

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: P836251

Luminaire Tested: **ARCH3-160-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836251
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: ARCH3-160-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21929 lumens
Efficiency: N/A
Efficacy: 136.2 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): 161
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

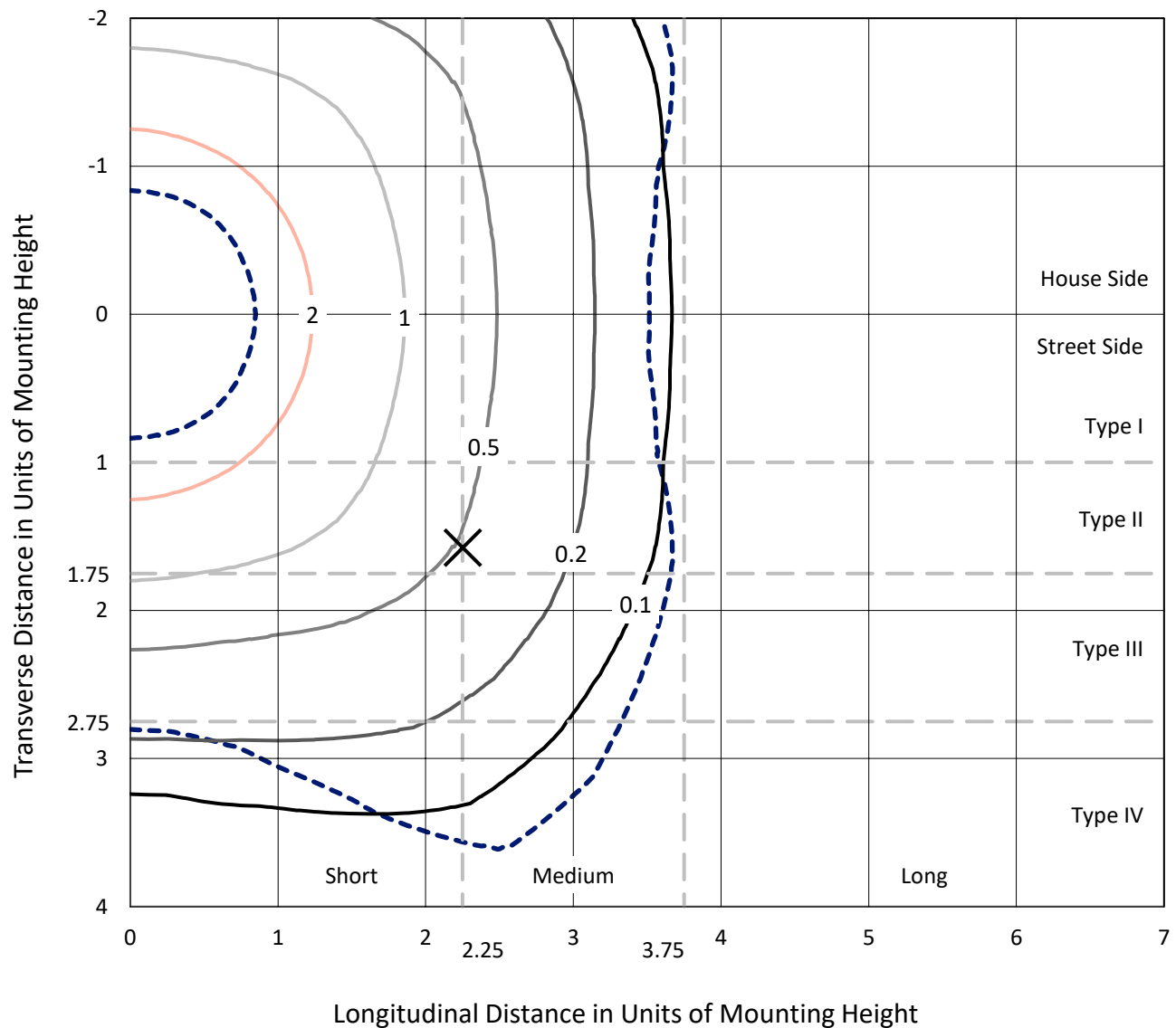


REPORT NUMBER: P836251

CATALOG NUMBER: ARCH3-160-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

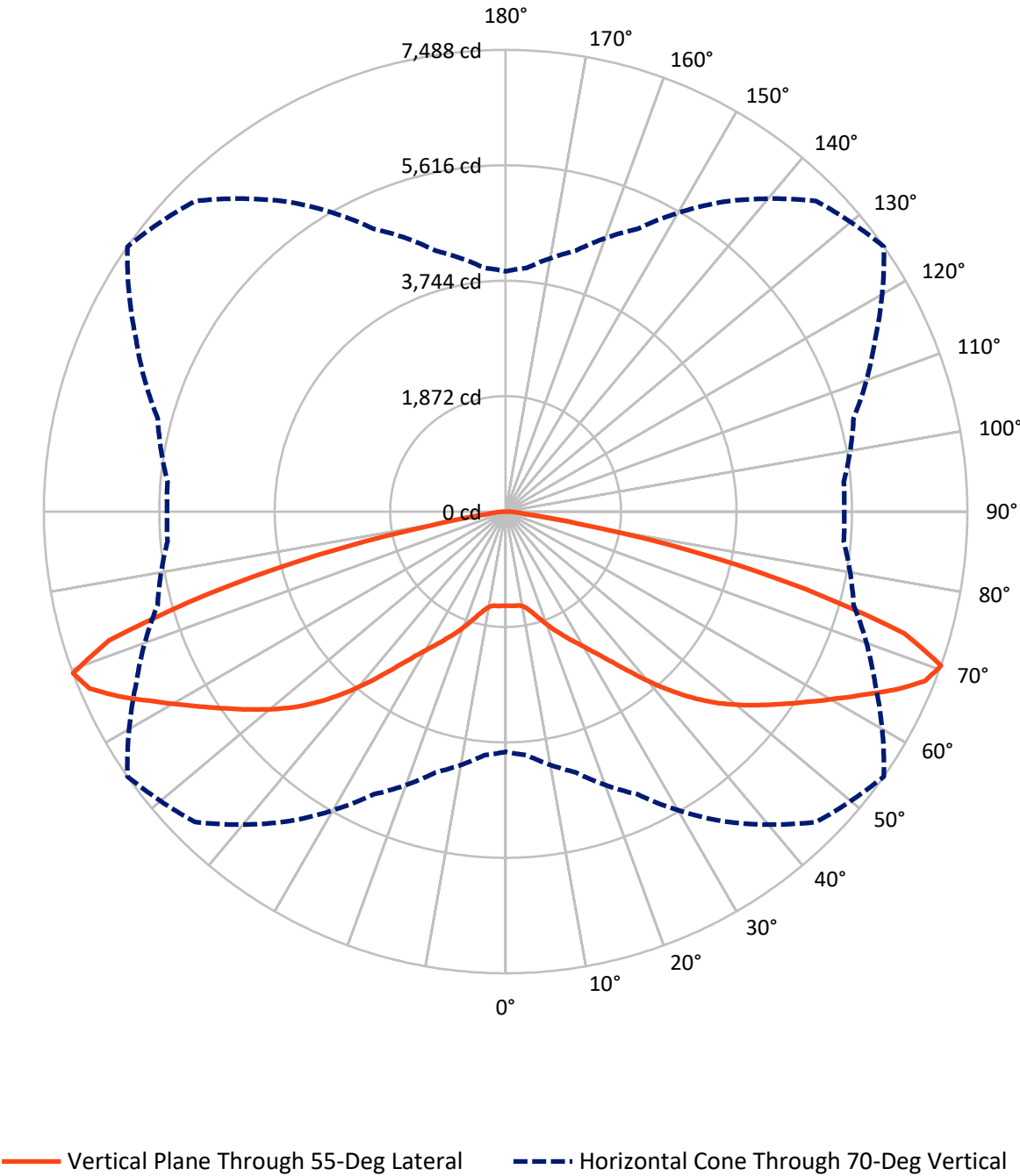
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type V - Medium - N/A

REPORT NUMBER: P836251
CATALOG NUMBER: ARCH3-160-730-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P836251

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10964.5	0.0	10964.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10964.5	0.0	10964.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21929.0	0.0	21929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	0.7
10°-20°	502.3	2.3
20°-30°	1043.6	4.8
30°-40°	1927.5	8.8
40°-50°	3386.2	15.4
50°-60°	4883.8	22.3
60°-70°	5977.2	27.3
70°-80°	3803.4	17.3
80°-90°	257.4	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°	21929.0	100.0
0°-180°	21929.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836251

