

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: P842314

Luminaire Tested: **ARCH4-300-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842314
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: ARCH4-300-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41110 lumens
Efficiency: N/A
Efficacy: 137.4 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



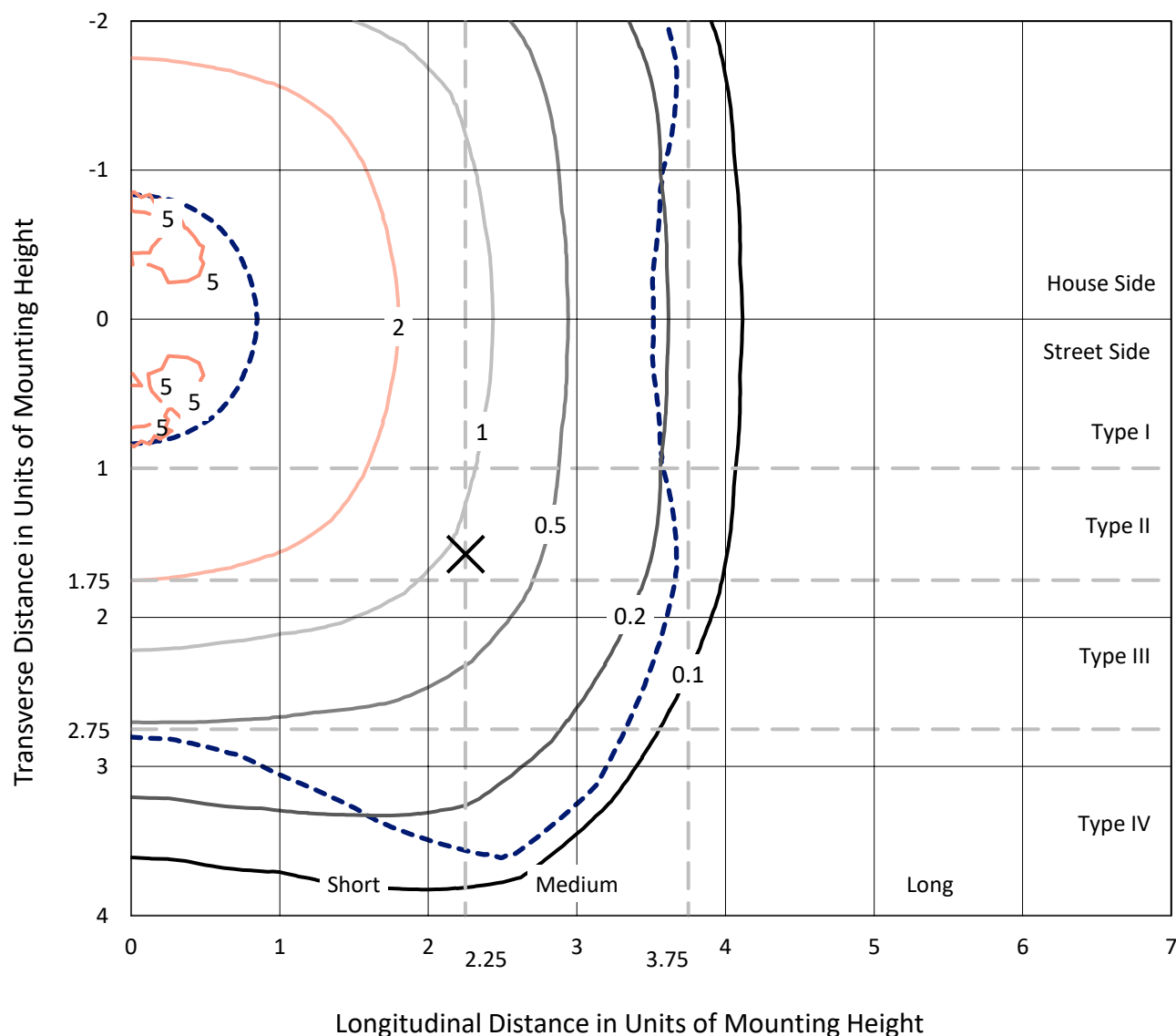
REPORT NUMBER: P842314

CATALOG NUMBER: ARCH4-300-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

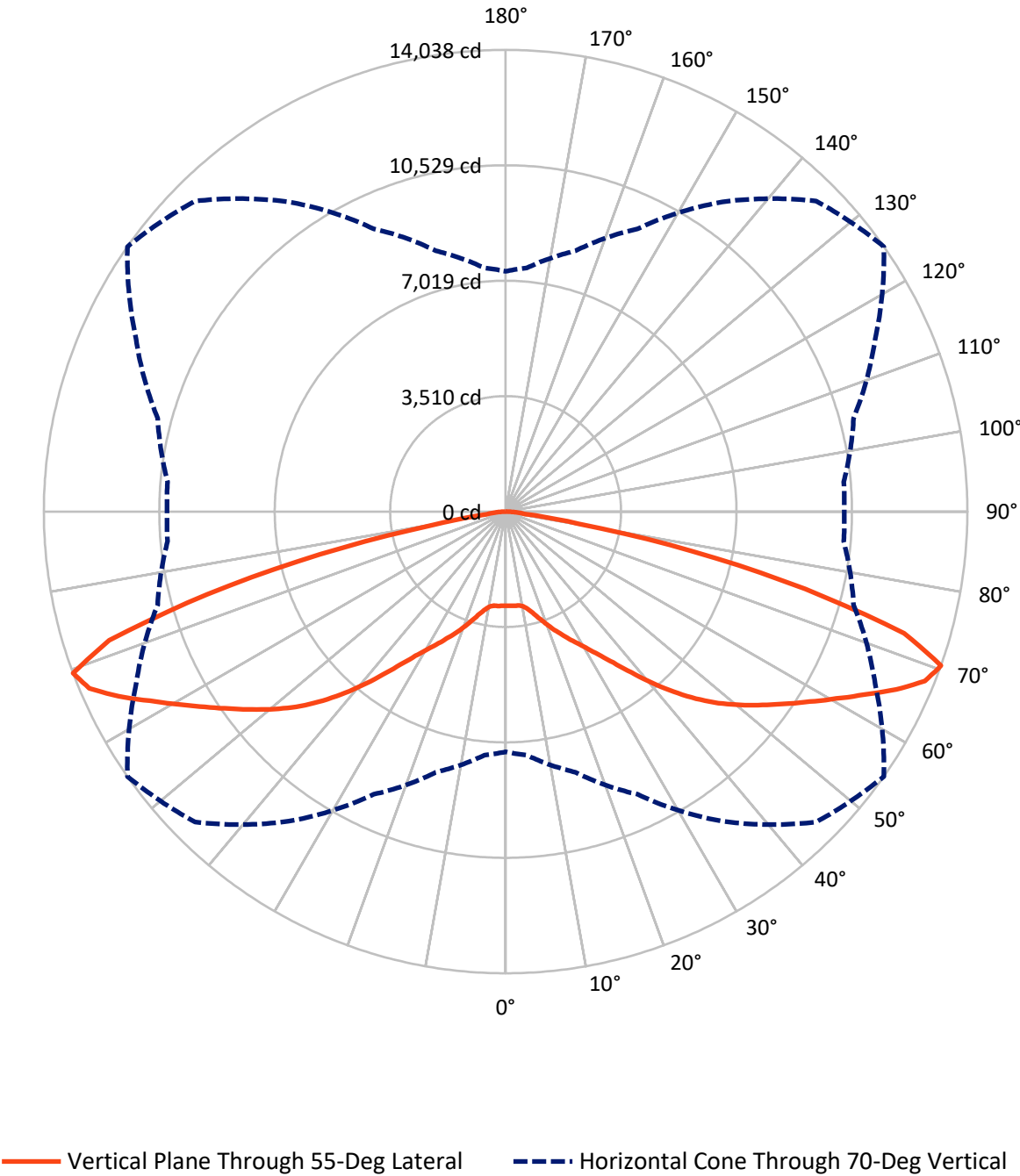
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Medium - N/A

REPORT NUMBER: P842314
CATALOG NUMBER: ARCH4-300-730-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P842314

CATALOG NUMBER: ARCH4-300-730-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20555.0	0.0	20555.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20555.0	0.0	20555.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41110.0	0.0	41110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	0.7
10°-20°	941.6	2.3
20°-30°	1956.5	4.8
30°-40°	3613.5	8.8
40°-50°	6348.2	15.4
50°-60°	9155.5	22.3
60°-70°	11205.4	27.3
70°-80°	7130.2	17.3
80°-90°	482.5	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°	41110.0	100.0
0°-180°	41110.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842314

