

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: P226203

Luminaire Tested: **MLA-B3-LED-XX-T2-8030-XX**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P226203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29120)
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-T2-8030-XX
Description: METROLINE ARCHITECTURAL LED LUMINAIRE
80 CRI, 3000K LEDS AND TYPE II DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9067 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3.75' x H: 0.17')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U1 - G2

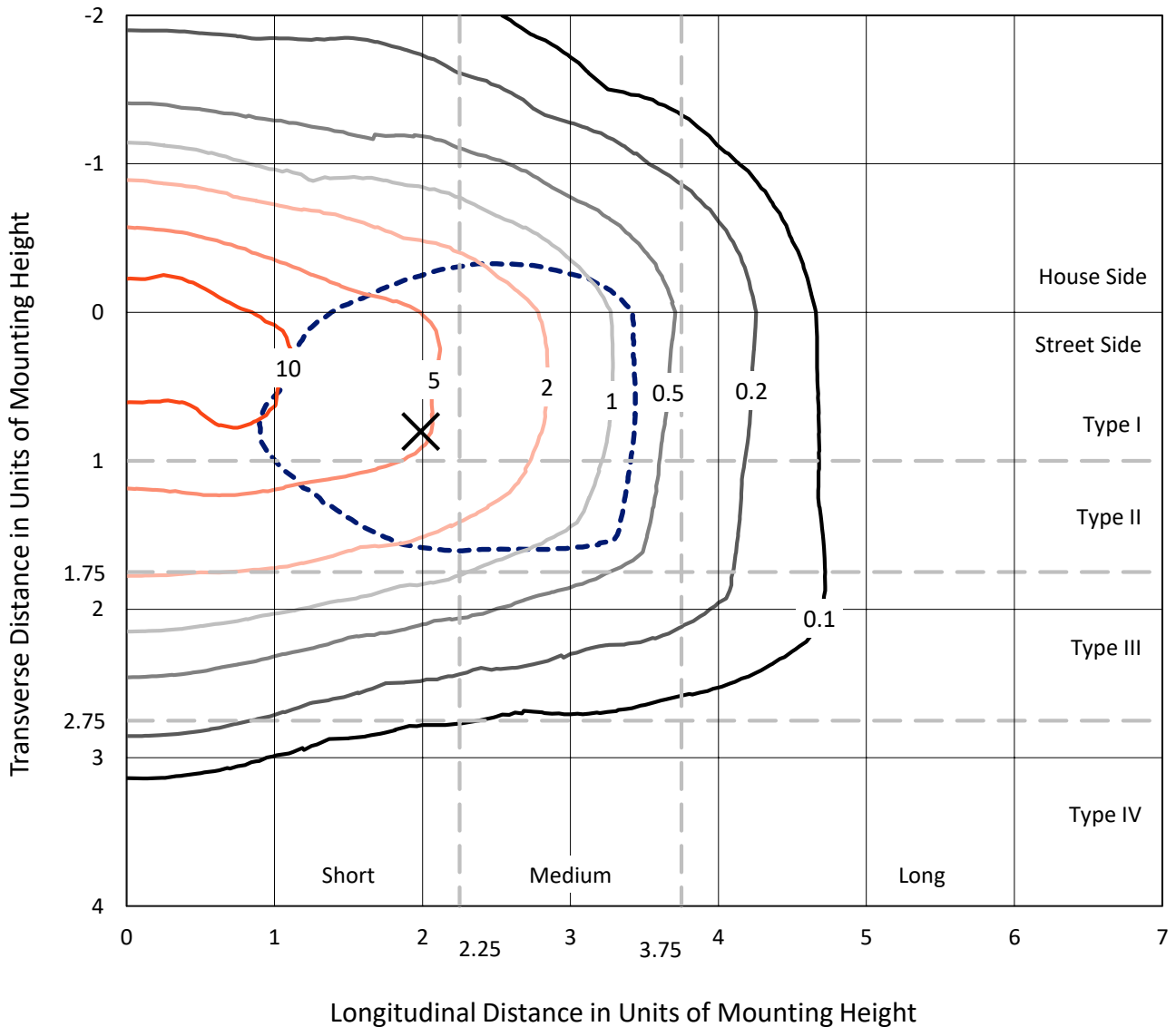
Input Watts (W): 93.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

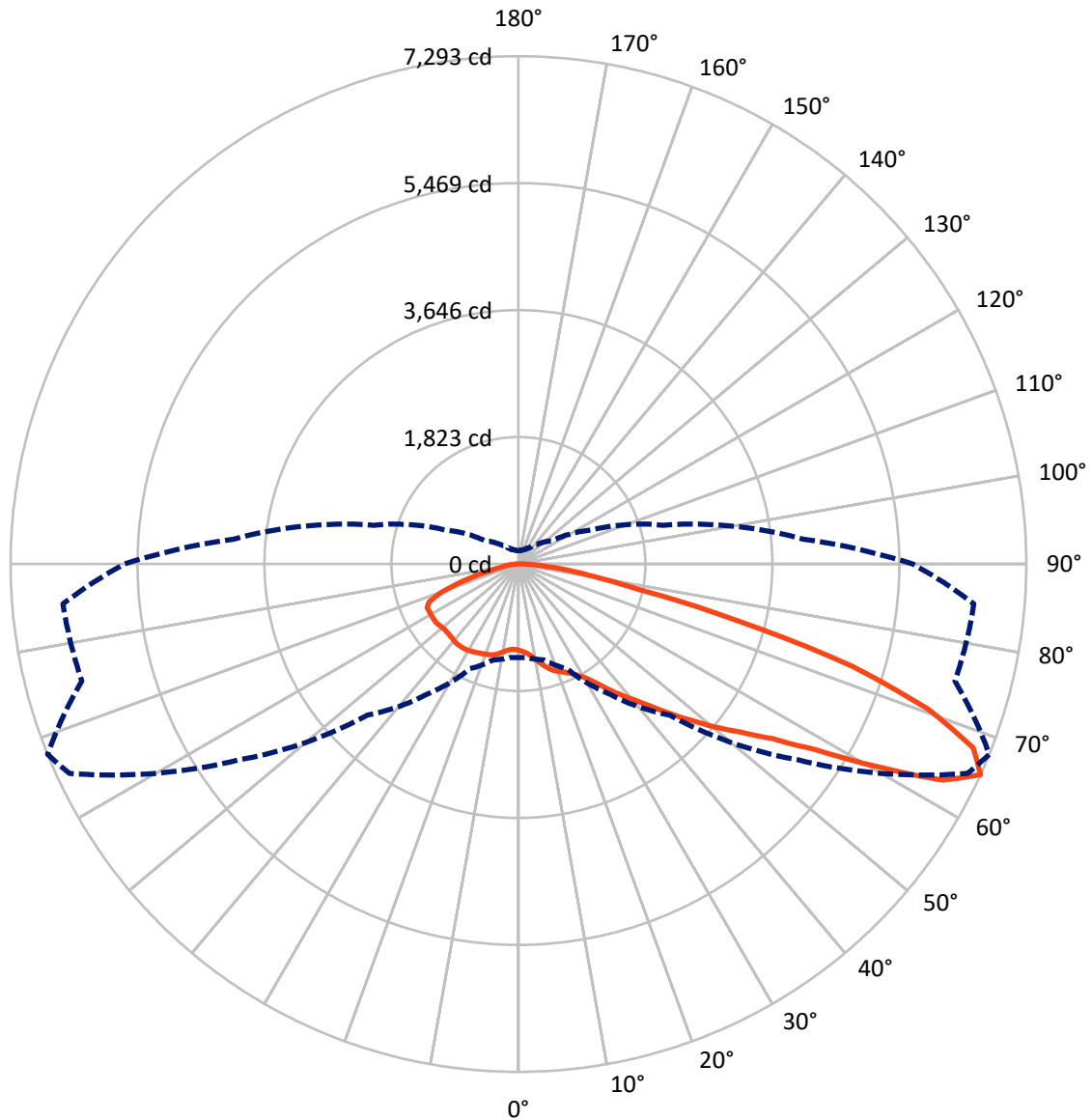
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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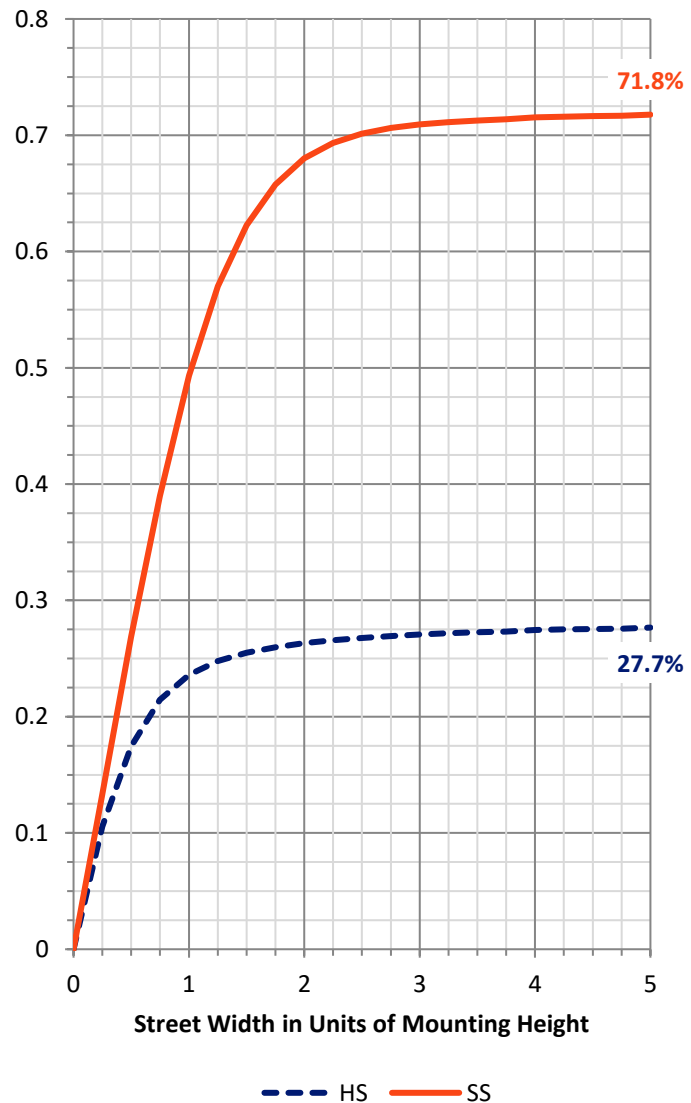
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2539.2	2.4	2541.5
	% Fixture	28.0	0.0	28.0
Street Side	Lumens	6522.7	2.7	6525.4
	% Fixture	71.9	0.0	72.0
Total	Lumens	9061.9	5.1	9067.0
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	1.3
10°-20°	396.3	4.4
20°-30°	673.5	7.4
30°-40°	960.6	10.6
40°-50°	1410.5	15.6
50°-60°	1934.8	21.3
60°-70°	2342.7	25.8
70°-80°	1085.7	12.0
80°-90°	135.5	1.5
90°-100°	5.0	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°	9061.9	99.9
0°-180°	9067.0	100.0



