

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: P265796

Luminaire Tested: **ARCH-M-AF48-90-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265796
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-M-AF48-90-D-U-5WQ-7027
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 600mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10972 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 92
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

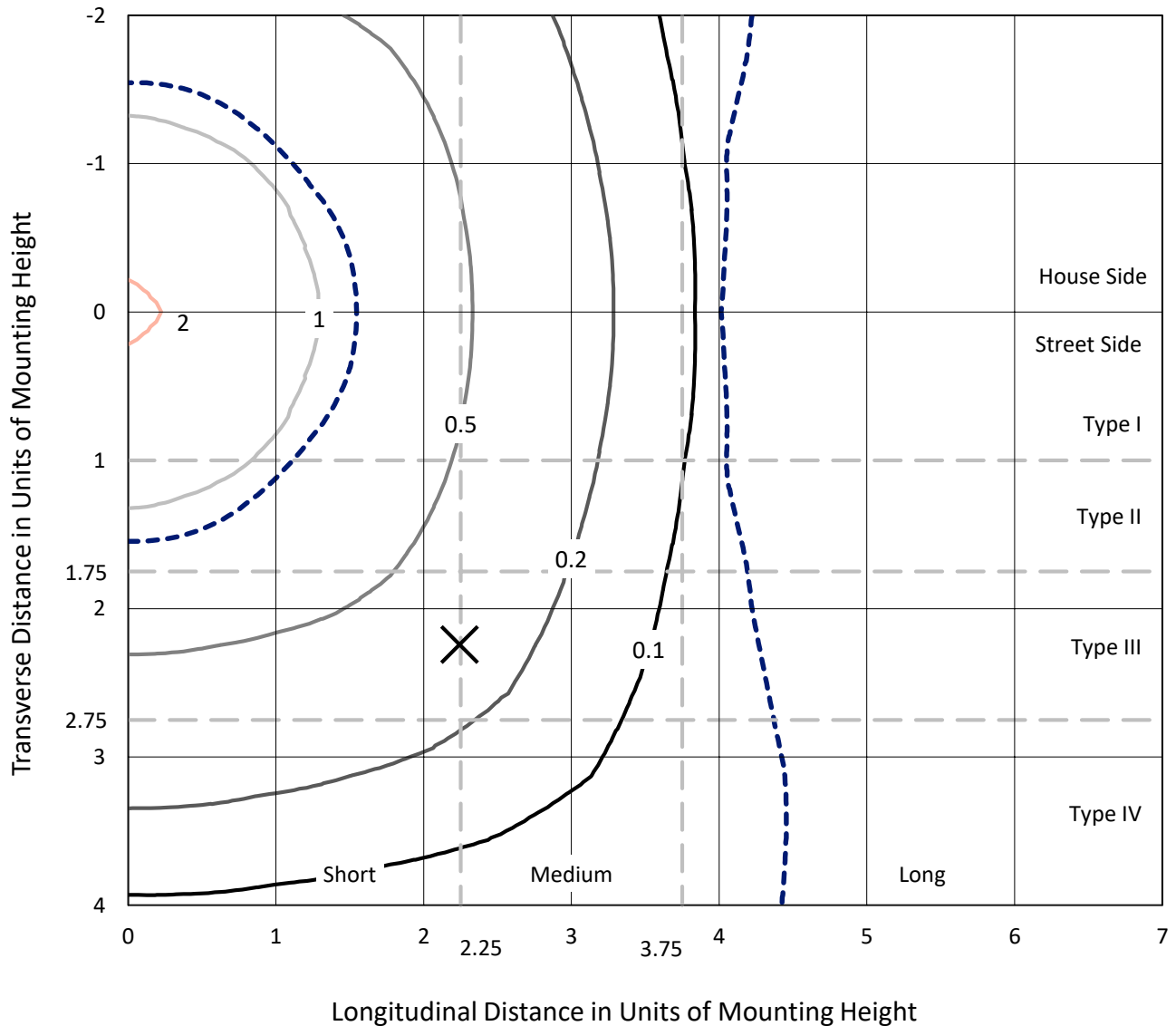


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

