

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: P214509

Luminaire Tested: **ARCH-AF24-80-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214509
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-AF24-80-D-U-5WQ-7030
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8284 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 83
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

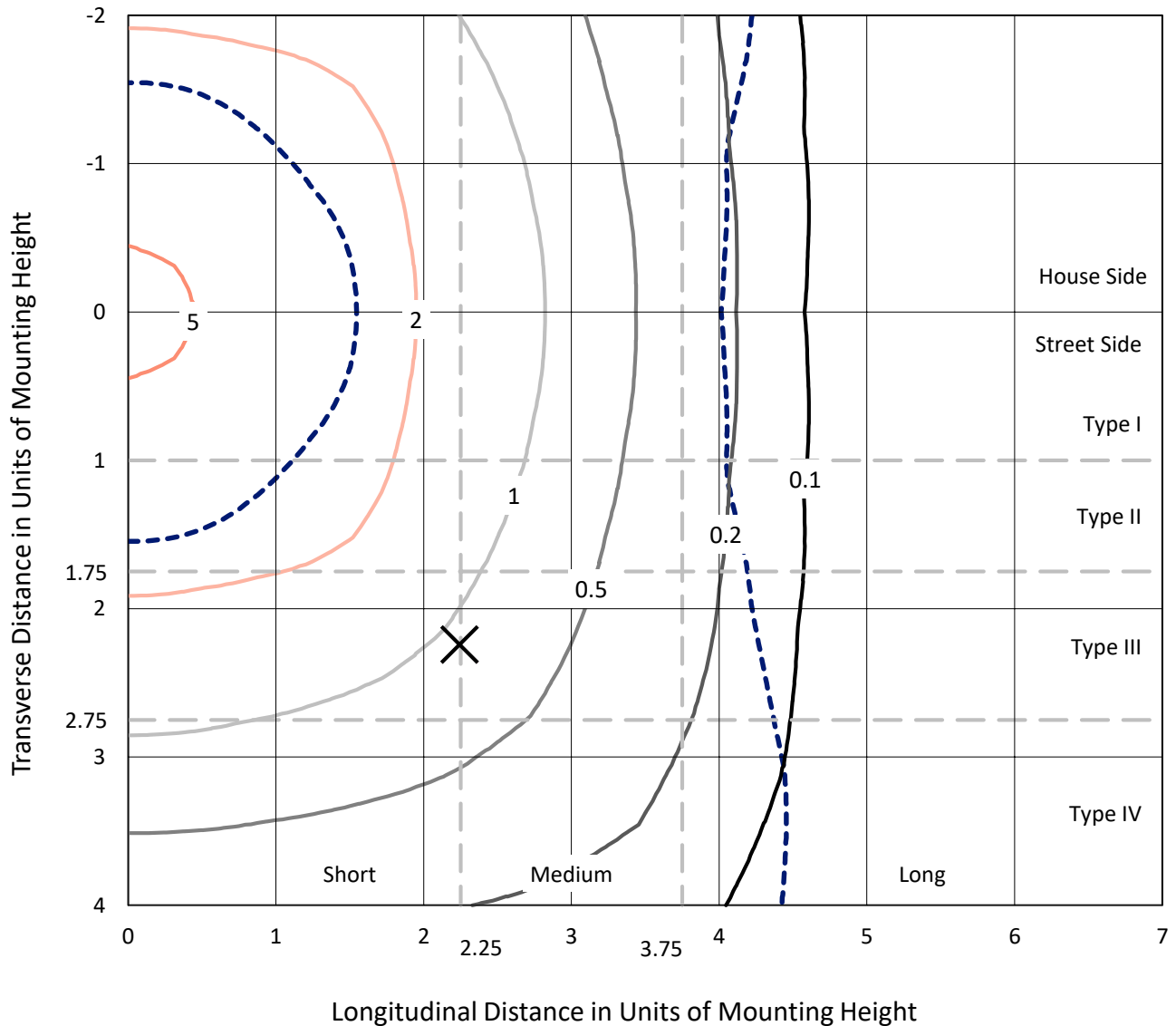


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Iso-Footcandle Lines of Horizontal Illumination

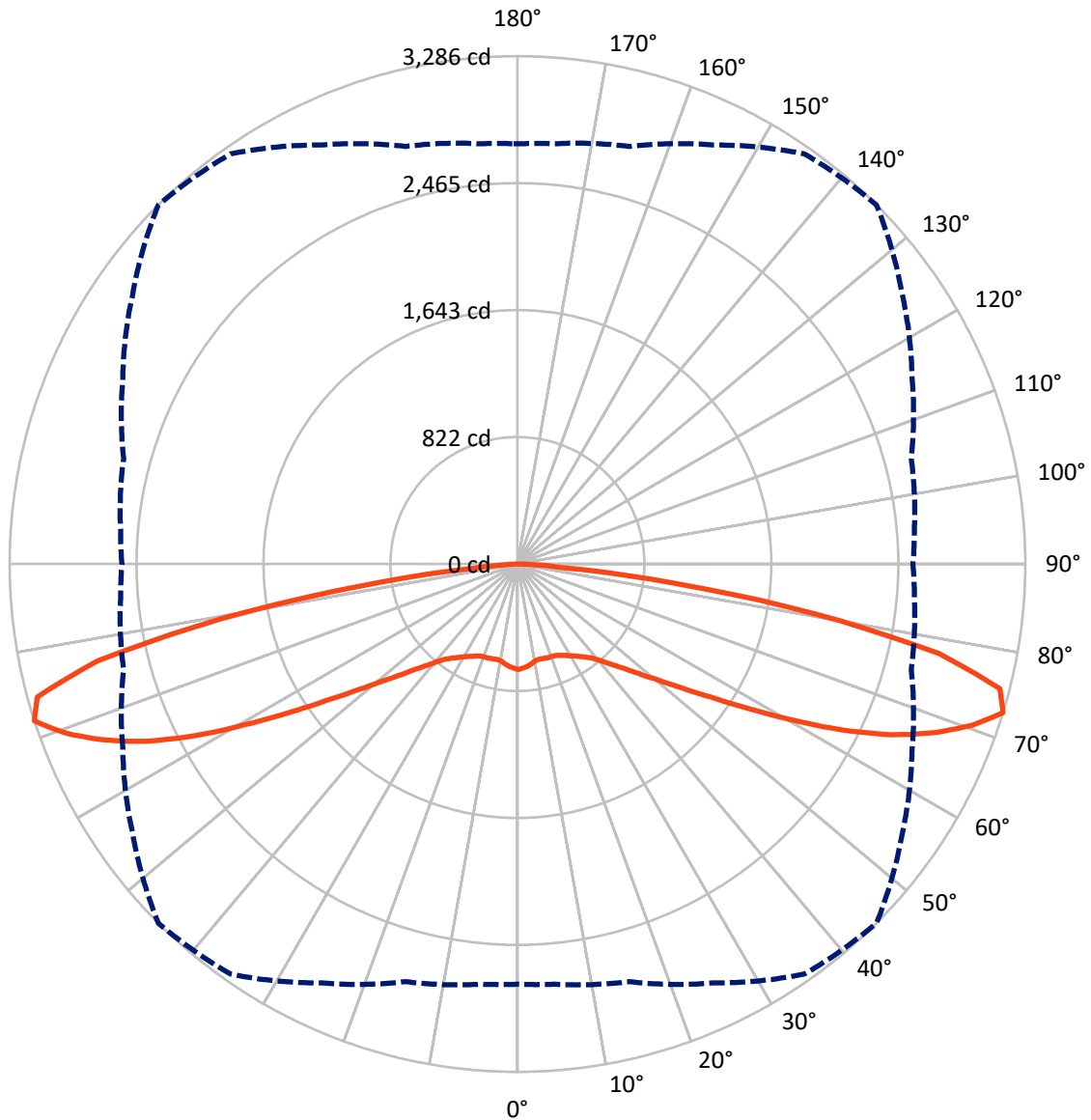
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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	4142.0	0.0	4142.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4142.0	0.0	4142.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8284.0	0.0	8284.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	0.8
10°-20°	181.3	2.2
20°-30°	303.3	3.7
30°-40°	466.1	5.6
40°-50°	771.7	9.3
50°-60°	1372.0	16.6
60°-70°	2400.3	29.0
70°-80°	2442.1	29.5
