

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: P214507

Luminaire Tested: **ARCH-AF24-60-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214507
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-AF24-60-D-U-5WQ-7030
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 6876 lumens
Efficiency: N/A
Efficacy: 107.4 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 (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

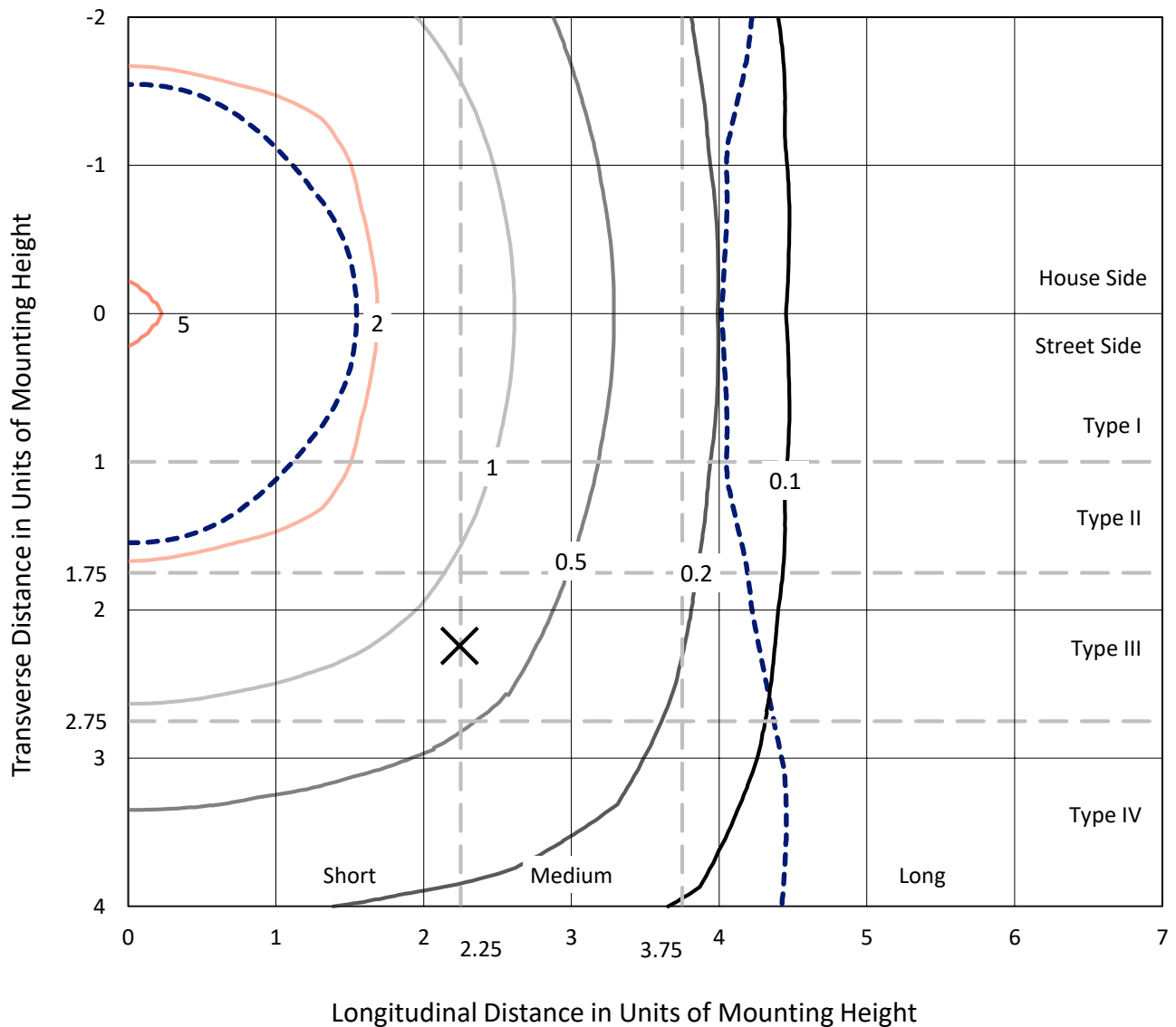


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Iso-Footcandle Lines of Horizontal Illumination

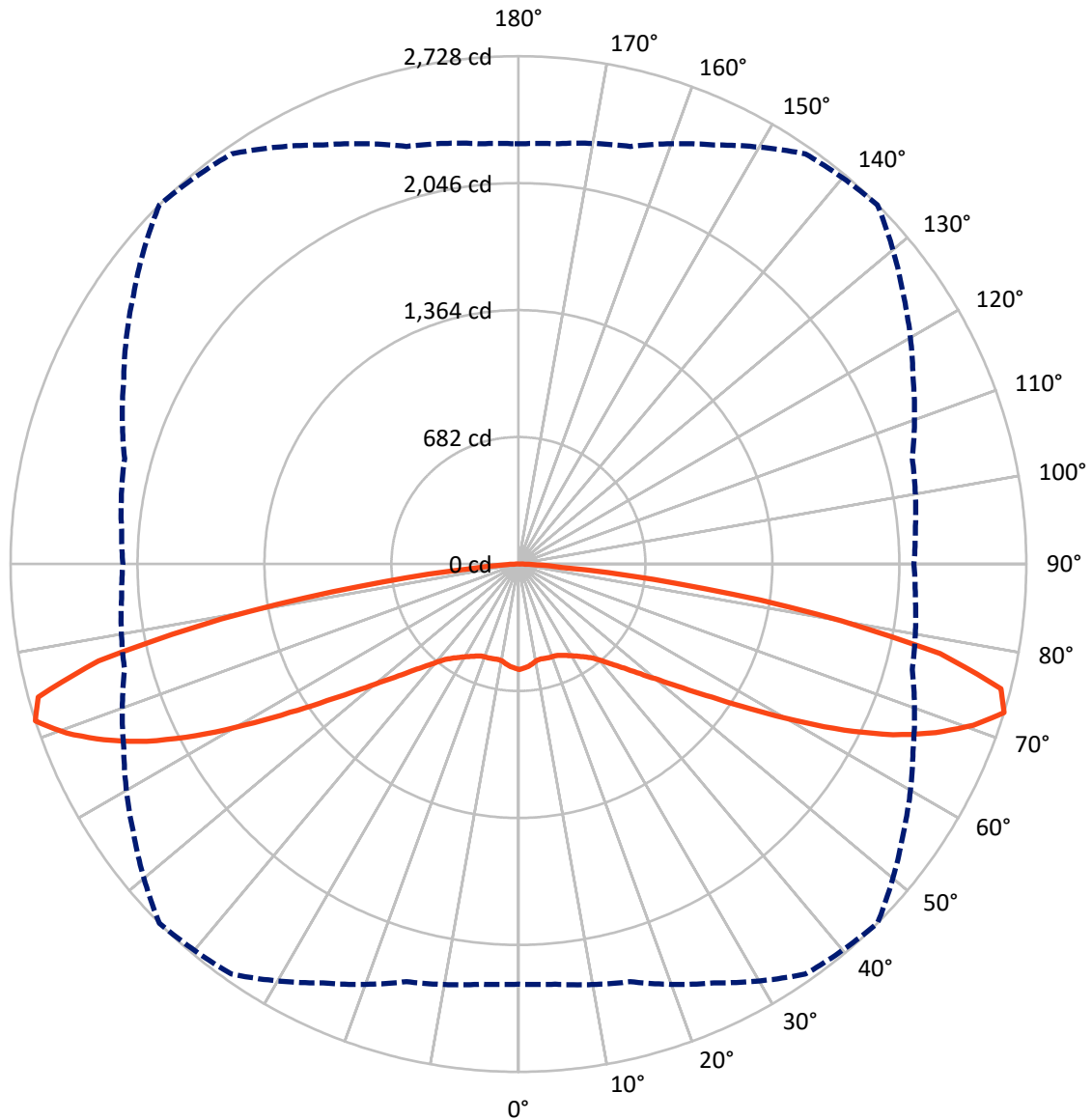
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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	3438.0	0.0	3438.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3438.0	0.0	3438.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6876.0	0.0	6876.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	0.8
10°-20°	150.5	2.2
20°-30°	251.8	3.7
30°-40°	386.9	5.6
40°-50°	640.6	9.3
50°-60°	1138.8	16.6
60°-70°	1992.3	29.0
70°-80°	2027.0	29.5
