

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: P841432

Luminaire Tested: **ARCH4-180-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841432
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: ARCH4-180-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24530 lumens
Efficiency: N/A
Efficacy: 136.3 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): 180
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



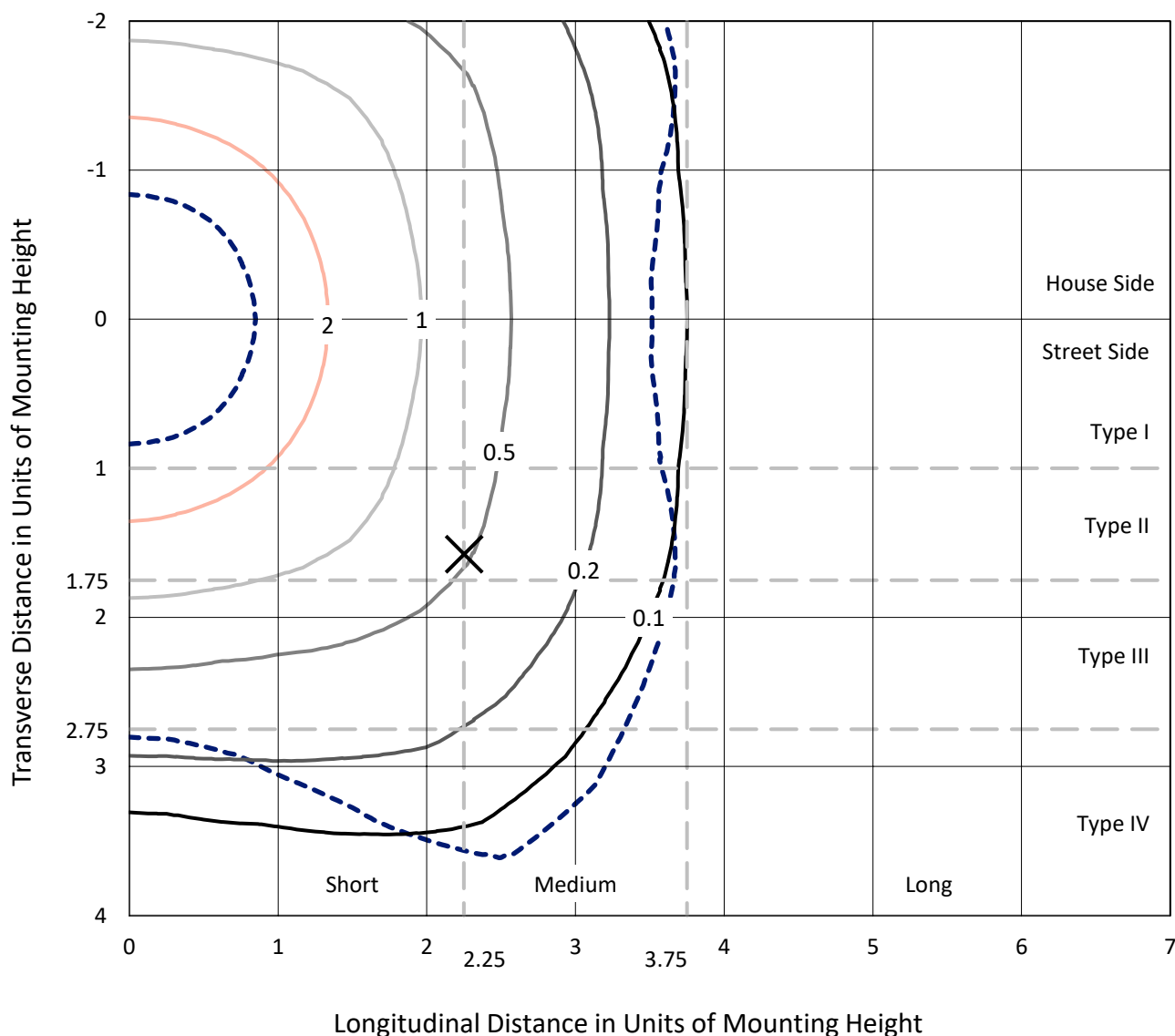
REPORT NUMBER: P841432

CATALOG NUMBER: ARCH4-180-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

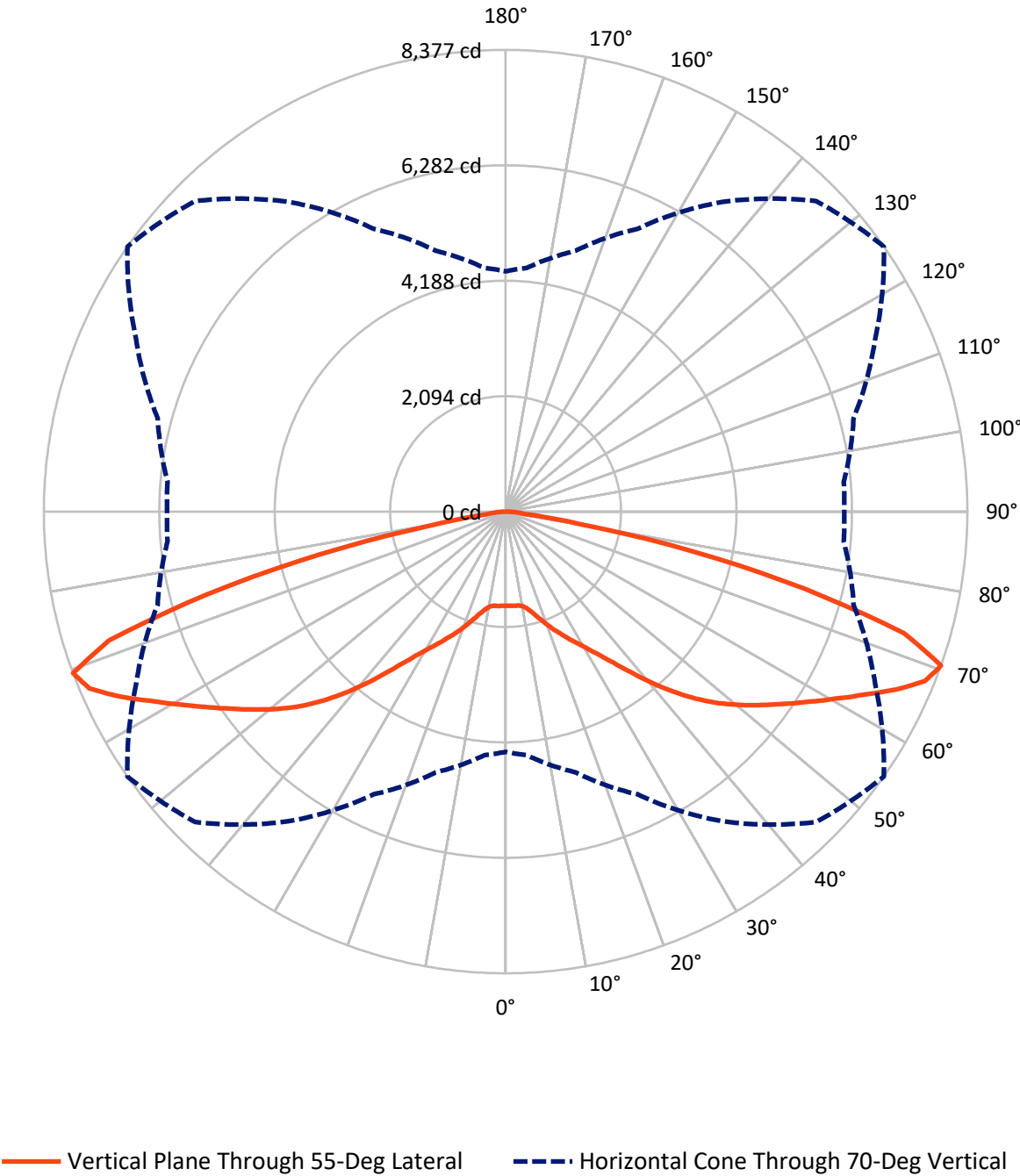
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type V - Medium - N/A

REPORT NUMBER: P841432
CATALOG NUMBER: ARCH4-180-722-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P841432

CATALOG NUMBER: ARCH4-180-722-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12265.0	0.0	12265.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12265.0	0.0	12265.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24530.0	0.0	24530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	0.7
10°-20°	561.8	2.3
20°-30°	1167.4	4.8
30°-40°	2156.2	8.8
40°-50°	3787.9	15.4
50°-60°	5463.0	22.3
60°-70°	6686.2	27.3
70°-80°	4254.6	17.3
80°-90°	287.9	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°	24530.0	100.0
0°-180°	24530.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841432