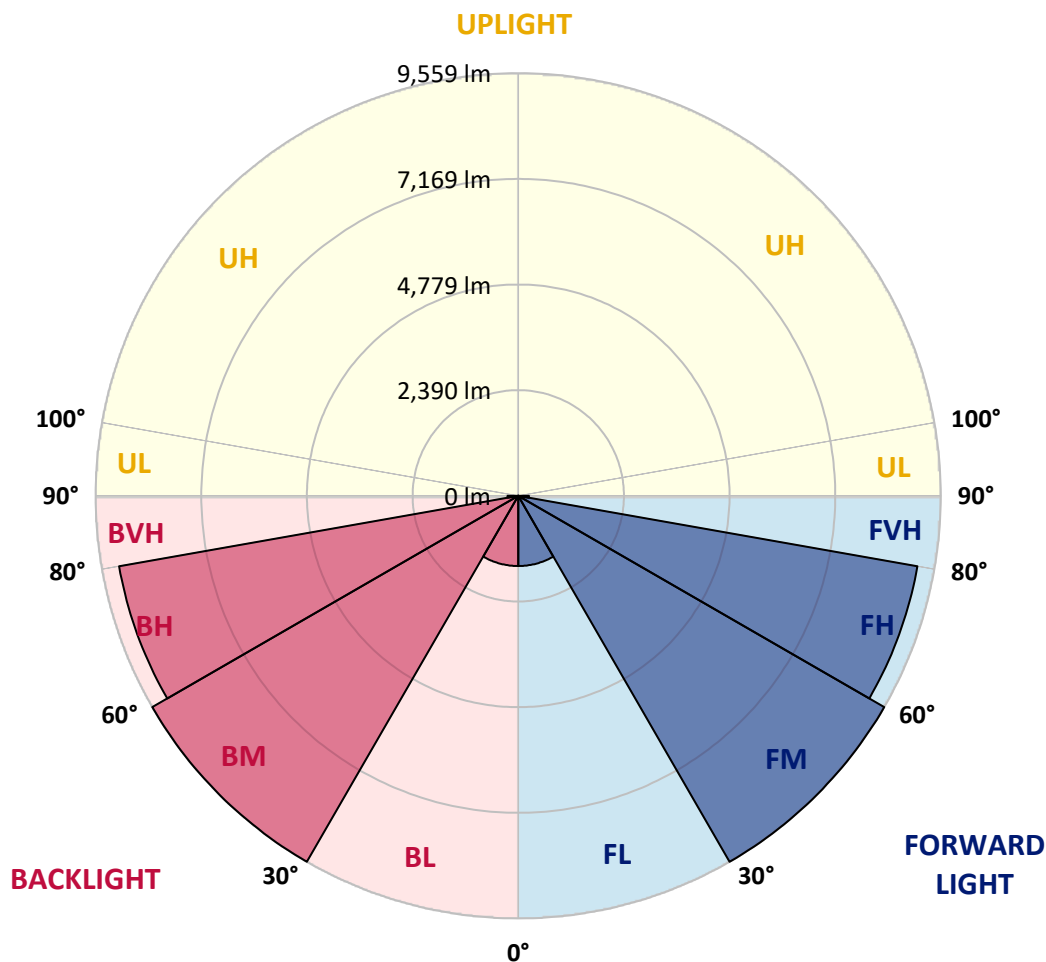
CATALOG NUMBER: ARCH4-300-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1587.4	3.9			
FM	(30°-60°)	9558.6	23.3			
FH	(60°-80°)	9167.8	22.3			G4/12000
FVH	(80°-90°)	241.2	0.6			G3/500
BL	(0°-30°)	1587.4	3.9	B3/2500		
BM	(30°-60°)	9558.6	23.3	B5		
BH	(60°-80°)	9167.8	22.3	B5		G4/12000
BVH	(80°-90°)	241.2	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



