

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: INVUE

Report Number: P226212

Luminaire Tested: **MLA-B3-LED-XX-T3-8030-XX**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P226212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29662)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MLA-B3-LED-XX-T3-8030-XX
Description: METROLINE ARCHITECTURAL LED LUMINAIRE
80 CRI, 3000K LEDS AND TYPE III DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9862 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.75' x H: 0.17')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U1 - G2

Input Watts (W): 93.7
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: 25 FT

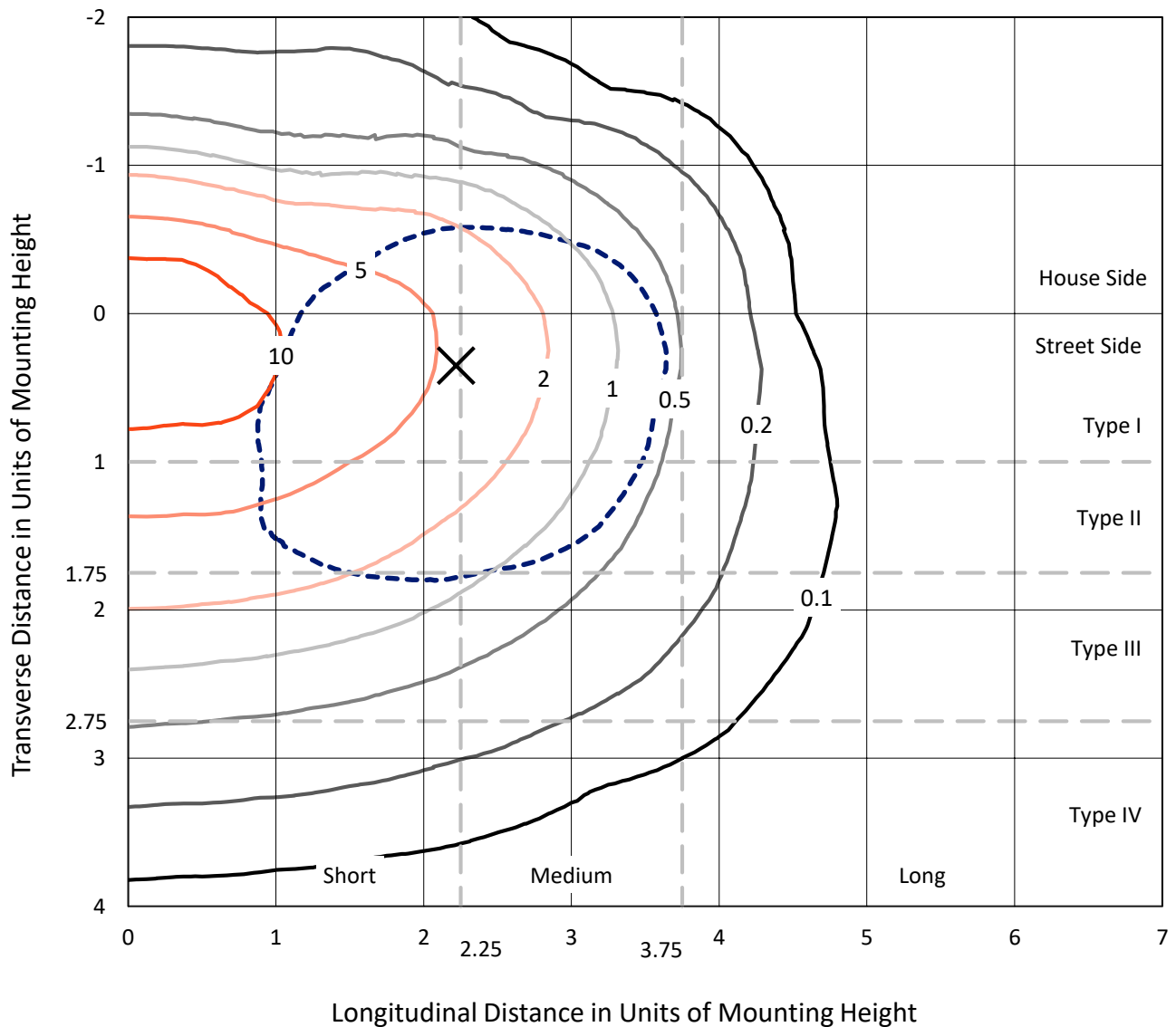


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Iso-Footcandle Lines of Horizontal Illumination

