

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P895353

Luminaire Tested: 8TMB-SC3-ASML-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ASML-UNV-CC83-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

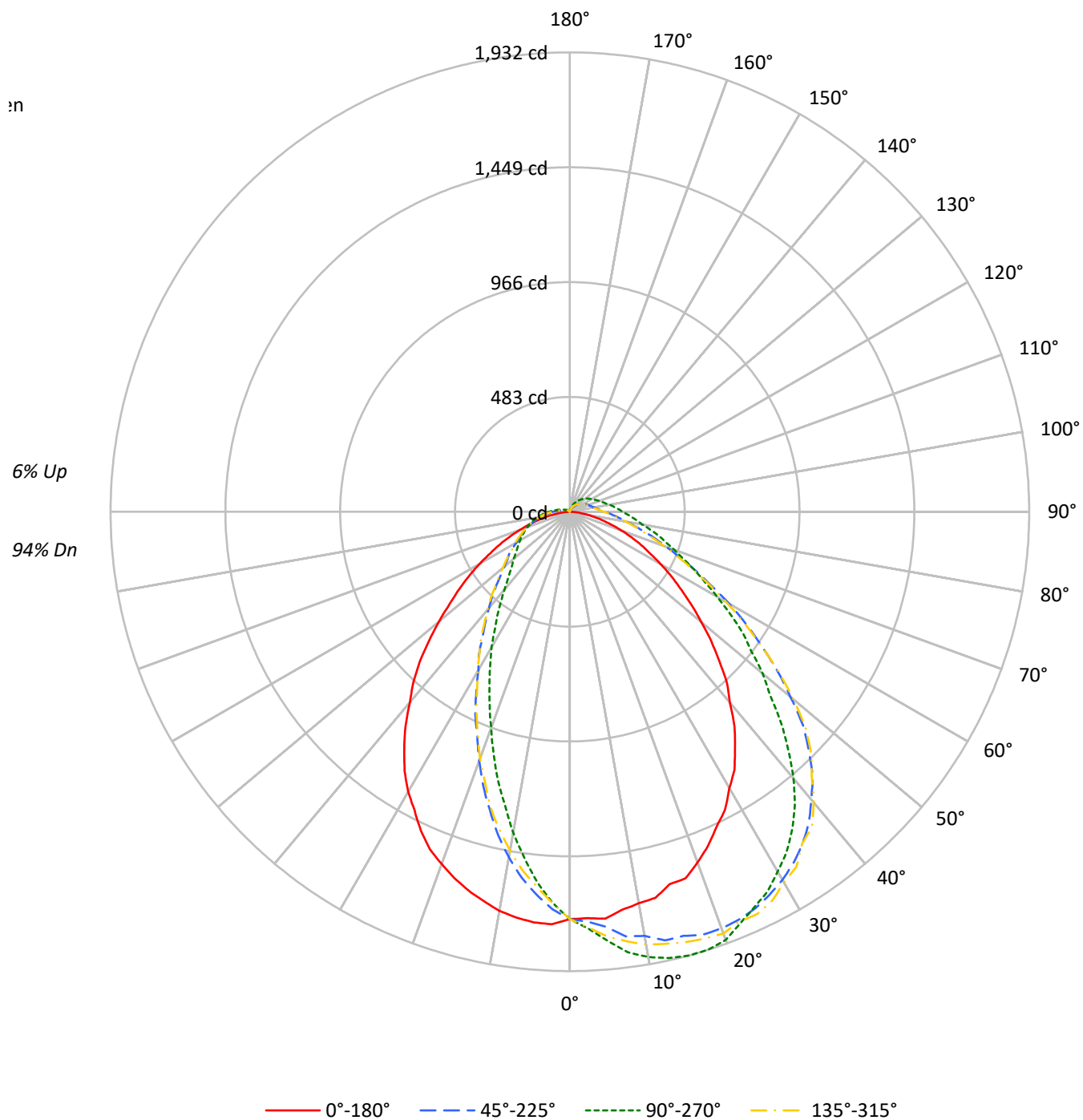
Lumens per Lamp: N/A
Luminaire Lumens: 4269.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-LOW-4000K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97
1	107	103	98	94	104	100	96	92	95	91	88	90	87	85	85	83	81
2	98	90	83	78	95	88	82	76	83	78	74	79	75	71	75	72	69
3	90	80	72	65	87	78	70	64	74	68	63	70	65	61	67	63	59
4	83	71	63	56	80	69	61	55	66	59	54	63	57	53	60	55	51
5	76	64	55	49	74	62	54	48	60	53	47	57	51	46	55	49	45
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	44	40
7	66	53	44	38	64	51	43	38	49	42	37	48	41	36	46	40	36
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32
9	57	44	36	31	56	43	36	31	42	35	30	40	34	30	39	33	29
10	54	41	33	28	52	40	33	28	39	32	28	38	31	27	36	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8699	8699	8699	8699
5°	8743	8865	8825	7662
10°	8598	9053	8765	6530
15°	8489	9021	8633	5460
20°	8436	8843	8472	4467
25°	8128	8433	8240	3675
30°	7800	8059	7901	3036
35°	7429	7605	7450	2474
40°	6852	6957	6848	2029
45°	6282	6141	6314	1728
50°	5603	5360	5577	1562
55°	4955	4696	4920	1435
60°	4365	4005	4326	1356
65°	3847	3448	3755	1288
70°	3297	3022	3186	1231
75°	2723	2747	2651	1186
80°	2154	2472	1958	1104
85°	1582	2387	1275	1035

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 8710 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	3.8
10°-20°	447.3	10.5
20°-30°	643.4	15.1
30°-40°	730.1	17.1
40°-50°	697.8	16.3
50°-60°	567.0	13.3
60°-70°	395.6	9.3
70°-80°	245.1	5.7
80°-90°	140.6	3.3
90°-100°	84.0	2.0
100°-110°	55.2	1.3
110°-120°	38.7	0.9
120°-130°	28.0	0.7
130°-140°	18.6	0.4
140°-150°	10.5	0.2
150°-160°	4.7	0.1
160°-170°	1.3	0.0
170°-180°	0.1	0.0
0°-30°	1251.6	29.3
0°-40°	1981.8	46.4
0°-60°	3246.6	76.1
0°-90°	4027.9	94.4
90°-120°	177.9	4.2
90°-150°	235.0	5.5
90°-180°	241.0	5.6
0°-180°	4269.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1713	1713	1713	1713	1713	
