

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: P348700

Luminaire Tested: **ARCH-N-PA1-60-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-60-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6543 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

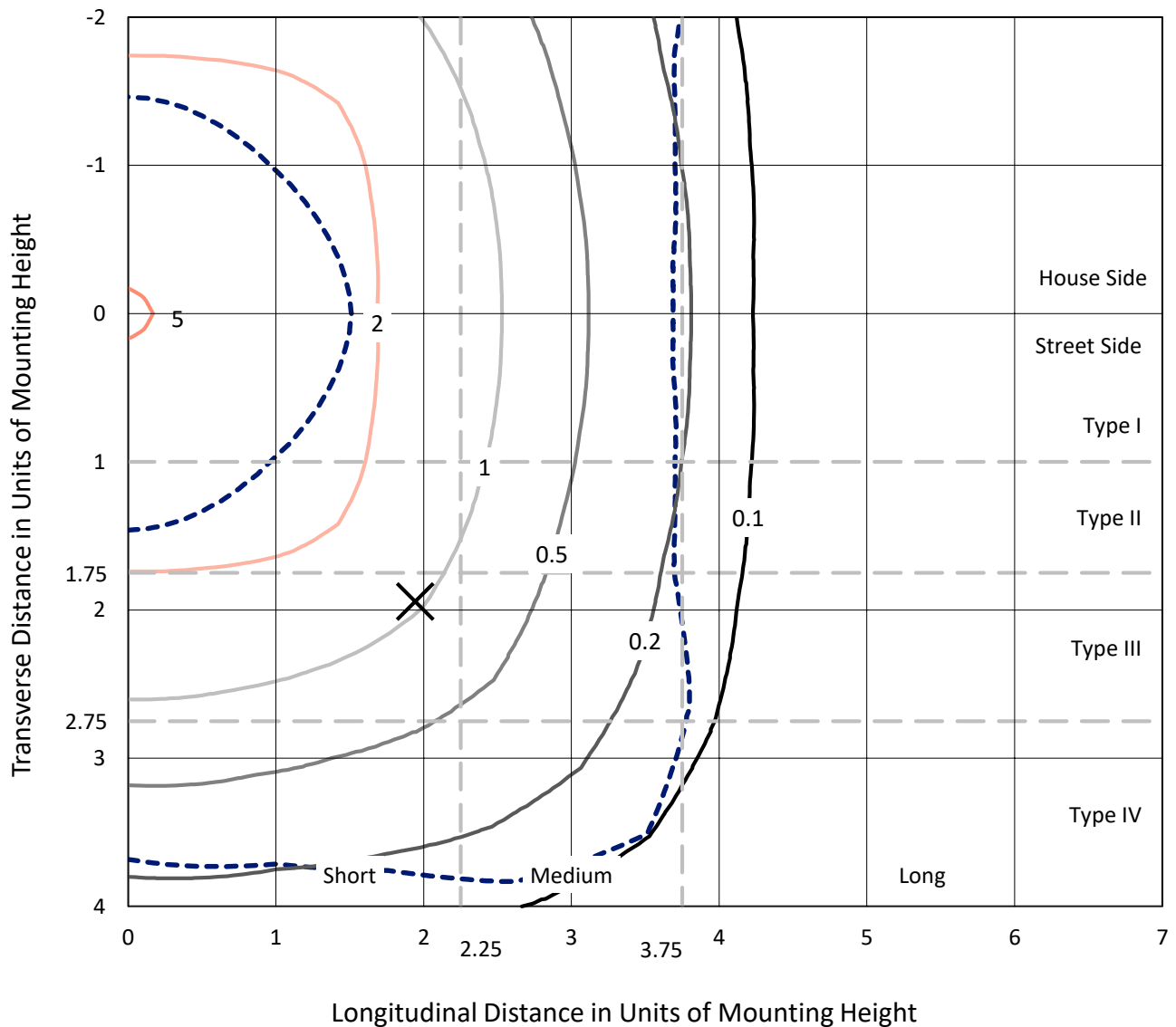
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

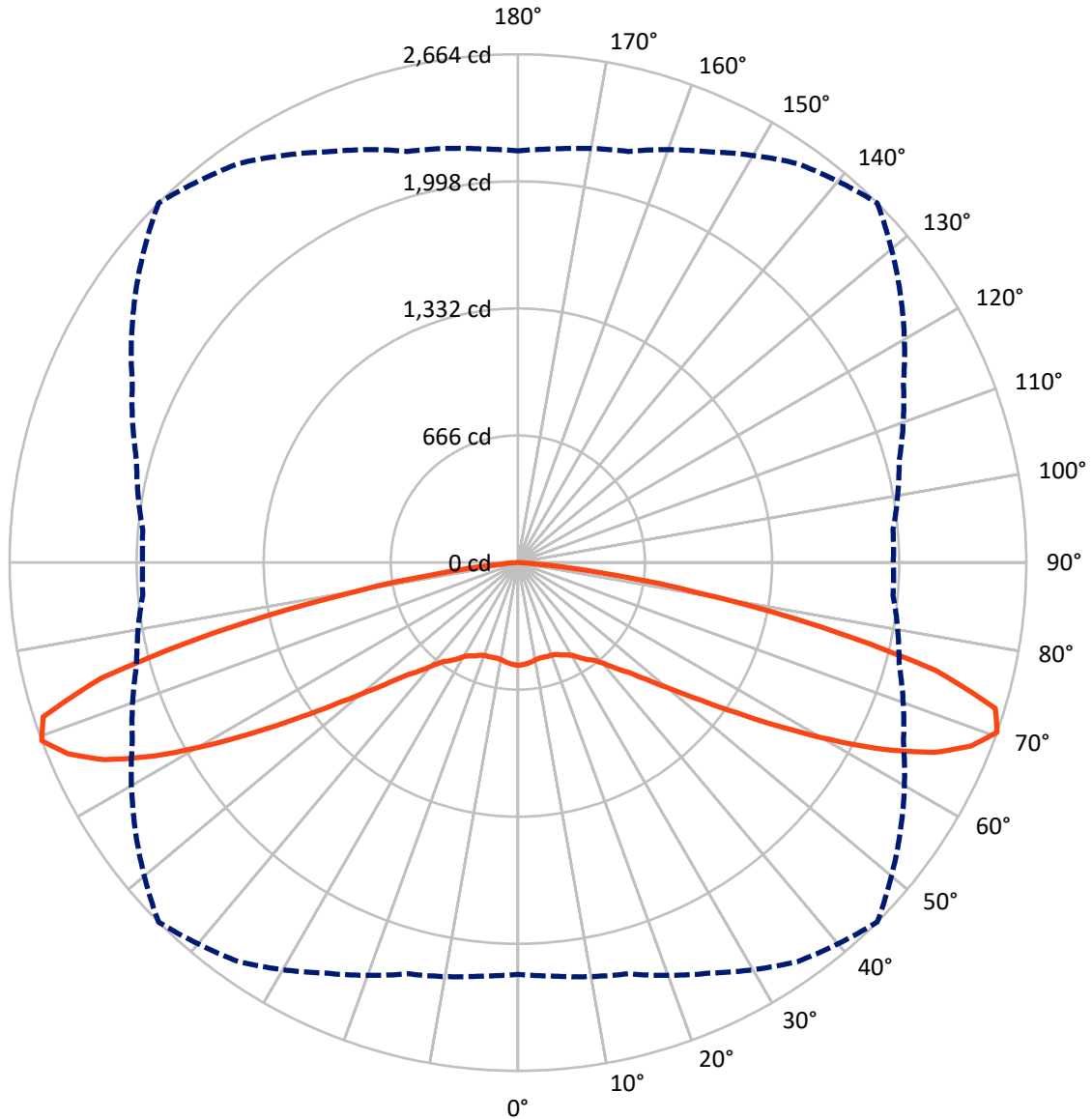
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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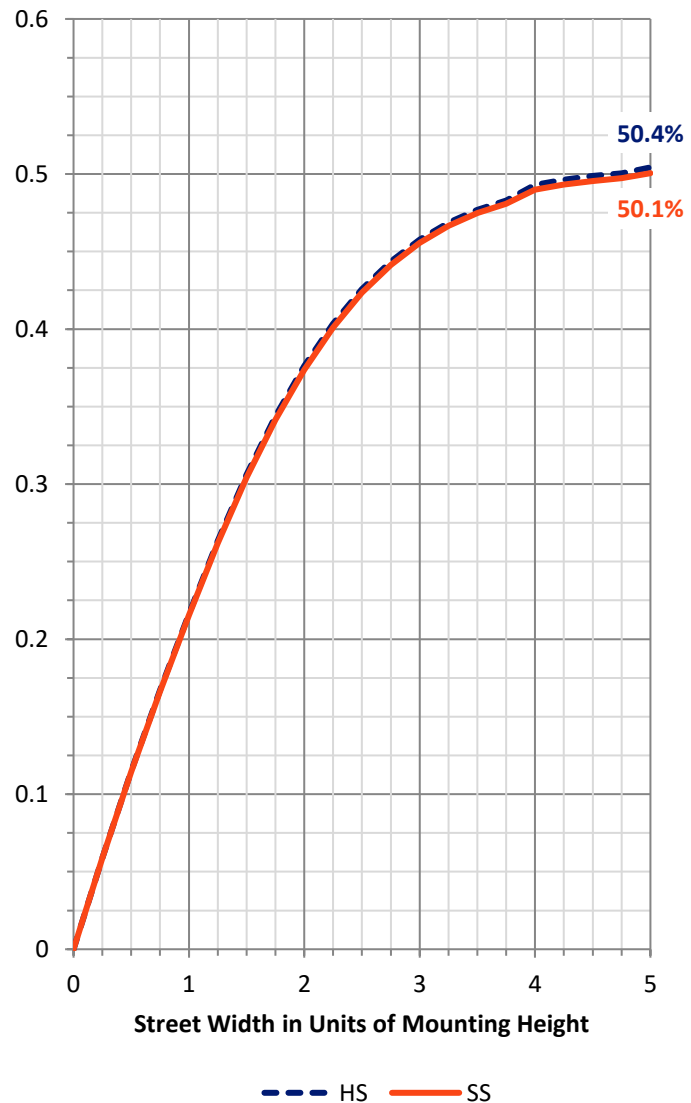
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3271.5	0.0	3271.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3271.5	0.0	3271.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6543.0	0.0	6543.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	0.8
10°-20°	146.8	2.2