REPORT NUMBER: P842314

CATALOG NUMBER: ARCH4-300-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8
2.5°	2904.0	2904.0	2896.3	2896.3	2881.0	2873.4	2865.8	2865.8	2858.1	2858.1	2850.5
5°	2919.2	2919.2	2919.2	2911.6	2904.0	2896.3	2881.0	2865.8	2858.1	2850.5	2842.8
7.5°	2926.9	2926.9	2919.2	2919.2	2911.6	2904.0	2881.0	2858.1	2850.5	2842.8	2842.8
10°	2988.0	2980.4	2972.7	2957.5	2957.5	2957.5	2926.9	2904.0	2896.3	2896.3	2896.3
12.5°	3133.2	3125.6	3110.3	3087.4	3087.4	3095.0	3049.2	3018.6	3018.6	3011.0	3011.0
15°	3347.2	3339.6	3324.3	3286.1	3278.4	3293.7	3224.9	3194.4	3194.4	3194.4	3186.7
17.5°	3584.1	3568.8	3545.9	3515.3	3515.3	3515.3	3446.5	3408.3	3385.4	3385.4	3377.8
20°	3782.8	3775.2	3775.2	3767.5	3790.4	3790.4	3698.7	3637.6	3584.1	3553.5	3545.9
22.5°	3958.6	3950.9	3966.2	3996.8	4042.6	4057.9	3950.9	3859.2	3775.2	3714.0	3698.7
25°	4195.5	4187.8	4180.2	4226.0	4302.5	4325.4	4210.7	4096.1	4012.1	3981.5	3966.2
27.5°	4447.7	4455.3	4462.9	4508.8	4569.9	4608.1	4493.5	4386.5	4317.7	4271.9	4256.6
30°	4730.4	4745.7	4768.6	4837.4	4883.2	4898.5	4799.2	4722.8	4661.6	4623.4	4600.5
32.5°	5089.6	5120.1	5150.7	5211.9	5234.8	5219.5	5173.6	5120.1	5074.3	5020.8	5013.2
35°	5624.5	5655.1	5647.4	5670.4	5678.0	5662.7	5639.8	5609.2	5586.3	5517.5	5509.9
37.5°	6297.0	6327.6	6281.7	6258.8	6205.3	6213.0	6205.3	6228.2	6235.9	6167.1	6159.5
40°	6977.2	7007.7	6946.6	6885.5	6832.0	6809.0	6847.2	6923.7	6923.7	6877.8	6877.8
42.5°	7703.1	7726.1	7626.7	7550.3	7481.5	7466.2	7489.2	7580.9	7603.8	7596.2	7596.2
45°	8429.1	8413.9	8283.9	8207.5	8146.4	8108.2	8115.8	8184.6	8230.4	8253.4	8253.4
47.5°	8987.0	8964.1	8857.1	8796.0	8757.7	8704.3	8704.3	8742.5	8765.4	8773.0	8773.0
50°	9430.2	9407.3	9300.3	9292.7	9292.7	9269.8	9246.8	9239.2	9223.9	9231.6	9231.6
52.5°	9812.3	9781.8	9705.4	9720.6	9789.4	9804.7	9774.1	9713.0	9651.9	9628.9	9636.6
55°	10225.0	10179.2	10118.0	10163.9	10301.4	10362.6	10316.7	10194.4	10087.5	10018.7	10018.7
57.5°	10553.6	10500.1	10500.1	10630.0	10882.2	11004.5	10905.2	10675.9	10492.5	10416.1	10423.7
60°	10324.4	10278.5	10461.9	11035.1	11508.9	11715.2	11547.1	11142.1	10844.0	10752.3	10767.6
62.5°	9873.5	9842.9	10072.2	10958.6	12074.4	12502.3	12250.1	11669.4	11226.1	11119.1	11119.1
65°	9208.6	9201.0	9521.9	10614.8	12204.3	13258.9	13044.9	12242.5	11669.4	11524.2	11554.7
67.5°	8520.8	8520.8	8811.2	10026.3	12051.5	13579.9	13748.0	12762.2	11883.3	11524.2	11531.8
70°	7305.8	7435.7	8207.5	9483.7	11493.6	13350.6	14038.4	12395.3	10951.0	10316.7	10293.8
72.5°	4814.5	4982.6	6518.6	8536.1	10943.4	12517.6	12670.5	10889.9	9094.0	8352.7	8314.5
75°	2904.0	3049.2	4226.0	6663.8	9621.3	10079.8	9407.3	8536.1	6793.7	6213.0	6213.0
77.5°	855.9	955.3	1948.7	4226.0	6656.2	6625.6	5800.3	5028.4	4019.7	3416.0	3461.8
80°	504.4	519.7	634.3	1925.8	2758.8	2904.0	2239.1	1398.5	1398.5	1039.3	1008.7
82.5°	389.7	389.7	405.0	481.4	664.9	741.3	565.5	481.4	550.2	466.2	443.2
85°	275.1	275.1	275.1	282.8	290.4	298.0	313.3	321.0	351.5	290.4	275.1
87.5°	84.1	91.7	99.3	114.6	137.6	145.2	152.8	137.6	137.6	129.9	122.3
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)