

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: P234675

Luminaire Tested: **ARCH-AF24-40-D-U-5WQ-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-AF24-40-D-U-5WQ-8027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4077 lumens
Efficiency: N/A
Efficacy: 101.9 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): 40
Input Voltage (V): NR
Input Current (A_{in}): 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

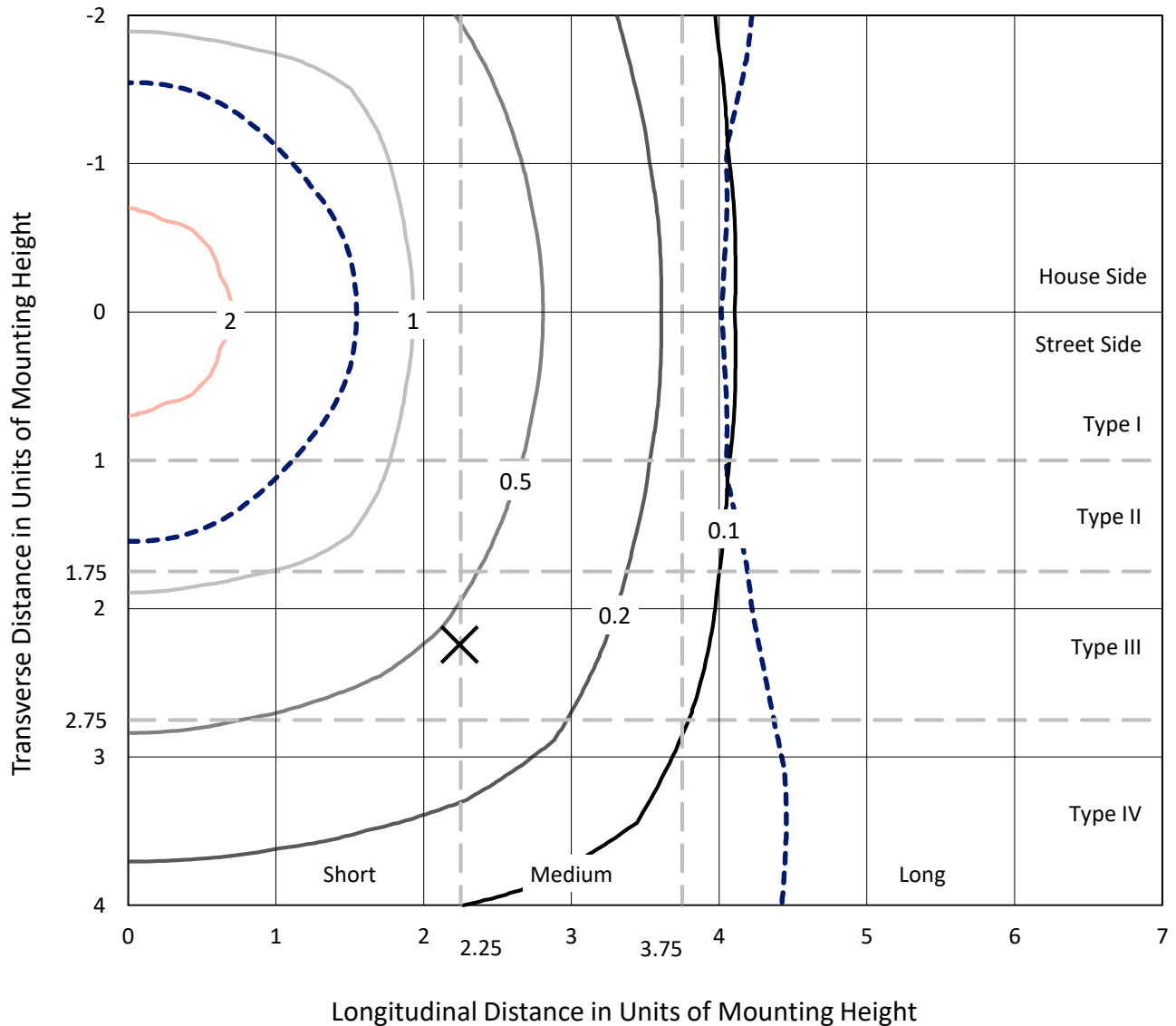


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

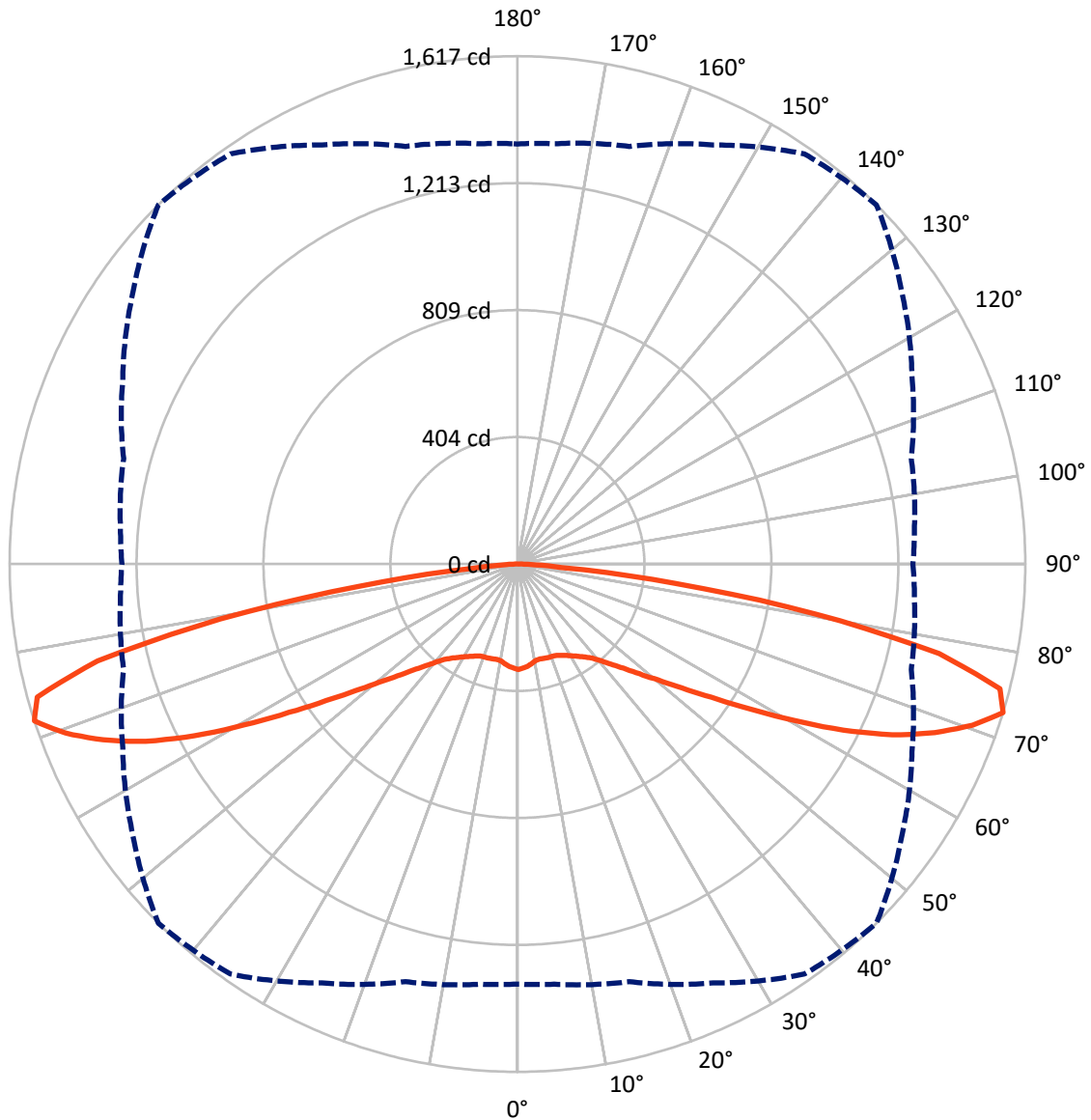


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Non-Cutoff

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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	2038.5	0.0	2038.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2038.5	0.0	2038.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4077.0	0.0	4077.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	0.8
10°-20°	89.2	2.2
20°-30°	149.3	3.7
30°-40°	229.4	5.6
40°-50°	379.8	9.3
50°-60°	675.2	16.6
60°-70°	1181.3	29.0
70°-80°	1201.9	29.5
80°-90°	140.0	3.4
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°	4077.0	100.0
0°-180°	4077.0	100.0



