

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: P842764

Luminaire Tested: **ARCH4-90-740-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16519 lumens
Efficiency: N/A
Efficacy: 177.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 93.1
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

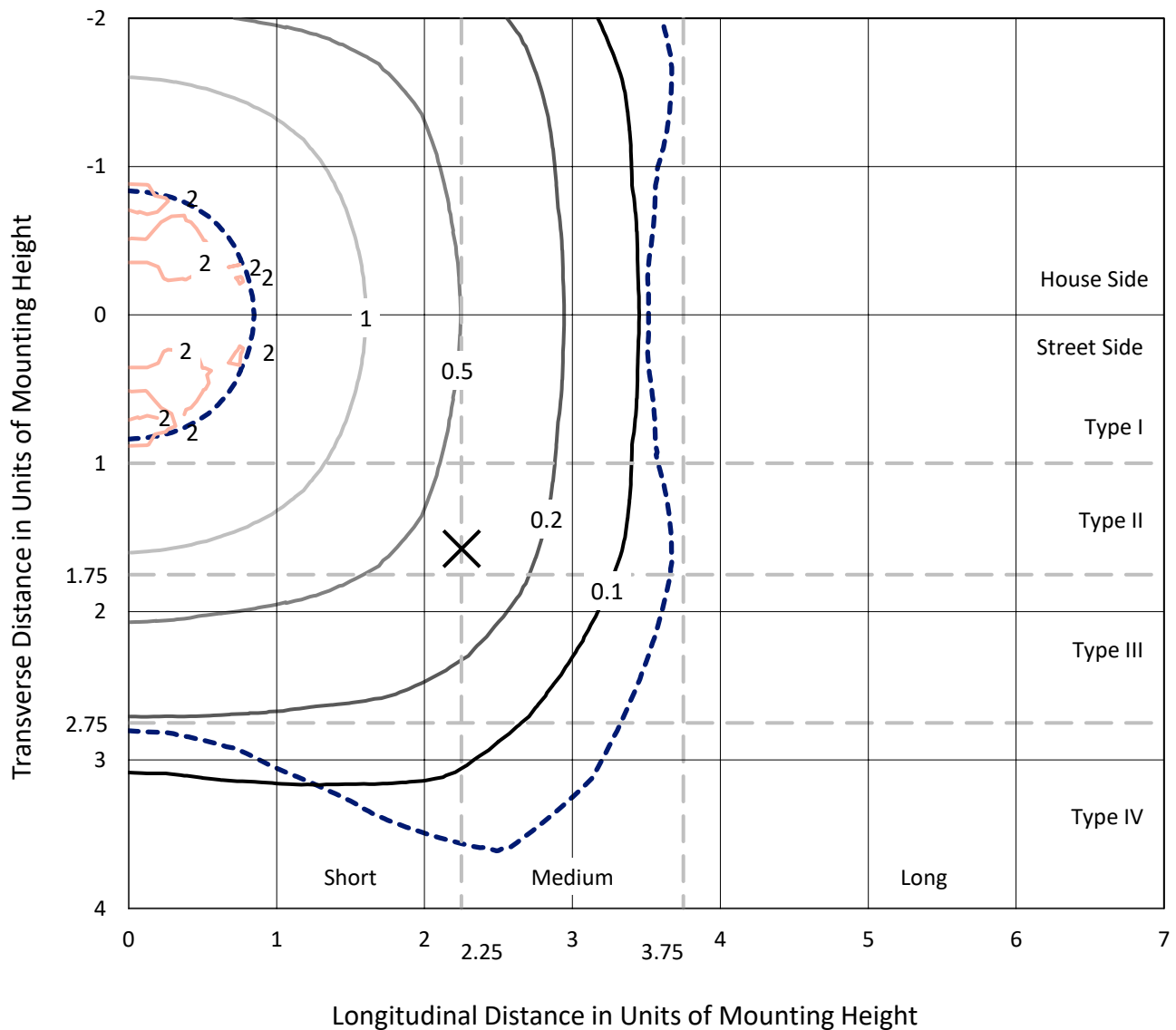


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Iso-Footcandle Lines of Horizontal Illumination

