

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P893777

Luminaire Tested: 4MB-6SL-RND-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-RND-UNV-L830
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

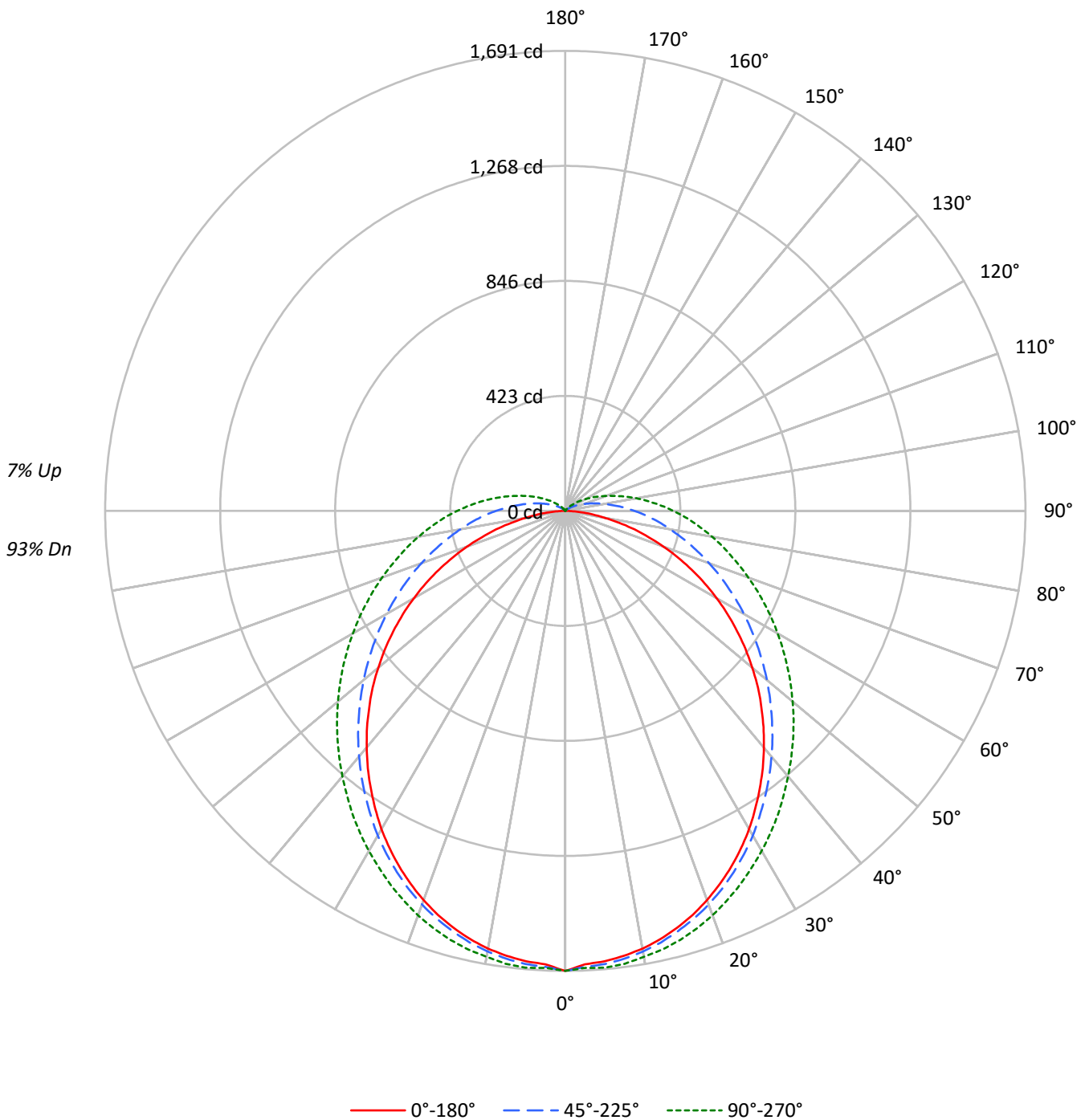
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5596.9 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	43
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24	24	24	24	23
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12029	12029	12029
5°	11867	11943	12037
10°	11804	11880	12023
15°	11684	11781	12025
20°	11529	11660	11980
25°	11331	11497	11912
30°	11097	11325	11858
35°	10824	11123	11835
40°	10543	10948	11833
45°	10250	10796	11914
50°	9928	10705	12066
55°	9568	10683	12357
60°	9148	10786	12820
65°	8642	11069	13586
70°	8009	11695	14889
75°	7238	13019	17275
80°	6126	16045	22441
85°	4972	26132	38450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 70776 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	2.9
10°-20°	455.6	8.1
20°-30°	682.2	12.2
30°-40°	813.4	14.5
40°-50°	843.6	15.1
50°-60°	782.6	14.0
60°-70°	652.9	11.7
70°-80°	486.8	8.7
80°-90°	324.1	5.8
90°-100°	197.3	3.5
100°-110°	110.2	2.0
110°-120°	55.0	1.0
120°-130°	23.0	0.4
130°-140°	7.2	0.1
140°-150°	1.8	0.0
150°-160°	0.8	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1297.6	23.2
0°-40°	2111.0	37.7
0°-60°	3737.1	66.8
0°-90°	5200.9	92.9
90°-120°	362.5	6.5
90°-150°	394.5	7.0
90°-180°	396.0	7.1
0°-180°	5596.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1662	1700	1672	1681	1685	158
15°	1586	1627	1599	1628	1632	447
25°	1443	1482	1464	1506	1517	664
35°	1246	1279	1281	1344	1363	780
45°	1019	1045	1073	1158	1184	786
55°	771	798	861	962	996	689
65°	513	554	658	769	807	508
75°	263	336	474	589	628	278
85°	61	167	320	430	471	68
90°	3	110	254	358	397	5
95°	0	68	196	294	328	0
105°	0	21	107	181	209	0
115°	1	5	50	102	122	1
125°	1	1	20	49	61	1
135°	1	1	5	17	22	1
145°	1	1	1	4	5	1
155°	3	3	1	1	1	1
165°	3	3	1	1	1	1
175°	3	3	3	1	0	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7
2.5°	1668.2	1670.9	1694.7	1693.4	1689.4	1705.3	1709.2	1696.0	1674.8	1696.0	1677.5
5°	1661.6	1664.2	1688.1	1686.7	1682.8	1700.0	1701.3	1689.4	1668.2	1689.4	1672.2
7.5°	1649.7	1652.3	1676.2	1674.8	1672.2	1689.4	1688.1	1678.8	1656.3	1678.8	1660.3
10°	1633.8	1635.1	1660.3	1657.6	1656.3	1673.5	1669.5	1661.6	1639.1	1661.6	1644.4
12.5°	1612.7	1614.0	1639.1	1636.5	1636.5	1652.3	1647.1	1640.4	1617.9	1639.1	1624.6
15°	1586.2	1587.5	1611.3	1610.0	1610.0	1627.2	1619.3	1614.0	1592.8	1615.3	1599.4
