

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: P381062

Luminaire Tested: **USSL-PA2A-740-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA2A-740-U-5WQ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16281 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 112
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



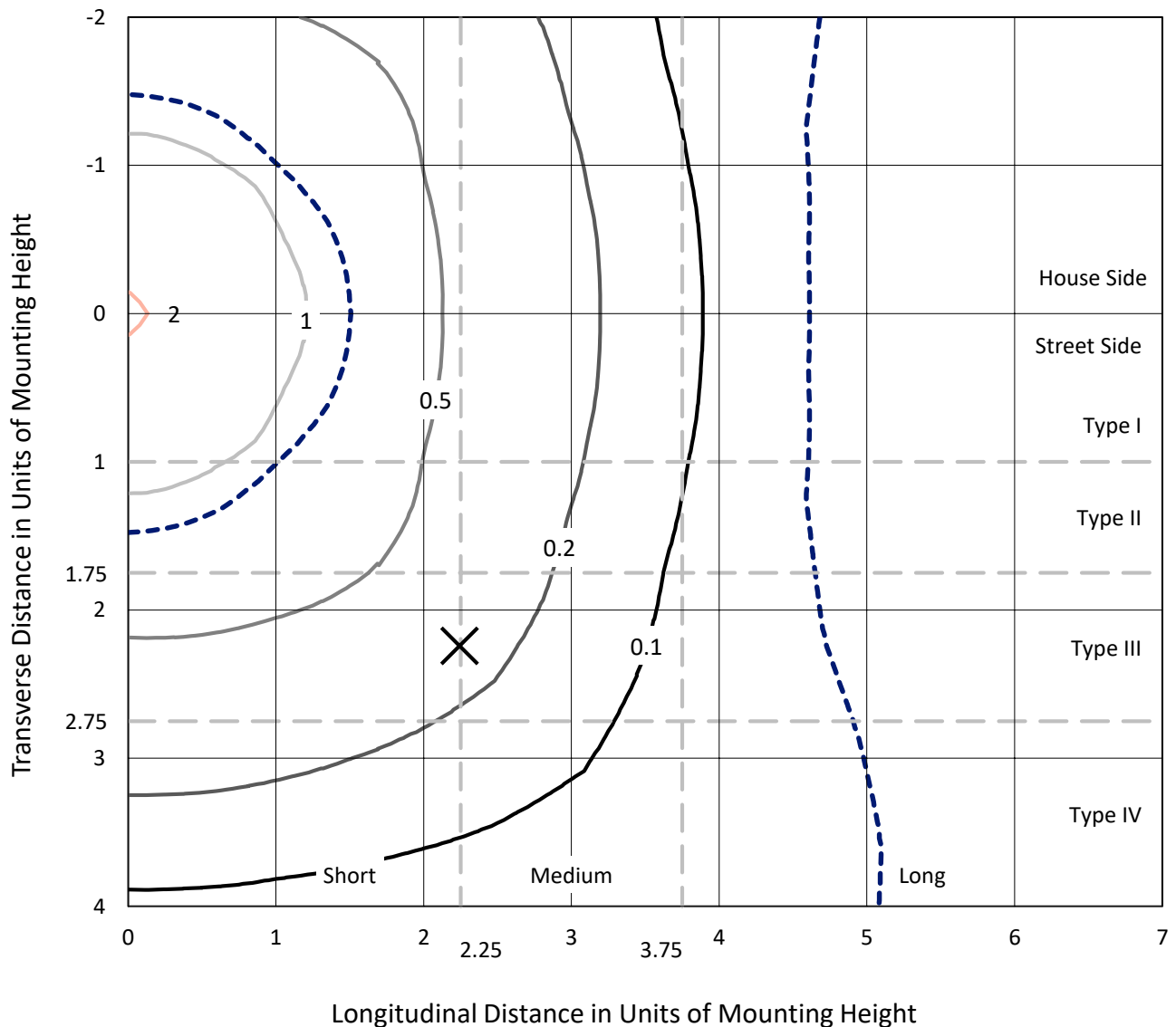


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

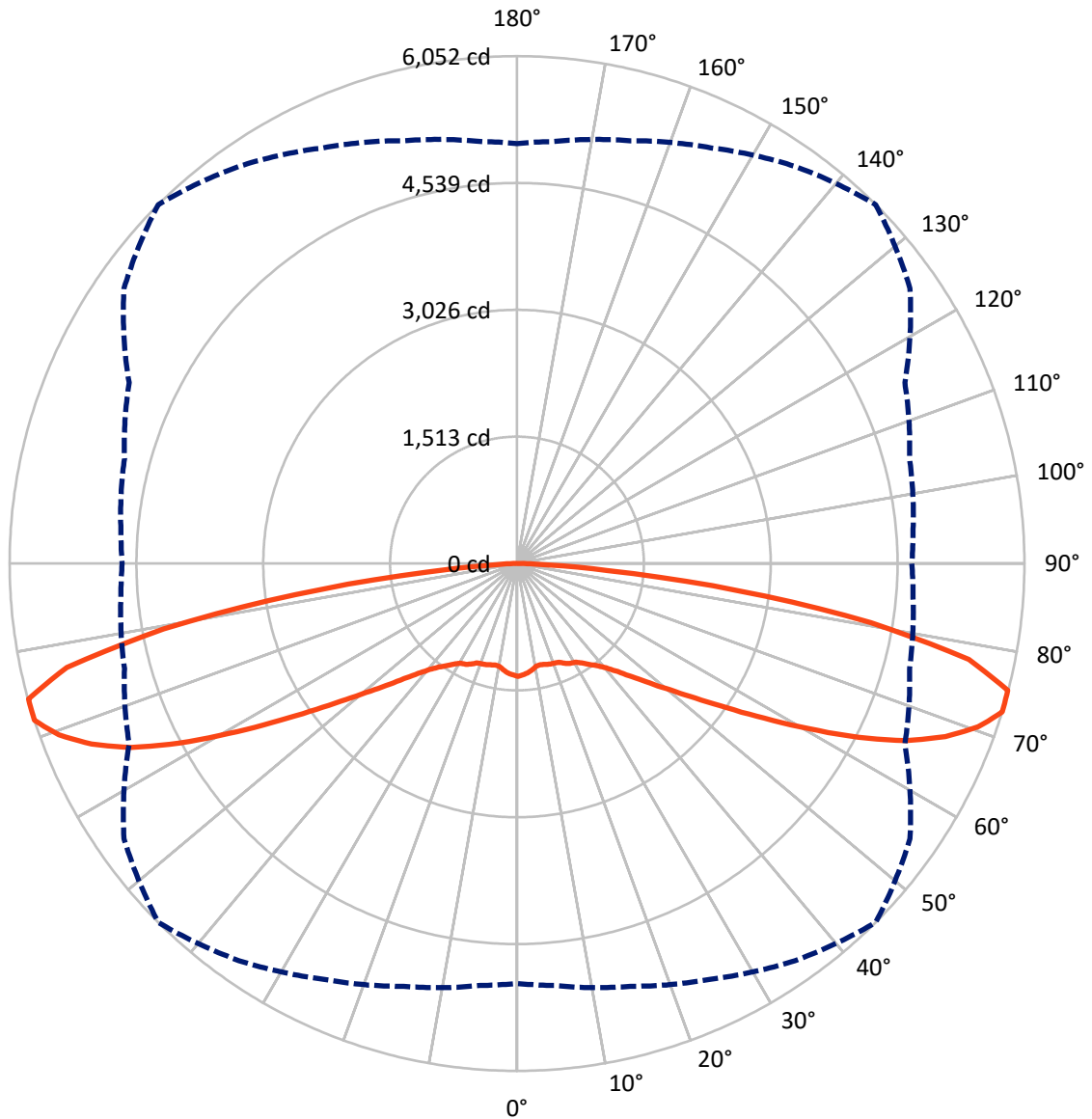


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Non-Cutoff

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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	8140.5	0.0	8140.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8140.5	0.0	8140.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16281.0	0.0	16281.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	0.8
10°-20°	358.6	2.2
20°-30°	609.3	3.7
30°-40°	929.4	5.7
40°-50°	1530.3	9.4
50°-60°	2672.4	16.4
60°-70°	4480.4	27.5
70°-80°	4794.9	29.5
80°-90°	782.0	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°	16281.0	100.0
0°-180°	16281.0	100.0