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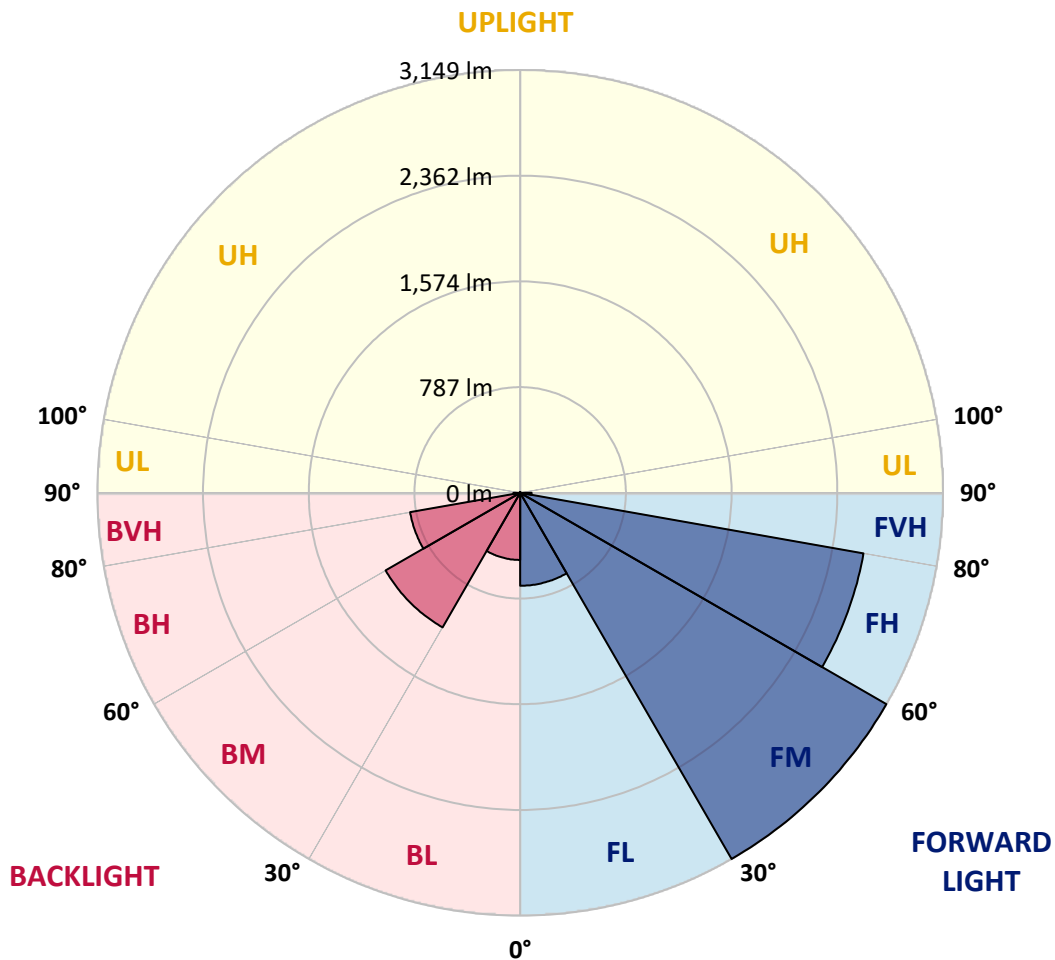
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.1	7.6			
FM (30°-60°)	3149.0	34.7			
FH (60°-80°)	2596.1	28.6			G2/5000
FVH (80°-90°)	85.5	0.9			G1/100
BL (0°-30°)	500.1	5.5	B2/1000		
BM (30°-60°)	1156.9	12.8	B2/2500		
BH (60°-80°)	832.2	9.2	B2/1000		G2/1000
BVH (80°-90°)	50.0	0.6			G1/100
UL (90°-100°)	5.0	0.1		U1/10	
UH (100°-180°)	2.4	0.0		U1/10	

BUG Rating: B2-U1-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3
2.5°	1309.7	1299.9	1287.6	1286.0	1272.1	1273.8	1268.9	1261.5	1259.1	1250.1	1237.0
5°	1372.5	1359.4	1343.9	1339.0	1321.9	1321.9	1308.0	1293.3	1288.4	1277.0	1260.7
7.5°	1446.7	1435.3	1417.4	1409.2	1386.4	1382.3	1361.1	1342.3	1335.0	1321.9	1301.5
10°	1526.7	1517.7	1496.5	1489.2	1460.6	1454.9	1428.8	1406.8	1399.4	1381.5	1354.5
12.5°	1599.3	1589.5	1572.4	1562.6	1539.0	1532.4	1503.9	1479.4	1470.4	1450.0	1419.0
15°	1657.3	1645.8	1632.0	1627.9	1609.1	1609.9	1580.6	1552.8	1543.0	1519.4	1480.2
17.5°	1694.8	1685.0	1674.4	1674.4	1666.2	1676.0	1650.7	1613.2	1603.4	1572.4	1527.5
20°	1706.2	1700.5	1696.4	1707.9	1708.7	1731.5	1710.3	1663.0	1647.5	1611.6	1567.5
22.5°	1700.5	1697.3	1700.5	1716.8	1735.6	1786.2	1765.8	1706.2	1687.5	1647.5	1612.4
25°	1682.6	1680.1	1686.6	1712.8	1751.1	1831.9	1827.0	1760.1	1738.9	1695.6	1663.0
27.5°	1651.6	1654.0	1667.9	1695.6	1761.7	1878.4	1898.0	1833.5	1807.4	1756.0	1722.6
