

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: P265895

Luminaire Tested: **ARCH-AF16-50-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265895
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-AF16-50-D-U-5WQ-7027
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 980mA LIGHT ENGINE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5293.1 lumens
Efficiency: N/A
Efficacy: 99.9 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): 53
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

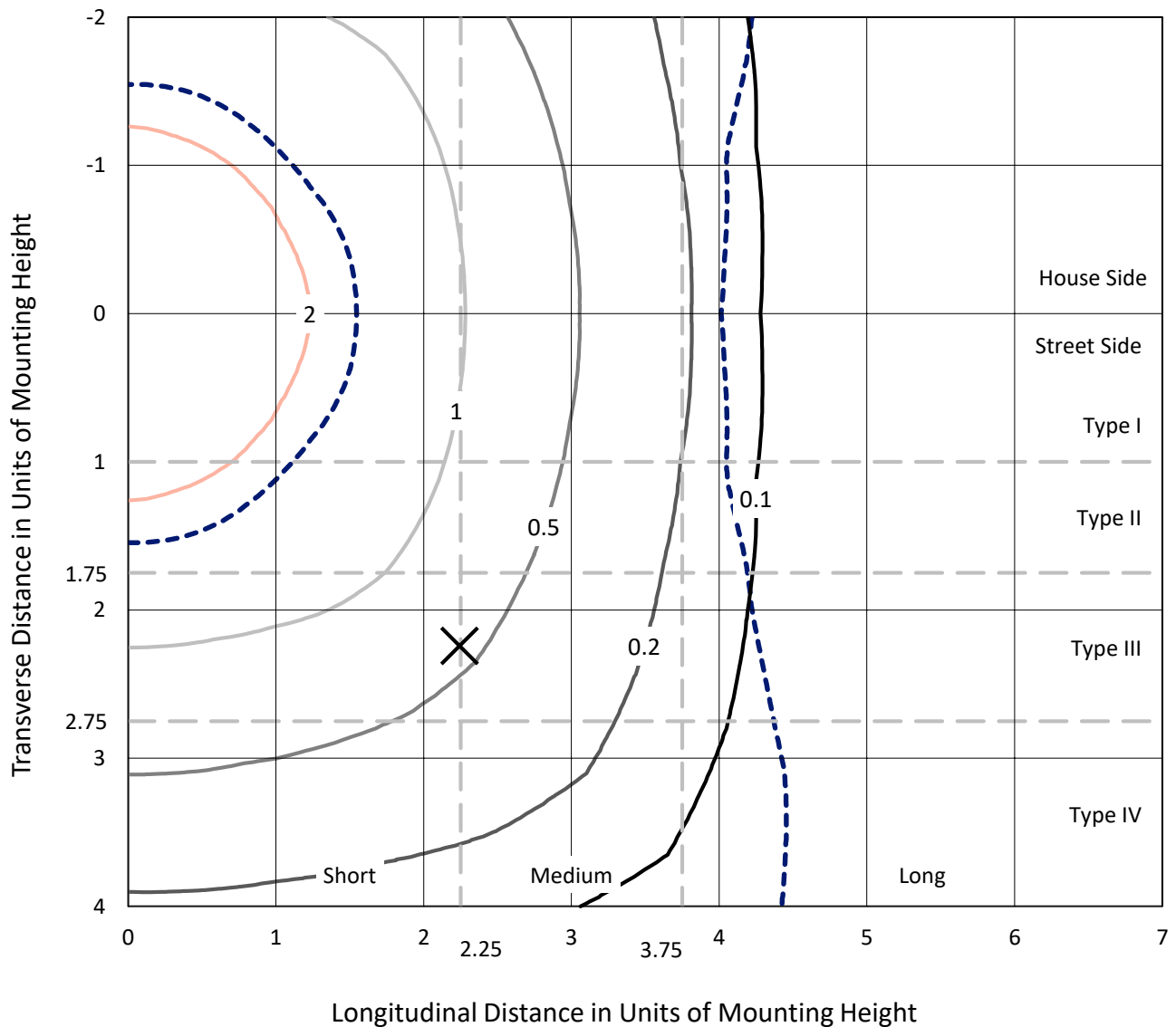


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

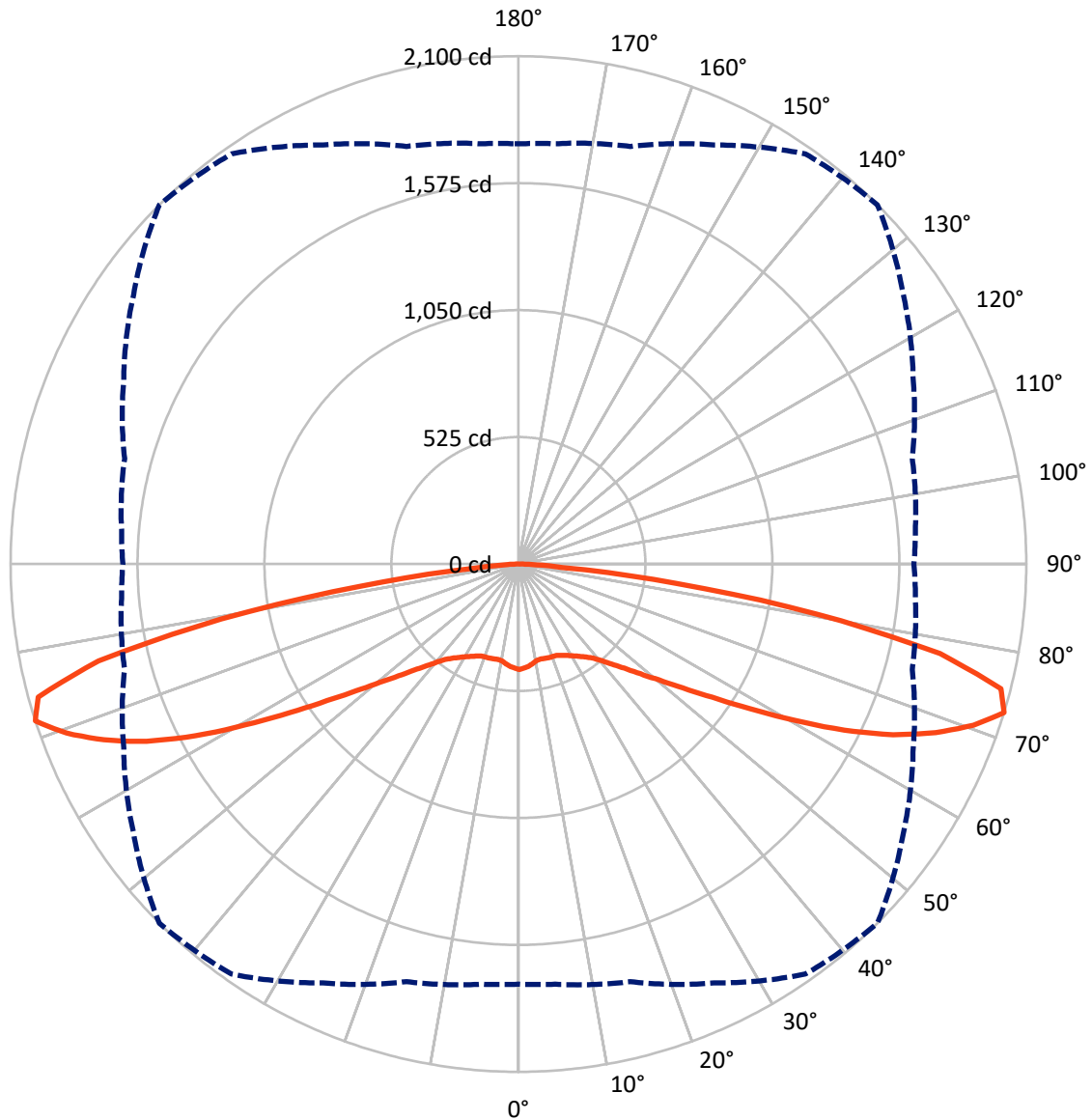


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Non-Cutoff

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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	2646.6	0.0	2646.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2646.6	0.0	2646.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5293.1	0.0	5293.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	0.8
10°-20°	115.8	2.2
20°-30°	193.8	3.7
30°-40°	297.8	5.6
40°-50°	493.1	9.3
50°-60°	876.7	16.6
60°-70°	1533.7	29.0
70°-80°	1560.4	29.5
80°-90°	181.7	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°	5293.1	100.0
0°-180°	5293.1	100.0