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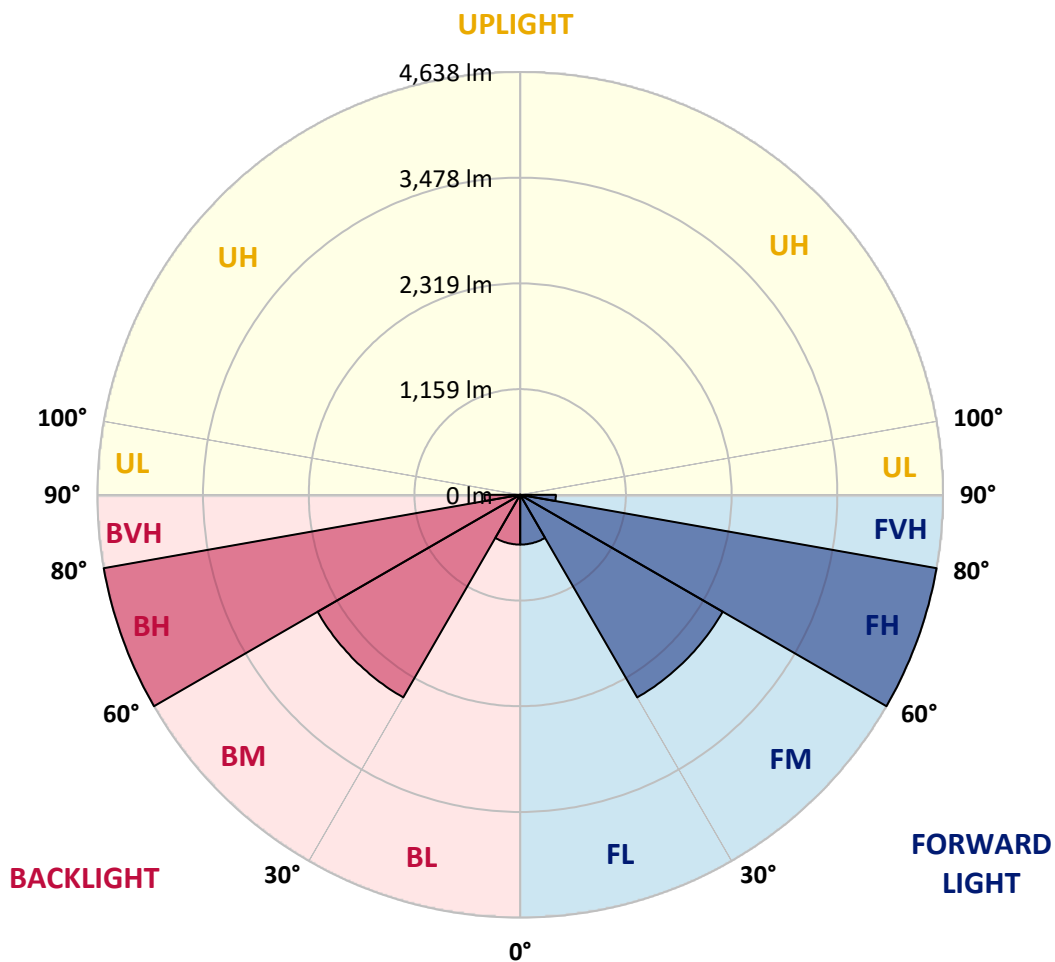
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	545.7	3.4			
FM	(30°-60°)	2566.1	15.8			
FH	(60°-80°)	4637.7	28.5			G2/5000
FVH	(80°-90°)	391.0	2.4			G3/500
BL	(0°-30°)	545.7	3.4	B2/1000		
BM	(30°-60°)	2566.1	15.8	B3/5000		
BH	(60°-80°)	4637.7	28.5	B4/5000		G2/5000
BVH	(80°-90°)	391.0	2.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1347.3	1347.3	1347.3	1347.3	1347.3	1347.3	1347.3	1347.3	1347.3	1347.3	1347.3
2.5°	1339.0	1339.0	1339.0	1336.9	1332.7	1330.6	1326.5	1328.6	1328.6	1328.6	1328.6
5°	1322.3	1322.3	1320.2	1318.2	1314.0	1311.9	1307.8	1311.9	1311.9	1311.9	1311.9
7.5°	1291.1	1293.2	1293.2	1291.1	1284.9	1282.8	1276.6	1278.7	1278.7	1280.7	1278.7
10°	1274.5	1274.5	1272.4	1262.0	1251.6	1247.5	1245.4	1251.6	1257.9	1264.1	1264.1
12.5°	1274.5	1274.5	1270.3	1253.7	1239.2	1239.2	1239.2	1247.5	1259.9	1272.4	1274.5
15°	1280.7	1280.7	1272.4	1253.7	1245.4	1247.5	1247.5	1255.8	1270.3	1287.0	1289.1
17.5°	1284.9	1284.9	1274.5	1255.8	1255.8	1262.0	1257.9	1264.1	1278.7	1297.4	1299.5
20°	1291.1	1291.1	1276.6	1262.0	1262.0	1268.3	1268.3	1274.5	1287.0	1305.7	1307.8
22.5°	1303.6	1301.5	1287.0	1274.5	1274.5	1278.7	1282.8	1291.1	1301.5	1318.2	1322.3
25°	1318.2	1318.2	1305.7	1303.6	1307.8	1318.2	1316.1	1314.0	1318.2	1332.7	1339.0
27.5°	1326.5	1326.5	1318.2	1324.4	1341.0	1349.3	1339.0	1330.6	1330.6	1345.2	1347.3
30°	1353.5	1351.4	1343.1	1347.3	1361.8	1366.0	1359.7	1349.3	1355.6	1372.2	1374.3
32.5°	1399.2	1399.2	1386.8	1386.8	1397.2	1413.8	1393.0	1386.8	1395.1	1413.8	1415.9
35°	1469.9	1469.9	1453.3	1445.0	1453.3	1476.2	1445.0	1442.9	1457.5	1478.3	1480.3
