

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: P265832

Luminaire Tested: **ARCH-M-AF48-130-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265832
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-AF48-130-D-U-5WQ-7027
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 845mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14399.3 lumens
Efficiency: N/A
Efficacy: 109.9 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 - G3

Input Watts (W): 131
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

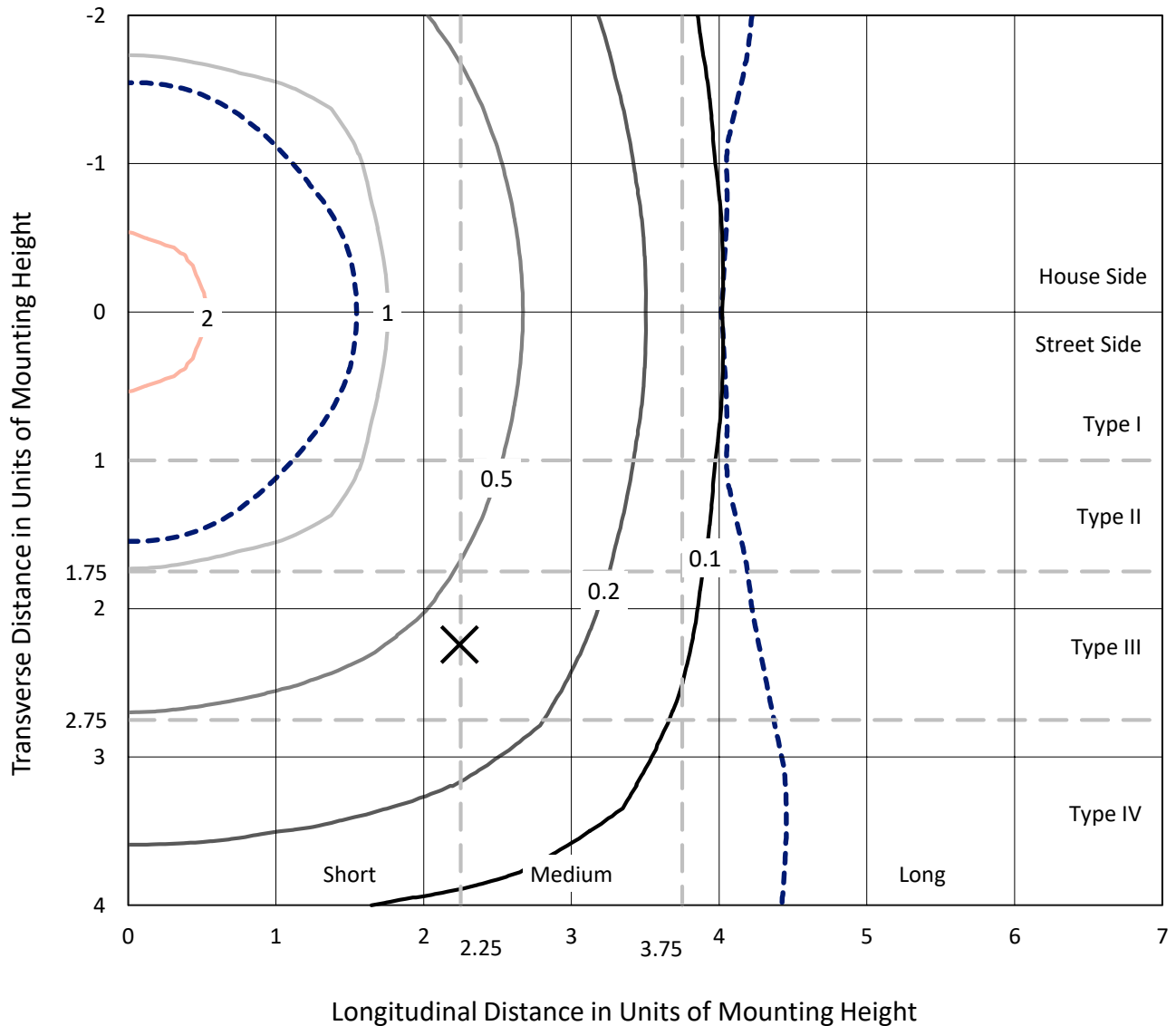


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

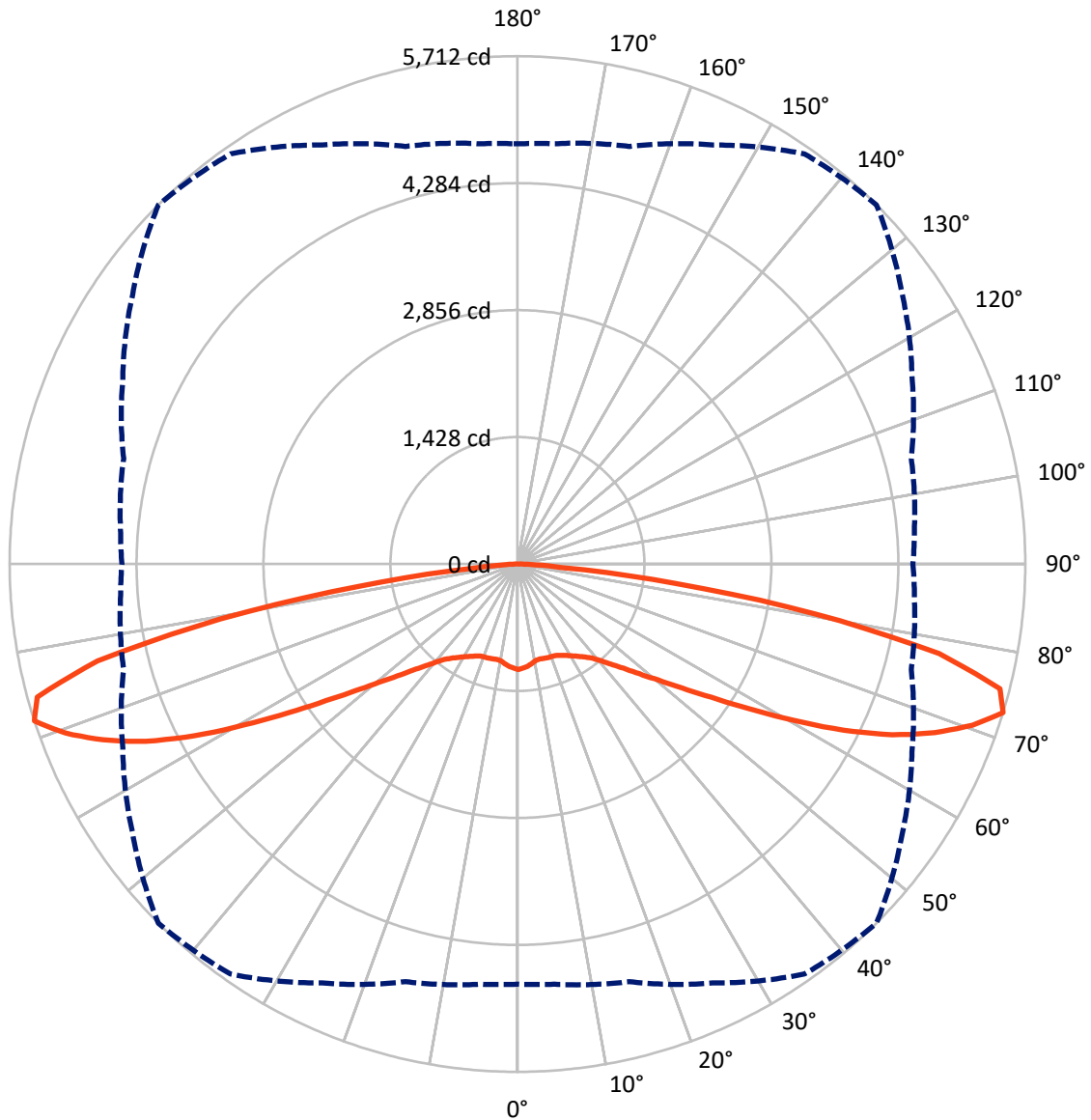


Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

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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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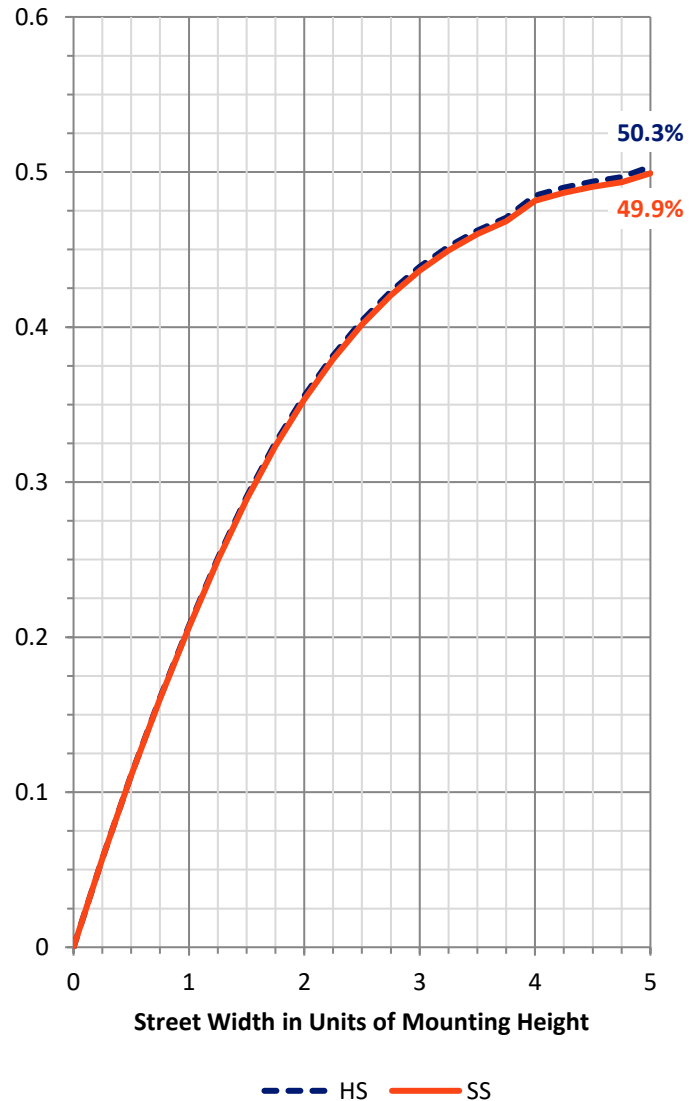
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7199.6	0.0	7199.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7199.6	0.0	7199.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	14399.3	0.0	14399.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	0.8
10°-20°	315.1	2.2
20°-30°	527.3	3.7
30°-40°	810.2	5.6
40°-50°	1341.4	9.3
50°-60°	2384.8	16.6
60°-70°	4172.2	29.0
70°-80°	4244.8	29.5
80°-90°	494.3	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°	14399.3	100.0
0°-180°	14399.3	100.0



