

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: P842341

Luminaire Tested: **ARCH4-300-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842341
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: ARCH4-300-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43165 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

Input Watts (W): 299.2
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

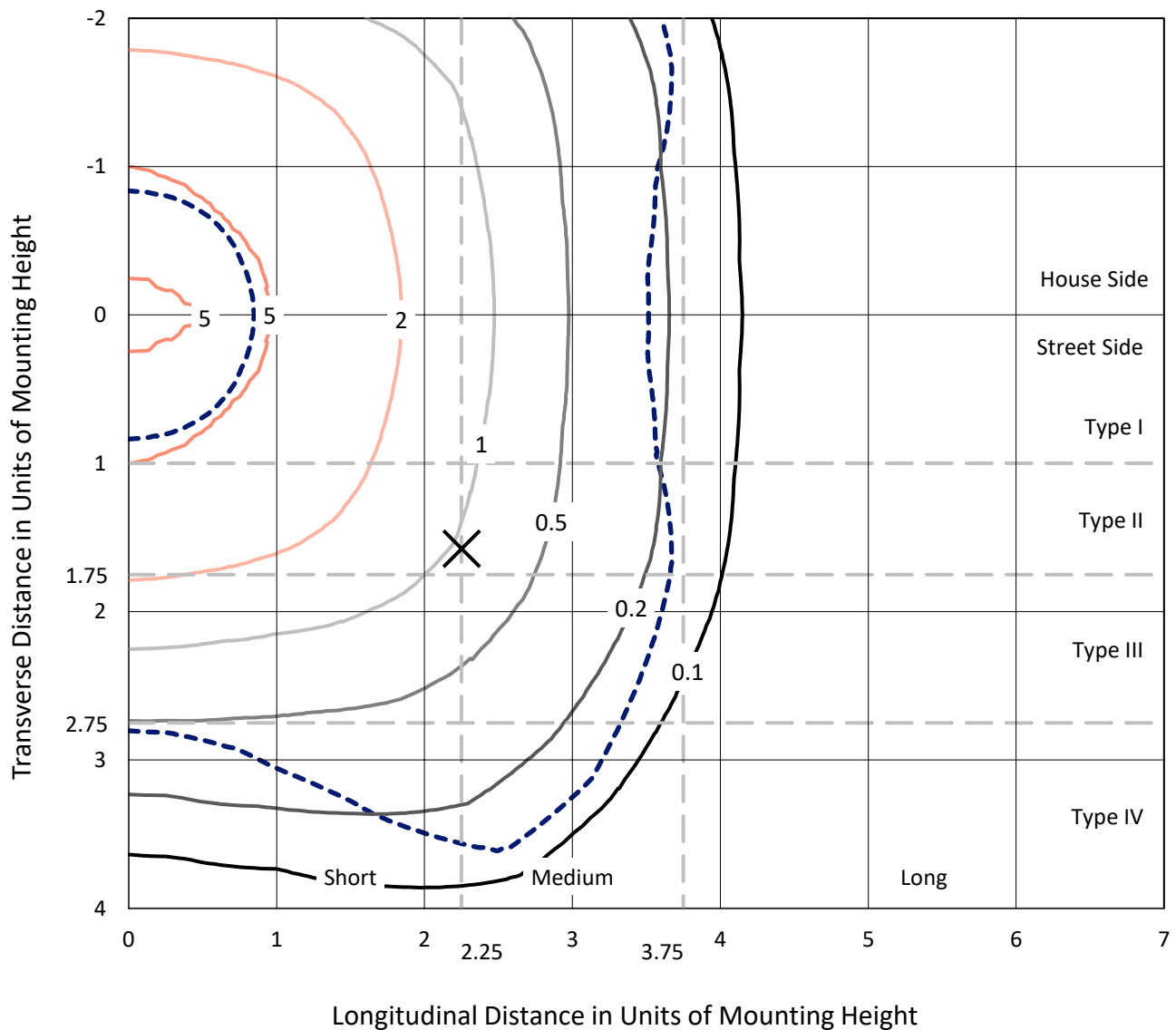


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Iso-Footcandle Lines of Horizontal Illumination

