

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: P893778

Luminaire Tested: 4MB-6SL-RND-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893778
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-L835
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

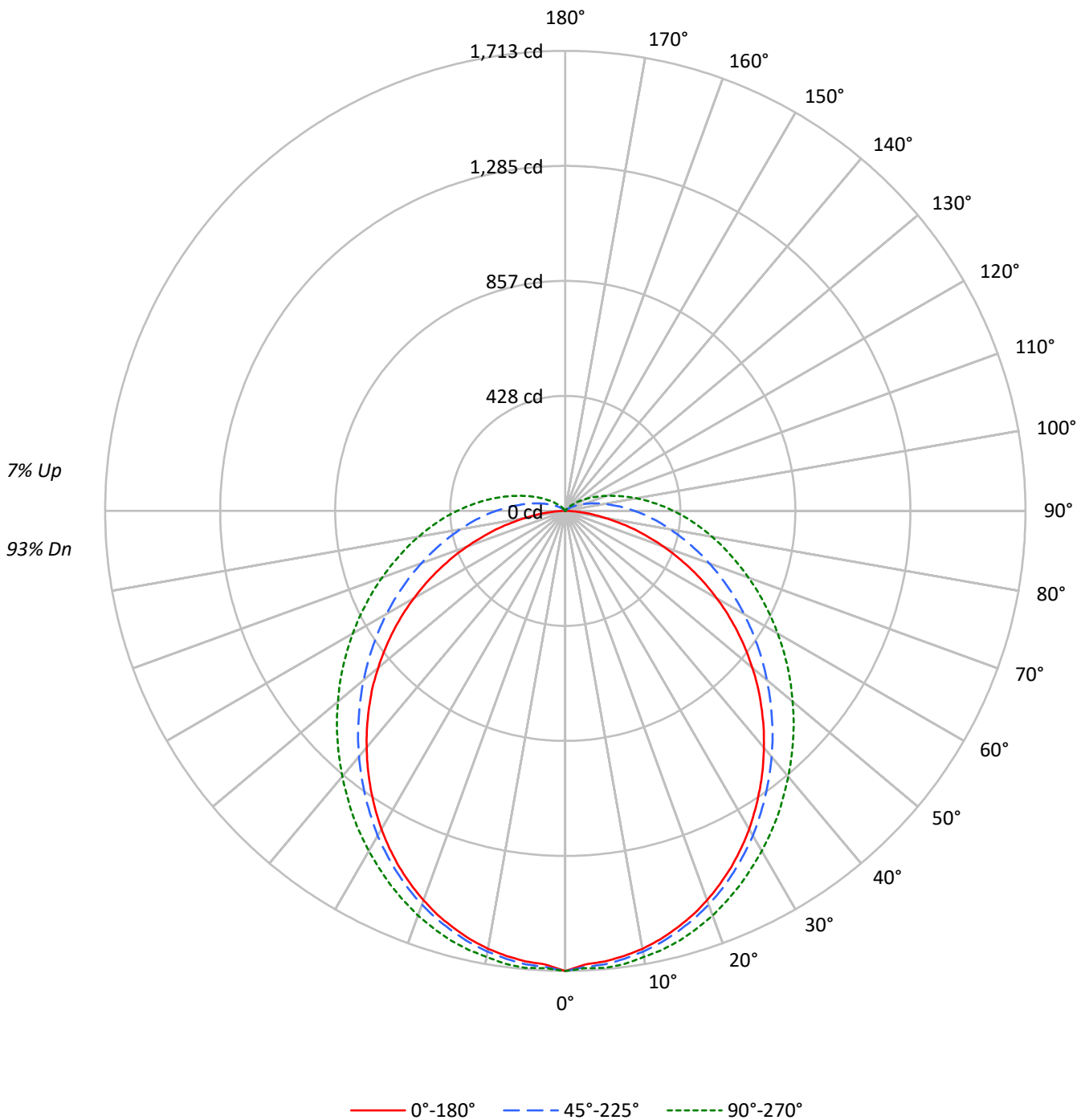
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5672.0 lumens
Efficiency: N/A
Efficacy: 127.7 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°	12191	12191	12191
5°	12027	12103	12199
10°	11962	12039	12185
15°	11841	11940	12186
20°	11684	11816	12140
25°	11483	11651	12072
30°	11246	11477	12017
35°	10969	11272	11994
40°	10684	11094	11992
45°	10387	10941	12074
50°	10062	10848	12228
55°	9695	10827	12522
60°	9272	10931	12992
65°	8758	11218	13768
70°	8115	11853	15088
75°	7334	13195	17506
80°	6208	16258	22740
85°	5037	26483	38965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 71722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	2.9
10°-20°	461.7	8.1
20°-30°	691.3	12.2
30°-40°	824.3	14.5
40°-50°	854.9	15.1
50°-60°	793.1	14.0
60°-70°	661.6	11.7
70°-80°	493.3	8.7
80°-90°	328.5	5.8
90°-100°	200.0	3.5
100°-110°	111.7	2.0
110°-120°	55.8	1.0
120°-130°	23.3	0.4
130°-140°	7.3	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°	1315.0	23.2
0°-40°	2139.3	37.7
0°-60°	3787.2	66.8
0°-90°	5270.6	92.9
90°-120°	367.4	6.5
90°-150°	399.8	7.0
90°-180°	401.0	7.1
0°-180°	5672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1684	1723	1695	1704	1708	160
15°	1608	1649	1621	1650	1654	453
25°	1463	1502	1484	1526	1538	673
35°	1263	1296	1298	1362	1381	790
45°	1032	1059	1087	1173	1200	797
55°	782	808	873	975	1010	699
65°	520	562	666	779	818	515
75°	267	340	480	597	637	282
85°	62	169	324	436	477	69
90°	3	111	257	363	402	5
95°	0	68	198	298	332	0
105°	0	22	109	184	212	0