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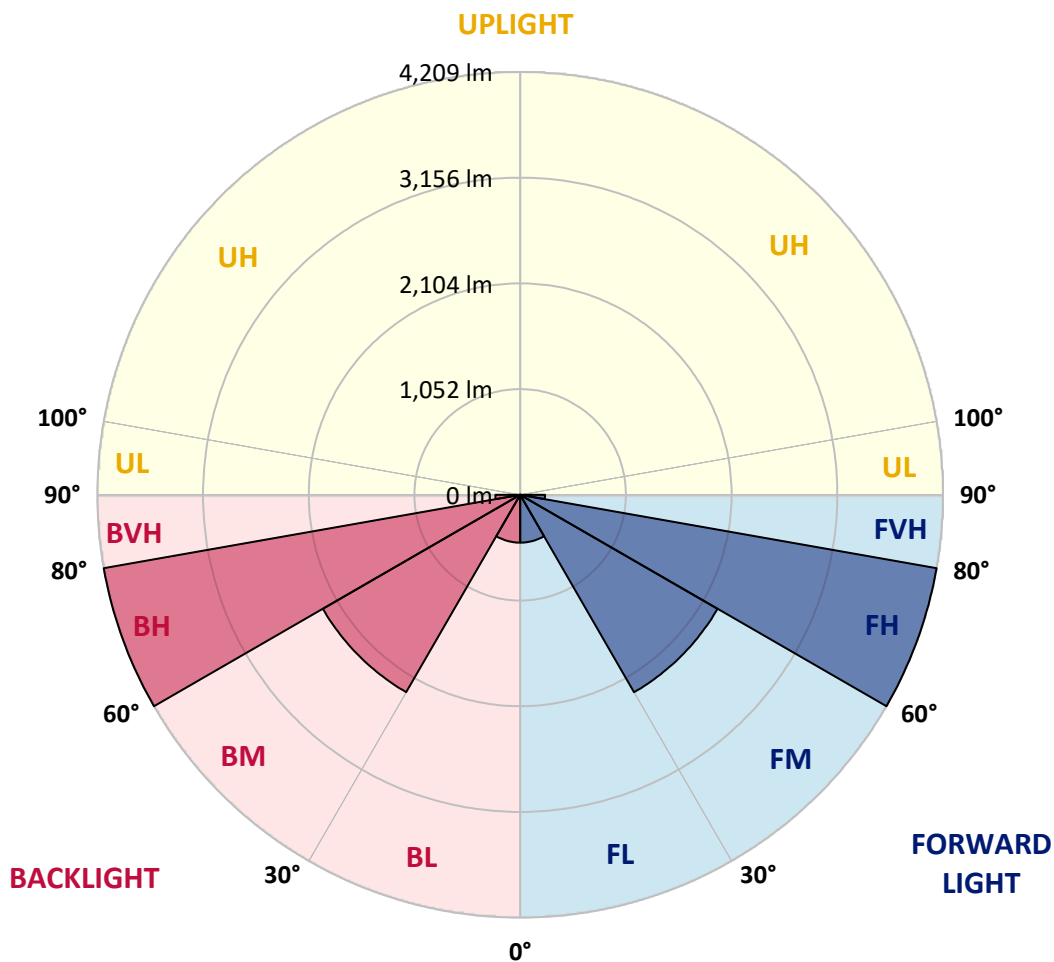
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.8	3.3			
FM (30°-60°)	2268.2	15.8			
FH (60°-80°)	4208.5	29.2			G2/5000
FVH (80°-90°)	247.1	1.7			G3/500
BL (0°-30°)	475.8	3.3	B1/500		
BM (30°-60°)	2268.2	15.8	B2/2500		
BH (60°-80°)	4208.5	29.2	B4/5000		G2/5000
BVH (80°-90°)	247.1	1.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8
2.5°	1175.9	1178.7	1173.1	1173.1	1173.1	1170.4	1173.1	1170.4	1173.1	1175.9	1175.9
5°	1164.9	1164.9	1159.4	1159.4	1159.4	1156.7	1159.4	1159.4	1162.1	1164.9	1164.9
7.5°	1140.3	1140.3	1137.6	1134.7	1132.0	1132.0	1134.7	1134.7	1137.6	1140.3	1140.3
10°	1126.6	1123.8	1118.3	1110.0	1107.3	1104.6	1110.0	1115.5	1123.8	1132.0	1129.3
12.5°	1121.1	1118.3	1107.3	1099.2	1093.6	1096.4	1102.0	1107.3	1121.1	1129.3	1126.6
15°	1126.6	1121.1	1107.3	1093.6	1096.4	1102.0	1107.3	1107.3	1123.8	1132.0	1132.0
17.5°	1126.6	1123.8	1107.3	1096.4	1099.2	1107.3	1110.0	1107.3	1121.1	1134.7	1134.7
20°	1129.3	1129.3	1107.3	1099.2	1102.0	1110.0	1112.8	1110.0	1121.1	1137.6	1137.6
22.5°	1134.7	1132.0	1110.0	1104.6	1110.0	1115.5	1118.3	1115.5	1126.6	1140.3	1143.0
25°	1145.7	1140.3	1121.1	1118.3	1129.3	1137.6	1137.6	1132.0	1137.6	1151.2	1151.2
27.5°	1159.4	1156.7	1134.7	1134.7	1148.5	1164.9	1156.7	1145.7	1151.2	1164.9	1164.9
30°	1184.1	1181.4	1159.4	1159.4	1178.7	1197.8	1178.7	1164.9	1173.1	1186.8	1189.5
32.5°	1219.7	1219.7	1200.6	1195.0	1228.0	1236.2	1228.0	1200.6	1206.1	1225.2	1225.2
35°	1280.1	1274.5	1255.3	1252.6	1285.6	1282.8	1280.1	1255.3	1260.9	1282.8	1282.8
37.5°	1359.6	1356.8	1340.4	1332.0	1348.5	1337.5	1343.1	1332.0	1345.8	1362.3	1365.1