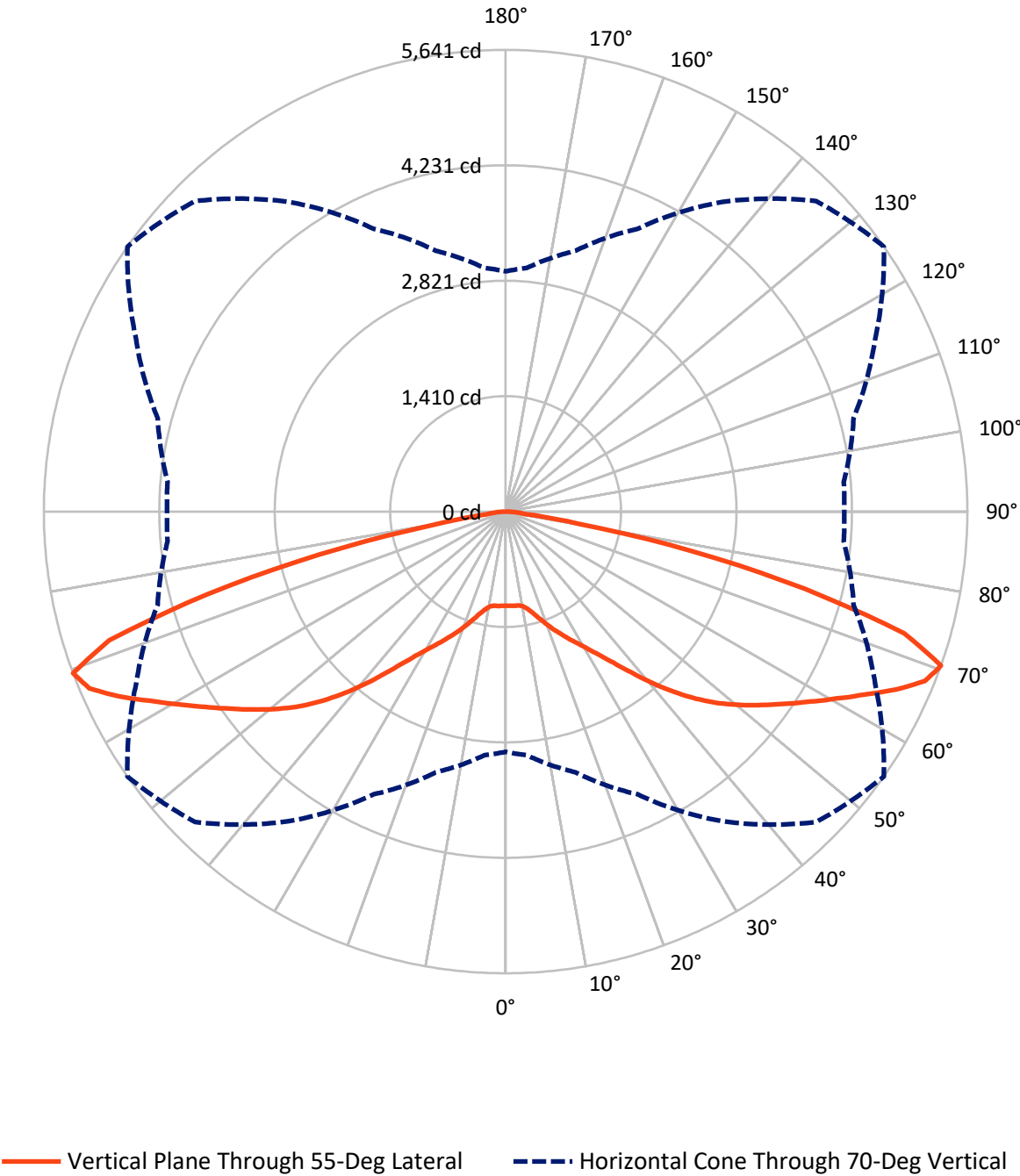
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	8259.5	0.0	8259.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8259.5	0.0	8259.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16519.0	0.0	16519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	0.7
10°-20°	378.4	2.3
20°-30°	786.2	4.8
30°-40°	1452.0	8.8
40°-50°	2550.8	15.4
50°-60°	3678.9	22.3
60°-70°	4502.6	27.3
70°-80°	2865.1	17.3
80°-90°	193.9	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°	16519.0	100.0
0°-180°	16519.0	100.0

