

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: P397895

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

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397895
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-PA1-60-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7719 lumens
Efficiency: N/A
Efficacy: 120.6 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

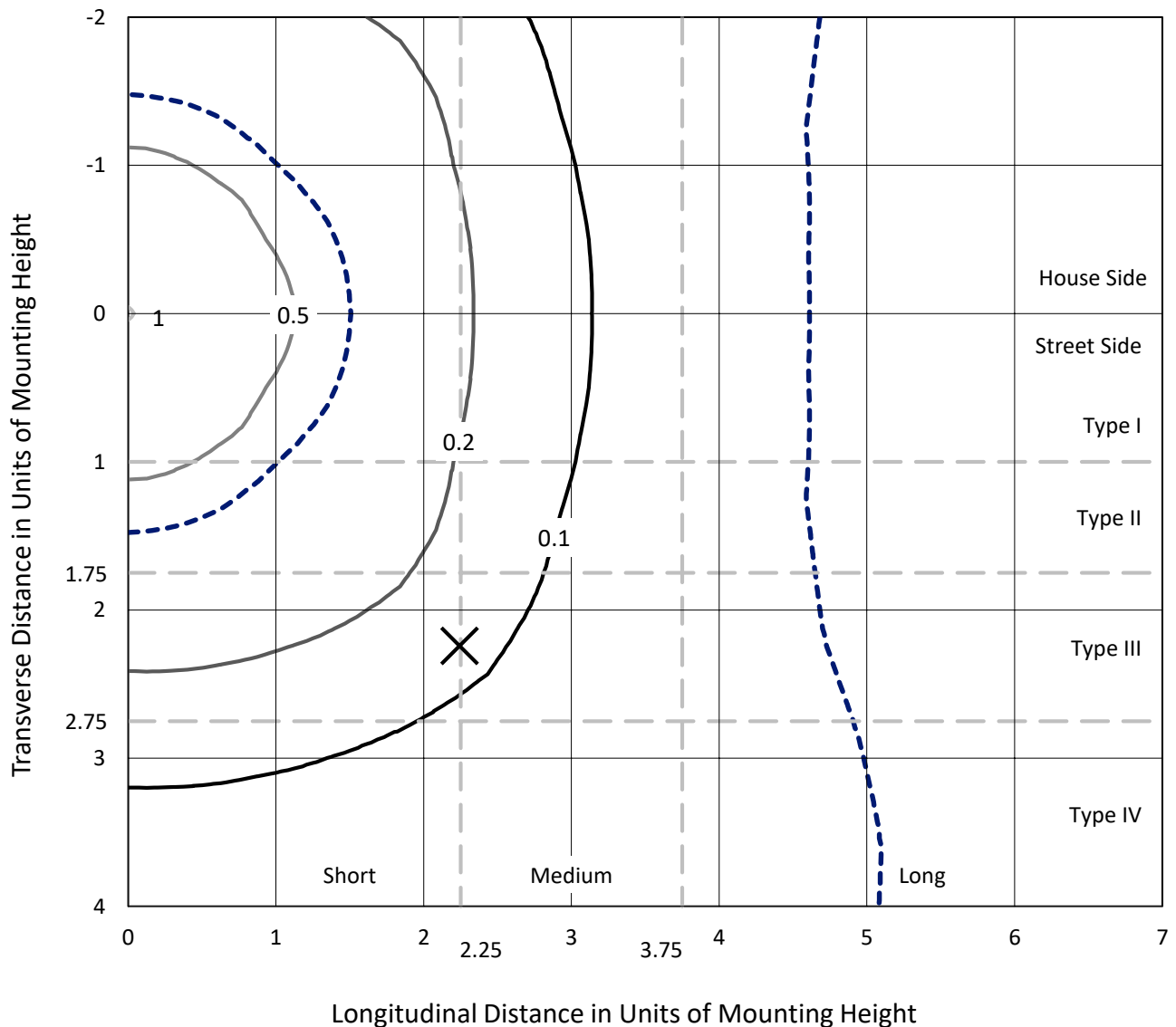
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P397895
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Iso-Footcandle Lines of Horizontal Illumination

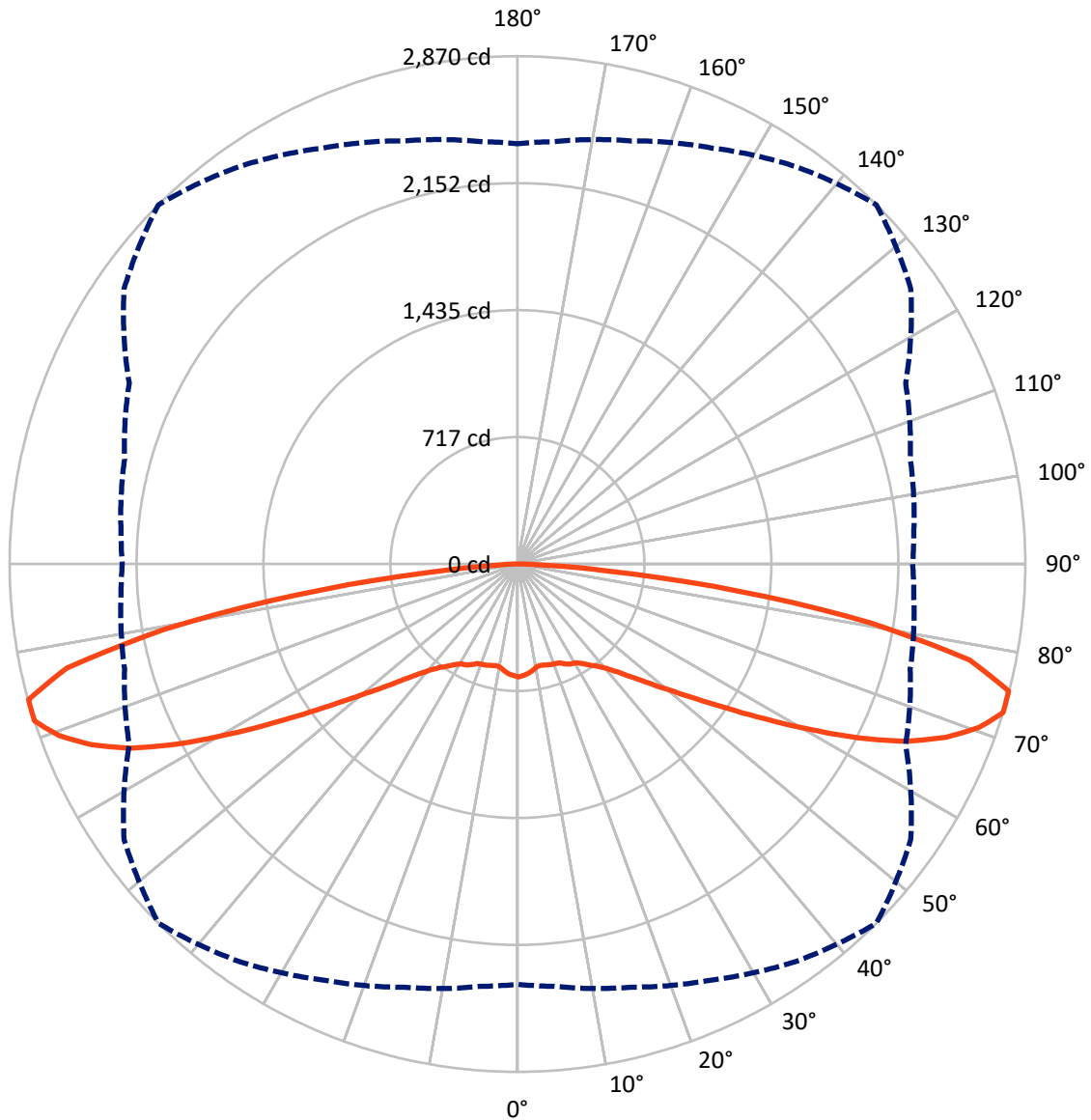
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P397895
CATALOG NUMBER: ARCH-S-PA1-60-727-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: ARCH-S-PA1-60-727-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3859.5	0.0	3859.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3859.5	0.0	3859.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7719.0	0.0	7719.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	0.8
10°-20°	170.0	2.2
20°-30°	288.9	3.7