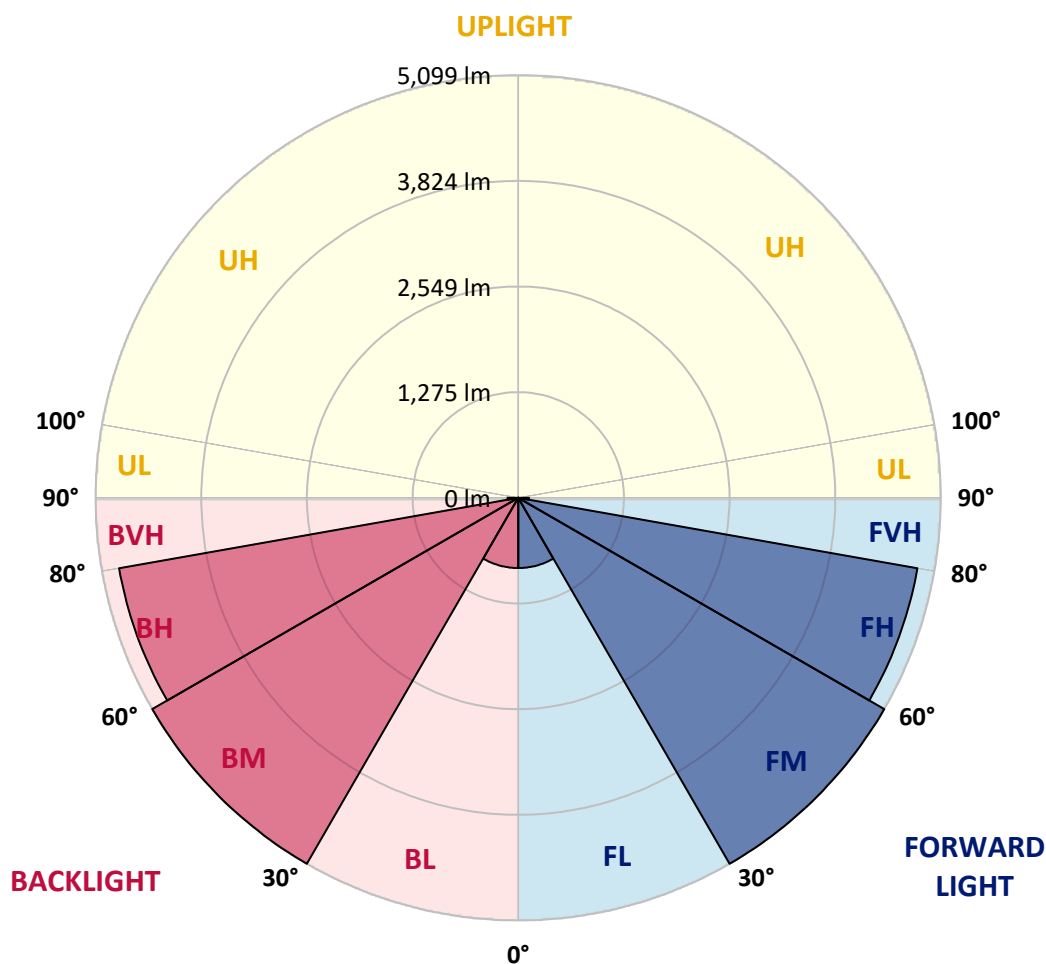
CATALOG NUMBER: ARCH3-160-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	846.7	3.9			
FM	(30°-60°)	5098.8	23.3			
FH	(60°-80°)	4890.3	22.3			G2/5000
FVH	(80°-90°)	128.7	0.6			G2/225
BL	(0°-30°)	846.7	3.9	B2/1000		
BM	(30°-60°)	5098.8	23.3	B4/8500		
BH	(60°-80°)	4890.3	22.3	B4/5000		G2/5000
BVH	(80°-90°)	128.7	0.6			G2/225
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



