

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: P841504

Luminaire Tested: **ARCH4-190-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841504
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: ARCH4-190-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25613 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 190
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

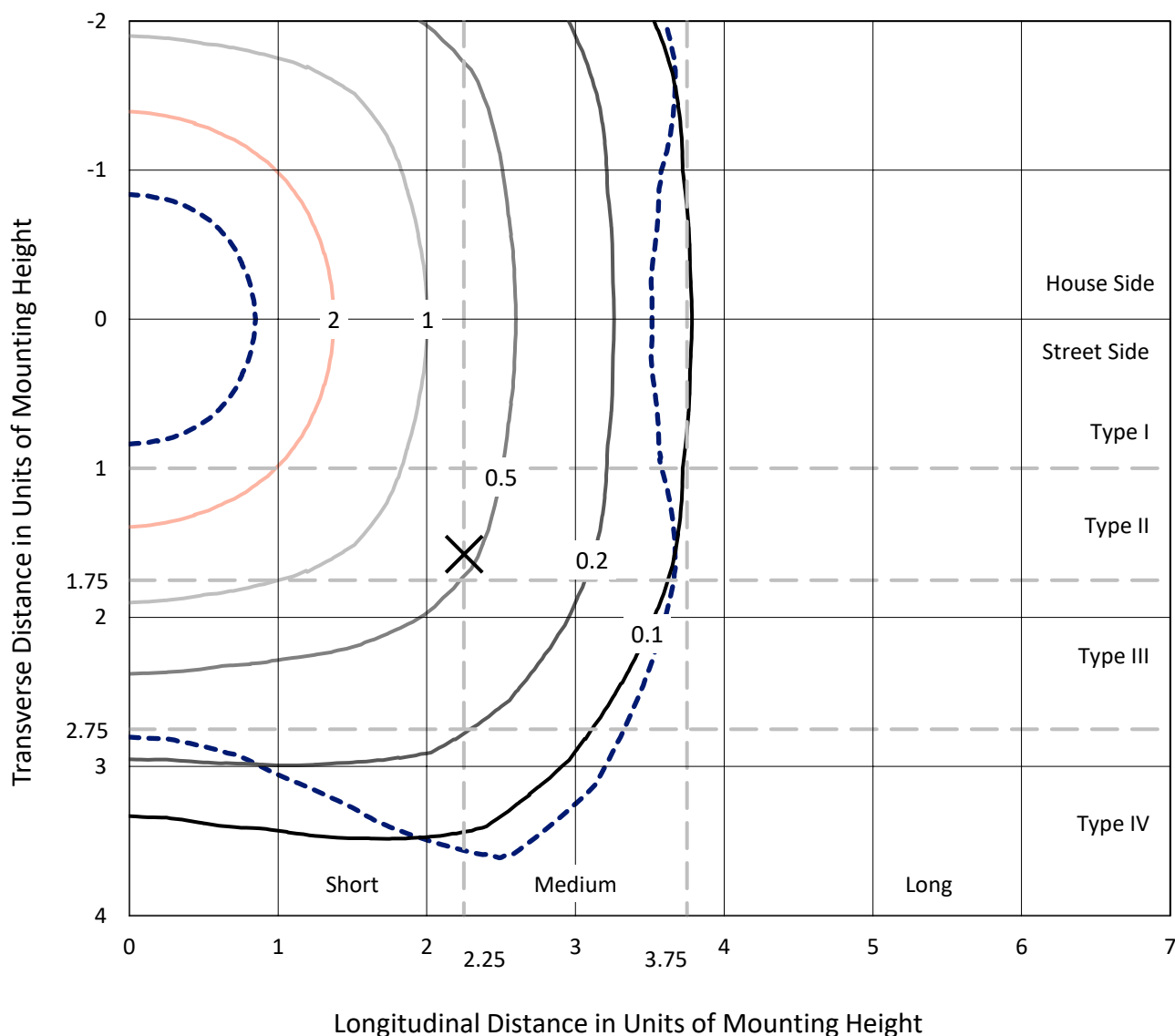


REPORT NUMBER: P841504

CATALOG NUMBER: ARCH4-190-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

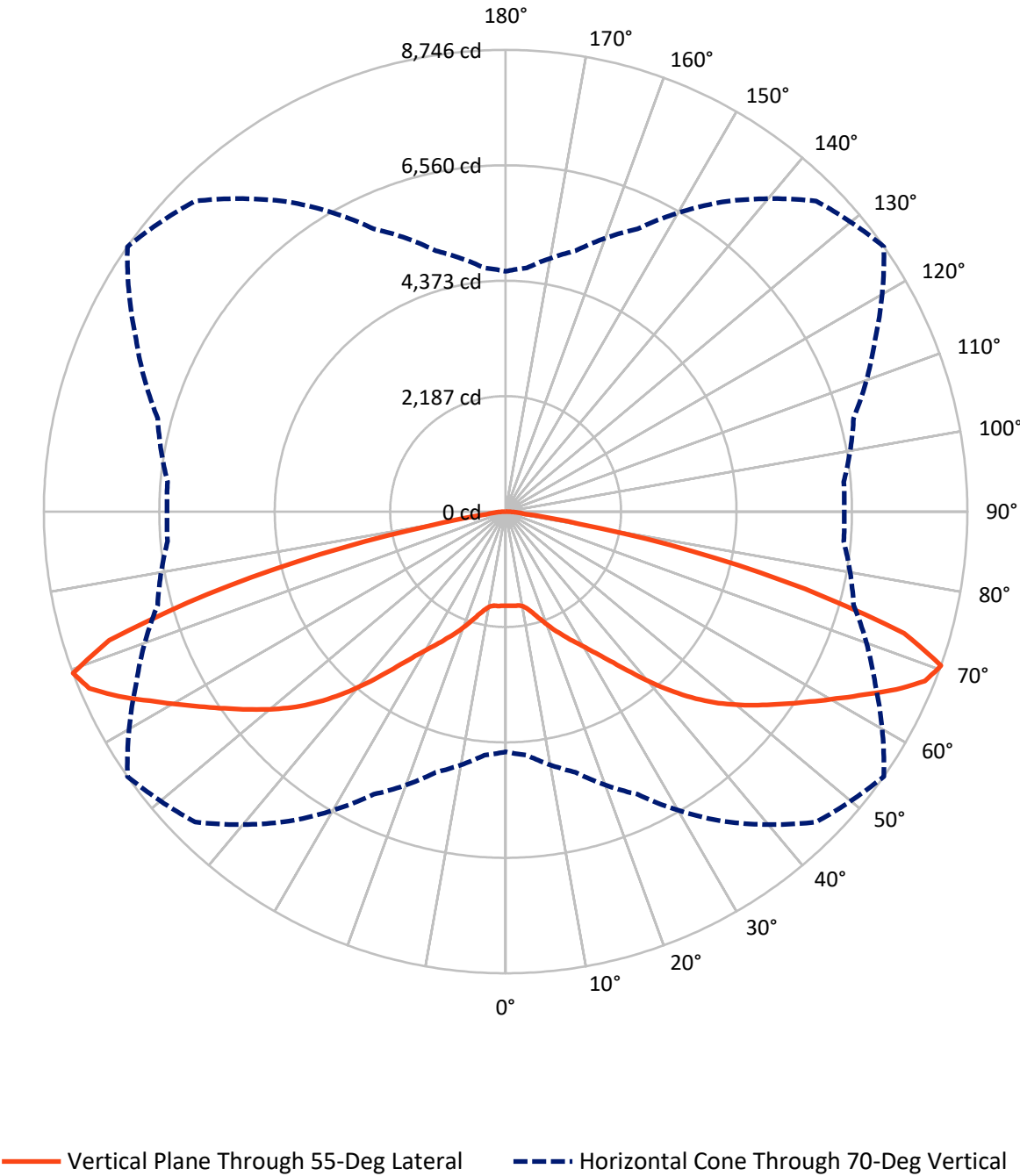
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type V - Medium - N/A

REPORT NUMBER: P841504
CATALOG NUMBER: ARCH4-190-722-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P841504

CATALOG NUMBER: ARCH4-190-722-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12806.5	0.0	12806.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12806.5	0.0	12806.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25613.0	0.0	25613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	0.7
10°-20°	586.6	2.3
20°-30°	1219.0	4.8
30°-40°	2251.3	8.8
40°-50°	3955.1	15.4
50°-60°	5704.2	22.3
60°-70°	6981.3	27.3
70°-80°	4442.4	17.3
80°-90°	300.6	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°	25613.0	100.0
0°-180°	25613.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841504