80°-90°	284.4	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°	8284.0	100.0
0°-180°	8284.0	100.0



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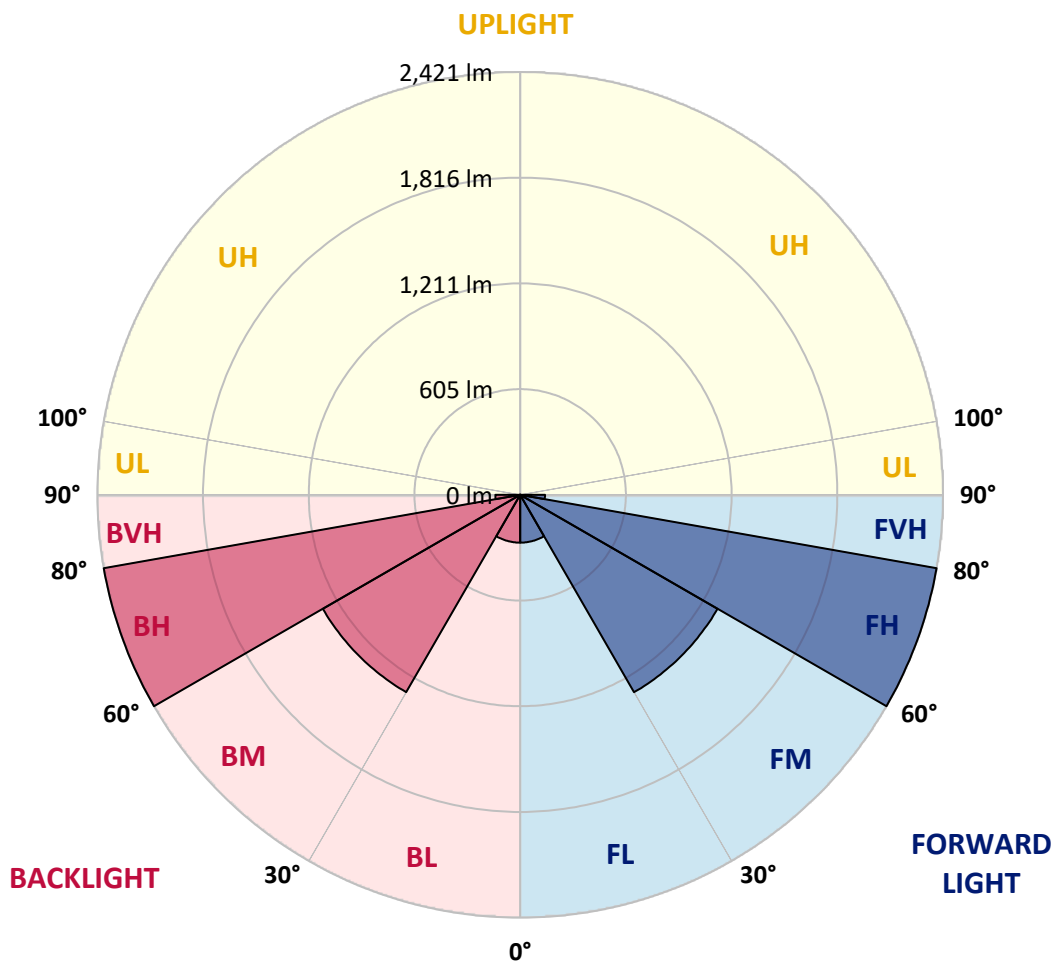
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.7	3.3			
FM (30°-60°)	1304.9	15.8			
FH (60°-80°)	2421.2	29.2			G2/5000
FVH (80°-90°)	142.2	1.7			G2/225
BL (0°-30°)	273.7	3.3	B1/500		
BM (30°-60°)	1304.9	15.8	B2/2500		
BH (60°-80°)	2421.2	29.2	B3/2500		G2/5000
BVH (80°-90°)	142.2	1.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8
2.5°	676.5	678.1	674.9	674.9	674.9	673.3	674.9	673.3	674.9	676.5	676.5
5°	670.2	670.2	667.0	667.0	667.0	665.4	667.0	667.0	668.6	670.2	670.2
7.5°	656.0	656.0	654.4	652.8	651.3	651.3	652.8	652.8	654.4	656.0	656.0
10°	648.1	646.5	643.4	638.6	637.1	635.5	638.6	641.8	646.5	651.3	649.7
12.5°	644.9	643.4	637.1	632.3	629.2	630.8	633.9	637.1	644.9	649.7	648.1
15°	648.1	644.9	637.1	629.2	630.8	633.9	637.1	637.1	646.5	651.3	651.3
17.5°	648.1	646.5	637.1	630.8	632.3	637.1	638.6	637.1	644.9	652.8	652.8
20°	649.7	649.7	637.1	632.3	633.9	638.6	640.2	638.6	644.9	654.4	654.4
