

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: P841324

Luminaire Tested: **ARCH4-160-740-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841324
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: ARCH4-160-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26835 lumens
Efficiency: N/A
Efficacy: 167.0 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): 160.7
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

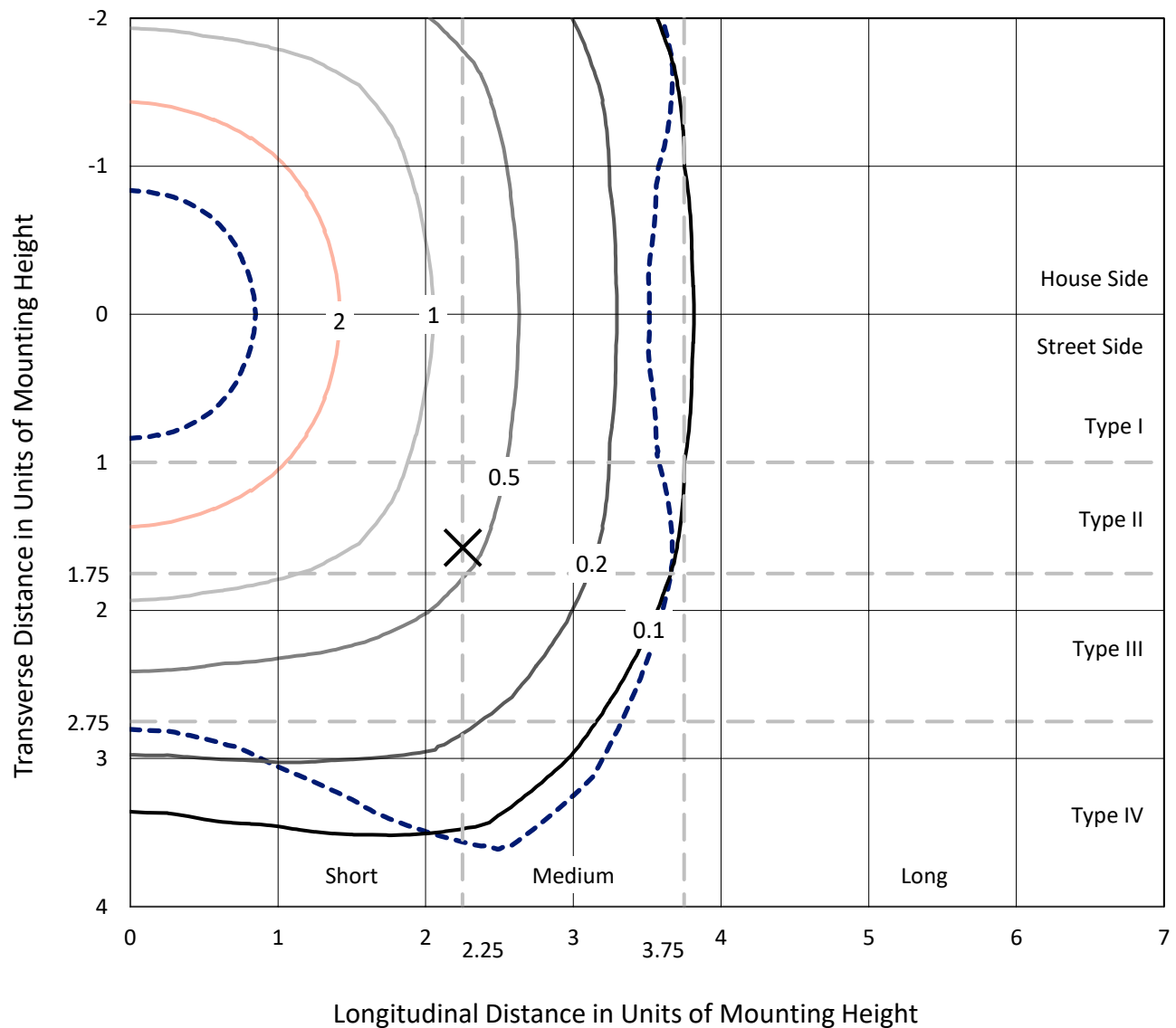


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