80°-90°	236.0	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°	6876.0	100.0
0°-180°	6876.0	100.0



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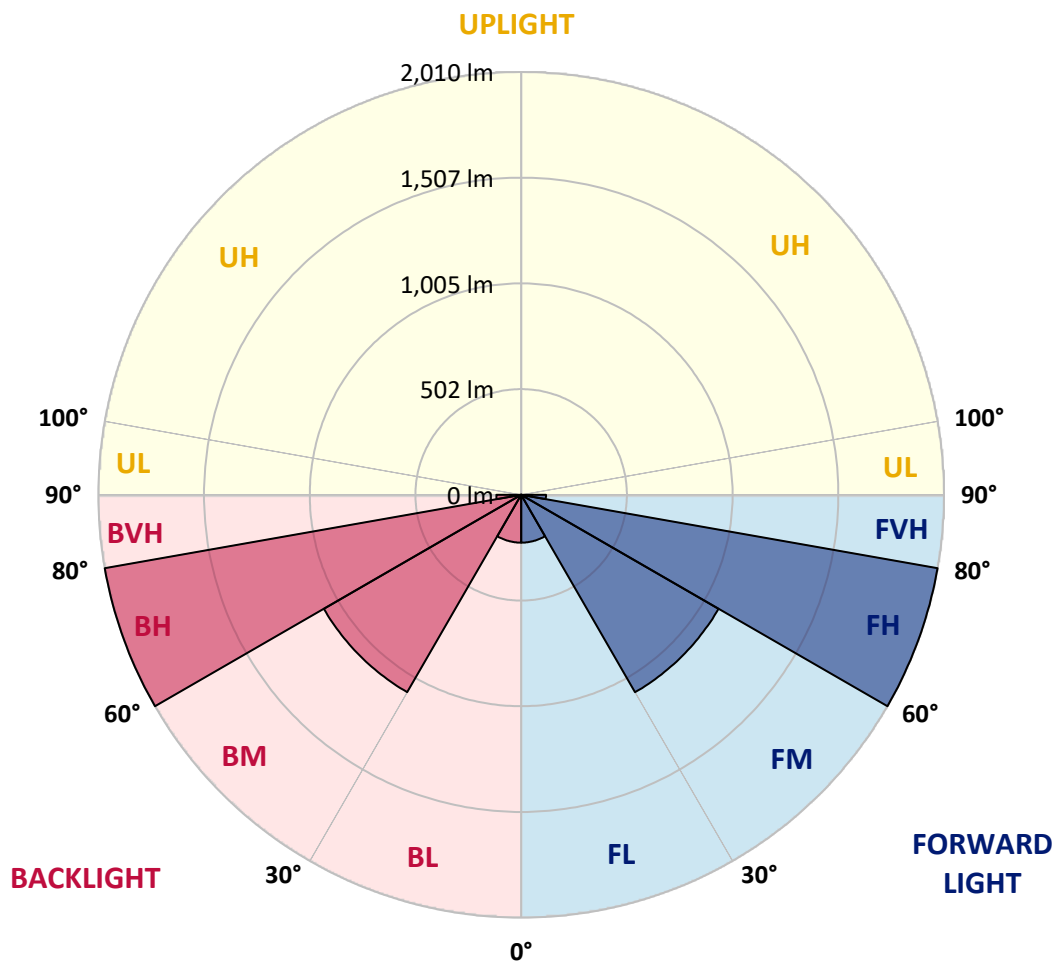
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	227.2	3.3			
FM	(30°-60°)	1083.1	15.8			
FH	(60°-80°)	2009.7	29.2			G2/5000
FVH	(80°-90°)	118.0	1.7			G2/225
BL	(0°-30°)	227.2	3.3	B1/500		
BM	(30°-60°)	1083.1	15.8	B2/2500		
BH	(60°-80°)	2009.7	29.2	B3/2500		G2/5000
BVH	(80°-90°)	118.0	1.7			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°	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7	566.7
2.5°	561.5	562.8	560.2	560.2	560.2	558.9	560.2	558.9	560.2	561.5	561.5
5°	556.3	556.3	553.7	553.7	553.7	552.3	553.7	553.7	555.0	556.3	556.3
7.5°	544.5	544.5	543.2	541.9	540.6	540.6	541.9	541.9	543.2	544.5	544.5
10°	537.9	536.6	534.0	530.1	528.8	527.5	530.1	532.7	536.6	540.6	539.3
12.5°	535.3	534.0	528.8	524.9	522.2	523.5	526.2	528.8	535.3	539.3	537.9
15°	537.9	535.3	528.8	522.2	523.5	526.2	528.8	528.8	536.6	540.6	540.6
17.5°	537.9	536.6	528.8	523.5	524.9	528.8	530.1	528.8	535.3	541.9	541.9