22.5°	652.8	651.3	638.6	635.5	638.6	641.8	643.4	641.8	648.1	656.0	657.6
25°	659.1	656.0	644.9	643.4	649.7	654.4	654.4	651.3	654.4	662.3	662.3
27.5°	667.0	665.4	652.8	652.8	660.7	670.2	665.4	659.1	662.3	670.2	670.2
30°	681.2	679.6	667.0	667.0	678.1	689.1	678.1	670.2	674.9	682.8	684.4
32.5°	701.7	701.7	690.7	687.5	706.4	711.2	706.4	690.7	693.8	704.9	704.9
35°	736.4	733.3	722.2	720.6	739.6	738.0	736.4	722.2	725.4	738.0	738.0
37.5°	782.1	780.6	771.1	766.4	775.8	769.5	772.7	766.4	774.3	783.7	785.3
40°	840.5	838.9	831.0	824.7	827.9	818.4	821.6	824.7	832.6	838.9	840.5
42.5°	913.0	913.0	905.1	894.1	889.4	884.6	884.6	890.9	898.8	906.7	906.7
45°	1002.9	1002.9	993.4	982.4	968.2	960.3	963.5	969.8	979.2	988.7	991.9
47.5°	1108.6	1108.6	1095.9	1084.9	1070.7	1061.2	1061.2	1064.4	1078.6	1086.5	1091.2
50°	1226.8	1222.1	1209.5	1198.4	1190.6	1177.9	1179.5	1177.9	1190.6	1201.6	1204.7
52.5°	1349.8	1348.2	1335.6	1332.5	1337.2	1330.9	1330.9	1315.1	1319.9	1326.2	1324.6
55°	1502.8	1498.0	1487.0	1493.3	1512.2	1521.7	1518.5	1493.3	1479.1	1482.3	1480.7
