

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: P230973

Luminaire Tested: **ARCH-M-AF48-60-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230973
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-AF48-60-D-U-5WQ
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 405mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9159.5 lumens
Efficiency: N/A
Efficacy: 145.4 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): 63
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

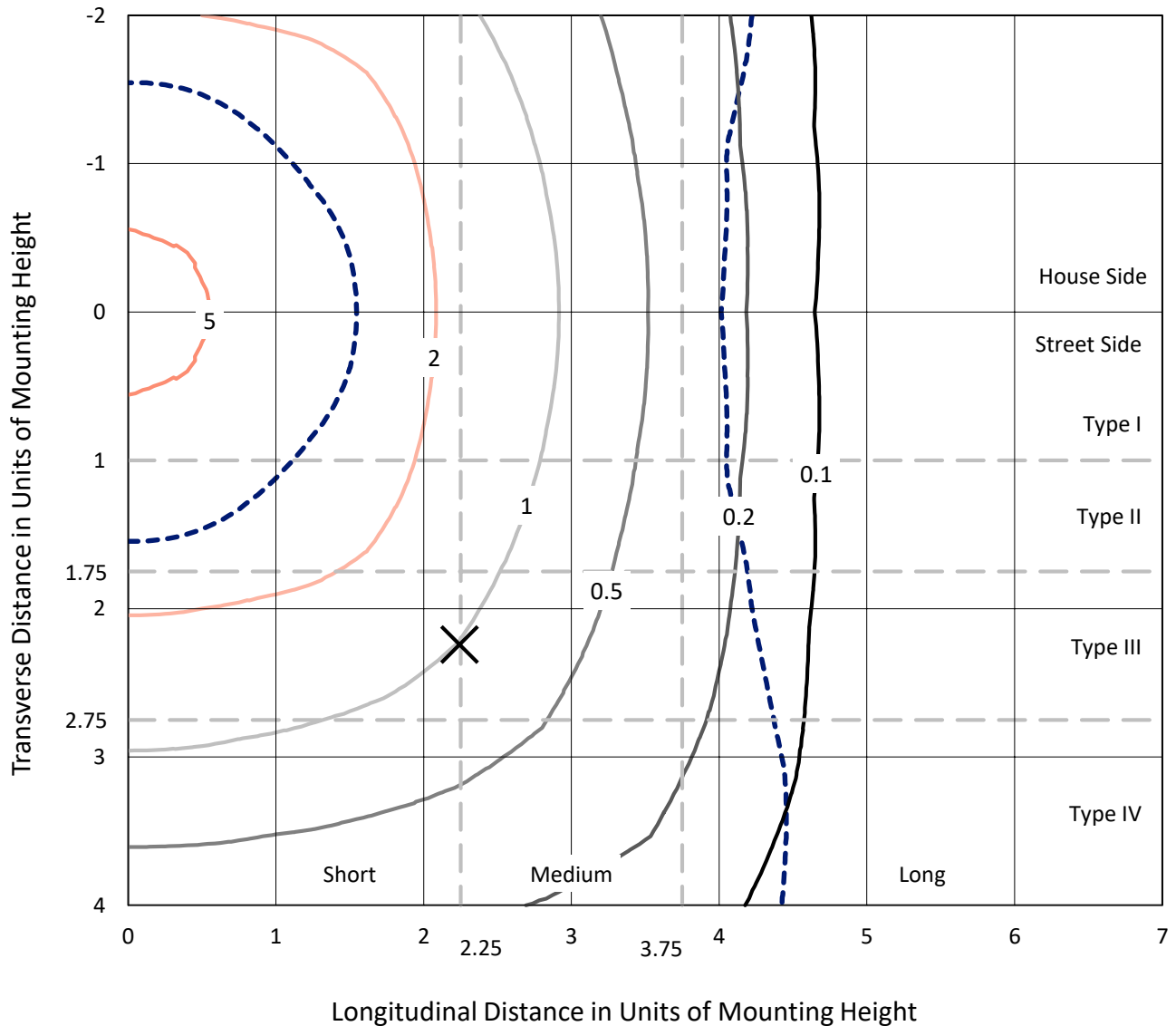


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

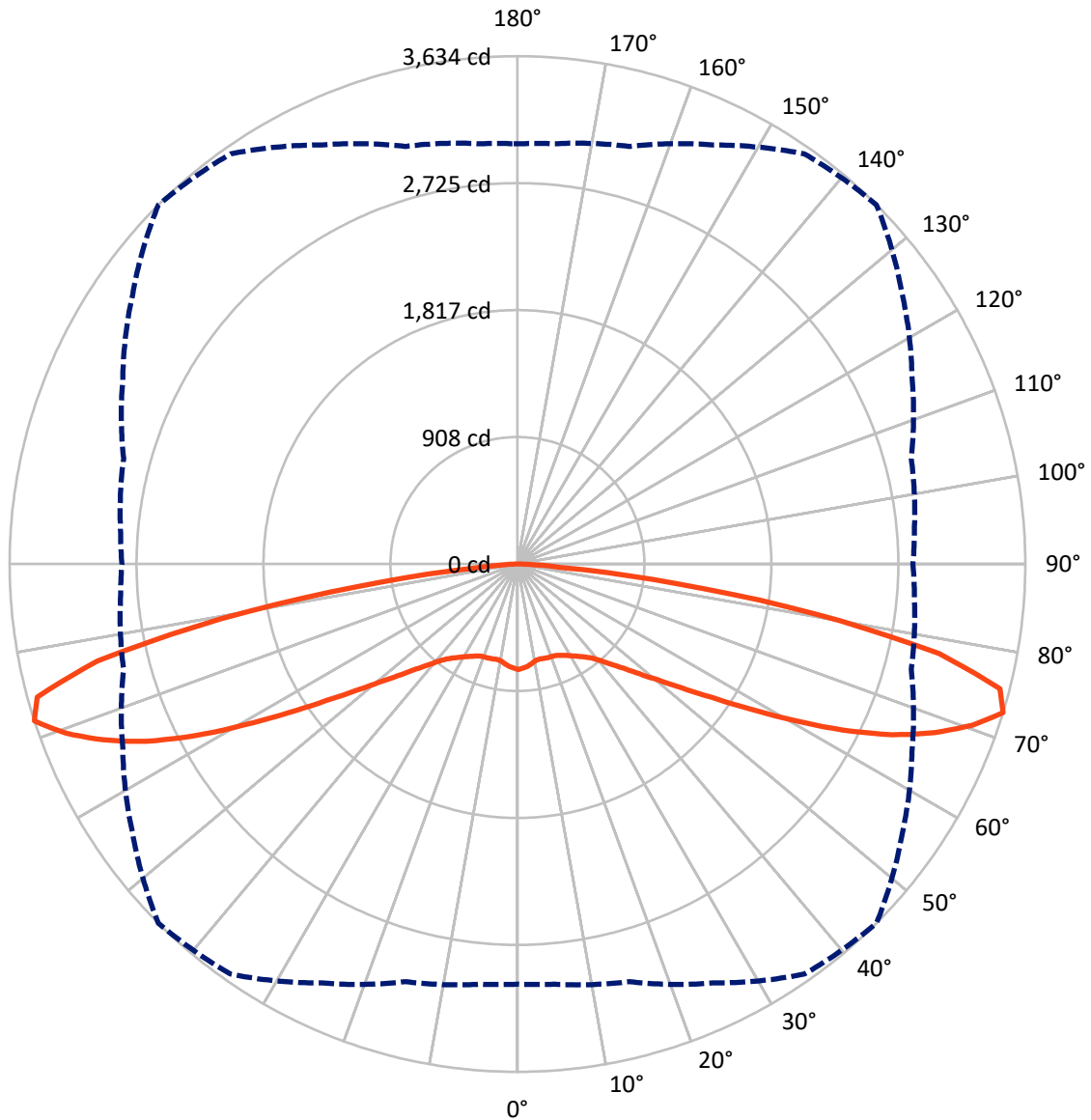


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - Non-Cutoff

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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	4579.7	0.0	4579.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4579.7	0.0	4579.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	9159.5	0.0	9159.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	0.8
10°-20°	200.4	2.2
20°-30°	335.4	3.7
30°-40°	515.3	5.6
40°-50°	853.3	9.3
50°-60°	1517.0	16.6
60°-70°	2653.9	29.0
70°-80°	2700.2	29.5
80°-90°	314.4	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°	9159.5	100.0
0°-180°	9159.5	100.0



