

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: P397823

Luminaire Tested: **ARCH-S-PA1-50-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397823
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-PA1-50-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6724 lumens
Efficiency: N/A
Efficacy: 124.5 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

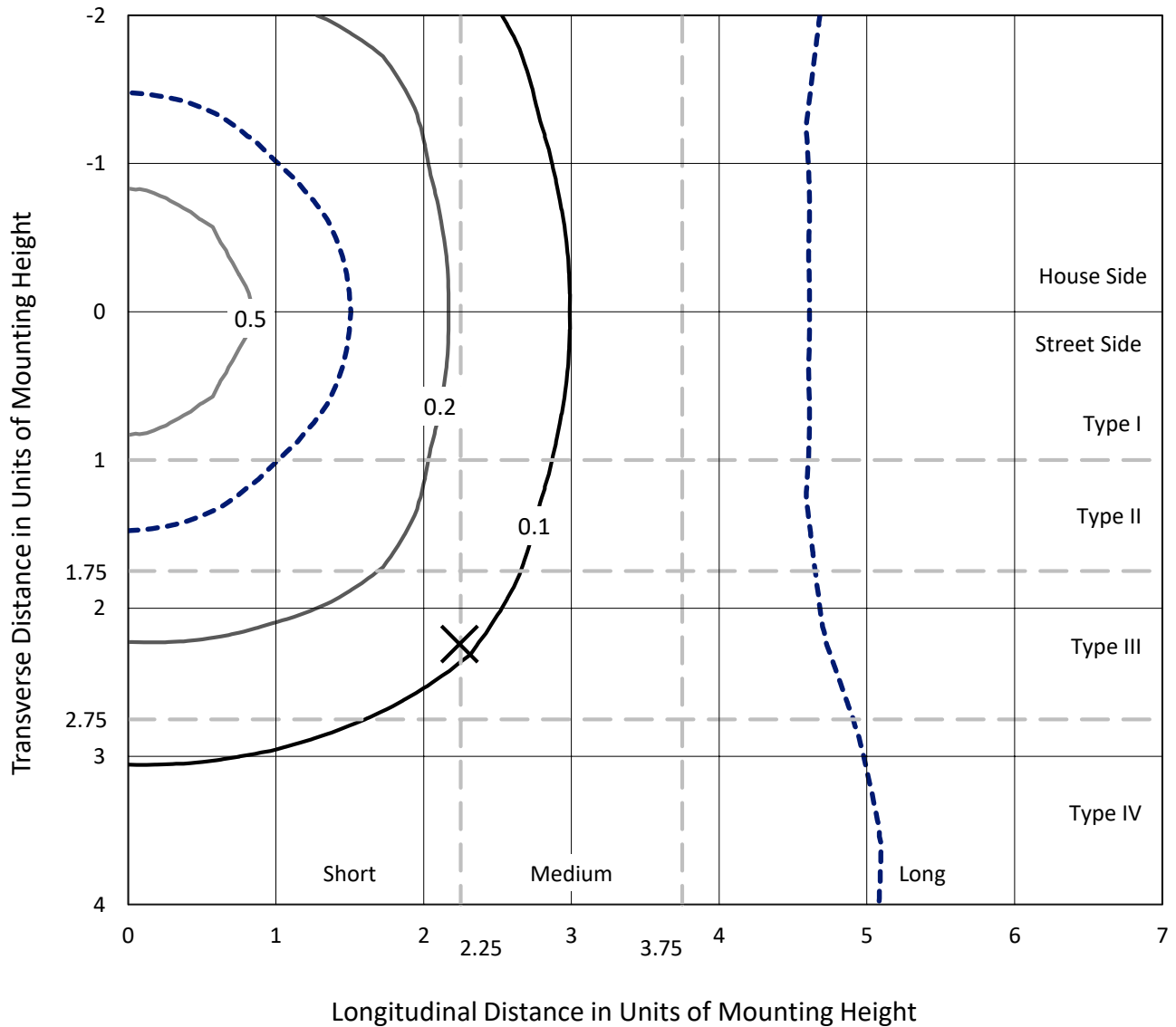
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

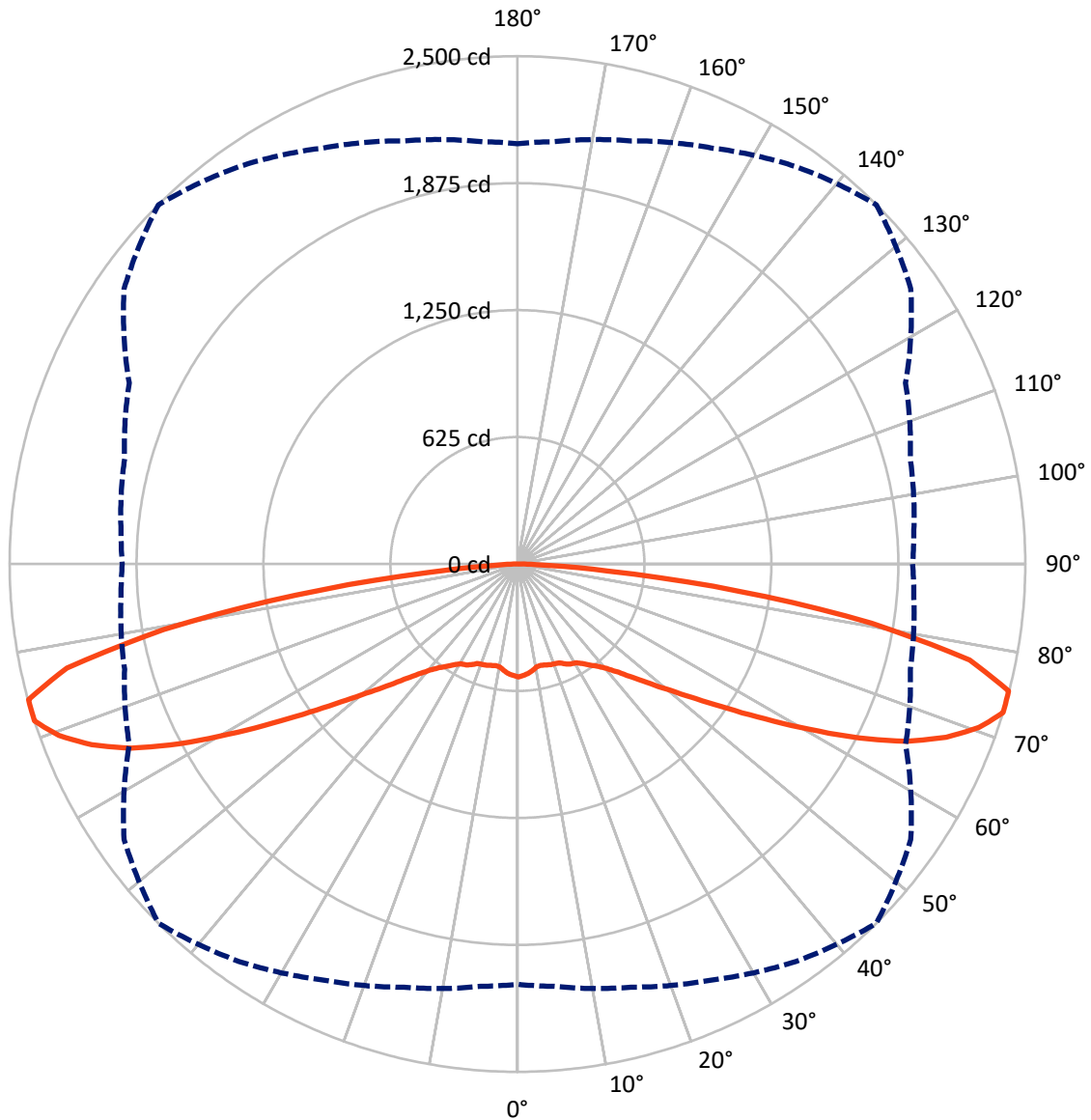


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - Non-Cutoff

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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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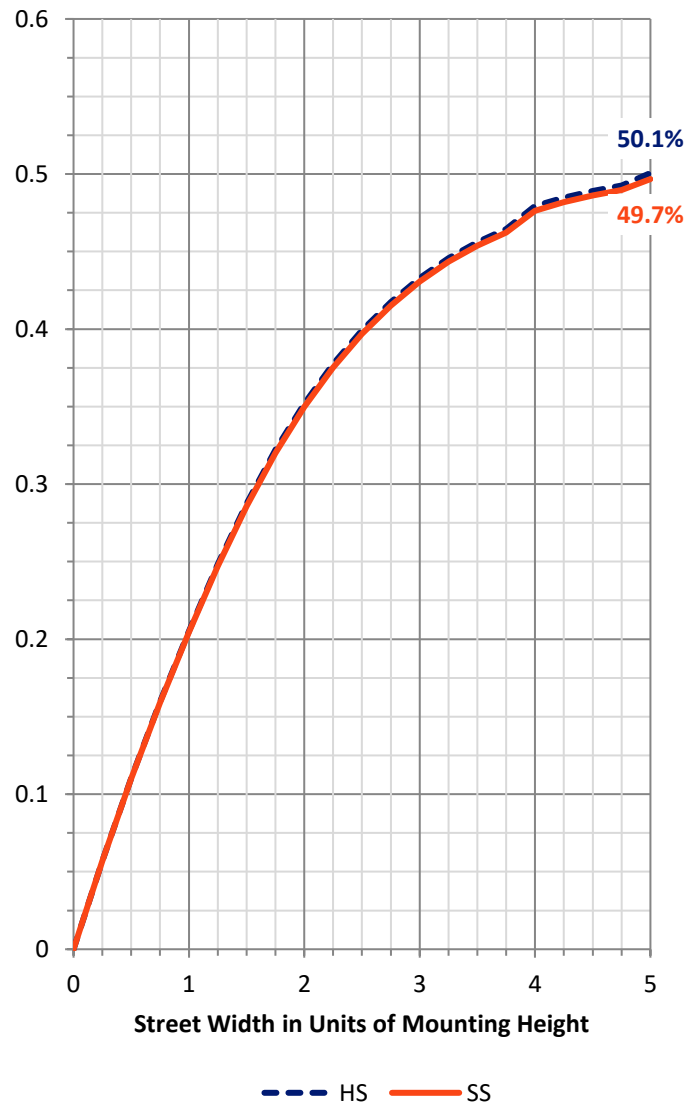
