

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: P265724

Luminaire Tested: **ARCH-L-AF72-260-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-5WQ-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25895.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 261
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: 28.75 FT

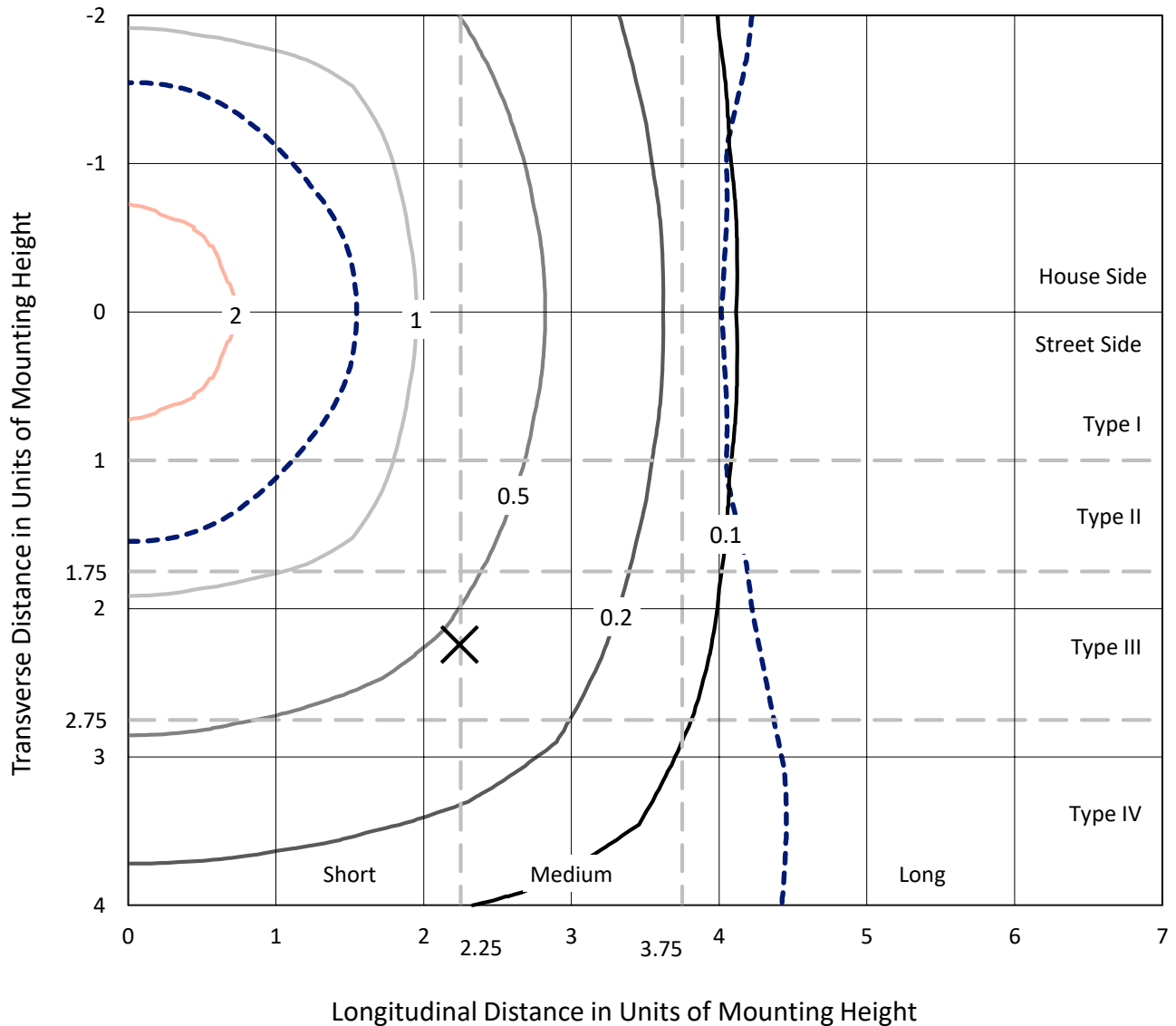


REPORT NUMBER: P265724

CATALOG NUMBER: ARCH-L-AF72-260-D-U-5WQ-7027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