17.5°	1557.1	1555.8	1580.9	1578.3	1580.9	1596.8	1586.2	1583.5	1563.7	1584.9	1571.6
20°	1522.7	1522.7	1545.2	1543.9	1547.8	1562.4	1549.2	1550.5	1530.6	1553.1	1539.9
22.5°	1484.3	1483.0	1505.5	1505.5	1509.5	1524.0	1509.5	1513.4	1493.6	1514.8	1504.2
25°	1443.3	1440.7	1463.2	1463.2	1469.8	1481.7	1465.8	1471.1	1452.6	1473.7	1464.5
27.5°	1398.3	1394.4	1416.9	1418.2	1423.5	1435.4	1418.2	1426.1	1408.9	1428.8	1422.2
30°	1350.7	1346.7	1369.2	1370.6	1377.2	1386.4	1369.2	1379.8	1363.9	1383.8	1378.5
32.5°	1299.1	1296.5	1317.6	1320.3	1326.9	1333.5	1317.6	1328.2	1315.0	1334.8	1329.5
35°	1246.2	1243.6	1263.4	1267.4	1274.0	1279.3	1262.1	1276.6	1264.7	1283.2	1280.6
37.5°	1192.0	1188.0	1209.2	1211.8	1219.7	1222.4	1206.5	1223.7	1213.1	1231.6	1230.3
40°	1135.1	1131.1	1152.3	1154.9	1162.9	1162.9	1149.6	1168.1	1160.2	1177.4	1178.7
42.5°	1078.2	1074.2	1092.7	1098.0	1104.6	1104.6	1091.4	1111.3	1106.0	1123.2	1127.1
45°	1018.7	1014.7	1031.9	1037.2	1045.1	1045.1	1031.9	1054.4	1050.4	1067.6	1072.9
47.5°	960.4	955.2	971.0	976.3	984.3	982.9	972.4	994.8	993.5	1010.7	1020.0
50°	896.9	893.0	908.9	914.1	923.4	920.8	912.8	936.6	936.6	953.8	967.1
52.5°	834.8	830.8	846.7	852.0	859.9	859.9	852.0	877.1	881.1	898.3	914.1
55°	771.3	766.0	781.9	787.1	796.4	797.7	791.1	816.2	824.2	844.0	861.2
57.5°	707.8	705.1	718.4	723.6	735.6	735.6	731.6	758.0	768.6	789.8	809.6
60°	642.9	640.3	652.2	658.8	672.0	674.7	672.0	699.8	714.4	735.6	758.0
62.5°	578.1	575.5	587.4	596.6	611.2	613.8	615.2	644.3	660.1	682.6	707.8
65°	513.3	510.7	522.6	533.1	550.3	554.3	558.3	588.7	607.2	631.0	657.5
67.5°	448.5	447.2	459.1	472.3	490.8	496.1	502.7	534.5	555.6	580.8	609.9
70°	385.0	383.7	395.6	411.4	433.9	440.5	448.5	480.2	506.7	533.1	562.2
72.5°	321.5	322.8	336.0	354.5	379.7	386.3	396.9	430.0	459.1	486.8	517.3
75°	263.3	263.3	277.8	299.0	326.8	336.0	347.9	382.3	412.8	441.9	473.6
77.5°	203.7	203.7	220.9	247.4	277.8	287.1	301.6	337.3	370.4	399.5	431.3
80°	149.5	152.1	172.0	198.4	230.2	242.1	259.3	295.0	330.7	359.8	391.6
82.5°	101.9	105.8	127.0	157.4	189.2	201.1	218.3	256.6	292.4	322.8	355.9
85°	60.9	67.5	90.0	120.4	153.5	166.7	185.2	220.9	256.6	287.1	320.1
87.5°	27.8	37.0	60.9	91.3	123.0	137.6	153.5	187.9	223.6	254.0	288.4
90°	2.6	15.9	39.7	66.1	96.6	109.8	125.7	158.8	193.1	220.9	254.0
92.5°	0.0	6.6	23.8	47.6	74.1	87.3	101.9	133.6	164.0	191.8	223.6
95°	0.0	2.6	13.2	33.1	55.6	67.5	80.7	109.8	140.2	166.7	195.8
97.5°	0.0	1.3	7.9	22.5	41.0	51.6	63.5	90.0	117.7	142.9	169.3
100°	0.0	1.3	4.0	14.6	30.4	38.4	50.3	72.8	97.9	120.4	146.8
102.5°	0.0	0.0	2.6	9.3	22.5	29.1	38.4	58.2	80.7	101.9	125.7
105°	0.0	0.0	1.3	6.6	15.9	21.2	29.1	46.3	66.1	84.7	107.2