57.5°	1669.9	1665.2	1662.0	1681.0	1723.5	1763.0	1755.1	1696.7	1669.9	1671.5	1673.1
60°	1840.2	1840.2	1849.7	1897.0	1988.5	2053.1	2029.5	1931.7	1884.4	1874.9	1871.8
62.5°	2015.3	2020.0	2040.5	2119.3	2259.7	2366.9	2307.0	2168.2	2097.3	2078.3	2072.0
65°	2218.7	2223.4	2253.4	2351.1	2537.2	2664.9	2562.4	2431.6	2332.2	2292.8	2286.5
67.5°	2513.6	2516.7	2540.4	2635.0	2810.0	2912.5	2806.9	2690.2	2582.9	2537.2	2534.1
70°	2778.5	2781.6	2802.1	2926.7	3087.6	3123.8	3007.1	2858.9	2746.9	2710.7	2704.4
72.5°	2718.6	2729.6	2797.4	2991.4	3238.9	3286.2	3040.2	2817.9	2638.1	2578.2	2559.3
75°	2280.2	2297.5	2404.8	2696.5	3090.7	3224.7	2844.7	2436.3	2168.2	2053.1	2023.2
77.5°	1330.9	1395.5	1580.0	1953.8	2516.7	2789.5	2343.3	1783.5	1332.5	1143.2	1080.2
80°	364.3	399.0	533.0	898.8	1578.5	1953.8	1494.9	818.4	441.5	331.1	307.5
82.5°	115.1	153.0	194.0	258.6	619.7	1029.7	555.1	241.3	189.2	156.1	138.8
85°	61.5	66.2	108.8	126.2	186.1	288.6	171.9	126.2	113.5	83.6	78.8
87.5°	31.5	33.1	61.5	61.5	82.0	67.8	74.1	67.8	64.7	41.0	36.3
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)