20°	539.3	539.3	528.8	524.9	526.2	530.1	531.4	530.1	535.3	543.2	543.2
22.5°	541.9	540.6	530.1	527.5	530.1	532.7	534.0	532.7	537.9	544.5	545.8
25°	547.1	544.5	535.3	534.0	539.3	543.2	543.2	540.6	543.2	549.7	549.7
27.5°	553.7	552.3	541.9	541.9	548.4	556.3	552.3	547.1	549.7	556.3	556.3
30°	565.4	564.1	553.7	553.7	562.8	572.0	562.8	556.3	560.2	566.7	568.1
32.5°	582.4	582.4	573.3	570.7	586.4	590.3	586.4	573.3	575.9	585.1	585.1
35°	611.2	608.6	599.5	598.2	613.9	612.6	611.2	599.5	602.1	612.6	612.6
37.5°	649.2	647.9	640.0	636.1	644.0	638.7	641.3	636.1	642.7	650.5	651.8
40°	697.6	696.3	689.8	684.5	687.2	679.3	681.9	684.5	691.1	696.3	697.6
42.5°	757.8	757.8	751.3	742.1	738.2	734.3	734.3	739.5	746.1	752.6	752.6
45°	832.4	832.4	824.6	815.4	803.6	797.1	799.7	805.0	812.8	820.7	823.3
47.5°	920.1	920.1	909.7	900.5	888.7	880.9	880.9	883.5	895.3	901.8	905.7
50°	1018.3	1014.4	1003.9	994.7	988.2	977.7	979.0	977.7	988.2	997.4	1000.0
52.5°	1120.4	1119.1	1108.6	1106.0	1109.9	1104.7	1104.7	1091.6	1095.5	1100.8	1099.5
55°	1247.4	1243.4	1234.3	1239.5	1255.2	1263.1	1260.4	1239.5	1227.7	1230.3	1229.0