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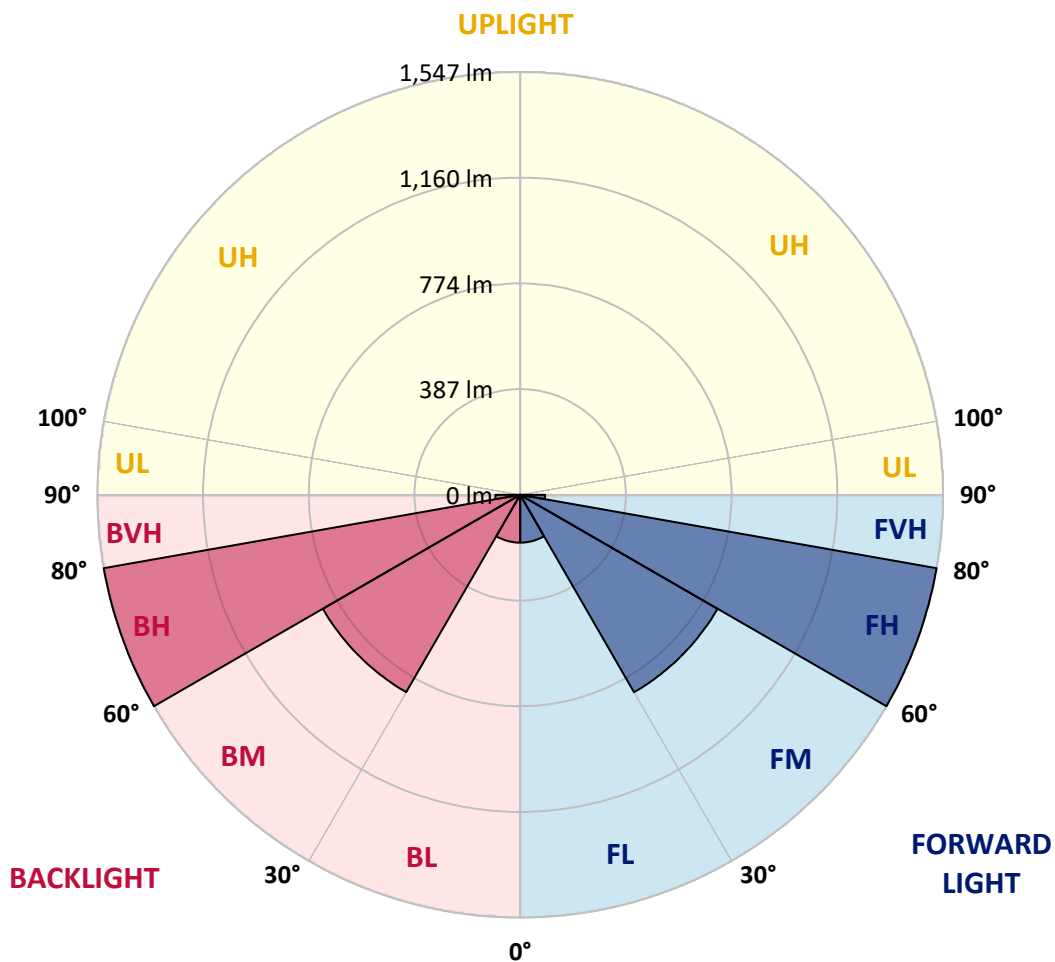
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.9	3.3			
FM (30°-60°)	833.8	15.8			
FH (60°-80°)	1547.0	29.2			G1/1800
FVH (80°-90°)	90.8	1.7			G1/100
BL (0°-30°)	174.9	3.3	B1/500		
BM (30°-60°)	833.8	15.8	B1/1000		
BH (60°-80°)	1547.0	29.2	B3/2500		G1/1800
BVH (80°-90°)	90.8	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°	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2
2.5°	432.3	433.3	431.2	431.2	431.2	430.2	431.2	430.2	431.2	432.3	432.3
5°	428.2	428.2	426.2	426.2	426.2	425.2	426.2	426.2	427.2	428.2	428.2
7.5°	419.1	419.1	418.2	417.2	416.2	416.2	417.2	417.2	418.2	419.1	419.1
10°	414.1	413.1	411.1	408.1	407.0	406.0	408.1	410.0	413.1	416.2	415.1
12.5°	412.1	411.1	407.0	404.1	402.0	403.0	405.0	407.0	412.1	415.1	414.1
15°	414.1	412.1	407.0	402.0	403.0	405.0	407.0	407.0	413.1	416.2	416.2
17.5°	414.1	413.1	407.0	403.0	404.1	407.0	408.1	407.0	412.1	417.2	417.2
20°	415.1	415.1	407.0	404.1	405.0	408.1	409.1	408.1	412.1	418.2	418.2
22.5°	417.2	416.2	408.1	406.0	408.1	410.0	411.1	410.0	414.1	419.1	420.1
25°	421.1	419.1	412.1	411.1	415.1	418.2	418.2	416.2	418.2	423.2	423.2
27.5°	426.2	425.2	417.2	417.2	422.2	428.2	425.2	421.1	423.2	428.2	428.2
30°	435.3	434.3	426.2	426.2	433.3	440.3	433.3	428.2	431.2	436.2	437.2
32.5°	448.3	448.3	441.2	439.4	451.4	454.5	451.4	441.2	443.4	450.4	450.4
35°	470.5	468.6	461.5	460.4	472.6	471.5	470.5	461.5	463.4	471.5	471.5
37.5°	499.7	498.7	492.7	489.7	495.8	491.7	493.7	489.7	494.7	500.7	501.8