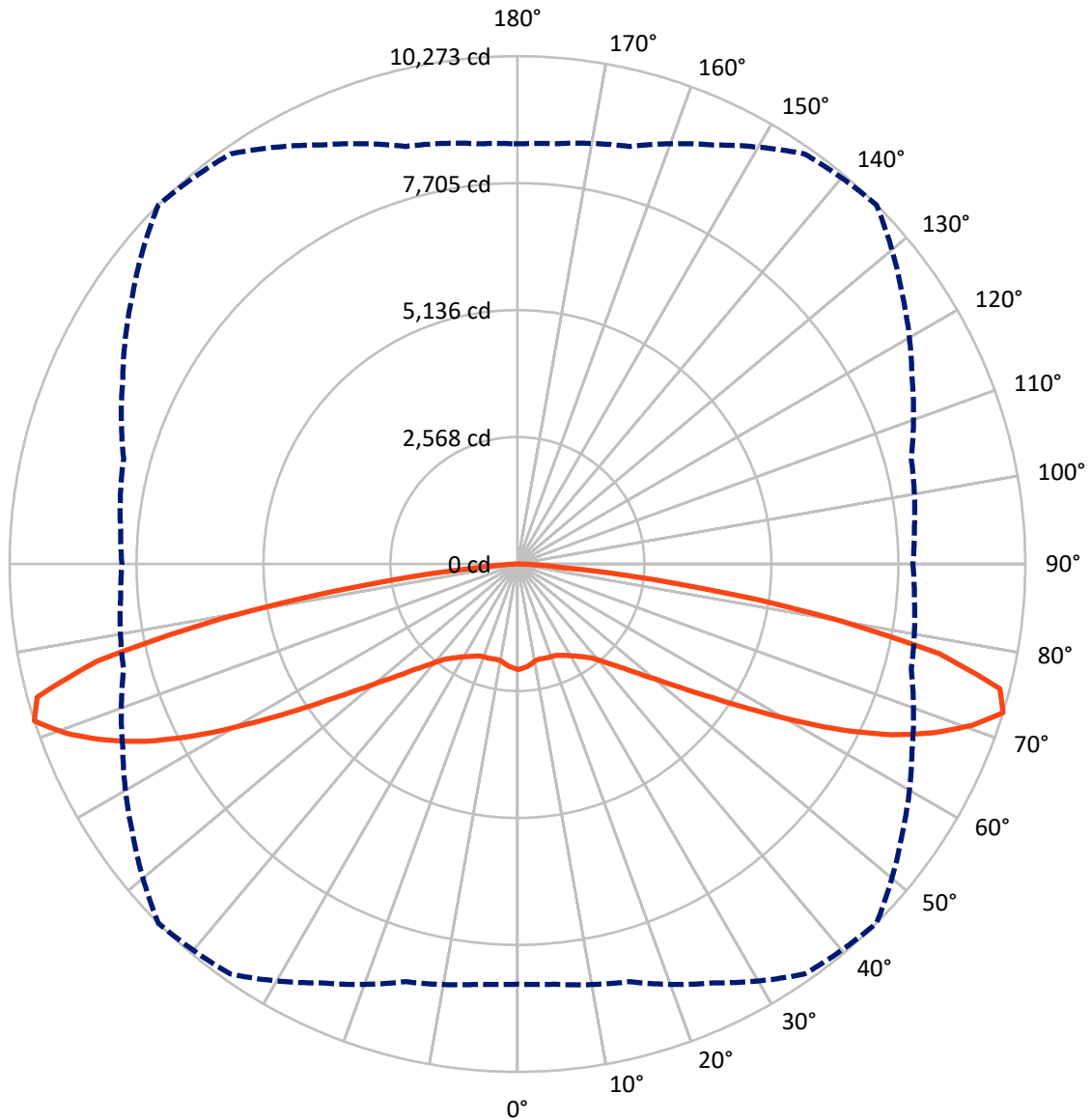


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P265724

CATALOG NUMBER: ARCH-L-AF72-260-D-U-5WQ-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P265724

CATALOG NUMBER: ARCH-L-AF72-260-D-U-5WQ-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12947.7	0.0	12947.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12947.7	0.0	12947.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	25895.4	0.0	25895.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	0.8
10°-20°	566.6	2.2
20°-30°	948.2	3.7
30°-40°	1457.0	5.6
40°-50°	2412.4	9.3
50°-60°	4288.8	16.6
60°-70°	7503.1	29.0
70°-80°	7633.8	29.5
80°-90°	888.9	3.4
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°	25895.4	100.0
0°-180°	25895.4	100.0