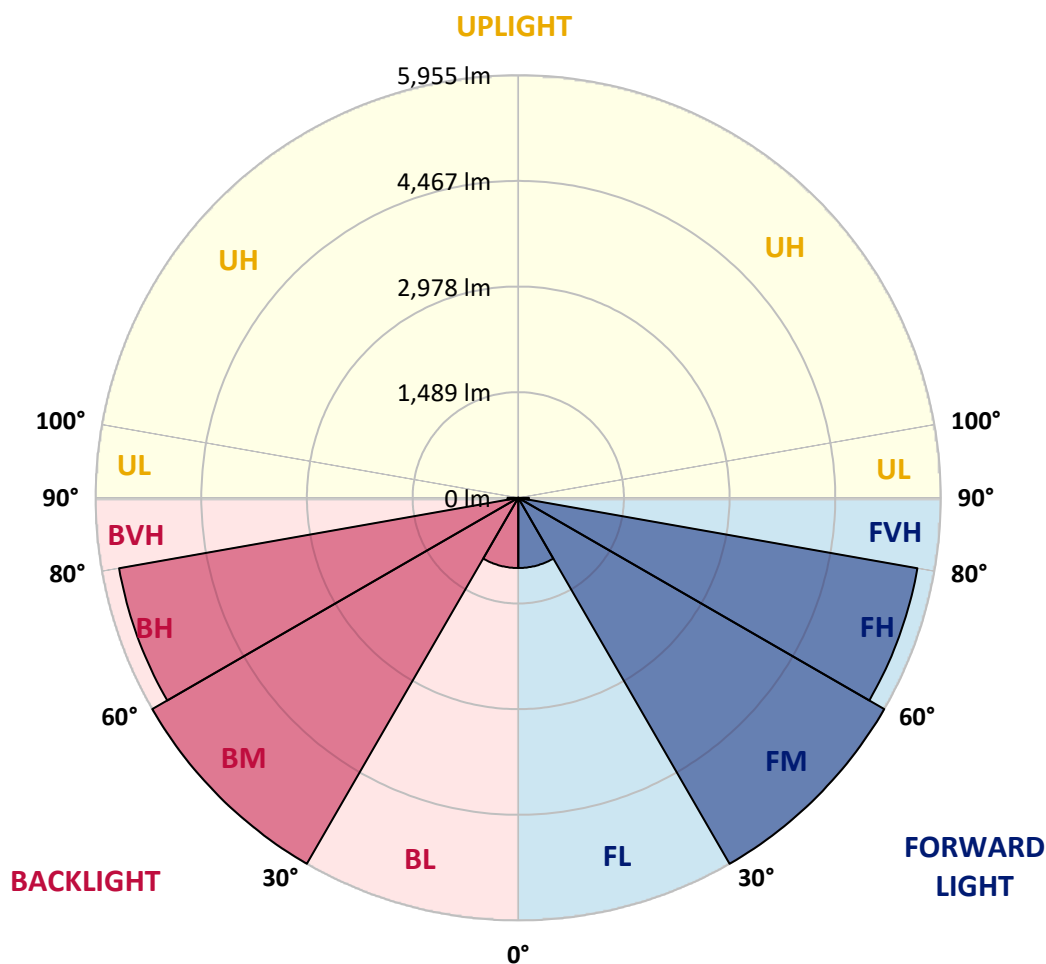
CATALOG NUMBER: ARCH4-190-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	989.0	3.9			
FM	(30°-60°)	5955.4	23.3			
FH	(60°-80°)	5711.9	22.3			G3/7500
FVH	(80°-90°)	150.3	0.6			G2/225
BL	(0°-30°)	989.0	3.9	B2/1000		
BM	(30°-60°)	5955.4	23.3	B4/8500		
BH	(60°-80°)	5711.9	22.3	B5		G3/7500
BVH	(80°-90°)	150.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Medium