30°	1618.1	1622.2	1649.9	1691.5	1778.0	1937.2	1995.1	1927.4	1897.2	1840.1	1794.4
32.5°	1580.6	1587.1	1631.2	1694.8	1817.2	2017.9	2120.8	2060.4	2031.0	1958.4	1891.5
35°	1549.6	1556.9	1618.1	1718.5	1880.9	2120.8	2289.7	2235.8	2199.9	2118.3	2009.0
37.5°	1569.1	1578.1	1647.5	1783.8	1984.5	2247.2	2448.8	2418.6	2381.1	2297.0	2154.2
40°	1658.1	1670.3	1755.2	1930.6	2164.8	2426.8	2621.8	2596.5	2565.5	2506.7	2342.7
42.5°	1751.1	1763.4	1871.1	2110.1	2425.1	2698.5	2842.1	2809.5	2794.8	2760.5	2585.9
45°	1807.4	1827.8	1947.8	2251.3	2668.3	3011.0	3134.2	3052.6	3069.8	3078.7	2878.8
47.5°	1845.8	1865.4	1989.4	2354.1	2851.1	3276.2	3474.5	3318.6	3361.9	3392.9	3167.7
50°	1869.4	1889.0	2016.3	2416.1	2959.6	3445.9	3800.9	3629.5	3685.0	3690.7	3448.4
52.5°	1871.1	1889.8	2010.6	2417.8	2980.8	3544.7	4048.9	3984.5	4017.1	3992.6	3768.2
55°	1825.4	1842.5	1961.6	2342.7	2899.2	3568.3	4278.2	4419.4	4423.5	4390.8	4217.0
57.5°	1757.6	1770.7	1881.7	2235.0	2781.7	3539.8	4514.1	5051.0	5027.3	4997.9	4925.3
60°	1714.4	1722.6	1820.5	2147.7	2697.7	3444.3	4793.9	5924.1	5900.4	5744.6	5843.3
62.5°	1604.2	1609.9	1710.3	2017.9	2621.0	3295.0	4947.3	6803.7	6833.1	6297.8	6422.6
65°	1343.9	1346.4	1426.3	1660.5	2277.4	3065.7	4905.7	7115.4	7292.5	6489.6	6565.4
67.5°	978.4	975.9	1019.2	1164.4	1633.6	2638.1	4618.5	6669.9	7040.4	6619.3	6434.1