40°	1461.0	1458.2	1444.5	1433.5	1439.1	1422.6	1428.0	1433.5	1447.2	1458.2	1461.0
42.5°	1587.0	1587.0	1573.3	1554.2	1546.0	1537.7	1537.7	1548.7	1562.3	1576.0	1576.0
45°	1743.3	1743.3	1726.8	1707.6	1683.0	1669.2	1674.7	1685.7	1702.2	1718.5	1724.0
47.5°	1927.0	1927.0	1904.9	1885.8	1861.1	1844.7	1844.7	1850.1	1874.9	1888.5	1896.7
50°	2132.4	2124.2	2102.4	2083.1	2069.4	2047.4	2050.2	2047.4	2069.4	2088.6	2094.0
52.5°	2346.3	2343.5	2321.6	2316.1	2324.4	2313.3	2313.3	2285.9	2294.2	2305.1	2302.4
55°	2612.1	2603.8	2584.8	2595.7	2628.6	2645.0	2639.6	2595.7	2570.9	2576.5	2573.7
57.5°	2902.8	2894.5	2888.9	2921.8	2995.8	3064.4	3050.7	2949.2	2902.8	2905.4	2908.2
60°	3198.8	3198.8	3215.2	3297.4	3456.4	3568.7	3527.6	3357.7	3275.5	3259.1	3253.5
62.5°	3502.9	3511.1	3546.8	3683.9	3927.7	4114.1	4010.0	3768.7	3645.5	3612.7	3601.7
65°	3856.6	3864.8	3916.8	4086.7	4410.1	4632.2	4454.1	4226.5	4054.0	3985.4	3974.5
67.5°	4369.0	4374.6	4415.7	4580.2	4884.4	5062.6	4879.0	4676.0	4489.6	4410.1	4404.7
70°	4829.6	4835.0	4870.7	5087.2	5366.8	5429.9	5227.0	4969.3	4774.9	4711.7	4700.7
72.5°	4725.4	4744.6	4862.4	5199.6	5629.9	5712.1	5284.5	4898.1	4585.7	4481.5	4448.5
75°	3963.4	3993.5	4180.0	4687.0	5372.4	5605.2	4944.7	4234.8	3768.7	3568.7	3516.7
77.5°	2313.3	2425.8	2746.5	3396.0	4374.6	4848.8	4073.1	3100.1	2316.1	1987.2	1877.5
80°	633.1	693.4	926.4	1562.3	2743.8	3396.0	2598.4	1422.6	767.5	575.6	534.5
82.5°	200.1	265.9	337.1	449.5	1077.2	1789.9	964.8	419.4	328.9	271.4	241.3
85°	106.9	115.2	189.2	219.2	323.4	501.7	298.7	219.2	197.4	145.3	137.0
87.5°	54.8	57.5	106.9	106.9	142.6	117.9	128.8	117.9	112.4	71.2	63.1
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)