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3362.0	0.0	3362.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3362.0	0.0	3362.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6724.0	0.0	6724.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	0.8
10°-20°	148.1	2.2
20°-30°	251.6	3.7
30°-40°	383.8	5.7
40°-50°	632.0	9.4
50°-60°	1103.7	16.4
60°-70°	1850.4	27.5
70°-80°	1980.3	29.5
80°-90°	323.0	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°	6724.0	100.0
0°-180°	6724.0	100.0



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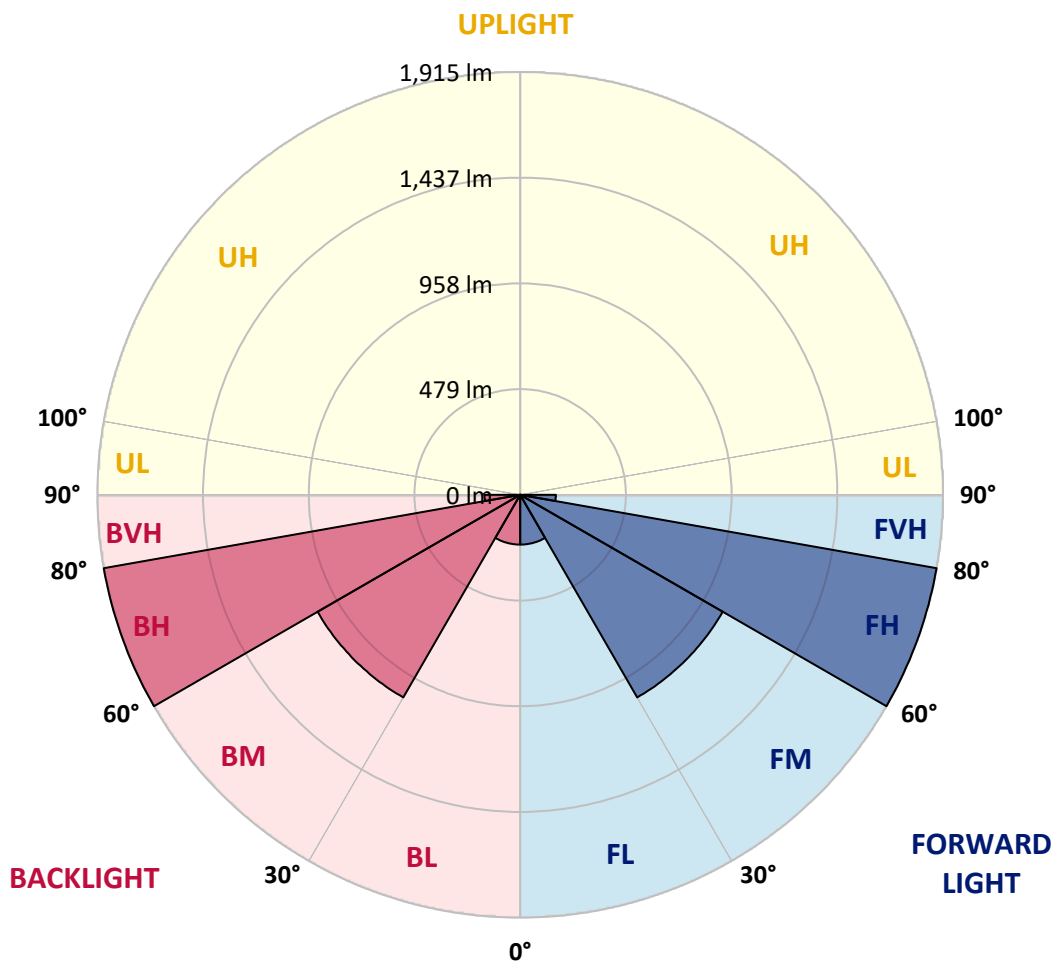
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.4	3.4			
FM	(30°-60°)	1059.8	15.8			
FH	(60°-80°)	1915.3	28.5			G2/5000
FVH	(80°-90°)	161.5	2.4			G2/225
BL	(0°-30°)	225.4	3.4	B1/500		
BM	(30°-60°)	1059.8	15.8	B2/2500		
BH	(60°-80°)	1915.3	28.5	B3/2500		G2/5000
BVH	(80°-90°)	161.5	2.4			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°	556.4	556.4	556.4	556.4	556.4	556.4	556.4	556.4	556.4	556.4	556.4