5°	1717	1810	1734	1565	1717	162
15°	1621	1932	1649	1169	1621	461
25°	1461	1835	1481	800	1461	674
35°	1211	1631	1215	531	1211	755
45°	888	1257	893	354	888	686
55°	572	887	568	271	572	515
65°	331	576	323	215	331	328
75°	147	386	143	167	147	159
85°	32	261	26	113	32	36
90°	1	221	0	87	1	2
95°	2	192	0	66	2	1
105°	1	148	0	36	1	1
115°	1	118	0	20	1	1
125°	1	96	0	13	1	1
135°	1	76	0	10	1	1
145°	1	54	0	7	1	1
155°	2	34	0	4	2	1
165°	2	16	0	2	2	0
175°	2	1	0	0	2	0
180°	1	1	1	1	1	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8
2.5°	1711.1	1724.0	1725.1	1765.5	1753.7	1768.9	1749.8	1753.2	1736.4	1731.9	1673.5
5°	1717.3	1744.8	1752.1	1821.6	1810.4	1818.2	1791.9	1772.8	1733.5	1710.0	1615.8
7.5°	1688.1	1760.5	1800.8	1850.2	1868.7	1874.9	1821.6	1786.3	1721.2	1663.4	1553.0
10°	1671.9	1771.7	1810.9	1885.0	1901.2	1889.5	1848.0	1789.6	1704.4	1611.3	1475.6
12.5°	1662.9	1777.9	1846.3	1922.0	1922.5	1910.2	1861.4	1798.6	1676.9	1555.2	1393.7
15°	1621.4	1776.7	1846.8	1923.7	1932.1	1924.2	1874.3	1792.4	1648.9	1485.7	1299.5
17.5°	1616.9	1773.9	1864.8	1945.5	1931.5	1925.9	1882.2	1789.6	1615.2	1415.0	1210.8
20°	1569.8	1767.8	1864.8	1920.9	1916.4	1918.6	1887.2	1785.7	1576.5	1338.7	1113.8
22.5°	1519.9	1760.5	1856.9	1899.6	1872.6	1913.6	1864.8	1775.0	1537.3	1259.1	1017.4
25°	1461.0	1748.7	1841.8	1869.3	1835.1	1867.0	1866.5	1758.8	1481.2	1173.3	941.1
27.5°	1413.3	1730.2	1817.1	1858.6	1800.3	1827.8	1843.5	1739.2	1415.0	1088.6	851.4
30°	1342.1	1706.6	1787.4	1793.6	1747.6	1782.3	1800.3	1714.5	1359.5	992.7	769.5
32.5°	1287.7	1679.7	1750.9	1742.5	1696.5	1742.5	1771.7	1689.8	1293.3	908.6	711.7
35°	1211.4	1647.2	1705.5	1661.2	1630.9	1669.0	1703.3	1663.4	1214.8	818.8	637.7
37.5°	1137.4	1618.6	1651.1	1596.1	1554.6	1597.3	1672.4	1614.1	1135.7	747.6	582.7
40°	1047.1	1553.0	1579.9	1505.3	1463.8	1526.6	1595.6	1571.5	1046.5	673.6	529.4
42.5°	978.7	1504.2	1512.0	1409.9	1360.6	1427.3	1505.8	1510.9	974.2	606.8	482.3
45°	888.4	1435.7	1421.2	1309.0	1257.4	1317.4	1435.2	1448.6	892.9	549.1	436.3
47.5°	807.0	1359.5	1330.9	1199.6	1141.9	1213.1	1343.8	1379.1	802.0	495.8	393.1