Coefficient of Utilization



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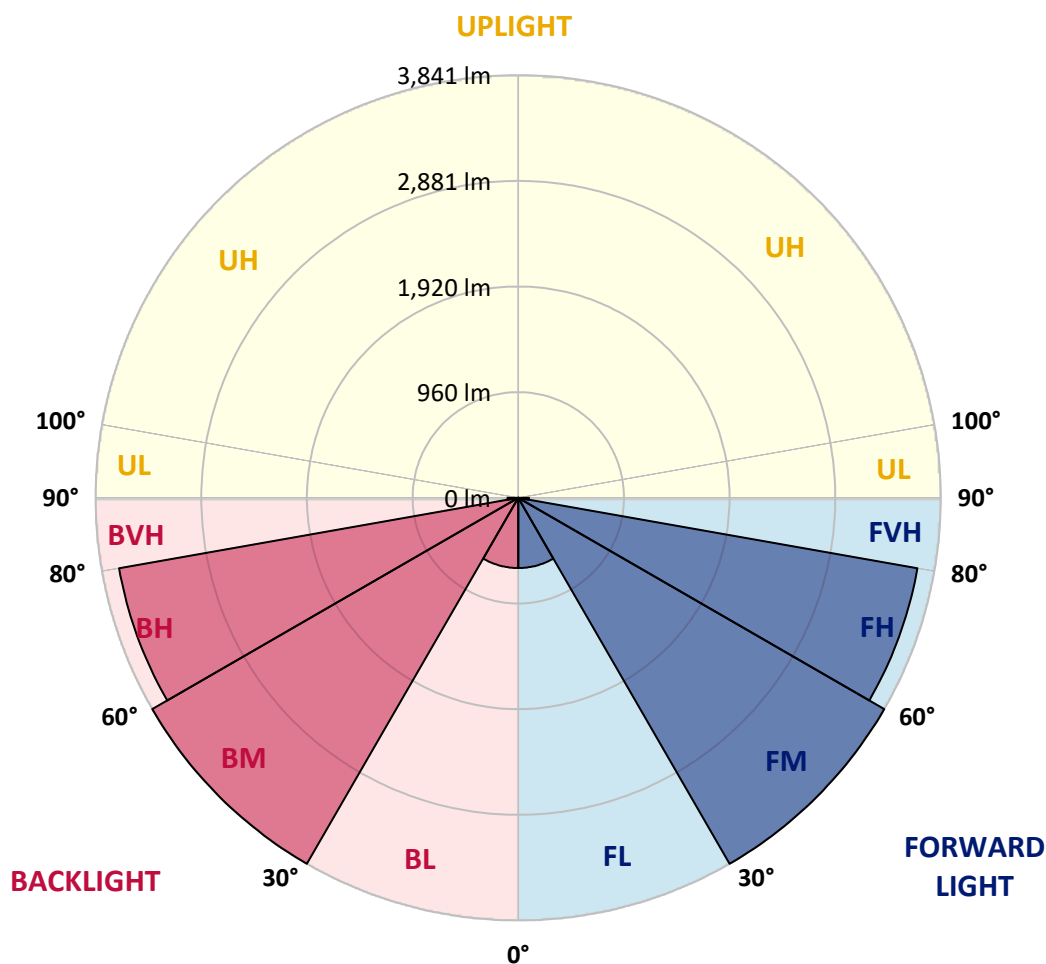
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	637.8	3.9			
FM	(30°-60°)	3840.9	23.3			
FH	(60°-80°)	3683.8	22.3			G2/5000
FVH	(80°-90°)	96.9	0.6			G1/100
BL	(0°-30°)	637.8	3.9	B2/1000		
BM	(30°-60°)	3840.9	23.3	B3/5000		
BH	(60°-80°)	3683.8	22.3	B4/5000		G2/5000
BVH	(80°-90°)	96.9	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°	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5	1151.5
2.5°	1166.9	1166.9	1163.8	1163.8	1157.7	1154.6	1151.5	1151.5	1148.5	1148.5	1145.4
5°	1173.0	1173.0	1173.0	1170.0	1166.9	1163.8	1157.7	1151.5	1148.5	1145.4	1142.3
7.5°	1176.1	1176.1	1173.0	1173.0	1170.0	1166.9	1157.7	1148.5	1145.4	1142.3	1142.3
10°	1200.7	1197.6	1194.5	1188.4	1188.4	1188.4	1176.1	1166.9	1163.8	1163.8	1163.8
12.5°	1259.0	1255.9	1249.8	1240.6	1240.6	1243.7	1225.2	1212.9	1212.9	1209.9	1209.9
15°	1345.0	1341.9	1335.8	1320.4	1317.4	1323.5	1295.9	1283.6	1283.6	1283.6	1280.5
17.5°	1440.2	1434.0	1424.8	1412.5	1412.5	1412.5	1384.9	1369.6	1360.3	1360.3	1357.3
20°	1520.0	1516.9	1516.9	1513.9	1523.1	1523.1	1486.2	1461.7	1440.2	1427.9	1424.8
22.5°	1590.6	1587.6	1593.7	1606.0	1624.4	1630.6	1587.6	1550.7	1516.9	1492.4	1486.2
25°	1685.8	1682.8	1679.7	1698.1	1728.8	1738.0	1692.0	1645.9	1612.1	1599.9	1593.7
27.5°	1787.2	1790.2	1793.3	1811.7	1836.3	1851.7	1805.6	1762.6	1735.0	1716.5	1710.4
30°	1900.8	1906.9	1916.1	1943.8	1962.2	1968.3	1928.4	1897.7	1873.2	1857.8	1848.6
32.5°	2045.1	2057.4	2069.7	2094.2	2103.5	2097.3	2078.9	2057.4	2039.0	2017.5	2014.4
35°	2260.1	2272.4	2269.3	2278.5	2281.6	2275.4	2266.2	2253.9	2244.7	2217.1	2214.0