2.5°	553.0	553.0	553.0	552.1	550.4	549.5	547.8	548.7	548.7	548.7	548.7
5°	546.1	546.1	545.3	544.4	542.7	541.8	540.1	541.8	541.8	541.8	541.8
7.5°	533.2	534.1	534.1	533.2	530.7	529.8	527.2	528.1	528.1	528.9	528.1
10°	526.4	526.4	525.5	521.2	516.9	515.2	514.3	516.9	519.5	522.1	522.1
12.5°	526.4	526.4	524.6	517.8	511.8	511.8	511.8	515.2	520.4	525.5	526.4
15°	528.9	528.9	525.5	517.8	514.3	515.2	515.2	518.6	524.6	531.5	532.4
17.5°	530.7	530.7	526.4	518.6	518.6	521.2	519.5	522.1	528.1	535.8	536.7
20°	533.2	533.2	527.2	521.2	521.2	523.8	523.8	526.4	531.5	539.2	540.1
22.5°	538.4	537.5	531.5	526.4	526.4	528.1	529.8	533.2	537.5	544.4	546.1
25°	544.4	544.4	539.2	538.4	540.1	544.4	543.5	542.7	544.4	550.4	553.0
27.5°	547.8	547.8	544.4	547.0	553.8	557.3	553.0	549.5	549.5	555.6	556.4
30°	559.0	558.1	554.7	556.4	562.4	564.1	561.6	557.3	559.9	566.7	567.6
