

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: P398048

Luminaire Tested: **ARCH-S-PA1-80-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398048
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-PA1-80-730-U-5WQ
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: 10127 lumens
Efficiency: N/A
Efficacy: 122.0 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 - G3

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

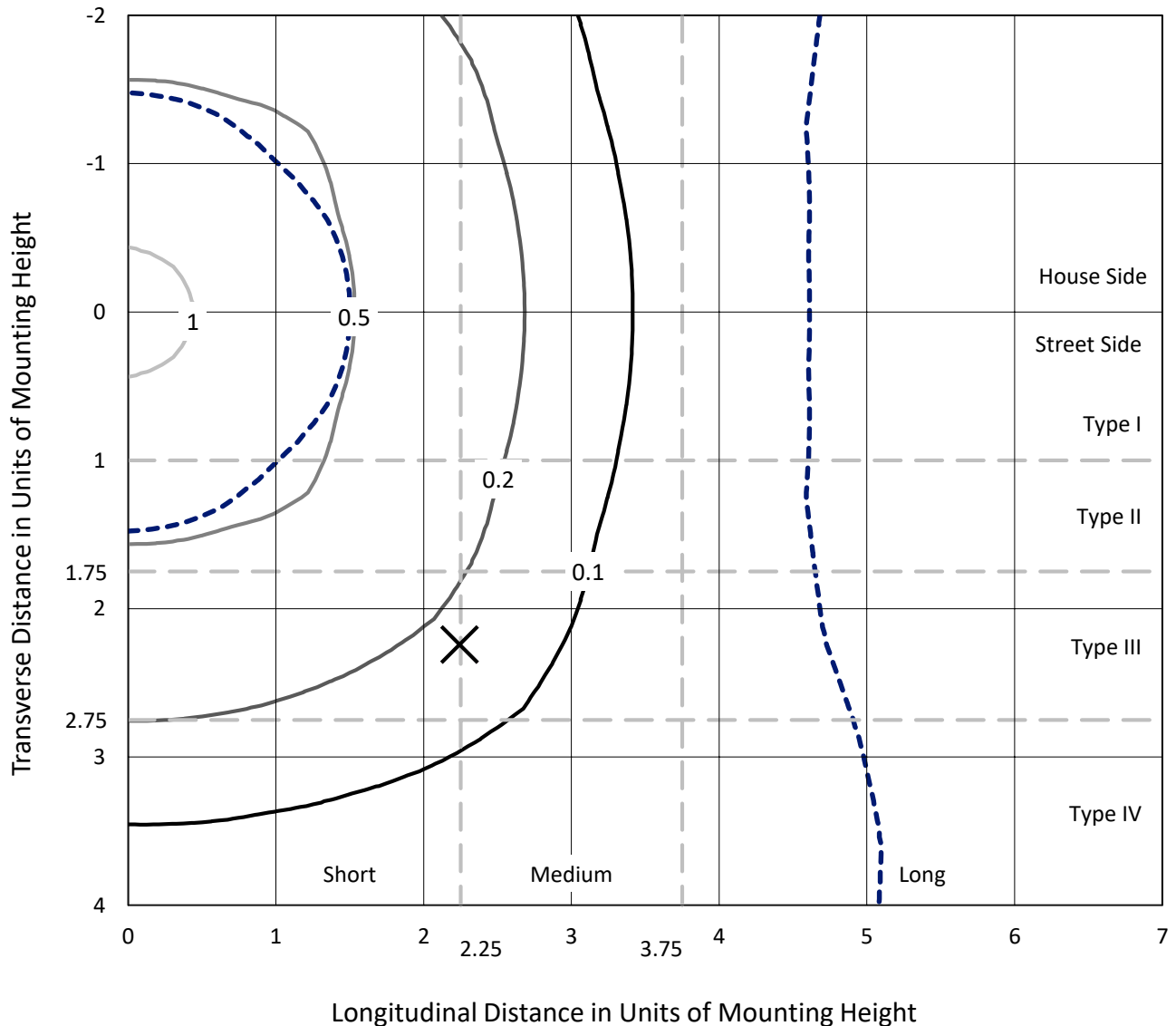


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

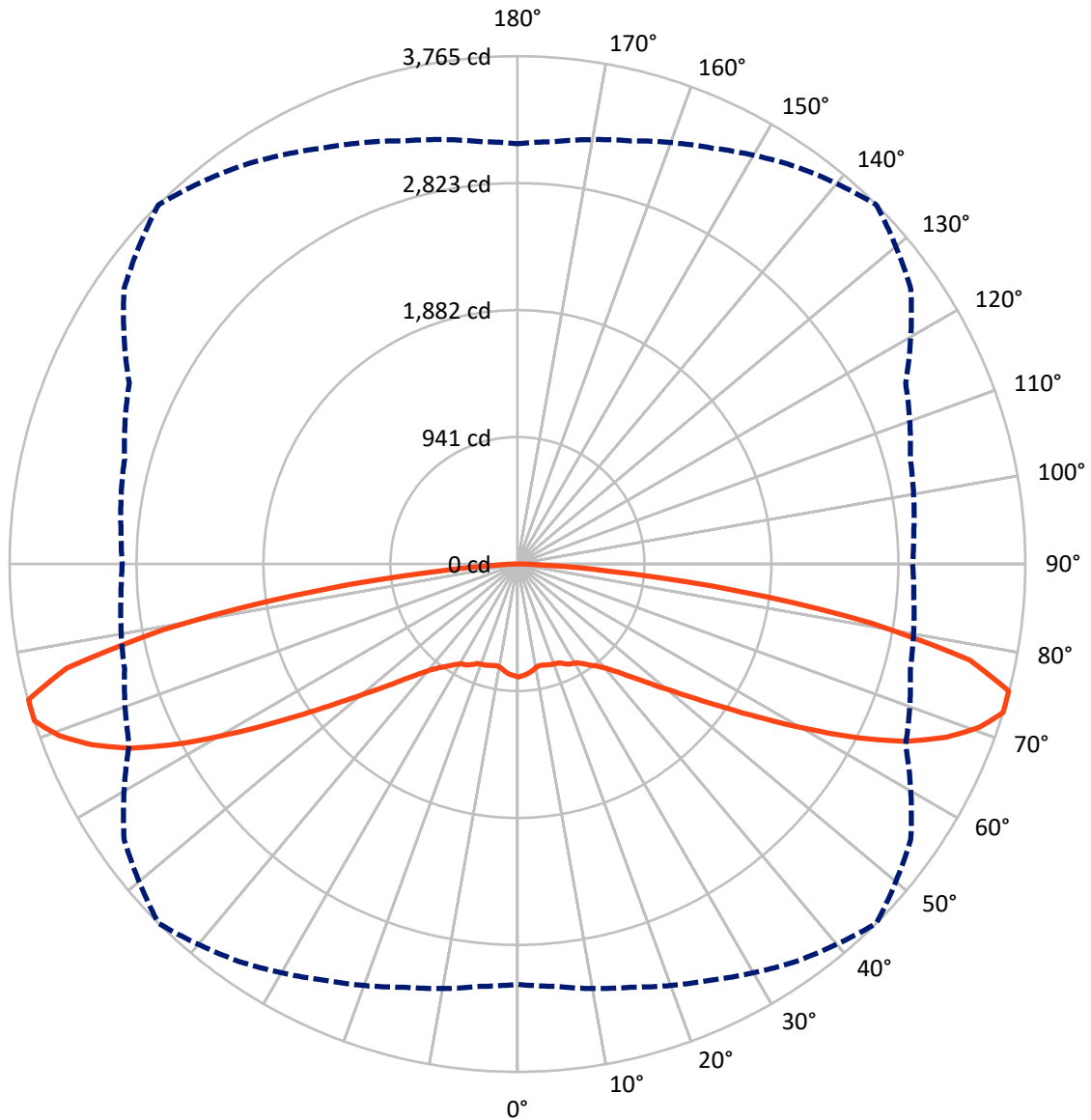


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - Non-Cutoff

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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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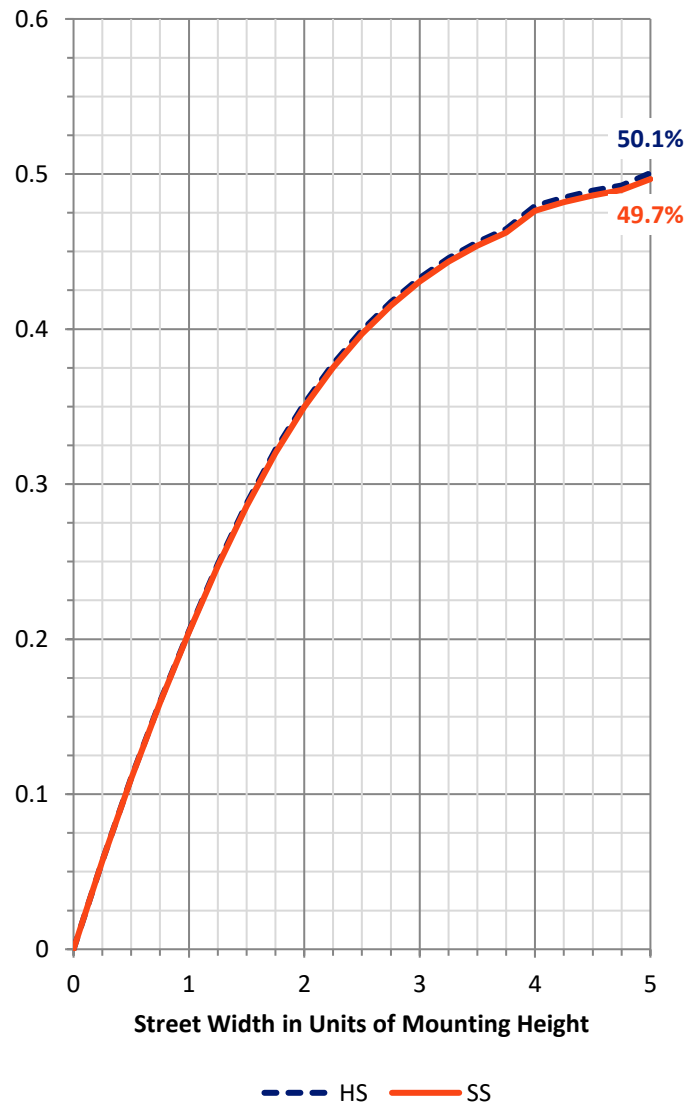
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5063.5	0.0	5063.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5063.5	0.0	5063.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10127.0	0.0	10127.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	0.8
10°-20°	223.1	2.2
20°-30°	379.0	3.7
30°-40°	578.1	5.7
40°-50°	951.9	9.4
50°-60°	1662.3	16.4
60°-70°	2786.9	27.5
70°-80°	2982.5	29.5
80°-90°	486.4	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°	10127.0	100.0
0°-180°	10127.0	100.0