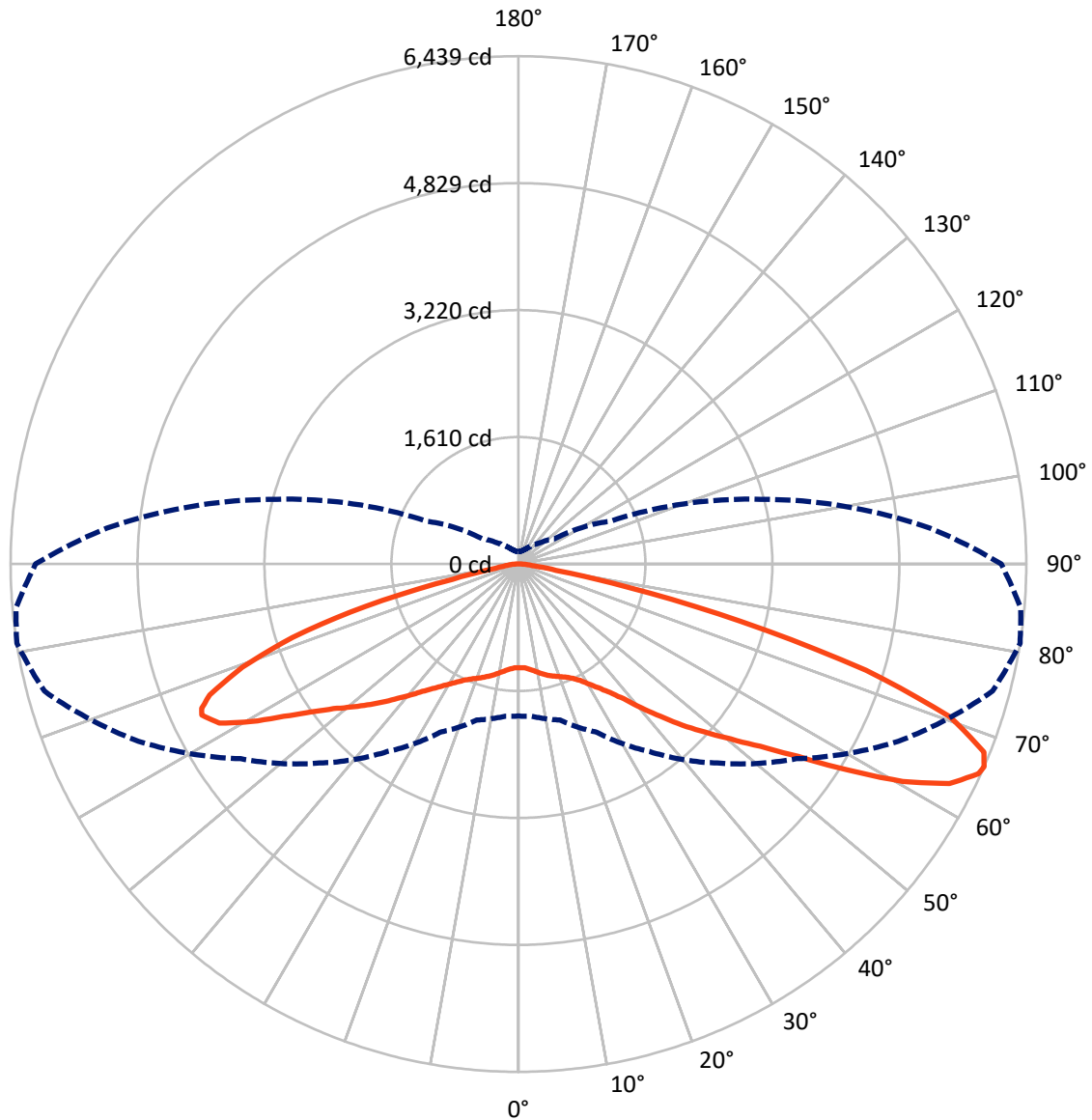
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 81-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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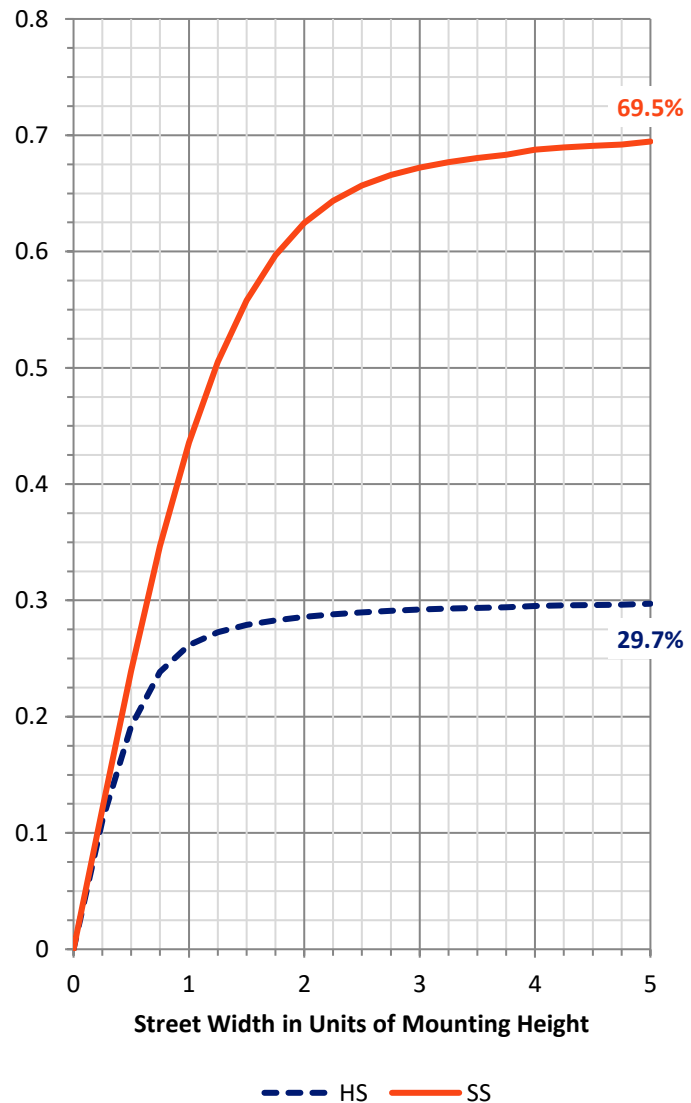
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2966.0	3.5	2969.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	6887.3	5.2	6892.5
	% Fixture	69.8	0.1	69.9
Total	Lumens	9853.3	8.7	9862.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	1.3
10°-20°	410.0	4.2
20°-30°	700.0	7.1
30°-40°	1046.6	10.6
40°-50°	1499.2	15.2
50°-60°	2055.3	20.8
60°-70°	2517.0	25.5
70°-80°	1277.2	13.0
80°-90°	218.7	2.2
90°-100°	8.6	0.1
100°-110°	0.1	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°	9853.3	99.9
0°-180°	9862.0	100.0