32.5°	577.9	577.9	572.7	572.7	577.0	583.9	575.3	572.7	576.2	583.9	584.8
35°	607.1	607.1	600.2	596.8	600.2	609.7	596.8	595.9	601.9	610.5	611.4
37.5°	644.0	644.0	639.7	631.1	632.0	638.0	626.8	626.0	637.1	646.6	646.6
40°	690.4	692.9	688.7	678.3	674.9	675.8	667.2	668.0	680.9	692.1	692.1
42.5°	747.9	749.6	742.7	735.0	730.7	728.2	719.6	721.3	736.7	751.3	751.3
45°	817.5	818.3	811.4	802.0	796.8	795.1	786.5	790.8	808.0	823.5	822.6
47.5°	895.6	896.5	889.6	880.1	876.7	879.3	870.7	870.7	886.1	899.0	897.3
50°	984.0	985.8	978.0	973.7	971.2	978.0	967.7	958.3	968.6	981.5	979.7
52.5°	1081.9	1086.2	1081.1	1082.8	1092.2	1100.8	1083.6	1063.0	1068.2	1076.8	1074.2
55°	1200.4	1205.6	1207.3	1213.3	1238.2	1252.8	1224.5	1190.1	1187.5	1188.4	1184.1
57.5°	1333.5	1336.9	1348.1	1361.9	1413.4	1436.6	1391.9	1332.7	1313.8	1302.6	1300.0
60°	1467.5	1473.5	1501.0	1529.3	1608.3	1650.4	1581.7	1482.1	1441.7	1421.1	1416.8