107.5°	0.0	0.0	1.3	4.0	10.6	15.9	22.5	35.7	52.9	70.1	90.0
110°	1.3	1.3	1.3	2.6	7.9	11.9	15.9	27.8	43.7	58.2	75.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.3	1.3	1.3	1.3	5.3	7.9	11.9	21.2	34.4	46.3	62.2
115°	1.3	1.3	1.3	1.3	4.0	5.3	7.9	15.9	26.5	37.0	50.3
117.5°	1.3	1.3	1.3	1.3	2.6	4.0	5.3	11.9	19.8	29.1	41.0
120°	1.3	1.3	1.3	1.3	1.3	2.6	4.0	7.9	15.9	22.5	33.1
122.5°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	6.6	11.9	17.2	25.1
125°	1.3	1.3	1.3	1.3	1.3	1.3	2.6	4.0	7.9	13.2	19.8
127.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.6	4.0	5.3	9.3	14.6
130°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	4.0	6.6	10.6
132.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	4.0	5.3	7.9
135°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	4.0	5.3
137.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	4.0
140°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
142.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
145°	1.3	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
147.5°	1.3	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
150°	1.3	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
152.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
155°	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
157.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3
160°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3
162.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3
165°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3
167.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3
170°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
172.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3
175°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
177.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
180°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7	1690.7
2.5°	1682.8	1686.7	1690.7	1680.1	1686.7	1698.6	1702.6	1686.7	1692.0	1681.4
5°	1677.5	1680.1	1685.4	1672.2	1681.4	1692.0	1698.6	1685.4	1693.4	1685.4
7.5°	1666.9	1669.5	1676.2	1662.9	1674.8	1684.1	1692.0	1678.8	1686.7	1678.8
10°	1651.0	1655.0	1664.2	1648.4	1662.9	1670.9	1678.8	1664.2	1672.2	1664.2
12.5°	1631.2	1637.8	1645.7	1631.2	1645.7	1652.3	1662.9	1648.4	1657.6	1651.0
15°	1607.4	1614.0	1624.6	1610.0	1628.5	1633.8	1644.4	1629.9	1639.1	1632.5
17.5°	1579.6	1587.5	1600.7	1583.5	1604.7	1608.7	1619.3	1606.0	1615.3	1608.7
20°	1547.8	1555.8	1569.0	1553.1	1574.3	1576.9	1588.8	1576.9	1586.2	1582.2
22.5°	1510.8	1520.0	1533.3	1518.7	1541.2	1541.2	1555.8	1543.9	1554.4	1550.5