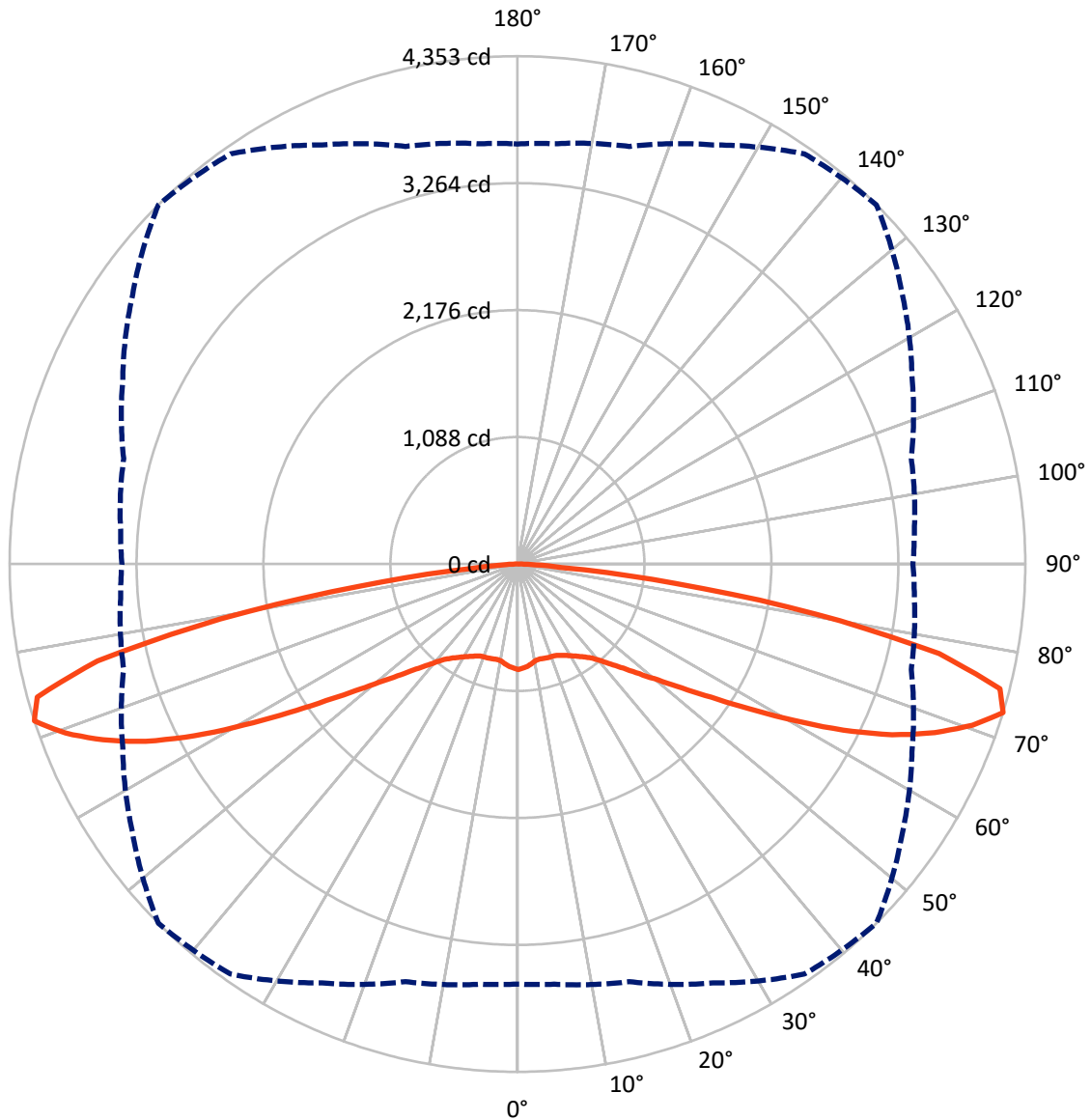


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5486.0	0.0	5486.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5486.0	0.0	5486.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10972.0	0.0	10972.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	0.8
10°-20°	240.1	2.2
20°-30°	401.8	3.7
30°-40°	617.3	5.6
40°-50°	1022.1	9.3
50°-60°	1817.2	16.6
60°-70°	3179.1	29.0
70°-80°	3234.5	29.5
80°-90°	376.6	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°	10972.0	100.0
0°-180°	10972.0	100.0