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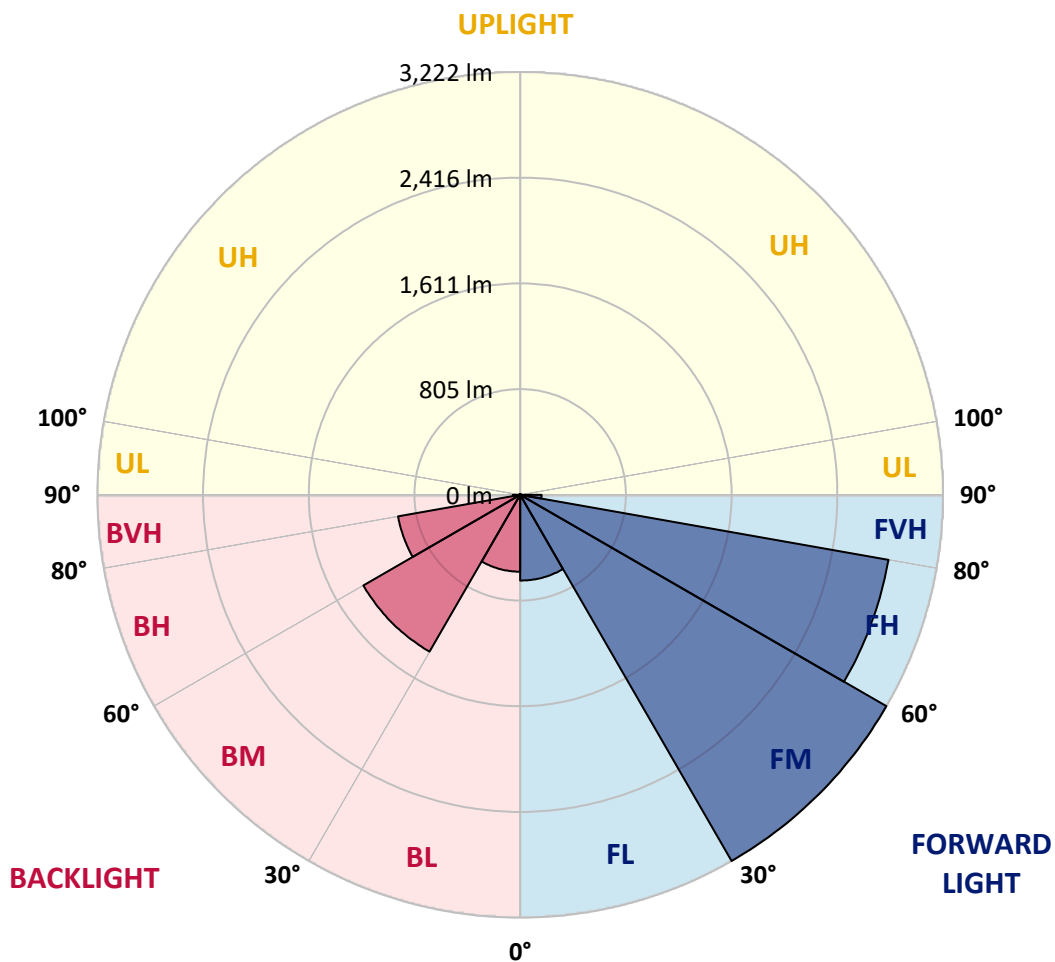
CATALOG NUMBER: MLA-B3-LED-XX-T3-8030-XX