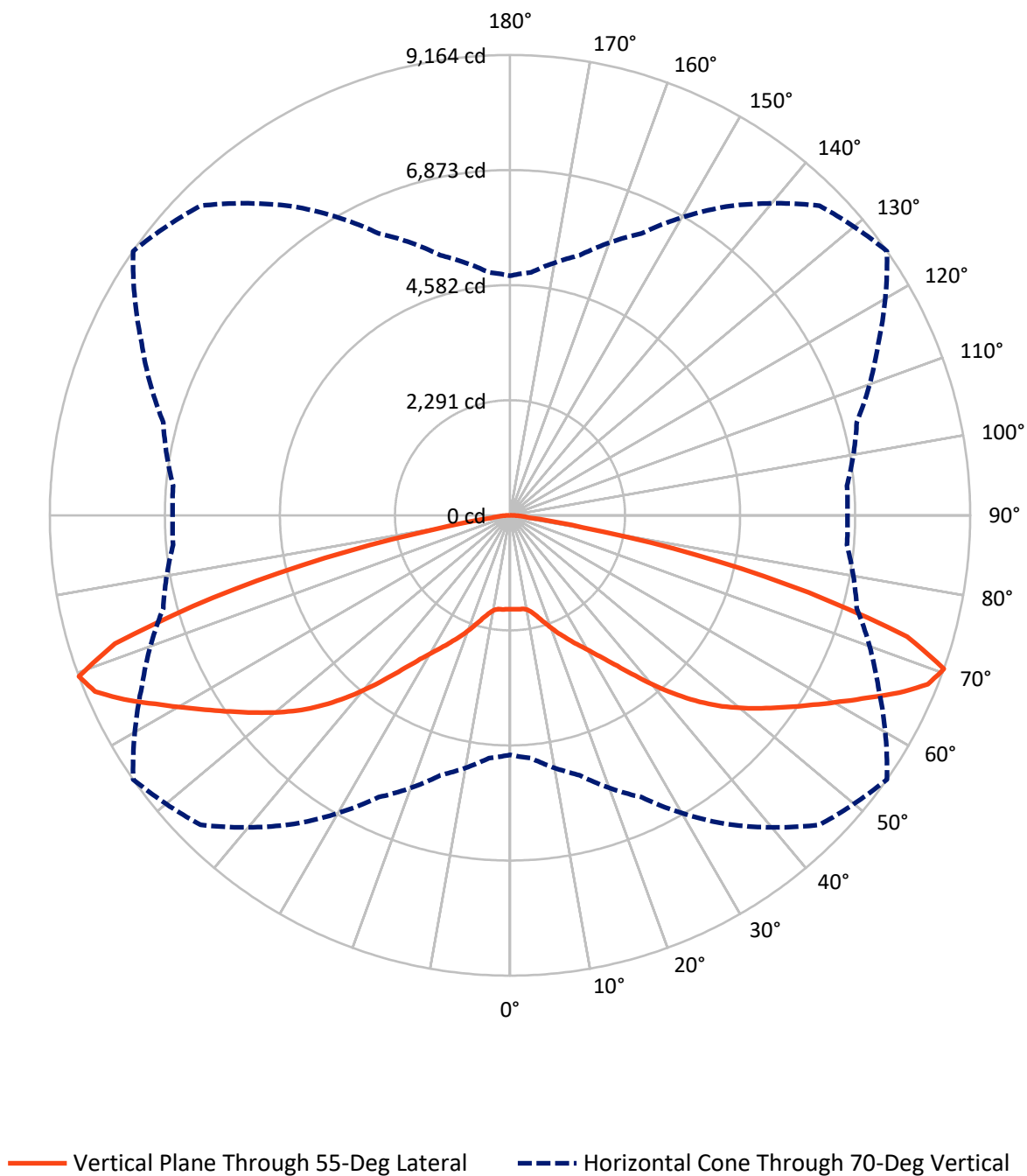


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13417.5	0.0	13417.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13417.5	0.0	13417.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26835.0	0.0	26835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	0.7
10°-20°	614.6	2.3
20°-30°	1277.1	4.8
30°-40°	2358.8	8.8
40°-50°	4143.8	15.4
50°-60°	5976.4	22.3
60°-70°	7314.4	27.3
70°-80°	4654.3	17.3
80°-90°	314.9	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°	26835.0	100.0
0°-180°	26835.0	100.0