20°-30°	250.3	3.8
30°-40°	391.1	6.0
40°-50°	662.8	10.1
50°-60°	1208.7	18.5
60°-70°	2080.9	31.8
70°-80°	1631.1	24.9
80°-90°	120.9	1.8
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°	6543.0	100.0
0°-180°	6543.0	100.0



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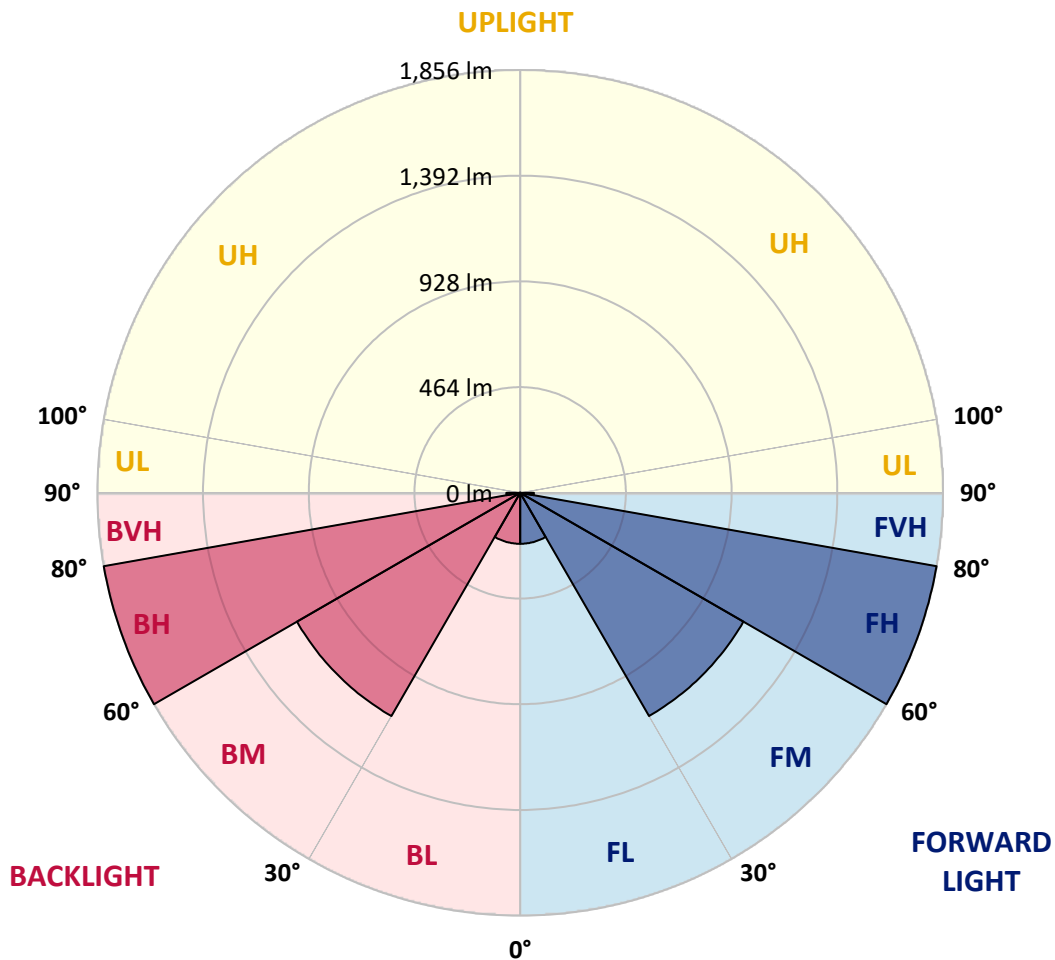
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.7	3.4			
FM	(30°-60°)	1131.3	17.3			
FH	(60°-80°)	1856.0	28.4			G2/5000
FVH	(80°-90°)	60.5	0.9			G1/100
BL	(0°-30°)	223.7	3.4	B1/500		
BM	(30°-60°)	1131.3	17.3	B2/2500		
BH	(60°-80°)	1856.0	28.4	B3/2500		G2/5000
BVH	(80°-90°)	60.5	0.9			G1/100
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°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	536.1	536.8	536.1	536.5	535.5	535.9	535.9	535.9	535.7	535.9	535.5
5°	531.3	531.8	530.9	531.3	530.7	531.3	531.6	531.3	530.9	531.1	530.3