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.3	6.6			
FM	(30°-60°)	3221.6	32.7			
FH	(60°-80°)	2849.4	28.9			G2/5000
FVH	(80°-90°)	163.0	1.7			G2/225
BL	(0°-30°)	585.9	5.9	B2/1000		
BM	(30°-60°)	1379.5	14.0	B2/2500		
BH	(60°-80°)	944.8	9.6	B2/1000		G2/1000
BVH	(80°-90°)	55.7	0.6			G1/100
UL	(90°-100°)	8.6	0.1		U1/10	
UH	(100°-180°)	3.5	0.0		U1/10	

BUG Rating: B2-U1-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
0°	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0
2.5°	1339.1	1335.0	1322.7	1320.3	1315.4	1325.2	1326.0	1326.0	1318.7	1315.4	1313.0
5°	1352.1	1348.0	1335.8	1335.0	1328.5	1339.9	1340.7	1339.1	1335.8	1335.8	1335.8
7.5°	1388.8	1383.9	1370.9	1363.5	1353.8	1361.9	1362.7	1362.7	1361.9	1363.5	1364.4
10°	1445.1	1434.5	1419.8	1406.8	1389.7	1393.7	1392.1	1395.4	1394.6	1399.4	1397.8
12.5°	1494.9	1487.6	1469.6	1454.9	1432.9	1432.1	1424.7	1424.7	1428.8	1435.4	1435.4
15°	1538.2	1533.3	1515.3	1502.3	1480.2	1470.4	1456.6	1456.6	1462.3	1468.0	1467.2
17.5°	1574.9	1574.1	1553.7	1544.7	1521.8	1511.2	1487.6	1485.1	1491.7	1494.9	1494.9
20°	1610.0	1607.5	1588.8	1578.2	1560.2	1555.3	1516.1	1509.6	1519.4	1525.1	1524.3
22.5°	1633.6	1628.7	1611.6	1602.6	1593.7	1595.3	1551.2	1536.5	1551.2	1559.4	1557.8
25°	1652.4	1649.1	1627.1	1623.8	1624.7	1640.2	1595.3	1583.0	1599.4	1605.9	1604.3
27.5°	1675.3	1671.2	1650.8	1644.2	1662.2	1694.8	1663.8	1646.7	1664.6	1673.6	1674.4
30°	1725.0	1721.8	1694.8	1685.0	1716.9	1778.1	1756.0	1738.9	1741.4	1766.7	1769.9
32.5°	1840.1	1835.2	1806.6	1788.7	1823.8	1902.1	1889.9	1867.0	1849.1	1873.5	1880.1
35°	1959.2	1954.3	1937.2	1928.2	1982.1	2082.4	2071.0	2040.0	1983.7	2000.8	2004.9
37.5°	2030.2	2035.9	2040.8	2066.9	2156.7	2289.7	2294.6	2253.8	2163.2	2167.3	2161.6
40°	2092.2	2098.8	2123.2	2194.2	2334.6	2490.4	2555.7	2498.6	2404.0	2395.0	2372.1
42.5°	2142.8	2156.7	2200.8	2315.0	2497.0	2680.6	2794.0	2741.8	2670.0	2639.8	2609.6
45°	2203.2	2213.0	2275.8	2430.1	2639.8	2859.3	3006.2	2979.2	2937.6	2914.8	2845.4
47.5°	2250.5	2267.7	2335.4	2519.8	2766.3	3022.5	3208.5	3228.1	3229.7	3182.4	3104.9
50°	2313.4	2334.6	2394.2	2598.2	2851.9	3151.4	3397.8	3478.6	3533.3	3486.0	3369.3
52.5°	2381.9	2408.8	2471.7	2701.8	2936.0	3251.0	3567.6	3734.9	3867.0	3838.5	3713.6
55°	2471.7	2495.3	2566.3	2826.6	3054.3	3368.5	3753.6	4047.4	4321.6	4309.3	4186.9