REPORT NUMBER: P836251

CATALOG NUMBER: ARCH3-160-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7
2.5°	1549.0	1549.0	1545.0	1545.0	1536.8	1532.7	1528.7	1528.7	1524.6	1524.6	1520.5
5°	1557.2	1557.2	1557.2	1553.1	1549.0	1545.0	1536.8	1528.7	1524.6	1520.5	1516.4
7.5°	1561.3	1561.3	1557.2	1557.2	1553.1	1549.0	1536.8	1524.6	1520.5	1516.4	1516.4
10°	1593.9	1589.8	1585.7	1577.6	1577.6	1577.6	1561.3	1549.0	1545.0	1545.0	1545.0
12.5°	1671.3	1667.3	1659.1	1646.9	1646.9	1651.0	1626.5	1610.2	1610.2	1606.1	1606.1
15°	1785.5	1781.4	1773.2	1752.9	1748.8	1756.9	1720.2	1703.9	1703.9	1703.9	1699.9
17.5°	1911.8	1903.7	1891.5	1875.2	1875.2	1875.2	1838.5	1818.1	1805.9	1805.9	1801.8
20°	2017.8	2013.8	2013.8	2009.7	2021.9	2021.9	1973.0	1940.4	1911.8	1895.5	1891.5
22.5°	2111.6	2107.5	2115.7	2132.0	2156.4	2164.6	2107.5	2058.6	2013.8	1981.1	1973.0
25°	2238.0	2233.9	2229.8	2254.3	2295.0	2307.3	2246.1	2185.0	2140.1	2123.8	2115.7
27.5°	2372.5	2376.6	2380.6	2405.1	2437.7	2458.1	2396.9	2339.9	2303.2	2278.7	2270.6
30°	2523.3	2531.5	2543.7	2580.4	2604.8	2613.0	2560.0	2519.2	2486.6	2466.2	2454.0
32.5°	2714.9	2731.2	2747.5	2780.1	2792.3	2784.2	2759.7	2731.2	2706.7	2678.2	2674.1
35°	3000.2	3016.6	3012.5	3024.7	3028.8	3020.6	3008.4	2992.1	2979.9	2943.2	2939.1
37.5°	3359.0	3375.3	3350.8	3338.6	3310.1	3314.1	3310.1	3322.3	3326.4	3289.7	3285.6
40°	3721.8	3738.1	3705.5	3672.9	3644.3	3632.1	3652.5	3693.2	3693.2	3668.8	3668.8
42.5°	4109.0	4121.3	4068.3	4027.5	3990.8	3982.7	3994.9	4043.8	4056.0	4052.0	4052.0
45°	4496.3	4488.1	4418.8	4378.1	4345.5	4325.1	4329.2	4365.8	4390.3	4402.5	4402.5
47.5°	4793.9	4781.6	4724.6	4692.0	4671.6	4643.0	4643.0	4663.4	4675.7	4679.7	4679.7
50°	5030.3	5018.1	4961.0	4956.9	4956.9	4944.7	4932.5	4928.4	4920.2	4924.3	4924.3
52.5°	5234.1	5217.8	5177.1	5185.2	5221.9	5230.0	5213.7	5181.1	5148.5	5136.3	5140.4
55°	5454.3	5429.8	5397.2	5421.6	5495.0	5527.6	5503.2	5437.9	5380.9	5344.2	5344.2
57.5°	5629.5	5601.0	5601.0	5670.3	5804.8	5870.0	5817.1	5694.8	5596.9	5556.2	5560.2
60°	5507.2	5482.8	5580.6	5886.4	6139.1	6249.2	6159.5	5943.4	5784.4	5735.5	5743.7
62.5°	5266.7	5250.4	5372.7	5845.6	6440.7	6669.0	6534.5	6224.7	5988.3	5931.2	5931.2
65°	4912.1	4908.0	5079.2	5662.1	6510.0	7072.6	6958.5	6530.4	6224.7	6147.2	6163.5
67.5°	4545.2	4545.2	4700.1	5348.3	6428.5	7243.8	7333.5	6807.6	6338.8	6147.2	6151.3
70°	3897.1	3966.4	4378.1	5058.8	6130.9	7121.5	7488.4	6612.0	5841.5	5503.2	5490.9
72.5°	2568.1	2657.8	3477.2	4553.4	5837.4	6677.2	6758.7	5808.9	4850.9	4455.5	4435.1
75°	1549.0	1626.5	2254.3	3554.6	5132.2	5376.8	5018.1	4553.4	3623.9	3314.1	3314.1
77.5°	456.6	509.6	1039.5	2254.3	3550.6	3534.3	3094.0	2682.3	2144.2	1822.2	1846.6
80°	269.0	277.2	338.3	1027.3	1471.6	1549.0	1194.4	746.0	746.0	554.4	538.1
82.5°	207.9	207.9	216.1	256.8	354.6	395.4	301.7	256.8	293.5	248.7	236.4
85°	146.8	146.8	146.8	150.8	154.9	159.0	167.1	171.2	187.5	154.9	146.8
87.5°	44.8	48.9	53.0	61.1	73.4	77.5	81.5	73.4	73.4	69.3	65.2
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)