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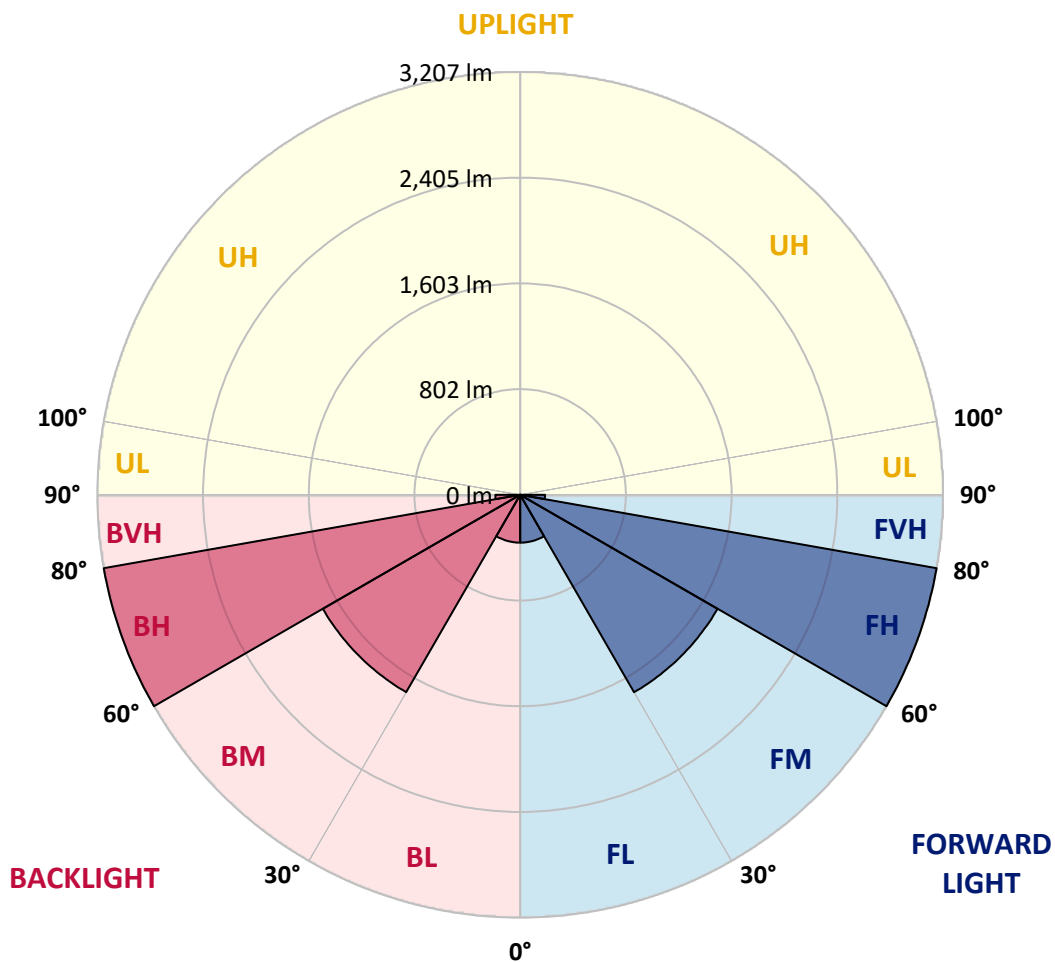
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.5	3.3			
FM	(30°-60°)	1728.3	15.8			
FH	(60°-80°)	3206.8	29.2			G2/5000
FVH	(80°-90°)	188.3	1.7			G2/225
BL	(0°-30°)	362.5	3.3	B1/500		
BM	(30°-60°)	1728.3	15.8	B2/2500		
BH	(60°-80°)	3206.8	29.2	B4/5000		G2/5000
BVH	(80°-90°)	188.3	1.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4
2.5°	896.0	898.0	894.0	894.0	894.0	891.7	894.0	891.7	894.0	896.0	896.0
5°	887.6	887.6	883.5	883.5	883.5	881.3	883.5	883.5	885.5	887.6	887.6
7.5°	868.8	868.8	866.8	864.7	862.6	862.6	864.7	864.7	866.8	868.8	868.8
10°	858.4	856.4	852.1	845.8	843.8	841.7	845.8	850.1	856.4	862.6	860.4
12.5°	854.2	852.1	843.8	837.5	833.4	835.5	839.6	843.8	854.2	860.4	858.4
15°	858.4	854.2	843.8	833.4	835.5	839.6	843.8	843.8	856.4	862.6	862.6
17.5°	858.4	856.4	843.8	835.5	837.5	843.8	845.8	843.8	854.2	864.7	864.7
20°	860.4	860.4	843.8	837.5	839.6	845.8	848.0	845.8	854.2	866.8	866.8
22.5°	864.7	862.6	845.8	841.7	845.8	850.1	852.1	850.1	858.4	868.8	870.9
25°	873.1	868.8	854.2	852.1	860.4	866.8	866.8	862.6	866.8	877.1	877.1
27.5°	883.5	881.3	864.7	864.7	875.0	887.6	881.3	873.1	877.1	887.6	887.6
30°	902.3	900.2	883.5	883.5	898.0	912.7	898.0	887.6	894.0	904.4	906.4
32.5°	929.3	929.3	914.7	910.6	935.7	942.0	935.7	914.7	919.0	933.6	933.6
35°	975.4	971.2	956.5	954.4	979.5	977.4	975.4	956.5	960.7	977.4	977.4
37.5°	1035.9	1033.8	1021.4	1015.1	1027.7	1019.1	1023.3	1015.1	1025.4	1038.0	1040.1
40°	1113.2	1111.2	1100.7	1092.2	1096.6	1084.0	1088.1	1092.2	1102.8	1111.2	1113.2