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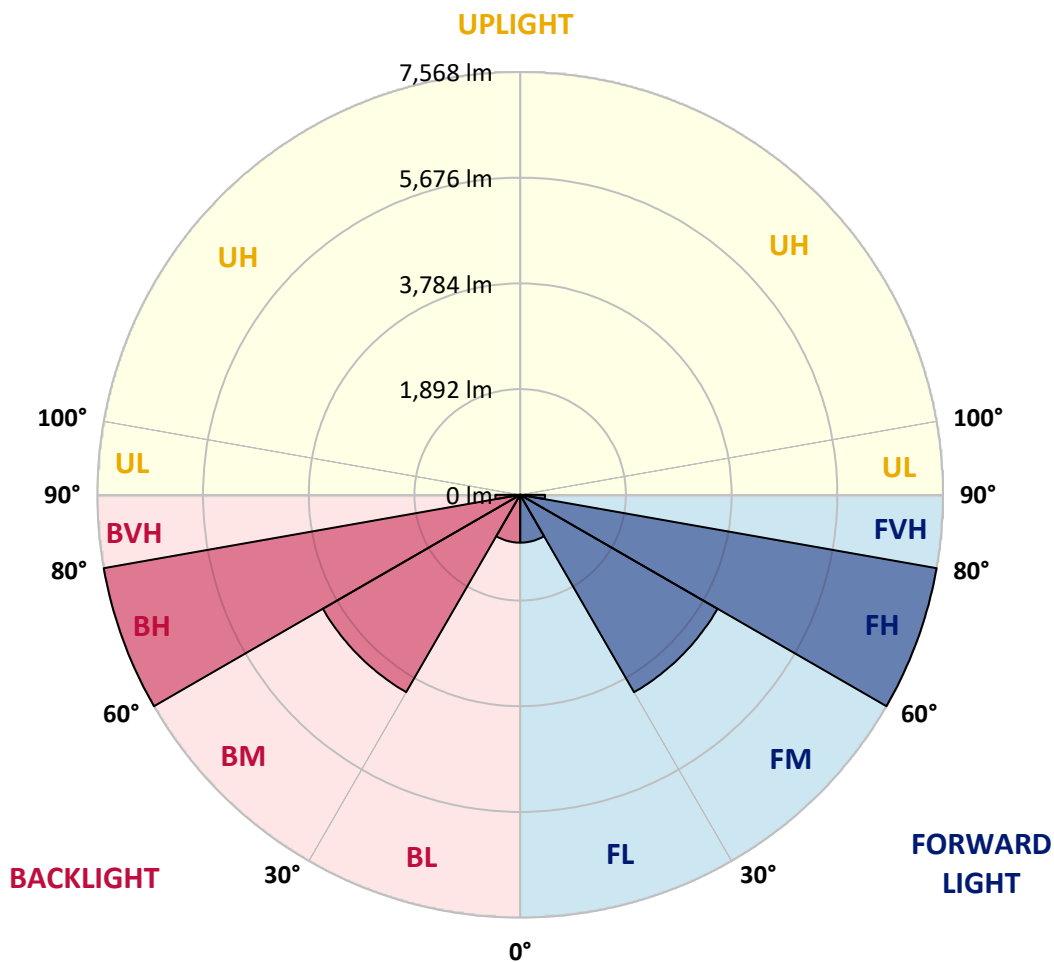
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	855.6	3.3			
FM	(30°-60°)	4079.1	15.8			
FH	(60°-80°)	7568.5	29.2			G4/12000
FVH	(80°-90°)	444.5	1.7			G3/500
BL	(0°-30°)	855.6	3.3	B2/1000		
BM	(30°-60°)	4079.1	15.8	B3/5000		
BH	(60°-80°)	7568.5	29.2	B5		G4/12000
BVH	(80°-90°)	444.5	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P265724