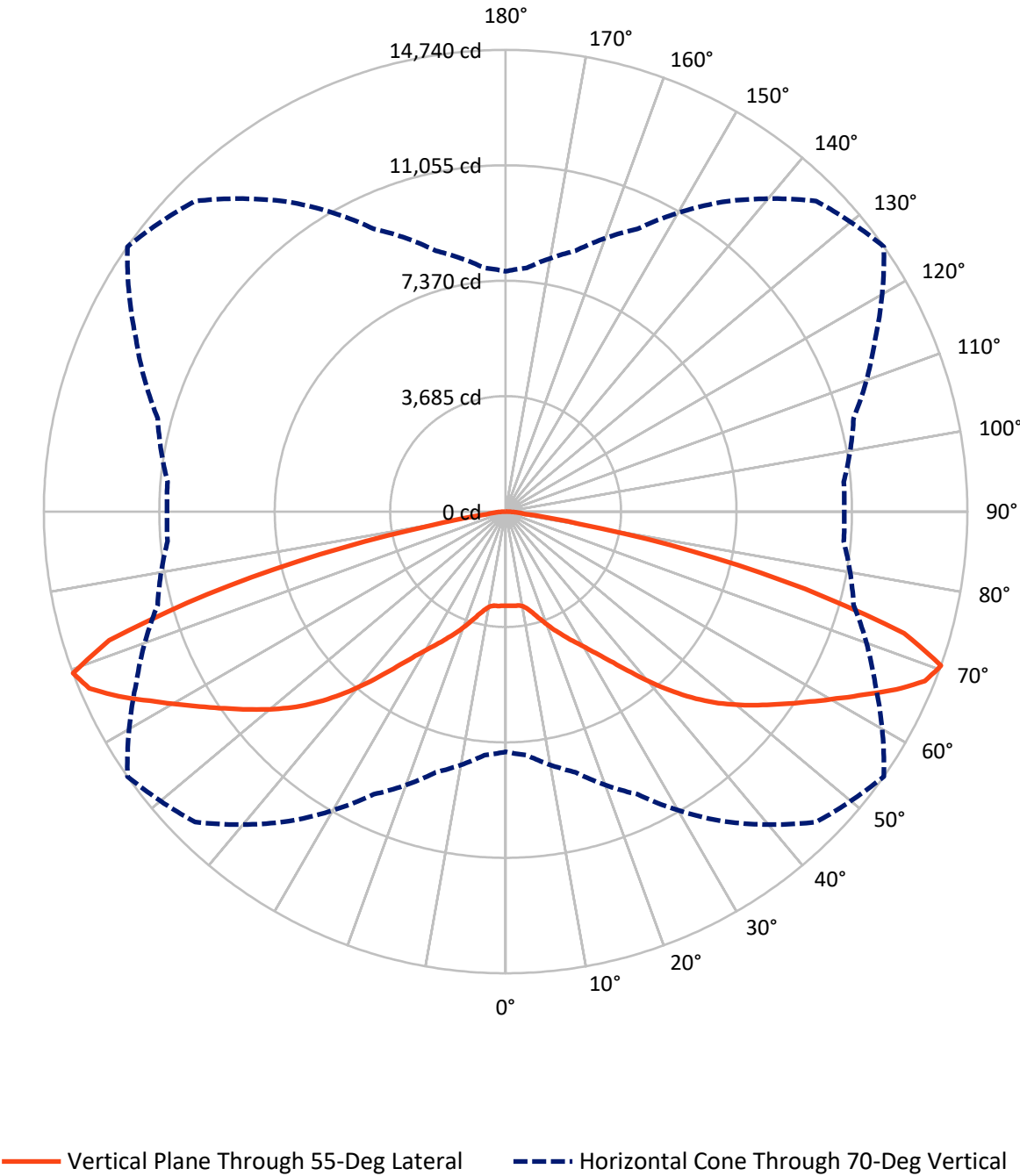
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	21582.5	0.0	21582.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21582.5	0.0	21582.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43165.0	0.0	43165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	0.7
10°-20°	988.6	2.3
20°-30°	2054.3	4.8
30°-40°	3794.1	8.8
40°-50°	6665.5	15.4
50°-60°	9613.2	22.3
60°-70°	11765.5	27.3
70°-80°	7486.6	17.3
80°-90°	506.6	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°	43165.0	100.0
0°-180°	43165.0	100.0

