

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: P398039

Luminaire Tested: **ARCH-S-PA1-80-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-80-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 9300 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - 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

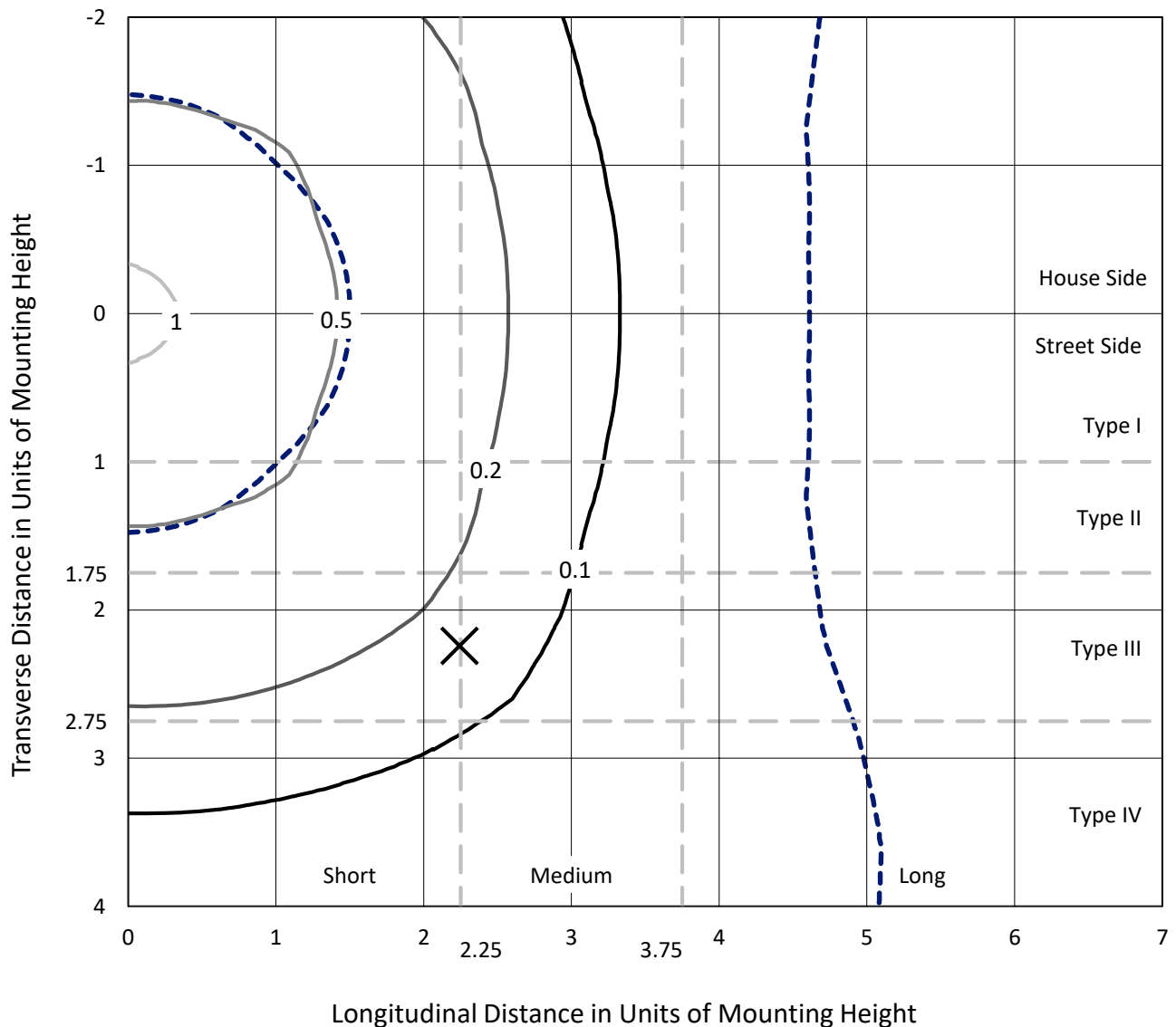


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

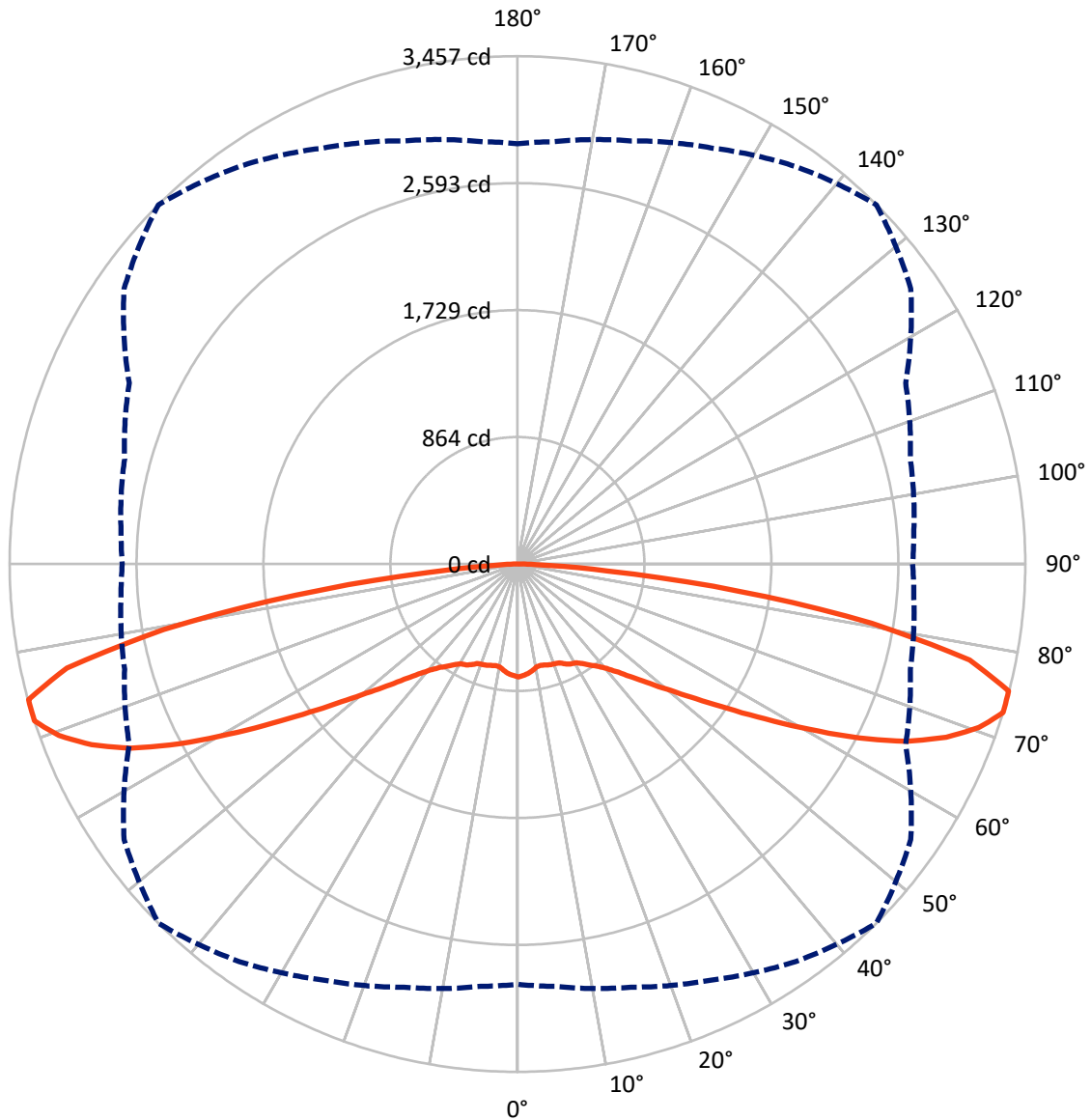


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - Non-Cutoff

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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	4650.0	0.0	4650.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4650.0	0.0	4650.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9300.0	0.0	9300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	0.8
10°-20°	204.8	2.2
20°-30°	348.1	3.7
30°-40°	530.9	5.7
40°-50°	874.2	9.4
50°-60°	1526.5	16.4
60°-70°	2559.3	27.5
70°-80°	2738.9	29.5
80°-90°	446.7	4.8
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°	9300.0	100.0
0°-180°	9300.0	100.0