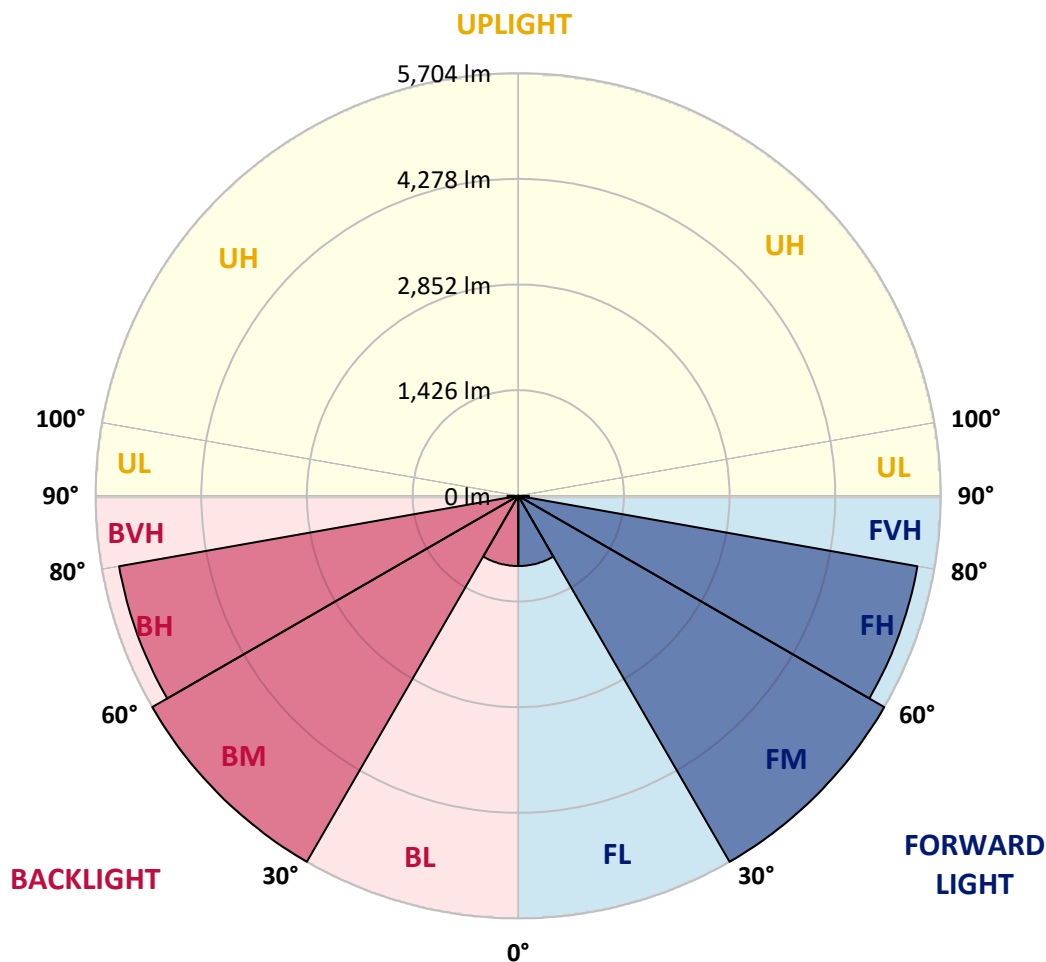
CATALOG NUMBER: ARCH4-180-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	947.2	3.9			
FM	(30°-60°)	5703.5	23.3			
FH	(60°-80°)	5470.4	22.3			G3/7500
FVH	(80°-90°)	143.9	0.6			G2/225
BL	(0°-30°)	947.2	3.9	B2/1000		
BM	(30°-60°)	5703.5	23.3	B4/8500		
BH	(60°-80°)	5470.4	22.3	B5		G3/7500
BVH	(80°-90°)	143.9	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: P841432