Coefficient of Utilization



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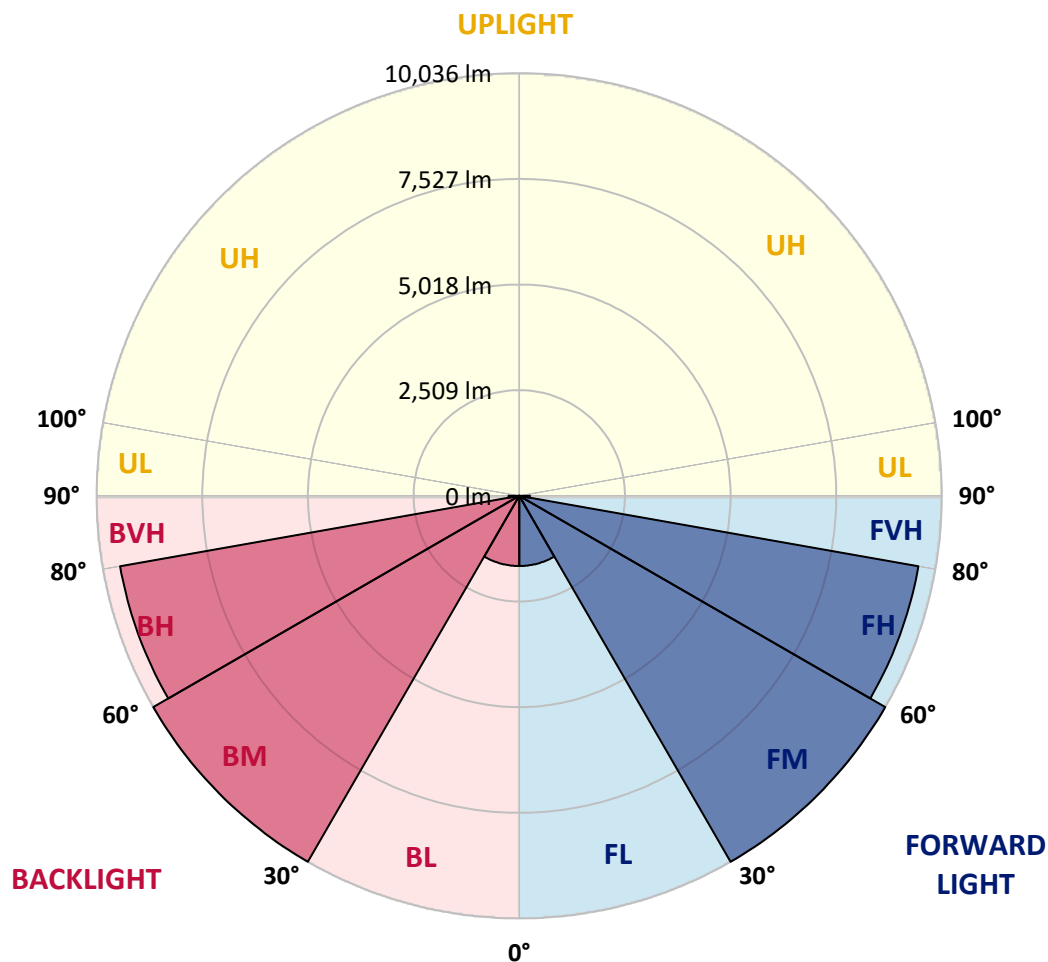
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1666.7	3.9			
FM	(30°-60°)	10036.4	23.3			
FH	(60°-80°)	9626.1	22.3			G4/12000
FVH	(80°-90°)	253.3	0.6			G3/500
BL	(0°-30°)	1666.7	3.9	B3/2500		
BM	(30°-60°)	10036.4	23.3	B5		
BH	(60°-80°)	9626.1	22.3	B5		G4/12000
BVH	(80°-90°)	253.3	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0	3009.0
2.5°	3049.1	3049.1	3041.1	3041.1	3025.1	3017.0	3009.0	3009.0	3001.0	3001.0	2993.0
5°	3065.2	3065.2	3065.2	3057.2	3049.1	3041.1	3025.1	3009.0	3001.0	2993.0	2984.9
7.5°	3073.2	3073.2	3065.2	3065.2	3057.2	3049.1	3025.1	3001.0	2993.0	2984.9	2984.9
10°	3137.4	3129.4	3121.3	3105.3	3105.3	3105.3	3073.2	3049.1	3041.1	3041.1	3041.1
12.5°	3289.8	3281.8	3265.8	3241.7	3241.7	3249.7	3201.6	3169.5	3169.5	3161.5	3161.5
15°	3514.5	3506.5	3490.4	3450.3	3442.3	3458.4	3386.1	3354.0	3354.0	3354.0	3346.0
17.5°	3763.3	3747.2	3723.1	3691.0	3691.0	3691.0	3618.8	3578.7	3554.6	3554.6	3546.6
20°	3971.9	3963.9	3963.9	3955.8	3979.9	3979.9	3883.6	3819.4	3763.3	3731.2	3723.1
22.5°	4156.4	4148.4	4164.5	4196.6	4244.7	4260.8	4148.4	4052.1	3963.9	3899.7	3883.6
25°	4405.2	4397.2	4389.1	4437.3	4517.5	4541.6	4421.2	4300.9	4212.6	4180.5	4164.5
27.5°	4670.0	4678.0	4686.0	4734.2	4798.4	4838.5	4718.1	4605.8	4533.6	4485.4	4469.4
30°	4966.9	4982.9	5007.0	5079.2	5127.3	5143.4	5039.1	4958.8	4894.7	4854.5	4830.5
32.5°	5344.0	5376.1	5408.2	5472.4	5496.5	5480.4	5432.3	5376.1	5327.9	5271.8	5263.8
35°	5905.7	5937.8	5929.8	5953.8	5961.8	5945.8	5921.7	5889.6	5865.6	5793.3	5785.3
37.5°	6611.8	6643.9	6595.7	6571.7	6515.5	6523.5	6515.5	6539.6	6547.6	6475.4	6467.4