Coefficient of Utilization



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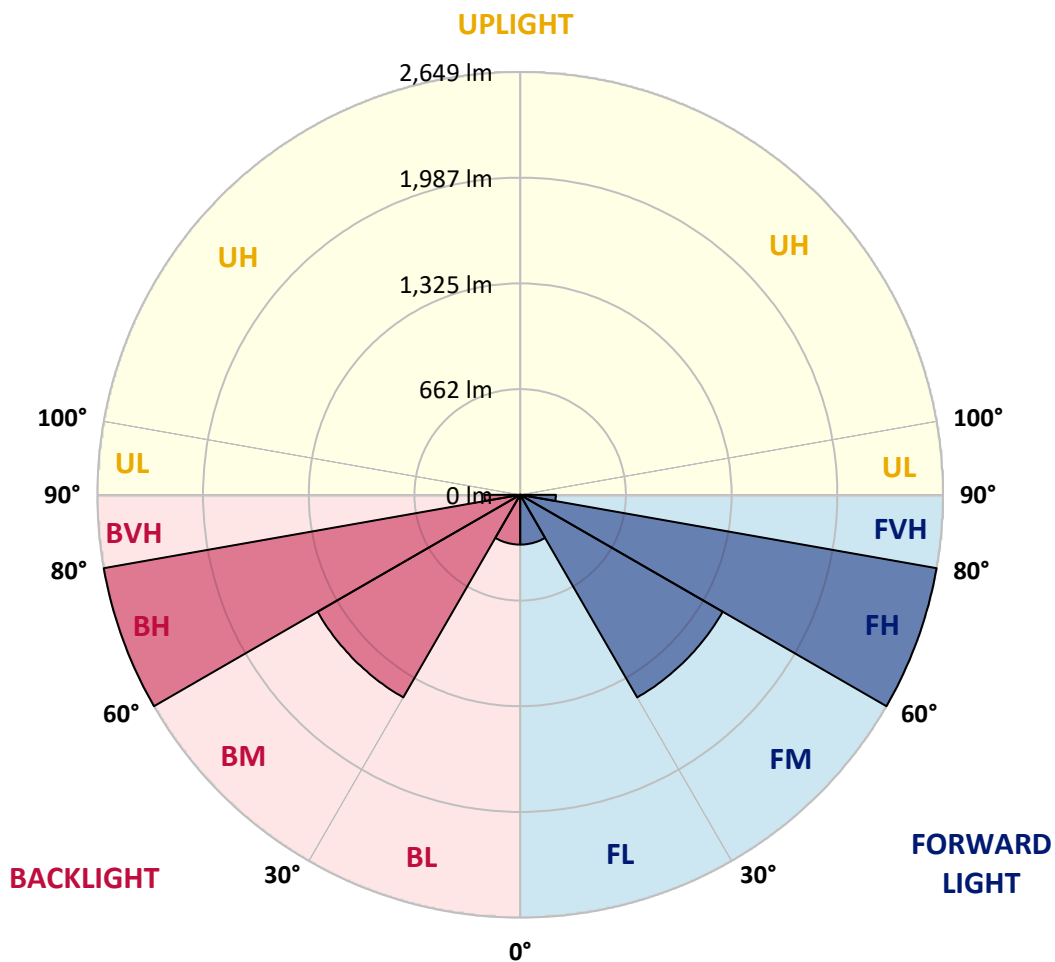
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.7	3.4			
FM	(30°-60°)	1465.8	15.8			
FH	(60°-80°)	2649.1	28.5			G2/5000
FVH	(80°-90°)	223.4	2.4			G2/225
BL	(0°-30°)	311.7	3.4	B1/500		
BM	(30°-60°)	1465.8	15.8	B2/2500		
BH	(60°-80°)	2649.1	28.5	B4/5000		G2/5000
BVH	(80°-90°)	223.4	2.4			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°	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6	769.6
2.5°	764.8	764.8	764.8	763.6	761.3	760.1	757.7	758.9	758.9	758.9	758.9
5°	755.3	755.3	754.1	753.0	750.6	749.4	747.0	749.4	749.4	749.4	749.4
7.5°	737.5	738.7	738.7	737.5	734.0	732.8	729.2	730.4	730.4	731.6	730.4
10°	728.0	728.0	726.8	720.9	715.0	712.6	711.4	715.0	718.5	722.1	722.1
12.5°	728.0	728.0	725.6	716.1	707.8	707.8	707.8	712.6	719.7	726.8	728.0
15°	731.6	731.6	726.8	716.1	711.4	712.6	712.6	717.3	725.6	735.1	736.3
17.5°	734.0	734.0	728.0	717.3	717.3	720.9	718.5	722.1	730.4	741.1	742.3
20°	737.5	737.5	729.2	720.9	720.9	724.5	724.5	728.0	735.1	745.8	747.0
22.5°	744.6	743.5	735.1	728.0	728.0	730.4	732.8	737.5	743.5	753.0	755.3
25°	753.0	753.0	745.8	744.6	747.0	753.0	751.8	750.6	753.0	761.3	764.8
27.5°	757.7	757.7	753.0	756.5	766.0	770.8	764.8	760.1	760.1	768.4	769.6
30°	773.1	772.0	767.2	769.6	777.9	780.3	776.7	770.8	774.3	783.8	785.0
32.5°	799.3	799.3	792.2	792.2	798.1	807.6	795.7	792.2	796.9	807.6	808.8
35°	839.7	839.7	830.2	825.4	830.2	843.2	825.4	824.2	832.5	844.4	845.6
37.5°	890.7	890.7	884.8	872.9	874.1	882.4	867.0	865.8	881.2	894.3	894.3
