4961.6	5023.0	4662.8	4341.7	4210.5	4213.3
70°	2669.2	2716.7	2998.7	3465.0	4199.3	4877.8	5129.1	4528.8	4001.1	3769.3	3761.0
72.5°	1759.0	1820.4	2381.7	3118.8	3998.3	4573.5	4629.3	3978.7	3322.6	3051.8	3037.8
75°	1061.0	1114.0	1544.0	2434.7	3515.2	3682.8	3437.1	3118.8	2482.2	2270.0	2270.0
77.5°	312.7	349.0	712.0	1544.0	2431.9	2420.7	2119.2	1837.2	1468.6	1248.1	1264.8
80°	184.3	189.9	231.7	703.6	1007.9	1061.0	818.1	511.0	511.0	379.7	368.6
82.5°	142.4	142.4	148.0	175.9	242.9	270.8	206.6	175.9	201.0	170.3	161.9
85°	100.5	100.5	100.5	103.3	106.1	108.9	114.5	117.3	128.4	106.1	100.5
87.5°	30.7	33.5	36.3	41.9	50.3	53.0	55.8	50.3	50.3	47.5	44.7
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)