50°	722.4	1274.2	1210.8	1097.6	1058.9	1094.2	1227.7	1286.0	719.0	443.1	360.1
52.5°	645.0	1180.0	1101.5	1000.0	961.3	990.4	1106.0	1193.5	636.5	398.8	330.9
55°	572.1	1085.8	984.3	894.5	886.7	895.7	982.6	1083.0	568.1	359.5	312.4
57.5°	507.0	971.4	878.8	812.7	798.6	805.9	865.9	969.1	501.9	320.2	285.5
60°	441.4	854.2	774.5	723.5	715.6	721.2	759.9	858.1	437.5	287.1	260.2
62.5°	381.9	736.4	665.7	646.6	641.0	641.0	657.3	747.0	376.9	253.5	241.2
65°	330.9	635.4	582.1	574.9	576.5	576.0	565.9	623.7	323.0	223.8	224.3
67.5°	279.3	528.3	498.6	507.6	514.3	511.5	490.2	518.8	272.6	196.9	209.2
70°	231.6	436.3	430.7	450.9	466.6	452.0	421.2	424.0	223.8	170.5	189.6
72.5°	186.8	352.8	378.6	406.6	421.7	405.5	362.9	350.5	180.0	146.4	171.6
75°	146.9	283.8	324.7	366.2	385.9	365.1	315.8	273.7	143.0	123.4	157.0
77.5°	112.2	224.9	277.6	325.8	344.9	327.0	274.8	213.7	104.9	103.8	141.3
80°	80.2	177.8	246.2	292.8	310.1	292.8	238.4	168.8	72.9	83.0	124.5
82.5°	52.7	137.4	214.2	266.4	285.5	264.2	206.9	130.1	46.5	67.3	112.2
85°	32.0	108.8	186.8	239.5	261.3	240.6	181.2	98.7	25.8	51.6	97.6
87.5°	14.0	84.1	166.6	221.0	240.6	221.5	161.5	77.4	10.7	40.4	83.6
90°	1.1	66.7	146.9	203.6	221.0	203.0	143.0	62.8	0.0	29.2	71.8
92.5°	1.1	57.2	134.6	188.4	208.1	187.9	129.0	51.6	0.0	21.3	60.6
95°	1.7	48.2	122.3	176.7	192.4	175.0	117.8	44.3	0.0	14.6	51.0
97.5°	1.7	43.7	112.2	164.9	182.3	163.8	107.7	39.8	0.0	10.7	41.5
100°	1.1	40.4	104.3	153.7	169.9	152.5	99.8	35.9	0.0	6.7	33.7
102.5°	1.1	37.6	97.6	144.1	157.0	142.5	93.1	33.7	0.0	5.6	27.5
105°	1.1	35.9	91.4	132.9	148.1	132.9	87.5	31.4	0.0	4.5	21.3
107.5°	1.1	33.7	86.9	126.7	139.1	125.6	83.0	29.7	0.0	4.5	17.4
110°	1.1	32.0	83.0	117.8	131.8	118.9	79.1	26.9	0.0	2.8	14.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1.1	29.2	79.1	111.6	125.1	112.2	75.7	24.7	0.0	2.8	12.3
115°	1.1	26.4	75.7	107.7	117.8	106.6	72.3	21.9	0.0	2.2	11.2
117.5°	1.1	24.7	73.5	102.6	112.7	101.5	69.5	20.8	0.0	2.2	10.7
120°	1.1	23.6	70.1	97.6	105.4	96.5	66.2	19.6	0.0	2.2	10.1
122.5°	1.1	22.4	67.3	93.1	101.5	92.5	63.4	19.1	0.0	1.7	9.0
125°	1.1	21.3	63.4	88.1	95.9	86.9	58.3	18.5	0.0	1.1	7.9