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5
2.5°	2114.7	2119.6	2109.7	2109.7	2109.7	2104.8	2109.7	2104.8	2109.7	2114.7	2114.7
5°	2094.9	2094.9	2085.1	2085.1	2085.1	2080.1	2085.1	2085.1	2090.0	2094.9	2094.9
7.5°	2050.7	2050.7	2045.7	2040.7	2035.7	2035.7	2040.7	2040.7	2045.7	2050.7	2050.7
10°	2025.9	2020.9	2011.1	1996.4	1991.5	1986.5	1996.4	2006.3	2020.9	2035.7	2030.9
12.5°	2016.1	2011.1	1991.5	1976.6	1966.7	1971.7	1981.7	1991.5	2016.1	2030.9	2025.9
15°	2025.9	2016.1	1991.5	1966.7	1971.7	1981.7	1991.5	1991.5	2020.9	2035.7	2035.7
17.5°	2025.9	2020.9	1991.5	1971.7	1976.6	1991.5	1996.4	1991.5	2016.1	2040.7	2040.7
20°	2030.9	2030.9	1991.5	1976.6	1981.7	1996.4	2001.3	1996.4	2016.1	2045.7	2045.7
22.5°	2040.7	2035.7	1996.4	1986.5	1996.4	2006.3	2011.1	2006.3	2025.9	2050.7	2055.5
25°	2060.4	2050.7	2016.1	2011.1	2030.9	2045.7	2045.7	2035.7	2045.7	2070.4	2070.4
27.5°	2085.1	2080.1	2040.7	2040.7	2065.4	2094.9	2080.1	2060.4	2070.4	2094.9	2094.9
30°	2129.4	2124.5	2085.1	2085.1	2119.6	2154.0	2119.6	2094.9	2109.7	2134.5	2139.4
32.5°	2193.5	2193.5	2159.0	2149.1	2208.4	2223.1	2208.4	2159.0	2168.9	2203.5	2203.5
35°	2301.9	2292.1	2257.6	2252.7	2311.9	2306.8	2301.9	2257.6	2267.5	2306.8	2306.8
37.5°	2444.9	2439.9	2410.4	2395.6	2425.2	2405.5	2415.4	2395.6	2420.3	2449.9	2454.8
40°	2627.4	2622.4	2597.8	2578.0	2587.8	2558.4	2568.2	2578.0	2602.7	2622.4	2627.4
42.5°	2854.1	2854.1	2829.4	2794.8	2780.2	2765.3	2765.3	2785.0	2809.7	2834.3	2834.3
45°	3135.1	3135.1	3105.4	3070.9	3026.6	3002.0	3011.7	3031.5	3061.1	3090.7	3100.5
47.5°	3465.3	3465.3	3425.9	3391.3	3346.9	3317.4	3317.4	3327.3	3371.7	3396.3	3411.0
50°	3835.0	3820.2	3780.7	3746.2	3721.6	3682.2	3687.2	3682.2	3721.6	3756.2	3766.0
52.5°	4219.5	4214.6	4175.1	4165.3	4180.1	4160.3	4160.3	4111.1	4125.8	4145.6	4140.6
55°	4697.5	4682.9	4648.3	4668.0	4727.2	4756.7	4747.0	4668.0	4623.7	4633.5	4628.5
57.5°	5220.1	5205.3	5195.4	5254.6	5387.8	5510.9	5486.3	5304.0	5220.1	5225.0	5230.0
60°	5752.4	5752.4	5782.1	5929.9	6215.8	6417.9	6344.0	6038.3	5890.5	5860.9	5851.1
62.5°	6299.6	6314.5	6378.5	6625.0	7063.7	7398.9	7211.6	6777.8	6556.0	6496.8	6477.0
65°	6935.5	6950.2	7044.0	7349.6	7931.2	8330.5	8010.0	7601.0	7290.5	7167.1	7147.5
67.5°	7857.3	7867.1	7941.0	8236.9	8783.9	9104.4	8774.1	8409.4	8074.1	7931.2	7921.3
70°	8685.4	8695.2	8759.4	9148.8	9651.6	9764.9	9400.1	8936.8	8586.8	8473.4	8453.7
72.5°	8498.1	8532.6	8744.6	9350.8	10124.7	10272.7	9503.7	8808.6	8246.7	8059.5	8000.2
75°	7127.7	7181.9	7517.1	8429.1	9661.5	10080.4	8892.4	7615.7	6777.8	6417.9	6324.2
77.5°	4160.3	4362.3	4939.2	6107.3	7867.1	8719.8	7324.9	5575.1	4165.3	3573.7	3376.5
80°	1138.7	1247.0	1666.0	2809.7	4934.2	6107.3	4673.0	2558.4	1380.2	1035.1	961.1
82.5°	359.9	478.2	606.3	808.5	1937.3	3218.8	1735.0	754.1	591.5	488.0	433.8
85°	192.2	207.0	340.1	394.4	581.7	902.1	537.2	394.4	354.9	261.2	246.4
87.5°	98.5	103.6	192.2	192.2	256.3	212.0	231.7	212.0	202.1	128.2	113.4
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)