25°	1472.4	1483.0	1497.6	1481.7	1505.5	1505.5	1521.4	1509.5	1520.0	1517.4
27.5°	1431.4	1443.3	1460.5	1444.6	1468.5	1467.1	1483.0	1472.4	1484.3	1480.4
30°	1387.8	1401.0	1418.2	1405.0	1430.1	1427.4	1443.3	1434.1	1444.6	1443.3
32.5°	1340.1	1354.7	1375.8	1361.3	1386.4	1383.8	1403.6	1393.0	1406.3	1403.6
35°	1292.5	1308.4	1329.5	1316.3	1344.1	1340.1	1360.0	1350.7	1363.9	1362.6
37.5°	1243.6	1260.8	1281.9	1271.3	1297.8	1293.8	1315.0	1307.1	1321.6	1317.6
40°	1193.3	1210.5	1233.0	1223.7	1251.5	1246.2	1268.7	1262.1	1276.6	1274.0
42.5°	1143.0	1161.5	1184.0	1178.7	1205.2	1199.9	1222.4	1217.1	1231.6	1229.0
45°	1091.4	1111.3	1135.1	1129.8	1157.6	1152.3	1174.8	1170.8	1185.3	1184.0
47.5°	1039.8	1061.0	1084.8	1082.2	1108.6	1103.3	1127.1	1123.2	1137.7	1137.7
50°	986.9	1010.7	1034.5	1033.2	1059.7	1054.4	1075.5	1075.5	1091.4	1090.1
52.5°	934.0	959.1	984.3	984.3	1010.7	1005.4	1029.2	1027.9	1043.8	1043.8
55°	883.7	906.2	931.3	936.6	961.8	953.8	979.0	981.6	994.8	996.2
57.5°	833.4	857.3	882.4	889.0	912.8	907.5	931.3	934.0	947.2	948.5
60°	783.2	805.7	830.8	840.1	863.9	858.6	882.4	885.0	899.6	900.9
62.5°	732.9	755.4	783.2	792.4	814.9	811.0	836.1	838.7	852.0	854.6
65°	684.0	707.8	734.2	747.5	768.6	763.3	788.5	791.1	805.7	807.0
67.5°	636.3	660.1	686.6	701.2	721.0	718.4	742.2	747.5	759.4	762.0
70°	590.0	613.8	641.6	656.2	676.0	674.7	697.2	701.2	714.4	715.7
72.5°	545.0	568.9	596.6	613.8	631.0	629.7	652.2	657.5	670.7	672.0
75°	501.4	526.5	553.0	571.5	588.7	587.4	609.9	615.2	627.1	628.4
77.5°	460.4	485.5	513.3	531.8	546.4	547.7	567.5	572.8	584.7	588.7
80°	422.0	445.8	472.3	492.1	505.4	508.0	526.5	533.1	542.4	547.7
82.5°	385.0	408.8	435.2	453.8	467.0	469.6	486.8	494.8	504.0	508.0
85°	349.3	373.1	398.2	418.0	430.0	431.3	448.5	456.4	464.3	471.0
87.5°	314.9	338.7	362.5	383.7	394.2	396.9	412.8	420.7	427.3	433.9
90°	280.5	304.3	328.1	347.9	358.5	359.8	377.0	385.0	391.6	396.9
92.5°	248.7	272.5	296.3	316.2	325.4	328.1	342.6	351.9	357.2	362.5
95°	218.3	242.1	263.3	284.4	293.7	297.7	310.9	318.8	325.4	328.1
97.5°	191.8	213.0	232.8	254.0	261.9	265.9	279.1	288.4	293.7	296.3
100°	166.7	186.5	205.1	224.9	232.8	236.8	248.7	256.6	261.9	265.9
102.5°	144.2	162.7	179.9	198.4	206.4	209.0	219.6	227.5	232.8	236.8
105°	124.4	141.6	157.4	174.6	181.2	185.2	194.5	201.1	206.4	209.0
107.5°	105.8	123.0	136.3	152.1	158.8	161.4	170.7	178.6	182.6	183.9
110°	90.0	104.5	117.7	131.0	138.9	141.6	149.5	156.1	160.1	161.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	75.4	88.6	100.5	112.4	119.1	121.7	129.6	136.3	138.9	140.2
115°	62.2	75.4	84.7	96.6	101.9	104.5	111.1	117.7	119.1	121.7
117.5°	50.3	62.2	71.4	80.7	86.0	88.6	93.9	99.2	101.9	103.2