40°	954.9	958.4	952.5	938.2	933.5	934.7	922.8	924.0	941.8	957.2	957.2
42.5°	1034.4	1036.8	1027.3	1016.6	1010.7	1007.1	995.2	997.6	1019.0	1039.2	1039.2
45°	1130.6	1131.8	1122.3	1109.2	1102.1	1099.7	1087.9	1093.8	1117.6	1138.9	1137.8
47.5°	1238.7	1239.9	1230.4	1217.3	1212.6	1216.1	1204.3	1204.3	1225.6	1243.5	1241.1
50°	1361.0	1363.4	1352.7	1346.8	1343.2	1352.7	1338.5	1325.4	1339.6	1357.5	1355.1
52.5°	1496.4	1502.4	1495.2	1497.6	1510.7	1522.5	1498.8	1470.3	1477.4	1489.3	1485.7
55°	1660.3	1667.4	1669.8	1678.1	1712.6	1732.8	1693.6	1646.1	1642.5	1643.7	1637.7
57.5°	1844.4	1849.1	1864.6	1883.6	1954.8	1986.9	1925.2	1843.2	1817.1	1801.6	1798.1
60°	2029.7	2038.0	2076.0	2115.2	2224.4	2282.6	2187.6	2049.9	1994.0	1965.5	1959.6
62.5°	2216.1	2232.7	2294.5	2361.0	2520.2	2606.9	2460.8	2261.3	2180.5	2144.9	2135.4
65°	2432.3	2452.5	2527.3	2611.6	2788.6	2910.9	2733.9	2479.8	2393.1	2345.6	2333.7
67.5°	2685.2	2706.6	2767.2	2861.0	3028.5	3148.4	2991.6	2703.0	2590.2	2529.7	2520.2
70°	2893.1	2912.1	2977.4	3072.4	3197.1	3333.7	3184.0	2881.2	2779.1	2736.3	2730.4
72.5°	2861.0	2885.9	2982.1	3124.7	3302.8	3457.2	3268.4	2915.6	2768.4	2709.0	2690.0
75°	2498.8	2526.1	2640.1	2897.8	3223.2	3453.6	3146.0	2686.4	2513.0	2463.1	2453.6
77.5°	1654.4	1680.5	1872.9	2279.1	2814.7	3147.2	2776.7	2250.6	1971.5	1851.5	1844.4
80°	668.6	701.9	886.0	1317.1	1995.2	2446.5	2059.4	1440.6	971.5	783.8	745.8
82.5°	155.6	185.3	269.6	485.7	1021.4	1523.7	1110.4	538.0	312.3	222.1	199.5
85°	65.3	66.5	115.2	158.0	319.5	615.2	363.4	196.0	159.1	116.4	114.0
87.5°	24.9	26.1	55.8	66.5	102.1	116.4	123.5	100.9	93.8	58.2	55.8
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)