57.5°	2566.3	2579.4	2659.4	2942.5	3217.5	3565.9	3978.0	4475.8	4914.8	4927.9	4796.5
60°	2495.3	2506.8	2600.6	2934.4	3302.4	3756.1	4216.3	4967.8	5564.3	5596.2	5484.4
62.5°	2295.4	2306.0	2415.4	2779.3	3233.0	3792.8	4376.2	5299.1	6041.7	6130.6	5995.2
65°	2040.8	2052.3	2164.9	2485.6	3030.6	3666.3	4369.7	5377.5	6233.5	6411.3	6337.9
66°	1926.6	1937.2	2047.4	2352.5	2903.3	3568.4	4302.0	5315.5	6223.7	6439.1	6393.4
67.5°	1751.1	1724.2	1823.0	2145.3	2679.8	3370.1	4115.9	5168.6	6101.3	6364.8	6348.5
70°	1339.9	1317.0	1422.3	1705.4	2205.7	2900.9	3658.1	4670.8	5574.9	5805.9	5838.5
72.5°	922.1	905.8	1002.9	1244.4	1653.2	2266.0	2968.6	3846.6	4509.2	4607.2	4731.2
75°	650.4	640.6	698.5	829.9	1109.0	1561.0	2188.5	2736.9	2951.5	2912.3	3035.5
77.5°	380.3	389.2	467.6	574.5	768.7	983.3	1489.2	1684.2	1568.4	1397.0	1319.5
80°	188.5	190.1	259.5	343.5	547.5	742.6	968.6	1091.8	988.2	483.9	357.4
82.5°	87.3	95.5	128.1	158.3	244.0	536.9	819.3	1043.7	887.0	198.3	158.3
85°	37.5	49.8	82.4	97.9	102.8	214.6	669.1	940.9	564.7	120.0	96.3
87.5°	11.4	26.9	56.3	68.5	62.0	78.3	250.5	429.2	204.8	59.6	53.9
90°	0.0	16.3	35.1	39.2	34.3	31.8	72.6	132.2	53.0	21.2	19.6
92.5°	0.0	7.3	19.6	18.8	13.9	9.0	10.6	10.6	3.3	2.4	2.4
95°	0.0	1.6	7.3	4.9	3.3	1.6	0.8	0.8	0.8	0.8	0.8
97.5°	0.0	0.0	0.8	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
100°	0.0	0.0	0.8	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	81°	85°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0	1317.0
2.5°	1317.0	1315.4	1318.7	1322.7	1324.4	1326.0	1313.0	1313.0	1317.0	1332.5	1333.4
5°	1339.1	1335.8	1334.2	1335.8	1338.2	1340.7	1326.8	1326.0	1330.1	1344.8	1347.2
7.5°	1366.0	1363.5	1361.1	1358.6	1358.6	1360.3	1344.0	1341.5	1346.4	1361.1	1362.7
10°	1400.3	1397.0	1392.1	1388.8	1387.2	1384.8	1359.5	1350.5	1351.3	1365.2	1367.6
12.5°	1432.9	1432.1	1428.8	1429.6	1424.7	1412.5	1370.9	1348.9	1340.7	1350.5	1353.8
15°	1464.7	1464.7	1470.4	1476.2	1463.9	1434.5	1377.4	1338.2	1317.0	1324.4	1326.0
17.5°	1493.3	1496.6	1508.8	1516.1	1495.7	1454.9	1376.6	1317.8	1282.8	1283.6	1283.6
20°	1525.9	1529.2	1545.5	1548.0	1519.4	1466.4	1365.2	1283.6	1238.7	1233.8	1229.7
22.5°	1557.8	1563.5	1579.0	1574.9	1534.1	1465.5	1341.5	1245.2	1190.6	1181.6	1177.5
25°	1600.2	1610.0	1619.8	1601.0	1543.1	1450.9	1305.6	1202.0	1134.2	1117.9	1113.0