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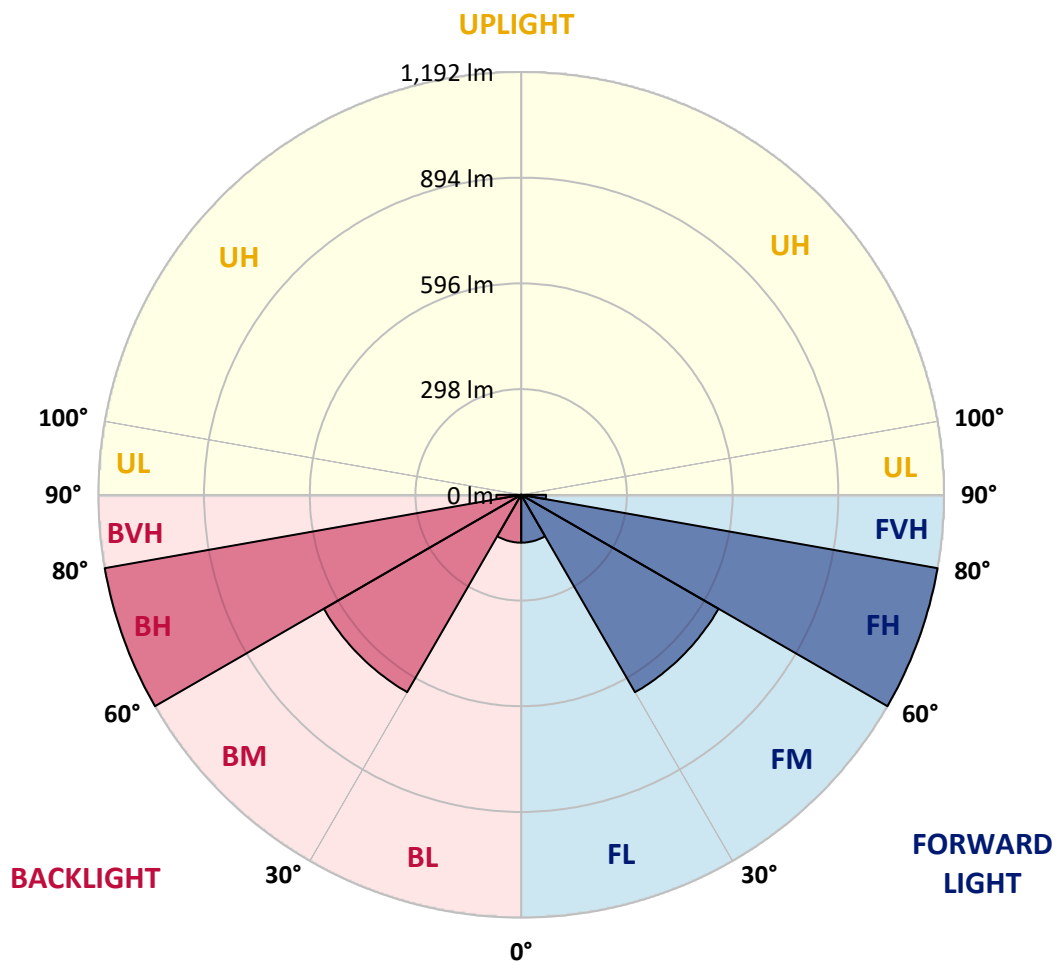
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	134.7	3.3			
FM	(30°-60°)	642.2	15.8			
FH	(60°-80°)	1191.6	29.2			G1/1800
FVH	(80°-90°)	70.0	1.7			G1/100
BL	(0°-30°)	134.7	3.3	B1/500		
BM	(30°-60°)	642.2	15.8	B1/1000		
BH	(60°-80°)	1191.6	29.2	B3/2500		G1/1800
BVH	(80°-90°)	70.0	1.7			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°	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
2.5°	332.9	333.7	332.2	332.2	332.2	331.4	332.2	331.4	332.2	332.9	332.9
5°	329.8	329.8	328.3	328.3	328.3	327.5	328.3	328.3	329.1	329.8	329.8
7.5°	322.8	322.8	322.1	321.3	320.5	320.5	321.3	321.3	322.1	322.8	322.8
10°	319.0	318.2	316.6	314.3	313.5	312.8	314.3	315.9	318.2	320.5	319.7
12.5°	317.4	316.6	313.5	311.2	309.7	310.4	312.0	313.5	317.4	319.7	319.0
15°	319.0	317.4	313.5	309.7	310.4	312.0	313.5	313.5	318.2	320.5	320.5
17.5°	319.0	318.2	313.5	310.4	311.2	313.5	314.3	313.5	317.4	321.3	321.3
20°	319.7	319.7	313.5	311.2	312.0	314.3	315.1	314.3	317.4	322.1	322.1
22.5°	321.3	320.5	314.3	312.8	314.3	315.9	316.6	315.9	319.0	322.8	323.6
25°	324.4	322.8	317.4	316.6	319.7	322.1	322.1	320.5	322.1	326.0	326.0
27.5°	328.3	327.5	321.3	321.3	325.2	329.8	327.5	324.4	326.0	329.8	329.8
30°	335.3	334.5	328.3	328.3	333.7	339.1	333.7	329.8	332.2	336.0	336.8
32.5°	345.4	345.4	339.9	338.4	347.7	350.0	347.7	339.9	341.5	346.9	346.9
35°	362.4	360.9	355.4	354.7	364.0	363.2	362.4	355.4	357.0	363.2	363.2
37.5°	384.9	384.2	379.5	377.2	381.8	378.7	380.3	377.2	381.1	385.7	386.5