70°	634.8	635.7	660.1	725.4	975.1	1853.1	3727.4	5861.2	6235.0	6407.1	5853.1
72.5°	332.1	342.7	334.6	366.4	550.8	1060.0	2427.6	4832.3	5000.4	5174.2	4556.5
75°	166.5	173.0	182.8	196.7	279.1	622.6	1419.8	3386.4	3241.1	2849.4	2607.1
77.5°	123.2	128.1	138.7	146.9	174.6	356.6	986.5	1909.4	1753.6	1381.5	1242.8
80°	87.3	93.0	111.0	119.1	129.7	172.2	639.7	1095.9	1107.3	837.2	412.9
82.5°	49.0	59.6	80.8	92.2	93.8	108.5	259.5	686.2	713.2	460.2	149.3
85°	24.5	36.7	57.9	69.4	62.8	67.7	128.1	329.7	352.5	258.7	81.6
87.5°	1.6	22.0	40.0	47.3	43.2	43.2	60.4	149.3	154.2	135.5	46.5
90°	0.0	13.1	24.5	28.6	24.5	21.2	24.5	48.1	52.2	40.0	9.8
92.5°	0.0	4.9	11.4	10.6	8.2	4.9	4.1	2.4	1.6	0.8	0.8
95°	0.0	0.8	2.4	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.8
100°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.0	0.0	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
110°	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°	68°	75°	85°
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°	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3
2.5°	1236.2	1233.8	1229.7	1225.6	1223.2	1219.1	1206.8	1202.0	1205.2	1219.1	1221.5
5°	1258.3	1253.4	1237.9	1224.8	1215.0	1205.2	1185.6	1176.7	1174.2	1185.6	1189.7
7.5°	1294.2	1287.6	1263.2	1239.5	1218.3	1198.7	1168.5	1151.4	1144.8	1153.0	1156.3
10°	1347.2	1334.1	1299.9	1263.2	1229.7	1197.1	1153.8	1126.1	1113.0	1117.9	1119.5
12.5°	1405.9	1390.4	1344.7	1294.2	1246.0	1198.7	1139.1	1100.0	1081.2	1082.0	1082.8