27.5°	1664.6	1674.4	1669.5	1627.1	1544.7	1419.8	1268.9	1148.9	1063.3	1038.8	1036.3
30°	1756.0	1756.9	1725.0	1652.4	1538.2	1388.8	1215.8	1077.9	980.8	953.9	952.3
32.5°	1864.6	1847.4	1784.6	1671.2	1521.0	1340.7	1140.0	992.3	898.4	871.5	866.6
35°	1982.9	1958.4	1849.1	1691.6	1489.2	1265.6	1048.6	904.9	818.5	793.2	789.1
37.5°	2125.7	2087.3	1921.7	1705.4	1436.2	1169.3	953.1	818.5	733.6	708.3	702.6
40°	2309.3	2250.5	2004.9	1706.3	1355.4	1055.1	856.0	726.2	644.6	618.5	616.1
42.5°	2529.6	2428.4	2089.0	1691.6	1261.5	958.0	760.5	628.3	550.8	521.4	522.2
45°	2763.0	2635.7	2179.5	1663.0	1173.4	847.8	647.9	528.8	459.4	437.4	436.6
47.5°	3002.1	2847.0	2275.8	1631.2	1075.5	742.6	547.5	435.7	381.9	370.5	363.9
50°	3251.0	3072.3	2371.3	1598.6	966.1	638.9	451.3	359.9	315.8	304.4	300.3
52.5°	3562.7	3317.9	2463.5	1571.6	860.1	537.7	372.1	301.1	261.1	248.9	245.6
55°	4009.0	3664.7	2575.3	1537.4	768.7	448.8	316.6	253.8	222.0	210.5	207.3
57.5°	4590.0	4094.7	2723.0	1490.8	686.3	390.1	275.0	223.6	202.4	190.9	188.5
60°	5239.6	4599.0	2943.3	1445.1	619.3	359.0	253.0	212.2	191.8	180.3	178.7
62.5°	5816.5	5033.1	3188.9	1403.5	584.3	352.5	252.1	208.1	182.8	170.5	168.9
65°	6107.8	5255.1	3237.9	1335.8	567.1	369.7	268.5	207.3	175.4	161.6	159.9
66°	6121.7	5237.1	3173.4	1286.0	554.1	375.4	275.0	206.4	172.2	158.3	156.7
67.5°	6007.4	5090.2	2994.7	1161.2	520.6	372.9	281.5	204.8	167.3	152.6	151.8
70°	5439.5	4541.1	2523.9	902.5	440.6	338.6	268.5	196.7	158.3	143.6	141.2
72.5°	4365.6	3720.2	1953.5	646.3	363.1	294.6	244.8	185.2	150.1	134.6	132.2
75°	2805.4	2474.9	1332.5	464.3	307.6	257.9	215.4	176.3	141.2	124.8	123.2
77.5°	986.5	963.7	699.3	358.2	266.8	222.8	186.0	158.3	128.1	102.0	97.1
80°	256.2	269.3	323.1	307.6	225.2	186.0	154.2	134.6	110.2	80.8	79.2
82.5°	138.7	148.5	199.9	244.0	181.2	147.7	122.4	102.8	87.3	65.3	60.4
85°	88.1	93.0	129.7	148.5	118.3	109.3	90.6	74.3	64.5	41.6	37.5
87.5°	55.5	64.5	82.4	80.0	61.2	46.5	60.4	49.8	44.9	25.3	18.8
90°	16.3	22.0	32.6	33.5	25.3	18.8	29.4	29.4	28.6	13.9	0.0
92.5°	1.6	1.6	2.4	5.7	6.5	7.3	12.2	15.5	15.5	3.3	0.0
95°	0.8	0.8	0.8	1.6	2.4	3.3	4.1	6.5	6.5	0.8	0.0
97.5°	0.8	0.8	1.6	1.6	1.6	1.6	0.8	1.6	0.8	0.0	0.0
100°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226212

CATALOG NUMBER: MLA-B3-LED-XX-T3-8030-XX

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)