40°	537.0	536.0	531.0	526.9	529.0	523.0	524.9	526.9	531.9	536.0	537.0
42.5°	583.4	583.4	578.4	571.3	568.3	565.3	565.3	569.3	574.2	579.3	579.3
45°	640.9	640.9	634.7	627.7	618.7	613.6	615.6	619.7	625.7	631.8	633.8
47.5°	708.4	708.4	700.3	693.2	684.1	678.1	678.1	680.0	689.2	694.2	697.3
50°	784.0	780.8	772.8	765.7	760.8	752.7	753.7	752.7	760.8	767.8	769.8
52.5°	862.6	861.5	853.4	851.5	854.4	850.3	850.3	840.4	843.2	847.5	846.4
55°	960.2	957.1	950.1	954.2	966.2	972.2	970.3	954.2	945.0	947.2	946.2
57.5°	1066.9	1064.0	1061.9	1074.1	1101.3	1126.5	1121.4	1084.2	1066.9	1068.1	1069.1
60°	1175.8	1175.8	1181.9	1212.2	1270.6	1311.9	1296.8	1234.4	1204.1	1198.0	1196.0
62.5°	1287.7	1290.7	1303.8	1354.1	1443.8	1512.3	1474.1	1385.4	1340.0	1328.0	1323.9
65°	1417.6	1420.7	1439.9	1502.2	1621.3	1702.7	1637.3	1553.7	1490.2	1465.0	1461.0
67.5°	1606.1	1608.1	1623.1	1683.7	1795.5	1861.0	1793.5	1718.8	1650.4	1621.3	1619.1
70°	1775.3	1777.3	1790.4	1870.0	1972.8	1996.0	1921.5	1826.8	1755.2	1732.0	1728.0
72.5°	1737.1	1744.1	1787.4	1911.4	2069.5	2099.8	1942.6	1800.6	1685.7	1647.4	1635.3
75°	1457.0	1468.0	1536.6	1722.9	1974.8	2060.5	1817.6	1556.8	1385.4	1311.9	1292.8
77.5°	850.3	891.7	1009.5	1248.4	1608.1	1782.3	1497.2	1139.6	851.5	730.5	690.2
80°	232.8	254.8	340.5	574.2	1008.5	1248.4	955.2	523.0	282.1	211.6	196.5
82.5°	73.5	97.7	124.0	165.3	396.0	658.0	354.7	154.1	120.9	99.7	88.7
85°	39.3	42.3	69.4	80.6	118.8	184.4	109.9	80.6	72.6	53.4	50.3
87.5°	20.1	21.2	39.3	39.3	52.5	43.3	47.3	43.3	41.3	26.2	23.1
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)