30°-40°	440.6	5.7
40°-50°	725.6	9.4
50°-60°	1267.0	16.4
60°-70°	2124.2	27.5
70°-80°	2273.3	29.5
80°-90°	370.8	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°	7719.0	100.0
0°-180°	7719.0	100.0



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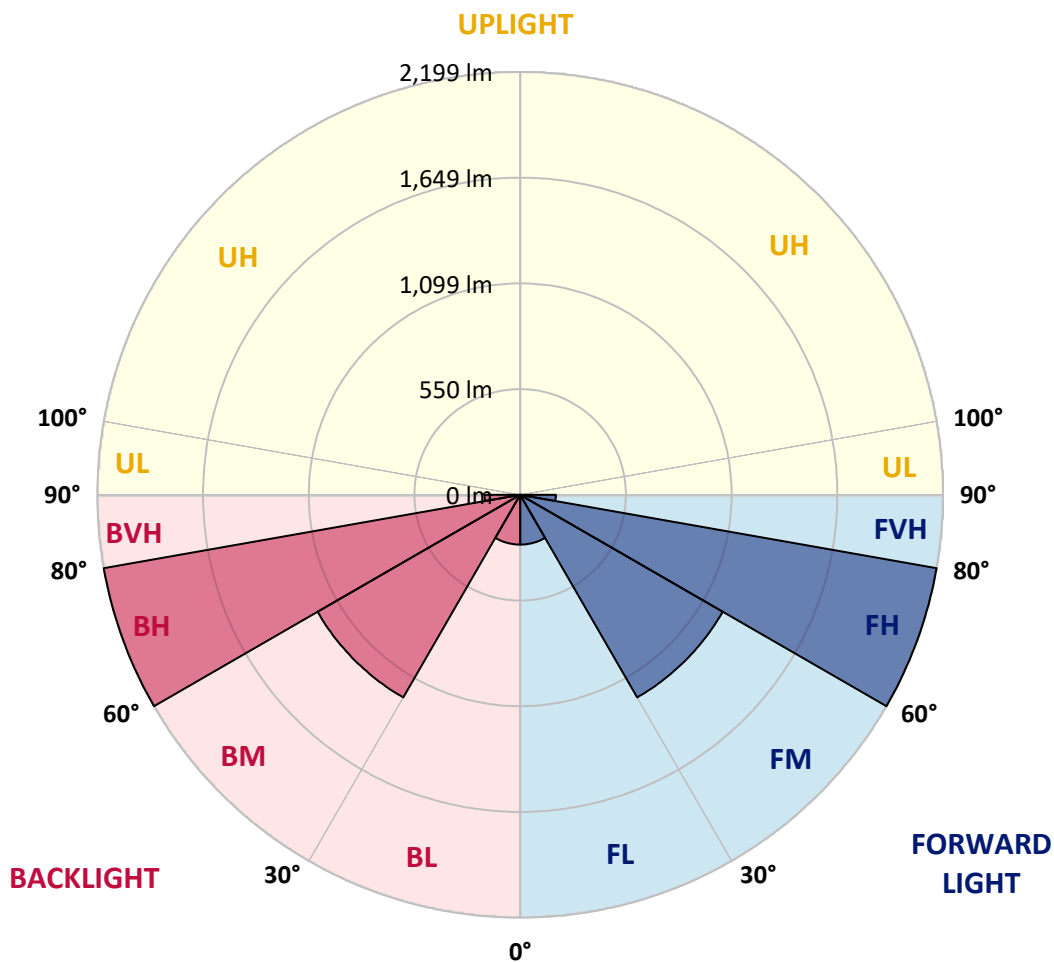
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.7	3.4			
FM	(30°-60°)	1216.6	15.8			
FH	(60°-80°)	2198.8	28.5			G2/5000
FVH	(80°-90°)	185.4	2.4			G2/225
BL	(0°-30°)	258.7	3.4	B1/500		
BM	(30°-60°)	1216.6	15.8	B2/2500		
BH	(60°-80°)	2198.8	28.5	B3/2500		G2/5000
BVH	(80°-90°)	185.4	2.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	634.8	634.8	634.8	633.8	631.9	630.9	628.9	629.9	629.9	629.9	629.9
5°	626.9	626.9	625.9	625.0	623.0	622.0	620.0	622.0	622.0	622.0	622.0
7.5°	612.1	613.1	613.1	612.1	609.2	608.2	605.2	606.2	606.2	607.2	606.2
10°	604.3	604.3	603.3	598.3	593.4	591.4	590.5	593.4	596.4	599.3	599.3
12.5°	604.3	604.3	602.3	594.4	587.5	587.5	587.5	591.4	597.4	603.3	604.3
15°	607.2	607.2	603.3	594.4	590.5	591.4	591.4	595.4	602.3	610.2	611.2
17.5°	609.2	609.2	604.3	595.4	595.4	598.3	596.4	599.3	606.2	615.1	616.1