Coefficient of Utilization



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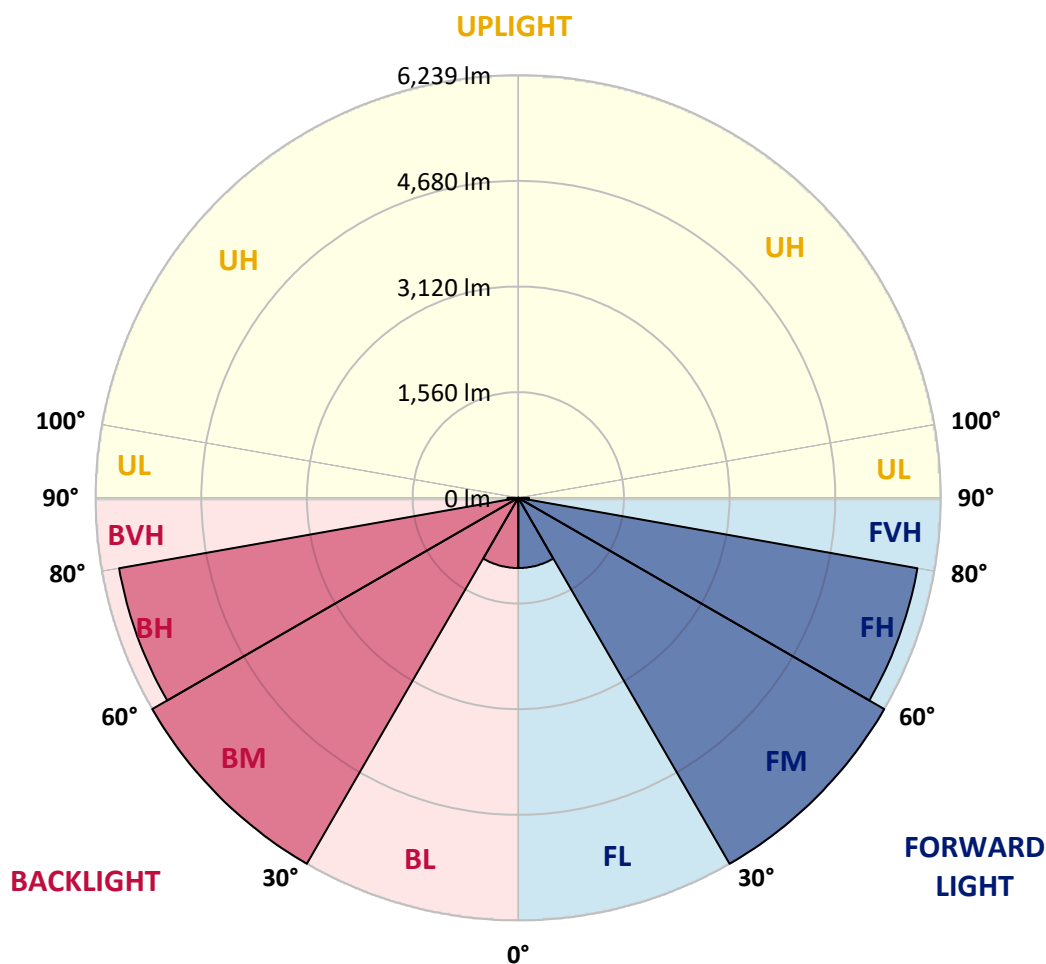
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1036.2	3.9			
FM	(30°-60°)	6239.5	23.3			
FH	(60°-80°)	5984.4	22.3			G3/7500
FVH	(80°-90°)	157.5	0.6			G2/225
BL	(0°-30°)	1036.2	3.9	B3/2500		
BM	(30°-60°)	6239.5	23.3	B4/8500		
BH	(60°-80°)	5984.4	22.3	B5		G3/7500
BVH	(80°-90°)	157.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1870.7	1870.7	1870.7	1870.7	1870.7	1870.7	1870.7	1870.7	1870.7	1870.7	1870.7
2.5°	1895.6	1895.6	1890.6	1890.6	1880.6	1875.6	1870.7	1870.7	1865.7	1865.7	1860.7
5°	1905.6	1905.6	1905.6	1900.6	1895.6	1890.6	1880.6	1870.7	1865.7	1860.7	1855.7
7.5°	1910.6	1910.6	1905.6	1905.6	1900.6	1895.6	1880.6	1865.7	1860.7	1855.7	1855.7
10°	1950.5	1945.5	1940.5	1930.5	1930.5	1930.5	1910.6	1895.6	1890.6	1890.6	1890.6
12.5°	2045.2	2040.3	2030.3	2015.3	2015.3	2020.3	1990.4	1970.4	1970.4	1965.4	1965.4
15°	2184.9	2179.9	2170.0	2145.0	2140.0	2150.0	2105.1	2085.2	2085.2	2085.2	2080.2
17.5°	2339.6	2329.6	2314.6	2294.7	2294.7	2294.7	2249.8	2224.8	2209.9	2209.9	2204.9
20°	2469.3	2464.3	2464.3	2459.3	2474.2	2474.2	2414.4	2374.5	2339.6	2319.6	2314.6
22.5°	2584.0	2579.0	2589.0	2608.9	2638.9	2648.8	2579.0	2519.1	2464.3	2424.4	2414.4
25°	2738.6	2733.6	2728.7	2758.6	2808.5	2823.4	2748.6	2673.8	2618.9	2599.0	2589.0
27.5°	2903.3	2908.2	2913.2	2943.2	2983.1	3008.0	2933.2	2863.3	2818.4	2788.5	2778.5
30°	3087.8	3097.8	3112.8	3157.7	3187.6	3197.6	3132.7	3082.8	3042.9	3018.0	3003.0
32.5°	3322.3	3342.2	3362.2	3402.1	3417.1	3407.1	3377.2	3342.2	3312.3	3277.4	3272.4
35°	3671.5	3691.4	3686.4	3701.4	3706.4	3696.4	3681.4	3661.5	3646.5	3601.6	3596.6