REPORT NUMBER: P841504

CATALOG NUMBER: ARCH4-190-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5	1785.5
2.5°	1809.3	1809.3	1804.5	1804.5	1795.0	1790.2	1785.5	1785.5	1780.7	1780.7	1775.9
5°	1818.8	1818.8	1818.8	1814.0	1809.3	1804.5	1795.0	1785.5	1780.7	1775.9	1771.2
7.5°	1823.6	1823.6	1818.8	1818.8	1814.0	1809.3	1795.0	1780.7	1775.9	1771.2	1771.2
10°	1861.6	1856.9	1852.1	1842.6	1842.6	1842.6	1823.6	1809.3	1804.5	1804.5	1804.5
12.5°	1952.1	1947.4	1937.8	1923.5	1923.5	1928.3	1899.7	1880.7	1880.7	1875.9	1875.9
15°	2085.4	2080.7	2071.1	2047.3	2042.6	2052.1	2009.2	1990.2	1990.2	1990.2	1985.4
17.5°	2233.0	2223.5	2209.2	2190.2	2190.2	2190.2	2147.3	2123.5	2109.2	2109.2	2104.5
20°	2356.8	2352.1	2352.1	2347.3	2361.6	2361.6	2304.4	2266.4	2233.0	2214.0	2209.2
22.5°	2466.3	2461.6	2471.1	2490.1	2518.7	2528.2	2461.6	2404.4	2352.1	2314.0	2304.4
25°	2613.9	2609.2	2604.4	2633.0	2680.6	2694.9	2623.4	2552.0	2499.7	2480.6	2471.1
27.5°	2771.0	2775.8	2780.6	2809.1	2847.2	2871.0	2799.6	2733.0	2690.1	2661.5	2652.0
30°	2947.2	2956.7	2971.0	3013.9	3042.4	3052.0	2990.1	2942.5	2904.4	2880.6	2866.3
32.5°	3171.0	3190.0	3209.1	3247.2	3261.5	3251.9	3223.4	3190.0	3161.5	3128.1	3123.4
35°	3504.3	3523.3	3518.6	3532.8	3537.6	3528.1	3513.8	3494.8	3480.5	3437.6	3432.9
37.5°	3923.3	3942.3	3913.7	3899.5	3866.1	3870.9	3866.1	3880.4	3885.2	3842.3	3837.6
40°	4347.0	4366.1	4328.0	4289.9	4256.6	4242.3	4266.1	4313.7	4313.7	4285.1	4285.1
42.5°	4799.3	4813.6	4751.7	4704.1	4661.3	4651.7	4666.0	4723.2	4737.4	4732.7	4732.7
45°	5251.7	5242.1	5161.2	5113.6	5075.5	5051.7	5056.4	5099.3	5127.9	5142.1	5142.1
47.5°	5599.2	5584.9	5518.3	5480.2	5456.4	5423.1	5423.1	5446.9	5461.2	5465.9	5465.9
50°	5875.4	5861.1	5794.4	5789.7	5789.7	5775.4	5761.1	5756.3	5746.8	5751.6	5751.6
52.5°	6113.4	6094.4	6046.8	6056.3	6099.2	6108.7	6089.6	6051.5	6013.5	5999.2	6003.9
55°	6370.5	6342.0	6303.9	6332.5	6418.2	6456.3	6427.7	6351.5	6284.8	6242.0	6242.0
57.5°	6575.3	6542.0	6542.0	6622.9	6780.0	6856.2	6794.3	6651.5	6537.2	6489.6	6494.3
60°	6432.4	6403.9	6518.1	6875.2	7170.4	7299.0	7194.2	6941.9	6756.2	6699.1	6708.6
62.5°	6151.5	6132.5	6275.3	6827.6	7522.8	7789.4	7632.3	7270.4	6994.3	6927.6	6927.6
65°	5737.3	5732.5	5932.5	6613.4	7603.7	8260.8	8127.4	7627.5	7270.4	7180.0	7199.0
67.5°	5308.8	5308.8	5489.7	6246.8	7508.5	8460.7	8565.5	7951.3	7403.7	7180.0	7184.7
70°	4551.8	4632.7	5113.6	5908.7	7160.9	8317.9	8746.4	7722.7	6822.9	6427.7	6413.4
72.5°	2999.6	3104.3	4061.3	5318.3	6818.1	7798.9	7894.1	6784.8	5665.9	5204.0	5180.2
75°	1809.3	1899.7	2633.0	4151.8	5994.4	6280.1	5861.1	5318.3	4232.7	3870.9	3870.9
77.5°	533.3	595.2	1214.1	2633.0	4147.0	4128.0	3613.8	3132.9	2504.4	2128.3	2156.8
80°	314.2	323.8	395.2	1199.8	1718.8	1809.3	1395.0	871.3	871.3	647.5	628.5
82.5°	242.8	242.8	252.3	300.0	414.2	461.8	352.3	300.0	342.8	290.4	276.2
85°	171.4	171.4	171.4	176.2	180.9	185.7	195.2	200.0	219.0	180.9	171.4
87.5°	52.4	57.1	61.9	71.4	85.7	90.5	95.2	85.7	85.7	80.9	76.2
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)