40°	7325.9	7358.0	7293.8	7229.6	7173.5	7149.4	7189.5	7269.8	7269.8	7221.6	7221.6
42.5°	8088.2	8112.3	8008.0	7927.7	7855.5	7839.5	7863.5	7959.8	7983.9	7975.9	7975.9
45°	8850.5	8834.4	8698.0	8617.8	8553.6	8513.5	8521.5	8593.7	8641.9	8665.9	8665.9
47.5°	9436.2	9412.2	9299.8	9235.6	9195.5	9139.4	9139.4	9179.5	9203.6	9211.6	9211.6
50°	9901.6	9877.6	9765.2	9757.2	9757.2	9733.1	9709.1	9701.0	9685.0	9693.0	9693.0
52.5°	10302.8	10270.7	10190.5	10206.6	10278.8	10294.8	10262.7	10198.5	10134.3	10110.3	10118.3
55°	10736.1	10688.0	10623.8	10671.9	10816.4	10880.6	10832.4	10704.0	10591.7	10519.5	10519.5
57.5°	11081.2	11025.0	11025.0	11161.4	11426.2	11554.6	11450.3	11209.6	11017.0	10936.7	10944.8
60°	10840.5	10792.3	10984.9	11586.7	12084.2	12300.8	12124.3	11699.0	11386.1	11289.8	11305.8
62.5°	10367.0	10334.9	10575.7	11506.4	12678.0	13127.3	12862.5	12252.7	11787.3	11674.9	11674.9
65°	9668.9	9660.9	9997.9	11145.4	12814.4	13921.7	13697.0	12854.5	12252.7	12100.2	12132.3
67.5°	8946.8	8946.8	9251.7	10527.5	12653.9	14258.7	14435.2	13400.1	12477.4	12100.2	12108.2
70°	7671.0	7807.4	8617.8	9957.8	12068.1	14018.0	14740.1	13015.0	11498.4	10832.4	10808.4
72.5°	5055.1	5231.7	6844.5	8962.8	11490.4	13143.3	13303.8	11434.2	9548.6	8770.3	8730.1
75°	3049.1	3201.6	4437.3	6996.9	10102.2	10583.7	9877.6	8962.8	7133.4	6523.5	6523.5
77.5°	898.7	1003.0	2046.1	4437.3	6988.9	6956.8	6090.2	5279.8	4220.6	3586.7	3634.9
80°	529.6	545.6	666.0	2022.1	2896.7	3049.1	2351.0	1468.4	1468.4	1091.3	1059.2
82.5°	409.2	409.2	425.3	505.5	698.1	778.3	593.8	505.5	577.7	489.5	465.4
85°	288.9	288.9	288.9	296.9	304.9	312.9	329.0	337.0	369.1	304.9	288.9
87.5°	88.3	96.3	104.3	120.4	144.4	152.5	160.5	144.4	144.4	136.4	128.4
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)