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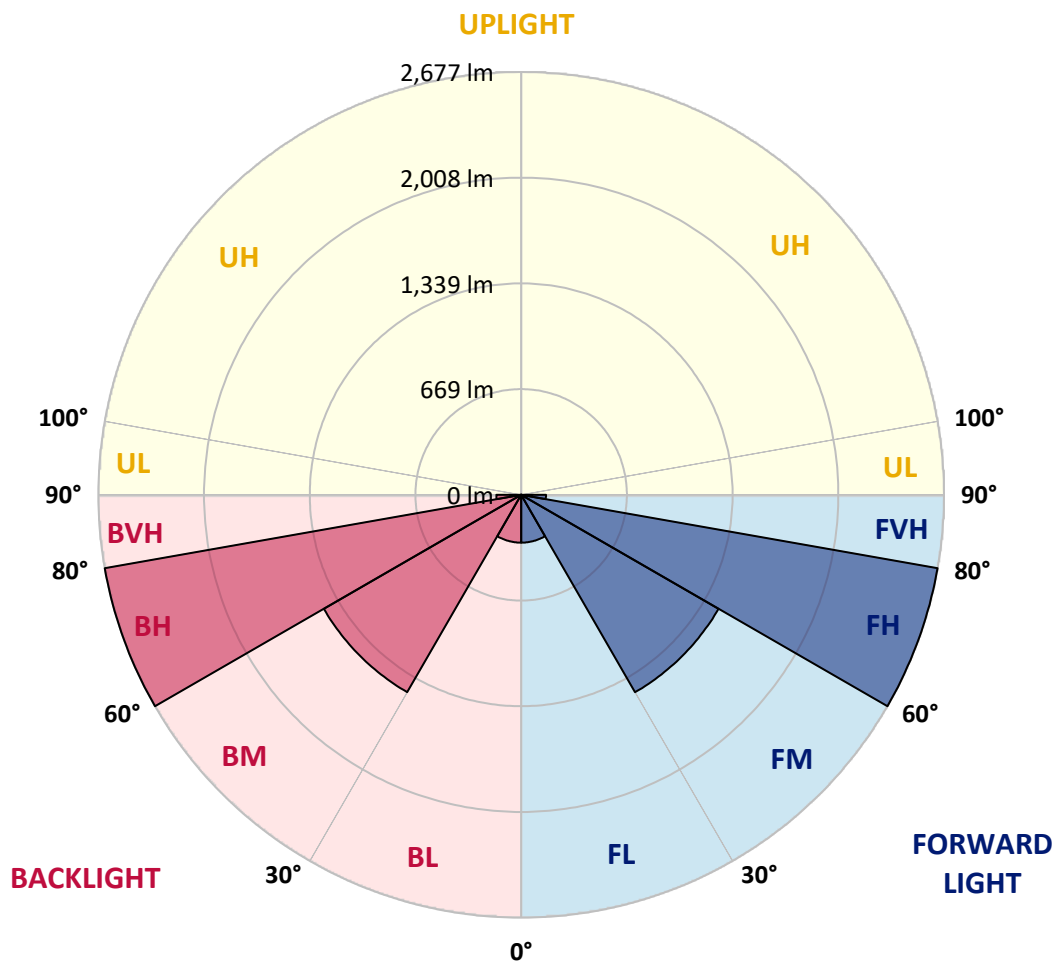
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.6	3.3			
FM	(30°-60°)	1442.8	15.8			
FH	(60°-80°)	2677.1	29.2			G2/5000
FVH	(80°-90°)	157.2	1.7			G2/225
BL	(0°-30°)	302.6	3.3	B1/500		
BM	(30°-60°)	1442.8	15.8	B2/2500		
BH	(60°-80°)	2677.1	29.2	B4/5000		G2/5000
BVH	(80°-90°)	157.2	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°	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9
2.5°	748.0	749.7	746.2	746.2	746.2	744.5	746.2	744.5	746.2	748.0	748.0
5°	741.0	741.0	737.5	737.5	737.5	735.8	737.5	737.5	739.3	741.0	741.0
7.5°	725.3	725.3	723.5	721.8	720.1	720.1	721.8	721.8	723.5	725.3	725.3
10°	716.6	714.8	711.4	706.1	704.4	702.7	706.1	709.6	714.8	720.1	718.3
12.5°	713.1	711.4	704.4	699.2	695.7	697.4	700.9	704.4	713.1	718.3	716.6
15°	716.6	713.1	704.4	695.7	697.4	700.9	704.4	704.4	714.8	720.1	720.1
17.5°	716.6	714.8	704.4	697.4	699.2	704.4	706.1	704.4	713.1	721.8	721.8
20°	718.3	718.3	704.4	699.2	700.9	706.1	707.9	706.1	713.1	723.5	723.5
22.5°	721.8	720.1	706.1	702.7	706.1	709.6	711.4	709.6	716.6	725.3	727.0
25°	728.9	725.3	713.1	711.4	718.3	723.5	723.5	720.1	723.5	732.3	732.3
27.5°	737.5	735.8	721.8	721.8	730.6	741.0	735.8	728.9	732.3	741.0	741.0
30°	753.2	751.5	737.5	737.5	749.7	761.9	749.7	741.0	746.2	754.9	756.7
32.5°	775.9	775.9	763.6	760.2	781.1	786.3	781.1	763.6	767.1	779.4	779.4
35°	814.3	810.8	798.5	796.8	817.7	816.0	814.3	798.5	802.0	816.0	816.0
37.5°	864.8	863.1	852.6	847.4	857.8	850.9	854.4	847.4	856.1	866.5	868.3