CATALOG NUMBER: ARCH4-180-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1710.0	1710.0	1710.0	1710.0	1710.0	1710.0	1710.0	1710.0	1710.0	1710.0	1710.0
2.5°	1732.8	1732.8	1728.2	1728.2	1719.1	1714.5	1710.0	1710.0	1705.4	1705.4	1700.9
5°	1741.9	1741.9	1741.9	1737.3	1732.8	1728.2	1719.1	1710.0	1705.4	1700.9	1696.3
7.5°	1746.5	1746.5	1741.9	1741.9	1737.3	1732.8	1719.1	1705.4	1700.9	1696.3	1696.3
10°	1782.9	1778.4	1773.8	1764.7	1764.7	1764.7	1746.5	1732.8	1728.2	1728.2	1728.2
12.5°	1869.6	1865.0	1855.9	1842.2	1842.2	1846.8	1819.4	1801.2	1801.2	1796.6	1796.6
15°	1997.2	1992.7	1983.6	1960.8	1956.2	1965.3	1924.3	1906.0	1906.0	1906.0	1901.5
17.5°	2138.6	2129.5	2115.8	2097.6	2097.6	2097.6	2056.5	2033.7	2020.0	2020.0	2015.5
20°	2257.2	2252.6	2252.6	2248.0	2261.7	2261.7	2207.0	2170.5	2138.6	2120.4	2115.8
22.5°	2362.0	2357.5	2366.6	2384.8	2412.2	2421.3	2357.5	2302.8	2252.6	2216.1	2207.0
25°	2503.4	2498.8	2494.3	2521.6	2567.2	2580.9	2512.5	2444.1	2394.0	2375.7	2366.6
27.5°	2653.9	2658.4	2663.0	2690.4	2726.8	2749.6	2681.2	2617.4	2576.4	2549.0	2539.9
30°	2822.6	2831.7	2845.4	2886.4	2913.8	2922.9	2863.6	2818.0	2781.6	2758.8	2745.1
32.5°	3036.9	3055.2	3073.4	3109.9	3123.5	3114.4	3087.1	3055.2	3027.8	2995.9	2991.3
35°	3356.1	3374.3	3369.8	3383.5	3388.0	3378.9	3365.2	3347.0	3333.3	3292.3	3287.7
37.5°	3757.4	3775.6	3748.3	3734.6	3702.7	3707.2	3702.7	3716.3	3720.9	3679.9	3675.3
40°	4163.2	4181.5	4145.0	4108.5	4076.6	4062.9	4085.7	4131.3	4131.3	4103.9	4103.9
42.5°	4596.4	4610.1	4550.8	4505.2	4464.2	4455.0	4468.7	4523.4	4537.1	4532.6	4532.6
45°	5029.6	5020.5	4943.0	4897.4	4860.9	4838.1	4842.6	4883.7	4911.0	4924.7	4924.7
47.5°	5362.5	5348.8	5285.0	5248.5	5225.7	5193.8	5193.8	5216.6	5230.2	5234.8	5234.8
50°	5626.9	5613.3	5549.4	5544.9	5544.9	5531.2	5517.5	5513.0	5503.8	5508.4	5508.4
52.5°	5854.9	5836.7	5791.1	5800.2	5841.3	5850.4	5832.1	5795.7	5759.2	5745.5	5750.1
55°	6101.2	6073.8	6037.3	6064.7	6146.8	6183.3	6155.9	6082.9	6019.1	5978.1	5978.1
57.5°	6297.3	6265.3	6265.3	6342.9	6493.3	6566.3	6507.0	6370.2	6260.8	6215.2	6219.7
60°	6160.5	6133.1	6242.5	6584.5	6867.2	6990.4	6890.0	6648.4	6470.5	6415.8	6424.9
62.5°	5891.4	5873.2	6010.0	6538.9	7204.7	7460.0	7309.6	6963.0	6698.5	6634.7	6634.7
65°	5494.7	5490.2	5681.7	6333.7	7282.2	7911.5	7783.8	7305.0	6963.0	6876.4	6894.6
67.5°	5084.3	5084.3	5257.6	5982.6	7191.0	8103.0	8203.3	7615.1	7090.7	6876.4	6880.9
70°	4359.3	4436.8	4897.4	5658.9	6858.1	7966.2	8376.6	7396.2	6534.4	6155.9	6142.2
72.5°	2872.8	2973.1	3889.6	5093.4	6529.8	7469.2	7560.4	6497.9	5426.3	4984.0	4961.2
75°	1732.8	1819.4	2521.6	3976.3	5740.9	6014.5	5613.3	5093.4	4053.8	3707.2	3707.2
77.5°	510.7	570.0	1162.8	2521.6	3971.7	3953.5	3461.0	3000.4	2398.5	2038.3	2065.6
80°	301.0	310.1	378.5	1149.1	1646.1	1732.8	1336.1	834.5	834.5	620.1	601.9
82.5°	232.6	232.6	241.7	287.3	396.7	442.3	337.4	287.3	328.3	278.2	264.5
85°	164.2	164.2	164.2	168.7	173.3	177.8	187.0	191.5	209.8	173.3	164.2
87.5°	50.2	54.7	59.3	68.4	82.1	86.6	91.2	82.1	82.1	77.5	73.0
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)