

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: P397733

Luminaire Tested: **ARCH-S-PA1-30-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397733
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-PA1-30-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3840 lumens
Efficiency: N/A
Efficacy: 123.9 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 - G1

Input Watts (W): 31
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

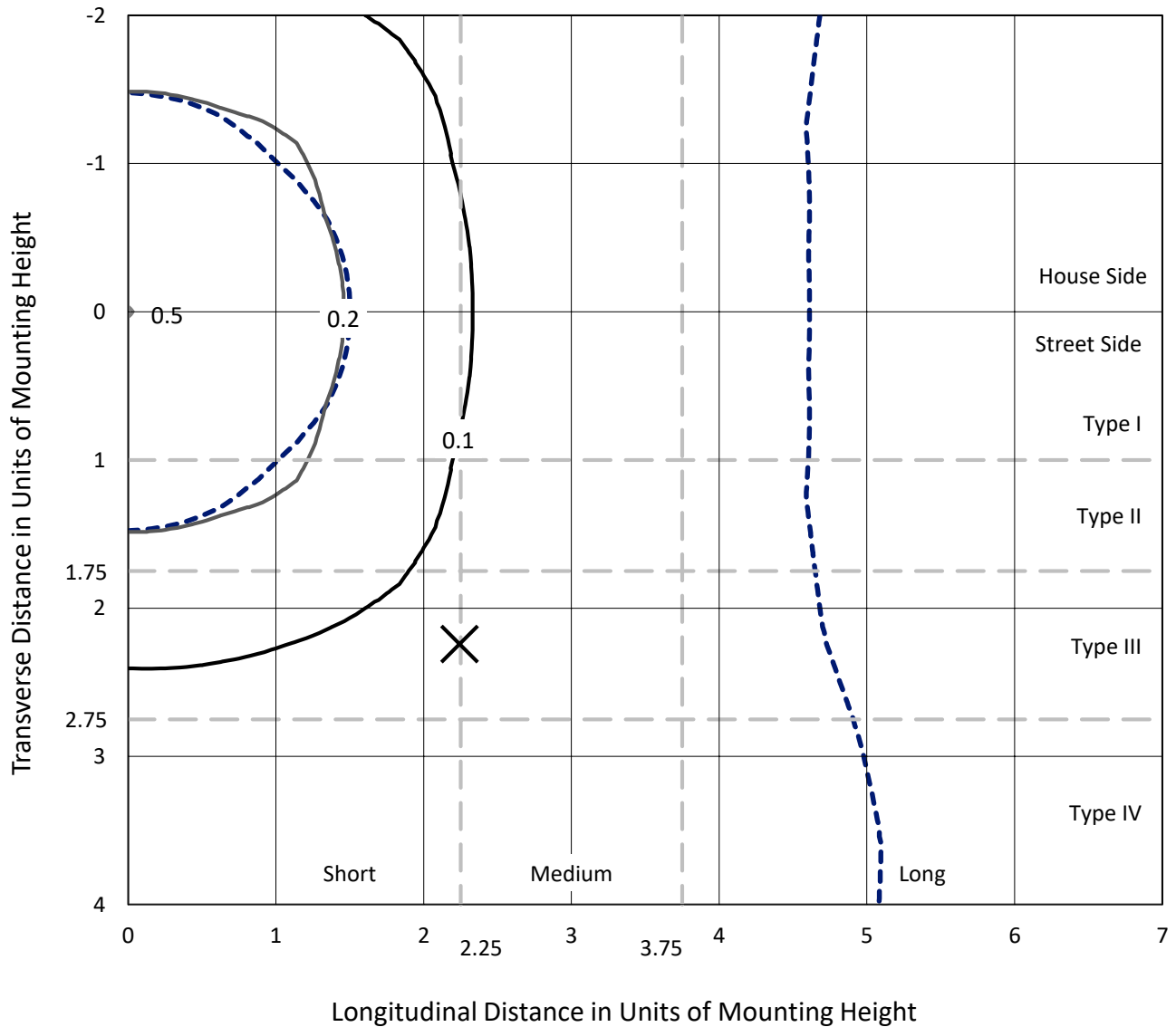


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

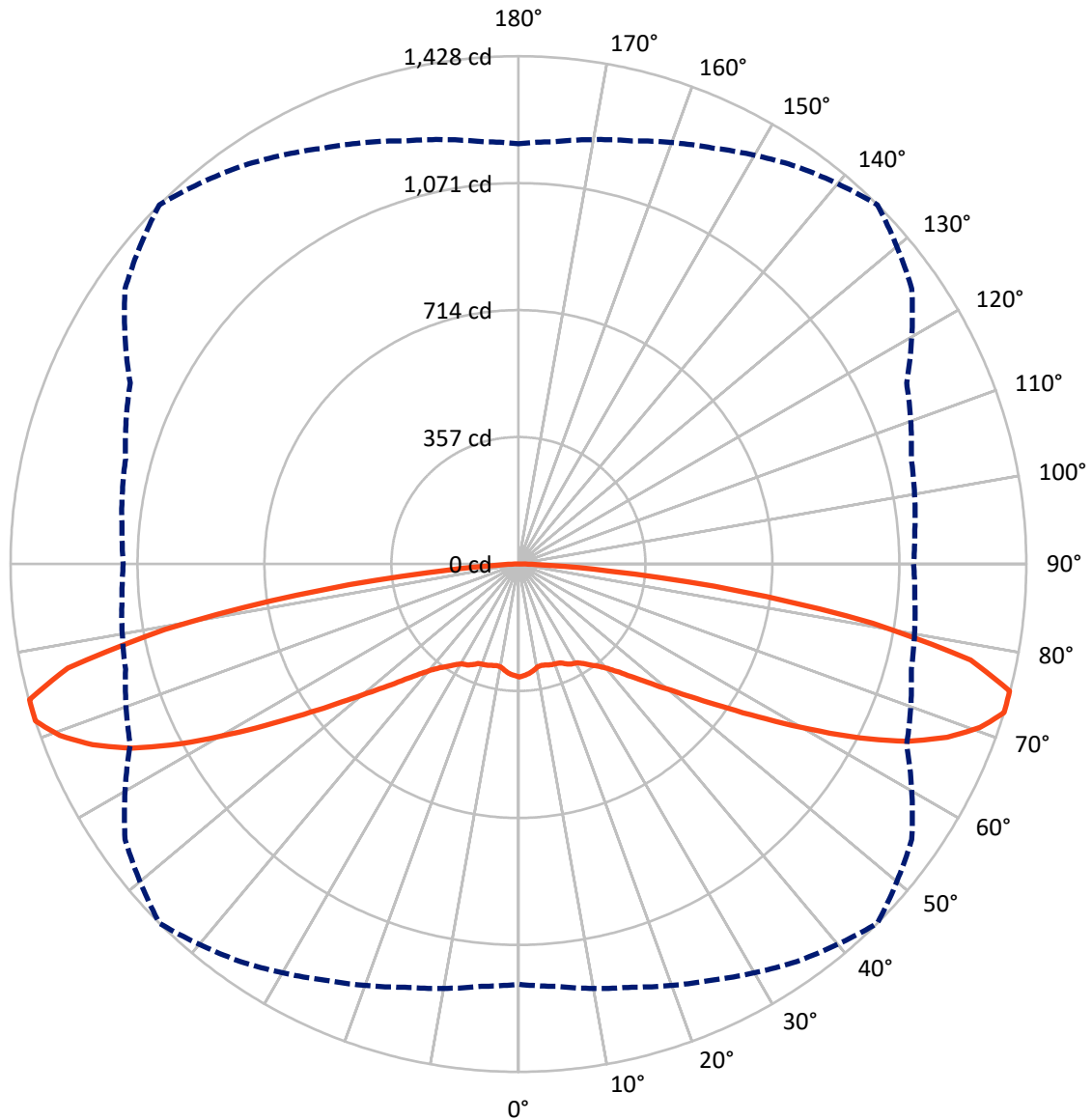


Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - Non-Cutoff

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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	1920.0	0.0	1920.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1920.0	0.0	1920.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3840.0	0.0	3840.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	0.8
10°-20°	84.6	2.2
20°-30°	143.7	3.7
30°-40°	219.2	5.7
40°-50°	360.9	9.4
50°-60°	630.3	16.4
60°-70°	1056.7	27.5
70°-80°	1130.9	29.5
80°-90°	184.5	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°	3840.0	100.0
0°-180°	3840.0	100.0