40°	929.4	927.6	918.8	911.9	915.3	904.9	908.4	911.9	920.6	927.6	929.4
42.5°	1009.6	1009.6	1000.8	988.6	983.4	978.1	978.1	985.1	993.8	1002.5	1002.5
45°	1108.9	1108.9	1098.4	1086.3	1070.5	1061.8	1065.3	1072.3	1082.8	1093.2	1096.7
47.5°	1225.7	1225.7	1211.8	1199.5	1183.9	1173.4	1173.4	1176.9	1192.6	1201.4	1206.6
50°	1356.4	1351.2	1337.3	1325.1	1316.3	1302.4	1304.2	1302.4	1316.3	1328.6	1332.1
52.5°	1492.5	1490.7	1476.8	1473.3	1478.6	1471.5	1471.5	1454.1	1459.3	1466.3	1464.6
55°	1661.6	1656.4	1644.2	1651.1	1672.0	1682.5	1679.1	1651.1	1635.5	1639.0	1637.2
57.5°	1846.4	1841.2	1837.7	1858.6	1905.7	1949.3	1940.5	1876.1	1846.4	1848.2	1849.9
60°	2034.8	2034.8	2045.2	2097.5	2198.6	2270.1	2243.9	2135.8	2083.5	2073.1	2069.6
62.5°	2228.3	2233.5	2256.1	2343.4	2498.5	2617.0	2550.8	2397.4	2318.9	2298.0	2291.0
65°	2453.1	2458.4	2491.5	2599.6	2805.3	2946.6	2833.3	2688.5	2578.8	2535.1	2528.1
67.5°	2779.3	2782.7	2808.8	2913.5	3107.0	3220.4	3103.5	2974.5	2856.0	2805.3	2801.9
70°	3072.1	3075.6	3098.3	3236.0	3413.9	3454.0	3324.9	3161.0	3037.2	2997.1	2990.2
72.5°	3005.8	3018.1	3093.1	3307.5	3581.2	3633.5	3361.5	3115.7	2916.9	2850.7	2829.8
75°	2521.2	2540.4	2659.0	2981.5	3417.4	3565.6	3145.4	2693.7	2397.4	2270.1	2237.0
77.5°	1471.5	1543.0	1747.0	2160.3	2782.7	3084.3	2590.9	1971.9	1473.3	1264.1	1194.3
80°	402.7	441.1	589.3	993.8	1745.3	2160.3	1652.9	904.9	488.2	366.1	340.0
82.5°	127.3	169.1	214.4	285.9	685.2	1138.5	613.8	266.8	209.2	172.6	153.4
85°	68.0	73.2	120.3	139.5	205.7	319.1	190.1	139.5	125.5	92.4	87.2
87.5°	34.9	36.6	68.0	68.0	90.6	75.0	81.9	75.0	71.5	45.3	40.1
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)