120°	41.0	50.3	58.2	67.5	71.4	74.1	79.4	84.7	86.0	87.3
122.5°	33.1	41.0	47.6	55.6	59.5	62.2	66.1	70.1	71.4	72.8
125°	25.1	33.1	38.4	45.0	48.9	50.3	54.2	58.2	59.5	60.9
127.5°	19.8	25.1	30.4	35.7	38.4	39.7	43.7	46.3	47.6	48.9
130°	14.6	18.5	22.5	27.8	30.4	31.8	34.4	37.0	38.4	38.4
132.5°	10.6	14.6	17.2	21.2	22.5	23.8	26.5	29.1	29.1	30.4
135°	6.6	9.3	11.9	14.6	17.2	17.2	19.8	21.2	22.5	22.5
137.5°	5.3	6.6	7.9	10.6	11.9	13.2	13.2	15.9	15.9	15.9
140°	4.0	5.3	5.3	6.6	7.9	9.3	9.3	10.6	10.6	10.6
142.5°	2.6	4.0	4.0	5.3	5.3	6.6	6.6	6.6	7.9	7.9
145°	2.6	2.6	2.6	4.0	4.0	4.0	4.0	5.3	5.3	5.3
147.5°	1.3	1.3	2.6	2.6	2.6	2.6	2.6	4.0	4.0	4.0
150°	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
152.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
157.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
160°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
162.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
165°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
167.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
170°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
172.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
175°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0
177.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0
180°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.93	20.47	19.40	20.92	21.41	20.50	22.04	20.97	22.49	22.98
	3H	20.61	22.01	21.09	22.48	23.00	23.13	24.53	23.61	25.00	25.52
	4H	21.20	22.53	21.71	23.02	23.56	24.44	25.77	24.94	26.25	26.79
	6H	21.60	22.84	22.12	23.34	23.90	25.84	27.08	26.36	27.58	28.14
	8H	21.72	22.91	22.25	23.43	23.99	26.59	27.78	27.12	28.30	28.86
	12H	21.80	22.94	22.33	23.45	24.04	27.44	28.58	27.98	29.10	29.69
4H	2H	19.86	21.19	20.36	21.67	22.21	21.05	22.38	21.56	22.87	23.41
	3H	21.84	22.97	22.35	23.50	24.06	23.97	25.10	24.49	25.63	26.20
	4H	22.61	23.65	23.15	24.19	24.79	25.49	26.53	26.03	27.07	27.67
	6H	23.19	24.11	23.75	24.68	25.29	27.14	28.06	27.69	28.62	29.23
	8H	23.37	24.24	23.94	24.81	25.43	28.02	28.88	28.58	29.45	30.07
	12H	23.50	24.29	24.08	24.88	25.51	29.02	29.81	29.60	30.40	31.03
8H	4H	23.49	24.36	24.05	24.92	25.54	25.85	26.72	26.42	27.28	27.91
	6H	24.37	25.11	24.97	25.71	26.34	27.76	28.49	28.35	29.10	29.73
	8H	24.72	25.39	25.33	26.00	26.64	28.84	29.50	29.44	30.12	30.76
	12H	24.99	25.59	25.60	26.19	26.90	30.10	30.70	30.71	31.30	32.01
12H	4H	23.77	24.56	24.35	25.15	25.78	25.90	26.68	26.48	27.28	27.90
	6H	24.82	25.49	25.43	26.10	26.74	27.86	28.53	28.47	29.15	29.79
	8H	25.34	25.94	25.95	26.54	27.25	29.06	29.66	29.67	30.26	30.97