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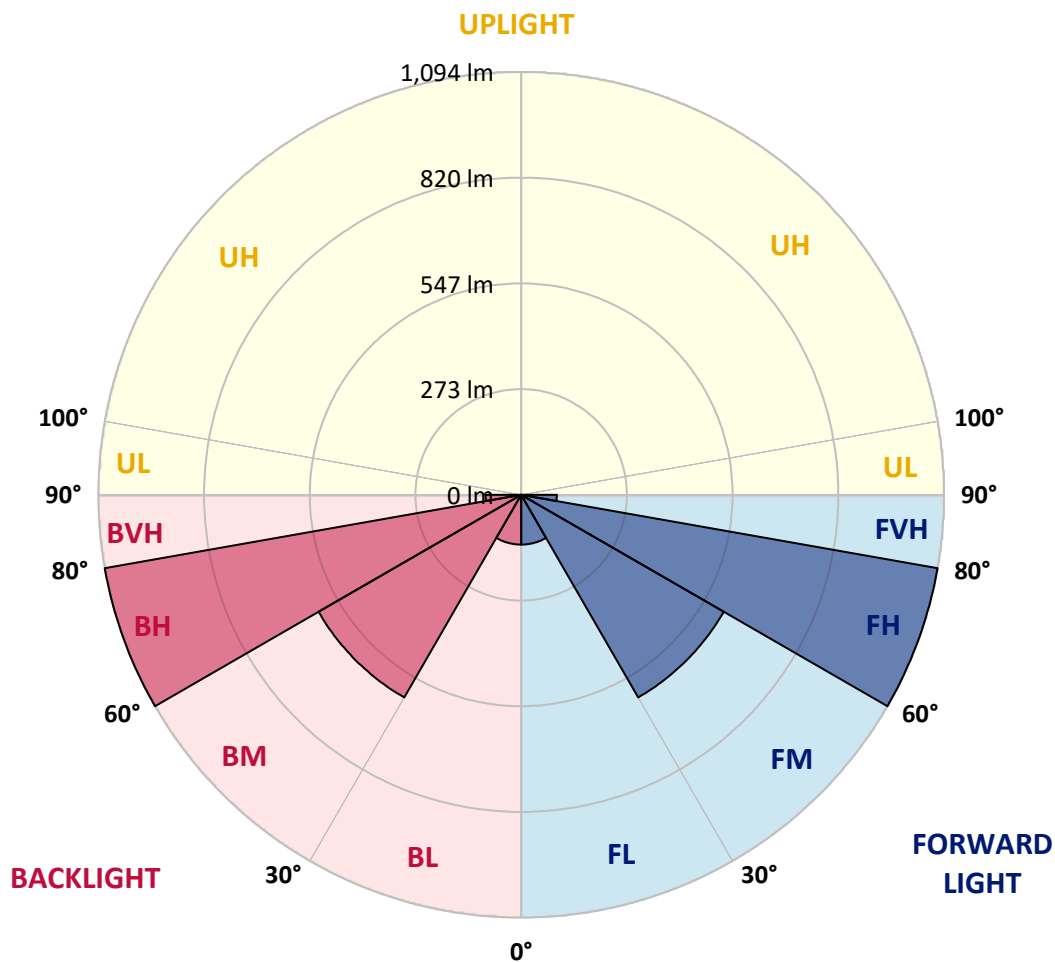
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	128.7	3.4			
FM (30°-60°)	605.2	15.8			
FH (60°-80°)	1093.8	28.5			G1/1800
FVH (80°-90°)	92.2	2.4			G1/100
BL (0°-30°)	128.7	3.4	B1/500		
BM (30°-60°)	605.2	15.8	B1/1000		
BH (60°-80°)	1093.8	28.5	B3/2500		G1/1800
BVH (80°-90°)	92.2	2.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8
2.5°	315.8	315.8	315.8	315.3	314.3	313.8	312.9	313.4	313.4	313.4	313.4
5°	311.9	311.9	311.4	310.9	309.9	309.4	308.4	309.4	309.4	309.4	309.4
7.5°	304.5	305.0	305.0	304.5	303.1	302.6	301.1	301.6	301.6	302.1	301.6
10°	300.6	300.6	300.1	297.7	295.2	294.2	293.7	295.2	296.7	298.1	298.1
12.5°	300.6	300.6	299.6	295.7	292.3	292.3	292.3	294.2	297.2	300.1	300.6
15°	302.1	302.1	300.1	295.7	293.7	294.2	294.2	296.2	299.6	303.5	304.0
17.5°	303.1	303.1	300.6	296.2	296.2	297.7	296.7	298.1	301.6	306.0	306.5
20°	304.5	304.5	301.1	297.7	297.7	299.1	299.1	300.6	303.5	308.0	308.4
22.5°	307.5	307.0	303.5	300.6	300.6	301.6	302.6	304.5	307.0	310.9	311.9
25°	310.9	310.9	308.0	307.5	308.4	310.9	310.4	309.9	310.9	314.3	315.8
27.5°	312.9	312.9	310.9	312.4	316.3	318.3	315.8	313.8	313.8	317.3	317.8
30°	319.2	318.7	316.8	317.8	321.2	322.2	320.7	318.3	319.7	323.6	324.1
32.5°	330.0	330.0	327.1	327.1	329.5	333.5	328.6	327.1	329.0	333.5	333.9
35°	346.7	346.7	342.8	340.8	342.8	348.2	340.8	340.3	343.8	348.7	349.1
37.5°	367.8	367.8	365.3	360.4	360.9	364.4	358.0	357.5	363.9	369.3	369.3