15°	1464.7	1443.5	1387.2	1324.4	1261.5	1200.3	1126.1	1075.5	1046.9	1045.3	1045.3
17.5°	1507.9	1484.3	1415.7	1342.3	1271.3	1198.7	1111.4	1049.4	1016.7	1009.4	1009.4
20°	1547.9	1520.2	1435.3	1350.5	1269.7	1192.2	1092.6	1021.6	980.0	969.4	971.0
22.5°	1590.4	1555.3	1454.1	1358.6	1264.8	1180.7	1071.4	984.9	935.1	922.9	923.7
25°	1636.9	1593.6	1475.3	1370.0	1264.0	1162.8	1033.0	933.5	882.1	869.8	870.7
27.5°	1691.5	1632.8	1494.9	1381.5	1256.6	1128.5	975.1	877.2	825.0	813.5	813.5
30°	1756.8	1677.7	1521.0	1390.4	1233.0	1073.8	916.4	820.9	767.8	754.8	752.3
32.5°	1834.3	1735.6	1558.5	1391.3	1190.5	1006.1	857.6	766.2	713.2	696.9	696.0
35°	1934.7	1810.7	1605.1	1378.2	1135.0	944.1	808.6	712.4	658.5	643.8	643.0
37.5°	2056.3	1915.9	1659.7	1354.5	1079.6	891.1	753.2	657.7	598.9	581.0	580.2
40°	2226.0	2052.2	1706.2	1325.2	1029.8	842.1	696.0	593.2	533.7	516.5	514.1
42.5°	2427.6	2201.5	1735.6	1296.6	992.2	785.0	626.7	524.7	470.8	461.0	458.6
45°	2643.0	2351.7	1753.6	1275.4	958.8	716.4	548.3	464.3	421.1	411.3	408.8
47.5°	2856.8	2484.7	1768.2	1266.4	916.4	631.6	483.1	417.8	380.3	371.3	368.8
50°	3078.7	2602.2	1787.0	1264.8	855.2	549.2	430.0	377.8	342.7	331.3	328.0
52.5°	3335.8	2735.2	1820.5	1269.7	767.8	491.2	393.3	337.8	302.7	289.7	286.4
55°	3679.3	2916.3	1861.3	1273.8	669.9	456.1	362.3	298.7	263.6	250.5	247.2
57.5°	4197.4	3176.6	1906.2	1257.4	599.8	435.7	330.5	262.7	233.4	222.8	221.9