57.5°	1386.1	1382.2	1379.6	1395.3	1430.6	1463.3	1456.8	1408.3	1386.1	1387.4	1388.7
60°	1527.5	1527.5	1535.3	1574.6	1650.5	1704.2	1684.5	1603.4	1564.1	1556.3	1553.6
62.5°	1672.7	1676.7	1693.7	1759.1	1875.6	1964.6	1914.9	1799.7	1740.8	1725.1	1719.9
65°	1841.6	1845.5	1870.4	1951.5	2106.0	2212.0	2126.9	2018.3	1935.8	1903.1	1897.9
67.5°	2086.3	2089.0	2108.6	2187.1	2332.4	2417.5	2329.8	2232.9	2143.9	2106.0	2103.4
70°	2306.2	2308.9	2325.9	2429.3	2562.8	2592.9	2496.0	2373.0	2280.1	2250.0	2244.7
72.5°	2256.5	2265.7	2321.9	2482.9	2688.4	2727.7	2523.5	2339.0	2189.7	2140.0	2124.3
75°	1892.6	1907.0	1996.0	2238.2	2565.4	2676.6	2361.2	2022.2	1799.7	1704.2	1679.3
77.5°	1104.7	1158.4	1311.5	1621.7	2089.0	2315.4	1945.0	1480.3	1106.0	948.9	896.6
80°	302.3	331.1	442.4	746.1	1310.2	1621.7	1240.8	679.3	366.5	274.9	255.2
82.5°	95.5	127.0	161.0	214.7	514.4	854.7	460.7	200.3	157.1	129.6	115.2
85°	51.0	55.0	90.3	104.7	154.4	239.5	142.7	104.7	94.2	69.4	65.4
87.5°	26.2	27.5	51.0	51.0	68.1	56.3	61.5	56.3	53.7	34.0	30.1
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)