20°	612.1	612.1	605.2	598.3	598.3	601.3	601.3	604.3	610.2	619.0	620.0
22.5°	618.1	617.1	610.2	604.3	604.3	606.2	608.2	612.1	617.1	625.0	626.9
25°	625.0	625.0	619.0	618.1	620.0	625.0	624.0	623.0	625.0	631.9	634.8
27.5°	628.9	628.9	625.0	627.9	635.8	639.7	634.8	630.9	630.9	637.8	638.8
30°	641.7	640.7	636.8	638.8	645.7	647.6	644.7	639.7	642.7	650.6	651.6
32.5°	663.4	663.4	657.5	657.5	662.4	670.3	660.4	657.5	661.4	670.3	671.3
35°	696.9	696.9	689.0	685.1	689.0	699.9	685.1	684.1	691.0	700.9	701.8
37.5°	739.3	739.3	734.4	724.5	725.5	732.4	719.6	718.6	731.4	742.3	742.3
40°	792.5	795.5	790.6	778.7	774.8	775.8	765.9	766.9	781.7	794.5	794.5
42.5°	858.6	860.5	852.7	843.8	838.9	835.9	826.0	828.0	845.8	862.5	862.5
45°	938.4	939.4	931.5	920.7	914.8	912.8	902.9	907.9	927.6	945.3	944.3
47.5°	1028.1	1029.1	1021.2	1010.4	1006.4	1009.4	999.5	999.5	1017.3	1032.1	1030.1
50°	1129.7	1131.6	1122.8	1117.8	1114.9	1122.8	1110.9	1100.1	1111.9	1126.7	1124.7
52.5°	1242.0	1247.0	1241.0	1243.0	1253.9	1263.7	1244.0	1220.3	1226.3	1236.1	1233.2
55°	1378.1	1384.0	1385.9	1392.8	1421.4	1438.2	1405.7	1366.2	1363.3	1364.3	1359.3