37.5°	1559.3	1559.3	1548.9	1528.2	1530.2	1544.8	1517.8	1515.7	1542.7	1565.6	1565.6
40°	1671.6	1677.9	1667.5	1642.5	1634.2	1636.3	1615.5	1617.6	1648.7	1675.8	1675.8
42.5°	1810.9	1815.1	1798.4	1779.7	1769.3	1763.1	1742.3	1746.5	1783.9	1819.2	1819.2
45°	1979.3	1981.4	1964.8	1941.9	1929.4	1925.3	1904.5	1914.9	1956.5	1993.9	1991.8
47.5°	2168.5	2170.6	2154.0	2131.1	2122.8	2129.0	2108.2	2108.2	2145.7	2176.8	2172.7
50°	2382.7	2386.8	2368.1	2357.7	2351.5	2368.1	2343.2	2320.3	2345.2	2376.4	2372.3
52.5°	2619.7	2630.1	2617.6	2621.8	2644.6	2665.4	2623.9	2574.0	2586.4	2607.2	2601.0
55°	2906.6	2919.1	2923.2	2937.8	2998.1	3033.4	2964.8	2881.7	2875.4	2877.5	2867.1
57.5°	3228.9	3237.2	3264.2	3297.5	3422.2	3478.4	3370.3	3226.8	3181.1	3154.0	3147.8
60°	3553.2	3567.8	3634.3	3702.9	3894.2	3996.1	3829.7	3588.6	3490.8	3440.9	3430.6
62.5°	3879.6	3908.7	4016.9	4133.3	4411.9	4563.7	4307.9	3958.6	3817.3	3754.9	3738.3
65°	4258.0	4293.4	4424.4	4572.0	4881.8	5095.9	4786.1	4341.2	4189.4	4106.3	4085.5
67.5°	4700.9	4738.3	4844.4	5008.6	5301.8	5511.8	5237.3	4732.1	4534.6	4428.5	4411.9
70°	5064.7	5098.0	5212.4	5378.7	5597.0	5836.1	5574.1	5043.9	4865.1	4790.3	4779.9
72.5°	5008.6	5052.3	5220.7	5470.2	5782.0	6052.3	5721.7	5104.2	4846.4	4742.5	4709.2
75°	4374.5	4422.3	4621.9	5073.1	5642.7	6046.1	5507.6	4703.0	4399.4	4312.1	4295.5
77.5°	2896.2	2942.0	3278.8	3989.8	4927.5	5509.7	4861.0	3939.9	3451.3	3241.4	3228.9
80°	1170.5	1228.8	1551.0	2305.7	3492.9	4283.0	3605.2	2522.0	1700.7	1372.2	1305.7
82.5°	272.4	324.3	472.0	850.4	1788.0	2667.5	1944.0	941.8	546.8	388.8	349.3
85°	114.4	116.4	201.7	276.5	559.3	1077.0	636.2	343.1	278.6	203.8	199.6
87.5°	43.7	45.7	97.7	116.4	178.8	203.8	216.2	176.7	164.3	101.9	97.7
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)