7.5°	524.2	524.6	524.0	524.6	523.8	524.9	524.6	524.0	523.3	523.3	522.5
10°	520.3	520.5	518.8	518.1	516.2	516.6	517.3	517.9	518.6	519.9	519.7
12.5°	520.5	520.5	517.9	515.1	512.3	513.0	514.0	516.4	519.0	521.4	521.6
15°	522.7	522.5	518.6	514.0	512.1	514.0	514.7	516.2	520.3	524.4	524.6
17.5°	524.2	524.2	518.1	513.0	512.7	515.8	515.5	516.2	520.7	526.8	527.0
20°	527.0	527.0	519.2	513.6	513.6	516.8	517.1	518.1	522.7	529.4	530.5
22.5°	533.3	533.5	525.3	520.7	521.2	523.1	523.8	525.5	529.6	537.0	538.3
25°	542.2	542.6	534.2	531.6	533.1	536.8	536.3	537.6	542.2	549.3	550.6
27.5°	554.5	553.4	545.6	544.5	546.1	548.7	548.4	548.7	552.3	558.8	560.3
30°	570.5	570.1	564.5	565.1	564.5	563.6	563.8	565.5	567.5	572.7	574.2
32.5°	586.1	586.5	583.1	586.3	591.1	594.3	589.4	584.6	582.4	585.2	586.5
35°	614.2	615.3	609.9	607.7	614.2	623.8	609.7	601.9	606.2	609.9	611.0