42.5°	1209.3	1209.3	1198.9	1184.2	1177.9	1171.7	1171.7	1180.1	1190.4	1200.9	1200.9
45°	1328.4	1328.4	1315.7	1301.1	1282.4	1271.9	1276.1	1284.4	1297.1	1309.5	1313.7
47.5°	1468.3	1468.3	1451.5	1436.8	1418.2	1405.6	1405.6	1409.8	1428.6	1439.1	1445.4
50°	1624.9	1618.7	1601.9	1587.3	1576.9	1560.1	1562.2	1560.1	1576.9	1591.4	1595.7
52.5°	1787.7	1785.7	1769.0	1764.8	1771.1	1762.7	1762.7	1741.9	1748.1	1756.5	1754.4
55°	1990.5	1984.1	1969.5	1977.9	2003.0	2015.4	2011.2	1977.9	1959.1	1963.2	1961.2
57.5°	2211.7	2205.5	2201.3	2226.4	2282.9	2335.1	2324.5	2247.3	2211.7	2213.9	2215.9
60°	2437.3	2437.3	2449.9	2512.5	2633.7	2719.3	2688.0	2558.6	2495.9	2483.4	2479.1
62.5°	2669.1	2675.4	2702.6	2807.1	2993.0	3134.9	3055.6	2871.8	2777.7	2752.8	2744.3
65°	2938.5	2944.9	2984.6	3114.1	3360.5	3529.7	3393.8	3220.6	3089.0	3036.8	3028.5
67.5°	3329.2	3333.3	3364.7	3489.9	3721.8	3857.6	3717.6	3563.0	3421.0	3360.5	3356.2
70°	3680.0	3684.2	3711.3	3876.4	4089.4	4137.5	3982.8	3786.5	3638.2	3590.3	3581.9
72.5°	3600.6	3615.3	3705.1	3962.1	4289.9	4352.6	4026.7	3732.3	3494.1	3414.7	3389.8
75°	3020.0	3043.0	3185.0	3571.4	4093.5	4271.1	3767.9	3226.8	2871.8	2719.3	2679.6
77.5°	1762.7	1848.4	2092.7	2587.7	3333.3	3694.6	3103.6	2362.2	1764.8	1514.3	1430.7
80°	482.5	528.5	706.0	1190.4	2090.6	2587.7	1980.0	1084.0	584.7	438.6	407.3
82.5°	152.4	202.6	256.8	342.6	820.8	1363.8	735.2	319.5	250.6	206.8	183.9
85°	81.4	87.8	144.1	167.1	246.4	382.1	227.6	167.1	150.3	110.8	104.5
87.5°	41.9	43.8	81.4	81.4	108.7	89.8	98.2	89.8	85.6	54.3	48.0
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)