57.5°	1530.8	1534.8	1547.6	1563.4	1622.5	1649.1	1597.9	1529.9	1508.2	1495.4	1492.4
60°	1684.6	1691.5	1723.1	1755.6	1846.3	1894.6	1815.7	1701.4	1655.0	1631.4	1626.5
62.5°	1839.4	1853.2	1904.4	1959.6	2091.7	2163.7	2042.4	1876.8	1809.8	1780.2	1772.4
65°	2018.8	2035.5	2097.6	2167.6	2314.5	2416.0	2269.2	2058.2	1986.3	1946.8	1937.0
67.5°	2228.7	2246.5	2296.8	2374.6	2513.6	2613.2	2483.1	2243.5	2149.9	2099.6	2091.7
70°	2401.2	2417.0	2471.2	2550.1	2653.6	2767.0	2642.8	2391.4	2306.6	2271.1	2266.2
72.5°	2374.6	2395.3	2475.2	2593.5	2741.3	2869.5	2712.7	2420.0	2297.7	2248.5	2232.7
75°	2074.0	2096.7	2191.3	2405.2	2675.3	2866.5	2611.2	2229.7	2085.8	2044.4	2036.5
77.5°	1373.1	1394.8	1554.5	1891.6	2336.2	2612.2	2304.6	1868.0	1636.3	1536.8	1530.8
80°	555.0	582.6	735.4	1093.2	1656.0	2030.6	1709.3	1195.7	806.3	650.6	619.0
82.5°	129.1	153.8	223.8	403.2	847.7	1264.7	921.7	446.5	259.2	184.3	165.6
85°	54.2	55.2	95.6	131.1	265.2	510.6	301.6	162.6	132.1	96.6	94.6
87.5°	20.7	21.7	46.3	55.2	84.8	96.6	102.5	83.8	77.9	48.3	46.3
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)