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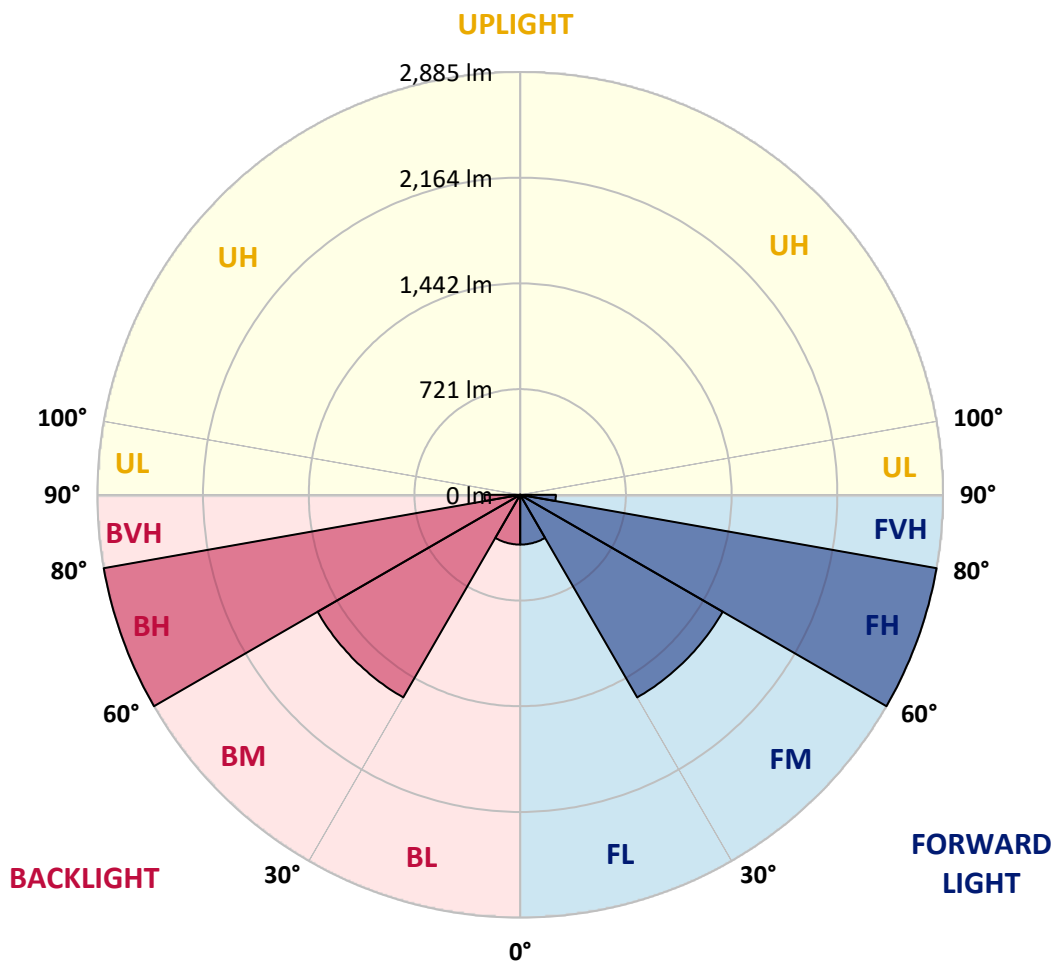
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.5	3.4			
FM	(30°-60°)	1596.1	15.8			
FH	(60°-80°)	2884.7	28.5			G2/5000
FVH	(80°-90°)	243.2	2.4			G3/500
BL	(0°-30°)	339.5	3.4	B1/500		
BM	(30°-60°)	1596.1	15.8	B2/2500		
BH	(60°-80°)	2884.7	28.5	B4/5000		G2/5000
BVH	(80°-90°)	243.2	2.4			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°	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0	838.0
2.5°	832.8	832.8	832.8	831.6	829.0	827.7	825.1	826.4	826.4	826.4	826.4
5°	822.5	822.5	821.2	819.9	817.3	816.0	813.4	816.0	816.0	816.0	816.0
7.5°	803.1	804.4	804.4	803.1	799.2	797.9	794.1	795.3	795.3	796.6	795.3
10°	792.8	792.8	791.5	785.0	778.5	775.9	774.7	778.5	782.4	786.3	786.3
12.5°	792.8	792.8	790.2	779.8	770.8	770.8	770.8	775.9	783.7	791.5	792.8
15°	796.6	796.6	791.5	779.8	774.7	775.9	775.9	781.1	790.2	800.5	801.8
17.5°	799.2	799.2	792.8	781.1	781.1	785.0	782.4	786.3	795.3	807.0	808.3
20°	803.1	803.1	794.1	785.0	785.0	788.9	788.9	792.8	800.5	812.2	813.4
22.5°	810.9	809.6	800.5	792.8	792.8	795.3	797.9	803.1	809.6	819.9	822.5
25°	819.9	819.9	812.2	810.9	813.4	819.9	818.6	817.3	819.9	829.0	832.8
27.5°	825.1	825.1	819.9	823.8	834.1	839.3	832.8	827.7	827.7	836.7	838.0
30°	841.9	840.6	835.4	838.0	847.1	849.7	845.8	839.3	843.2	853.5	854.8
32.5°	870.4	870.4	862.6	862.6	869.1	879.4	866.5	862.6	867.8	879.4	880.7
35°	914.3	914.3	904.0	898.8	904.0	918.2	898.8	897.5	906.6	919.5	920.8
37.5°	969.9	969.9	963.5	950.5	951.8	960.9	944.1	942.8	959.6	973.8	973.8
40°	1039.8	1043.6	1037.2	1021.7	1016.5	1017.8	1004.8	1006.1	1025.5	1042.4	1042.4