37.5°	662.1	662.7	653.6	645.0	640.2	649.3	635.2	635.9	651.0	658.0	657.7
40°	716.6	716.8	710.8	703.2	695.0	697.1	691.5	693.2	703.2	709.5	711.2
42.5°	781.5	780.9	771.4	760.6	758.2	760.3	750.8	749.5	761.0	772.2	772.5
45°	865.7	864.2	851.9	840.0	828.5	823.8	821.4	827.6	843.4	853.8	854.1
47.5°	956.4	952.3	945.8	936.3	926.3	921.6	917.7	920.7	932.2	936.3	936.7
50°	1049.7	1050.6	1051.9	1048.2	1044.5	1043.0	1032.8	1027.0	1030.4	1022.9	1021.8
52.5°	1160.3	1162.0	1174.6	1185.2	1191.5	1194.7	1175.5	1155.3	1144.1	1129.4	1125.0
55°	1290.8	1293.6	1312.0	1341.5	1371.8	1387.8	1352.9	1315.3	1280.4	1252.9	1244.1
57.5°	1436.3	1441.2	1466.6	1523.1	1585.2	1623.0	1564.2	1495.8	1428.5	1388.9	1381.9
60°	1606.8	1611.6	1646.6	1727.6	1828.2	1885.1	1796.0	1684.1	1600.3	1562.4	1549.7