37.5°	2530.3	2542.6	2524.2	2514.9	2493.4	2496.5	2493.4	2502.7	2505.7	2478.1	2475.0
40°	2803.6	2815.9	2791.3	2766.7	2745.2	2736.0	2751.4	2782.1	2782.1	2763.7	2763.7
42.5°	3095.3	3104.5	3064.6	3033.9	3006.3	3000.1	3009.3	3046.2	3055.4	3052.3	3052.3
45°	3387.0	3380.9	3328.7	3298.0	3273.4	3258.1	3261.1	3288.8	3307.2	3316.4	3316.4
47.5°	3611.2	3602.0	3559.0	3534.4	3519.1	3497.6	3497.6	3512.9	3522.1	3525.2	3525.2
50°	3789.3	3780.1	3737.1	3734.0	3734.0	3724.8	3715.6	3712.5	3706.4	3709.5	3709.5
52.5°	3942.8	3930.6	3899.8	3906.0	3933.6	3939.8	3927.5	3902.9	3878.4	3869.1	3872.2
55°	4108.7	4090.2	4065.7	4084.1	4139.4	4163.9	4145.5	4096.4	4053.4	4025.7	4025.7
57.5°	4240.7	4219.2	4219.2	4271.4	4372.7	4421.9	4382.0	4289.8	4216.1	4185.4	4188.5
60°	4148.6	4130.2	4203.9	4434.2	4624.5	4707.5	4639.9	4477.1	4357.4	4320.5	4326.7
62.5°	3967.4	3955.1	4047.2	4403.5	4851.8	5023.7	4922.4	4689.0	4510.9	4467.9	4467.9
65°	3700.3	3697.2	3826.2	4265.3	4904.0	5327.7	5241.8	4919.3	4689.0	4630.7	4643.0
67.5°	3423.9	3423.9	3540.6	4028.8	4842.6	5456.7	5524.3	5128.1	4775.0	4630.7	4633.8
70°	2935.6	2987.8	3298.0	3810.8	4618.4	5364.6	5641.0	4980.8	4400.4	4145.5	4136.3
72.5°	1934.6	2002.1	2619.3	3430.0	4397.3	5029.9	5091.3	4375.8	3654.2	3356.3	3341.0
75°	1166.9	1225.2	1698.1	2677.7	3866.1	4050.3	3780.1	3430.0	2729.9	2496.5	2496.5
77.5°	343.9	383.8	783.0	1698.1	2674.6	2662.3	2330.7	2020.6	1615.2	1372.6	1391.0
80°	202.7	208.8	254.9	773.8	1108.5	1166.9	899.7	561.9	561.9	417.6	405.3
82.5°	156.6	156.6	162.7	193.5	267.2	297.9	227.2	193.5	221.1	187.3	178.1
85°	110.5	110.5	110.5	113.6	116.7	119.8	125.9	129.0	141.3	116.7	110.5
87.5°	33.8	36.8	39.9	46.1	55.3	58.3	61.4	55.3	55.3	52.2	49.1
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)