60°	4879.6	3523.4	1968.2	1228.9	564.7	421.1	303.5	239.1	217.9	207.3	205.6
62.5°	5407.6	3855.5	2055.5	1191.3	559.8	410.4	288.0	230.9	209.7	196.7	195.8
65°	5658.9	4105.2	2154.2	1153.8	577.7	409.6	288.0	231.7	207.3	192.6	190.1
67.5°	5636.9	4148.5	2121.6	1080.4	576.1	412.9	297.8	235.0	209.7	191.8	189.3
70°	5237.0	3909.4	1906.2	907.4	518.2	385.1	294.6	236.6	211.3	189.3	185.2
72.5°	4311.7	3351.3	1552.0	662.6	429.2	328.8	270.9	230.9	204.8	182.8	178.7
75°	2770.3	2376.2	1110.6	447.2	335.4	273.4	238.3	214.6	187.7	168.9	166.5
77.5°	1216.6	1057.5	587.5	319.9	265.2	219.5	196.7	182.8	165.6	142.0	135.5
80°	329.7	277.4	245.6	261.9	205.6	173.0	157.5	150.1	138.7	107.7	100.4
82.5°	132.2	128.1	156.7	201.5	146.9	121.6	120.0	115.1	111.8	78.3	71.0
85°	75.1	76.7	97.9	125.7	86.5	73.4	77.5	81.6	83.2	53.9	49.8
87.5°	38.4	40.8	62.0	60.4	49.8	37.5	43.2	49.8	51.4	28.6	20.4
90°	4.9	7.3	24.5	26.1	20.4	14.7	19.6	22.8	26.1	13.9	2.4
92.5°	0.8	0.8	1.6	4.9	5.7	4.1	5.7	8.2	9.8	4.9	0.0
95°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.4	3.3	0.8	0.0
97.5°	0.8	0.8	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
100°	0.8	0.8	1.6	1.6	1.6	0.8	0.0	0.0	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226203

CATALOG NUMBER: MLA-B3-LED-XX-T2-8030-XX

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
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)