62.5°	1809.8	1810.3	1853.3	1947.9	2080.8	2160.0	2039.2	1889.7	1803.3	1757.7	1745.3
65°	2028.2	2029.3	2073.9	2176.0	2313.5	2399.6	2263.3	2107.4	2001.8	1934.5	1925.0
67.5°	2182.5	2187.1	2234.0	2357.0	2485.5	2563.2	2422.1	2245.9	2123.9	2043.6	2035.6
70°	2157.9	2175.6	2230.8	2374.3	2553.1	2663.9	2447.9	2229.5	2068.5	1973.7	1967.0
72.5°	1881.9	1915.9	1989.5	2177.8	2463.7	2616.3	2307.4	1996.8	1814.6	1733.9	1721.7
75°	1281.5	1336.7	1447.7	1719.4	2104.8	2265.2	1942.5	1592.1	1420.7	1309.0	1300.8
77.5°	571.4	583.9	724.6	1037.4	1452.5	1626.7	1411.4	1041.5	781.8	623.5	590.2
80°	159.3	161.2	215.1	386.3	727.0	955.8	780.5	405.8	228.1	160.8	151.5
82.5°	50.6	55.0	67.1	100.2	244.4	436.1	250.8	108.2	77.1	61.5	55.4
85°	24.7	24.5	34.0	40.7	62.3	96.5	66.4	50.2	43.9	29.2	26.4
87.5°	10.4	10.6	15.8	14.3	18.2	15.6	21.4	22.5	23.6	13.0	11.3
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)