127.5°	1.1	20.2	59.4	84.1	91.4	83.0	55.0	17.9	0.0	1.1	7.3
130°	1.1	19.6	54.4	79.1	86.4	78.0	51.0	17.9	0.0	1.1	6.7
132.5°	1.1	19.1	48.8	74.0	81.9	72.9	47.1	17.4	0.0	1.1	5.6
135°	1.1	18.5	43.2	69.0	76.3	67.9	43.7	16.8	0.0	1.1	5.0
137.5°	1.1	17.4	38.1	63.4	70.7	62.3	41.5	15.7	0.0	1.1	4.5
140°	1.1	16.3	34.2	58.9	65.1	57.2	38.1	14.6	0.0	0.6	3.4
142.5°	1.1	14.6	30.8	53.3	59.4	52.2	34.2	12.3	0.0	0.6	3.4
145°	1.1	12.9	28.0	46.5	53.8	46.5	32.0	11.2	0.0	0.6	2.8
147.5°	1.1	11.8	25.2	39.3	48.8	42.6	28.6	9.5	0.0	0.6	2.2
150°	1.1	10.7	21.9	33.1	43.2	37.6	26.4	8.4	0.0	0.0	1.7
152.5°	1.1	9.5	19.1	27.5	38.7	34.2	23.6	7.3	0.0	0.0	1.1
155°	1.7	9.0	16.3	24.1	33.7	29.7	19.6	6.2	0.0	0.0	1.1
157.5°	1.7	7.9	13.5	19.6	29.7	25.8	15.7	5.0	0.0	0.0	0.6
160°	1.7	7.3	11.2	15.1	24.7	21.3	12.9	3.9	0.0	0.0	0.6
162.5°	1.7	6.7	9.5	11.2	20.2	16.8	10.1	2.8	0.0	0.0	0.6
165°	1.7	5.6	8.4	7.9	15.7	12.9	7.9	1.7	0.0	0.0	0.0
167.5°	1.7	5.0	6.7	5.6	11.8	9.5	5.6	1.1	0.0	0.0	0.0
170°	1.7	3.9	5.6	3.9	3.4	6.2	3.4	0.6	0.0	0.0	0.0
172.5°	1.7	3.4	4.5	2.8	1.1	3.4	1.7	0.0	0.0	0.0	0.0
175°	1.7	2.8	2.8	1.7	0.6	1.1	0.0	0.0	0.0	0.0	0.0
177.5°	1.7	2.2	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

TEST NUMBER: P895353

CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-LOW-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1712.8	1712.8	1712.8	1712.8	1712.8	1712.8
2.5°	1665.7	1647.2	1630.4	1648.3	1661.2	1711.1
5°	1584.4	1564.7	1567.0	1583.2	1626.4	1717.3
7.5°	1500.2	1467.7	1475.6	1521.0	1584.9	1688.1
10°	1401.0	1371.2	1378.5	1447.0	1536.7	1671.9
12.5°	1312.4	1262.4	1305.1	1369.6	1480.6	1662.9
15°	1208.6	1169.3	1192.3	1287.7	1426.8	1621.4
17.5°	1096.4	1066.2	1093.6	1188.4	1360.6	1616.9
20°	1010.1	968.0	1000.5	1104.8	1278.7	1569.8
22.5°	913.0	881.1	915.3	1011.2	1195.1	1519.9
25°	833.4	799.8	834.0	929.3	1121.1	1461.0
27.5°	756.0	725.2	756.0	843.5	1047.6	1413.3
30°	688.1	658.4	689.8	774.0	961.8	1342.1
32.5°	624.8	586.6	627.0	708.3	886.1	1287.7
35°	559.2	530.6	560.8	651.1	802.0	1211.4
37.5°	504.8	475.0	510.9	588.3	730.8	1137.4
40°	453.2	426.8	455.4	537.8	670.2	1047.1
42.5°	412.8	386.4	415.6	491.9	609.1	978.7