37.5°	4110.4	4130.4	4100.5	4085.5	4050.6	4055.6	4050.6	4065.6	4070.5	4025.6	4020.7
40°	4554.4	4574.4	4534.5	4494.6	4459.6	4444.7	4469.6	4519.5	4519.5	4489.6	4489.6
42.5°	5028.3	5043.3	4978.4	4928.5	4883.7	4873.7	4888.6	4948.5	4963.5	4958.5	4958.5
45°	5502.2	5492.2	5407.4	5357.5	5317.6	5292.7	5297.7	5342.6	5372.5	5387.5	5387.5
47.5°	5866.4	5851.4	5781.6	5741.7	5716.7	5681.8	5681.8	5706.7	5721.7	5726.7	5726.7
50°	6155.7	6140.7	6070.9	6065.9	6065.9	6050.9	6036.0	6031.0	6021.0	6026.0	6026.0
52.5°	6405.1	6385.2	6335.3	6345.3	6390.1	6400.1	6380.2	6340.3	6300.4	6285.4	6290.4
55°	6674.5	6644.6	6604.7	6634.6	6724.4	6764.3	6734.3	6654.5	6584.7	6539.8	6539.8
57.5°	6889.0	6854.1	6854.1	6938.9	7103.5	7183.3	7118.5	6968.8	6849.1	6799.2	6804.2
60°	6739.3	6709.4	6829.1	7203.3	7512.5	7647.2	7537.5	7273.1	7078.5	7018.7	7028.7
62.5°	6445.0	6425.1	6574.7	7153.4	7881.7	8161.0	7996.4	7617.3	7328.0	7258.1	7258.1
65°	6011.0	6006.0	6215.6	6928.9	7966.5	8654.9	8515.2	7991.4	7617.3	7522.5	7542.5
67.5°	5562.1	5562.1	5751.6	6544.8	7866.7	8864.4	8974.1	8330.6	7757.0	7522.5	7527.5
70°	4768.9	4853.7	5357.5	6190.6	7502.6	8714.7	9163.7	8091.2	7148.4	6734.3	6719.4
72.5°	3142.7	3252.4	4255.1	5572.1	7143.4	8171.0	8270.8	7108.5	5936.2	5452.3	5427.4
75°	1895.6	1990.4	2758.6	4349.9	6280.4	6579.7	6140.7	5572.1	4434.7	4055.6	4055.6
77.5°	558.7	623.6	1272.0	2758.6	4344.9	4324.9	3786.2	3282.4	2623.9	2229.8	2259.7
80°	329.2	339.2	414.0	1257.1	1800.8	1895.6	1461.6	912.9	912.9	678.4	658.5
82.5°	254.4	254.4	264.4	314.3	434.0	483.9	369.1	314.3	359.2	304.3	289.3
85°	179.6	179.6	179.6	184.6	189.6	194.5	204.5	209.5	229.5	189.6	179.6
87.5°	54.9	59.9	64.8	74.8	89.8	94.8	99.8	89.8	89.8	84.8	79.8
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)