40°	394.3	395.7	393.3	387.4	385.4	385.9	381.0	381.5	388.9	395.2	395.2
42.5°	427.1	428.1	424.2	419.8	417.3	415.8	410.9	411.9	420.7	429.1	429.1
45°	466.8	467.3	463.4	458.0	455.1	454.1	449.2	451.6	461.4	470.3	469.8
47.5°	511.5	512.0	508.0	502.6	500.7	502.1	497.2	497.2	506.1	513.4	512.4
50°	562.0	563.0	558.5	556.1	554.6	558.5	552.7	547.3	553.1	560.5	559.5
52.5°	617.9	620.3	617.4	618.4	623.8	628.7	618.9	607.1	610.0	614.9	613.5
55°	685.5	688.5	689.5	692.9	707.1	715.5	699.3	679.7	678.2	678.7	676.2
57.5°	761.6	763.5	769.9	777.7	807.2	820.4	794.9	761.1	750.3	743.9	742.4
60°	838.1	841.5	857.2	873.4	918.5	942.5	903.3	846.4	823.3	811.6	809.1
62.5°	915.0	921.9	947.4	974.9	1040.6	1076.4	1016.1	933.7	900.3	885.6	881.7
65°	1004.3	1012.6	1043.5	1078.3	1151.4	1201.9	1128.8	1023.9	988.1	968.5	963.6
67.5°	1108.7	1117.6	1142.6	1181.3	1250.5	1300.0	1235.3	1116.1	1069.5	1044.5	1040.6
70°	1194.6	1202.4	1229.4	1268.6	1320.1	1376.5	1314.7	1189.7	1147.5	1129.8	1127.4
72.5°	1181.3	1191.6	1231.3	1290.2	1363.7	1427.5	1349.5	1203.9	1143.1	1118.5	1110.7
75°	1031.8	1043.0	1090.1	1196.5	1330.9	1426.0	1299.0	1109.2	1037.6	1017.0	1013.1
77.5°	683.1	693.9	773.3	941.0	1162.2	1299.5	1146.5	929.3	814.0	764.5	761.6
80°	276.1	289.8	365.8	543.8	823.8	1010.2	850.3	594.8	401.1	323.6	308.0
82.5°	64.2	76.5	111.3	200.6	421.7	629.2	458.5	222.1	129.0	91.7	82.4
85°	27.0	27.5	47.6	65.2	131.9	254.0	150.1	80.9	65.7	48.1	47.1
87.5°	10.3	10.8	23.0	27.5	42.2	48.1	51.0	41.7	38.7	24.0	23.0
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)