40°	413.6	412.9	409.0	405.9	407.4	402.8	404.3	405.9	409.8	412.9	413.6
42.5°	449.3	449.3	445.5	440.0	437.7	435.4	435.4	438.5	442.4	446.2	446.2
45°	493.6	493.6	488.9	483.5	476.5	472.6	474.2	477.3	481.9	486.6	488.1
47.5°	545.6	545.6	539.4	533.9	527.0	522.3	522.3	523.8	530.8	534.7	537.0
50°	603.8	601.5	595.2	589.8	585.9	579.7	580.5	579.7	585.9	591.4	592.9
52.5°	664.3	663.5	657.3	655.8	658.1	655.0	655.0	647.2	649.6	652.7	651.9
55°	739.6	737.3	731.8	734.9	744.3	748.9	747.4	734.9	728.0	729.5	728.7
57.5°	821.9	819.5	818.0	827.3	848.2	867.6	863.8	835.1	821.9	822.6	823.4
60°	905.7	905.7	910.3	933.6	978.6	1010.4	998.8	950.7	927.4	922.8	921.2
62.5°	991.8	994.1	1004.2	1043.0	1112.1	1164.9	1135.4	1067.1	1032.2	1022.9	1019.8
65°	1091.9	1094.3	1109.0	1157.1	1248.7	1311.6	1261.1	1196.7	1147.8	1128.4	1125.3
67.5°	1237.1	1238.6	1250.3	1296.8	1383.0	1433.4	1381.4	1324.0	1271.2	1248.7	1247.1
70°	1367.4	1369.0	1379.1	1440.4	1519.6	1537.4	1480.0	1407.0	1351.9	1334.1	1331.0
72.5°	1337.9	1343.4	1376.8	1472.2	1594.1	1617.3	1496.3	1386.8	1298.4	1268.9	1259.6
75°	1122.2	1130.7	1183.5	1327.1	1521.1	1587.1	1400.0	1199.0	1067.1	1010.4	995.7
77.5°	655.0	686.8	777.6	961.6	1238.6	1372.9	1153.2	877.7	655.8	562.7	531.6
80°	179.3	196.3	262.3	442.4	776.8	961.6	735.7	402.8	217.3	163.0	151.3
82.5°	56.7	75.3	95.5	127.3	305.0	506.8	273.2	118.7	93.1	76.8	68.3
85°	30.3	32.6	53.5	62.1	91.6	142.0	84.6	62.1	55.9	41.1	38.8
87.5°	15.5	16.3	30.3	30.3	40.4	33.4	36.5	33.4	31.8	20.2	17.8
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)