45°	373.5	353.9	377.4	441.4	547.4	888.4
47.5°	344.9	328.1	347.7	404.4	495.8	807.0
50°	320.2	308.5	322.5	367.3	442.5	722.4
52.5°	298.4	286.6	302.9	338.7	400.4	645.0
55°	281.5	270.9	283.2	311.8	358.4	572.1
57.5°	263.0	256.3	265.8	283.2	325.3	507.0
60°	249.6	242.3	252.4	266.4	287.7	441.4
62.5°	234.4	230.5	236.7	247.9	259.1	381.9
65°	221.0	215.4	223.2	227.1	226.0	330.9
67.5°	206.4	204.7	209.2	209.8	201.3	279.3
70°	191.2	190.1	195.7	192.4	175.0	231.6
72.5°	178.9	178.9	182.3	175.5	152.5	186.8
75°	165.4	166.6	169.4	161.5	128.4	146.9
77.5°	153.1	154.2	154.8	144.1	107.7	112.2
80°	139.1	138.5	144.1	130.7	87.5	80.2
82.5°	126.7	124.5	127.9	114.4	70.7	52.7
85°	112.7	113.3	115.5	99.8	56.6	32.0
87.5°	101.5	101.5	103.8	88.1	42.6	14.0
90°	88.1	86.9	90.3	74.6	32.0	1.1
92.5°	76.8	76.8	79.1	63.9	23.6	1.1
95°	65.6	66.2	67.9	52.7	17.9	1.7
97.5°	56.1	56.6	58.9	44.9	12.9	1.7
100°	47.7	48.2	49.4	35.9	10.1	1.1
102.5°	39.8	41.5	41.5	29.7	7.9	1.1
105°	33.7	35.9	34.8	24.1	7.3	1.1
107.5°	28.0	30.3	30.3	19.6	7.3	1.1
110°	23.0	26.4	25.8	16.8	5.6	1.1



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CATALOG NUMBER: 8TMB-SC3-ASML-UNV-CC83-LOW-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	19.6	22.4	20.8	14.6	5.6	1.1
115°	16.8	19.6	18.5	13.5	5.0	1.1
117.5°	15.1	16.8	16.8	12.9	5.0	1.1
120°	14.0	15.7	15.1	12.3	5.0	1.1
122.5°	12.9	14.0	14.0	11.2	4.5	1.1
125°	12.3	12.9	13.5	10.1	4.5	1.1
127.5°	11.8	12.9	12.9	9.5	3.9	1.1
130°	10.7	11.8	11.8	9.0	3.9	1.1
132.5°	9.5	10.7	10.7	8.4	3.9	1.1
135°	9.0	10.1	10.1	7.9	3.9	1.1
137.5°	8.4	9.0	9.0	7.3	3.9	1.1
140°	7.3	8.4	8.4	6.7	3.9	1.1
142.5°	6.7	7.9	7.9	6.2	3.4	1.1
145°	6.2	6.7	7.3	5.6	3.4	1.1
147.5°	5.0	6.2	6.7	5.0	3.4	1.1
150°	3.9	5.6	5.6	5.0	3.4	1.1
152.5°	2.8	5.0	5.0	4.5	2.8	1.1
155°	2.2	3.9	4.5	3.9	2.8	1.7
157.5°	1.7	3.4	3.9	3.9	2.8	1.7
160°	1.1	2.8	3.4	3.4	2.2	1.7
162.5°	0.6	2.2	2.8	3.4	2.2	1.7
165°	0.0	1.7	2.2	2.8	2.2	1.7
167.5°	0.0	1.1	1.7	2.2	1.7	1.7
170°	0.0	0.6	1.1	1.7	1.7	1.7
172.5°	0.0	0.0	0.6	1.1	1.1	1.7
175°	0.0	0.0	0.0	0.6	1.1	1.7
177.5°	0.0	0.0	0.0	0.6	1.1	1.7
180°	0.6	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)