42.5°	1126.4	1129.0	1118.7	1107.0	1100.5	1096.7	1083.7	1086.3	1109.6	1131.6	1131.6
45°	1231.2	1232.5	1222.1	1207.9	1200.1	1197.5	1184.6	1191.1	1216.9	1240.2	1238.9
47.5°	1348.9	1350.1	1339.8	1325.6	1320.4	1324.3	1311.3	1311.3	1334.6	1354.0	1351.4
50°	1482.1	1484.6	1473.0	1466.5	1462.7	1473.0	1457.5	1443.3	1458.8	1478.2	1475.6
52.5°	1629.5	1636.0	1628.2	1630.8	1645.0	1657.9	1632.1	1601.0	1608.8	1621.7	1617.8
55°	1808.0	1815.7	1818.3	1827.4	1864.9	1886.8	1844.2	1792.4	1788.6	1789.8	1783.4
57.5°	2008.4	2013.6	2030.4	2051.1	2128.7	2163.6	2096.3	2007.1	1978.7	1961.8	1958.0
60°	2210.1	2219.2	2260.6	2303.3	2422.2	2485.6	2382.2	2232.1	2171.4	2140.3	2133.8
62.5°	2413.2	2431.3	2498.5	2571.0	2744.3	2838.7	2679.6	2462.3	2374.4	2335.6	2325.2
65°	2648.6	2670.5	2752.0	2843.8	3036.5	3169.7	2977.0	2700.3	2605.9	2554.2	2541.2
67.5°	2924.0	2947.3	3013.3	3115.4	3297.8	3428.4	3257.7	2943.4	2820.6	2754.6	2744.3
70°	3150.3	3171.0	3242.2	3345.6	3481.4	3630.1	3467.2	3137.4	3026.2	2979.6	2973.2
72.5°	3115.4	3142.6	3247.3	3402.5	3596.5	3764.6	3559.0	3174.9	3014.5	2949.9	2929.2
75°	2721.0	2750.7	2874.9	3155.5	3509.9	3760.7	3425.8	2925.3	2736.5	2682.2	2671.8
77.5°	1801.5	1829.9	2039.4	2481.7	3065.0	3427.1	3023.6	2450.7	2146.8	2016.2	2008.4
80°	728.1	764.3	964.8	1434.2	2172.6	2664.1	2242.5	1568.7	1057.9	853.5	812.2
82.5°	169.4	201.7	293.6	528.9	1112.2	1659.2	1209.2	585.8	340.1	241.8	217.3
85°	71.1	72.4	125.4	172.0	347.9	669.9	395.7	213.4	173.3	126.7	124.2
87.5°	27.2	28.5	60.8	72.4	111.2	126.7	134.5	109.9	102.2	63.4	60.8
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)