62.5°	1602.3	1614.3	1659.0	1707.0	1822.1	1884.8	1779.2	1634.9	1576.5	1550.8	1543.9
65°	1758.6	1773.2	1827.3	1888.2	2016.2	2104.6	1976.7	1792.9	1730.2	1695.9	1687.3
67.5°	1941.5	1956.9	2000.7	2068.5	2189.6	2276.3	2163.0	1954.3	1872.8	1829.0	1822.1
70°	2091.7	2105.5	2152.7	2221.4	2311.5	2410.3	2302.1	2083.1	2009.3	1978.4	1974.1
72.5°	2068.5	2086.6	2156.1	2259.2	2388.0	2499.6	2363.1	2108.0	2001.6	1958.6	1944.9
75°	1806.6	1826.4	1908.8	2095.2	2330.4	2497.0	2274.6	1942.3	1816.9	1780.9	1774.0
77.5°	1196.1	1215.0	1354.1	1647.8	2035.0	2275.5	2007.6	1627.2	1425.4	1338.7	1333.5
80°	483.4	507.5	640.6	952.3	1442.6	1768.9	1488.9	1041.6	702.4	566.7	539.2
82.5°	112.5	134.0	194.9	351.2	738.5	1101.7	802.9	389.0	225.8	160.6	144.3
85°	47.2	48.1	83.3	114.2	231.0	444.8	262.8	141.7	115.1	84.1	82.4
87.5°	18.0	18.9	40.4	48.1	73.8	84.1	89.3	73.0	67.8	42.1	40.4
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)