115°	1	5	51	103	123	1
125°	1	1	20	50	62	1
135°	1	1	5	17	23	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°	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4
2.5°	1690.6	1693.3	1717.4	1716.0	1712.0	1728.1	1732.1	1718.7	1697.3	1718.7	1700.0
5°	1683.9	1686.5	1710.7	1709.3	1705.3	1722.7	1724.1	1712.0	1690.6	1712.0	1694.6
7.5°	1671.8	1674.5	1698.6	1697.3	1694.6	1712.0	1710.7	1701.3	1678.5	1701.3	1682.5
10°	1655.7	1657.1	1682.5	1679.8	1678.5	1695.9	1691.9	1683.9	1661.1	1683.9	1666.4
12.5°	1634.3	1635.6	1661.1	1658.4	1658.4	1674.5	1669.1	1662.4	1639.6	1661.1	1646.3
15°	1607.5	1608.8	1632.9	1631.6	1631.6	1649.0	1641.0	1635.6	1614.2	1636.9	1620.9
17.5°	1578.0	1576.6	1602.1	1599.4	1602.1	1618.2	1607.5	1604.8	1584.7	1606.1	1592.7
20°	1543.1	1543.1	1565.9	1564.5	1568.6	1583.3	1569.9	1571.3	1551.1	1573.9	1560.5
22.5°	1504.2	1502.9	1525.7	1525.7	1529.7	1544.4	1529.7	1533.7	1513.6	1535.1	1524.3
25°	1462.7	1460.0	1482.8	1482.8	1489.5	1501.5	1485.5	1490.8	1472.0	1493.5	1484.1
27.5°	1417.1	1413.1	1435.8	1437.2	1442.5	1454.6	1437.2	1445.2	1427.8	1447.9	1441.2
30°	1368.8	1364.8	1387.6	1388.9	1395.6	1405.0	1387.6	1398.3	1382.2	1402.3	1397.0
32.5°	1316.5	1313.8	1335.3	1338.0	1344.7	1351.4	1335.3	1346.0	1332.6	1352.7	1347.4
35°	1262.9	1260.2	1280.3	1284.4	1291.1	1296.4	1279.0	1293.7	1281.7	1300.4	1297.8
37.5°	1207.9	1203.9	1225.4	1228.0	1236.1	1238.8	1222.7	1240.1	1229.4	1248.2	1246.8
40°	1150.3	1146.3	1167.7	1170.4	1178.4	1178.4	1165.0	1183.8	1175.8	1193.2	1194.5
42.5°	1092.6	1088.6	1107.4	1112.7	1119.5	1119.5	1106.0	1126.2	1120.8	1138.2	1142.2
45°	1032.3	1028.3	1045.7	1051.1	1059.1	1059.1	1045.7	1068.5	1064.5	1081.9	1087.3
47.5°	973.3	968.0	984.0	989.4	997.5	996.1	985.4	1008.2	1006.8	1024.3	1033.6
50°	909.0	904.9	921.0	926.4	935.8	933.1	925.1	949.2	949.2	966.6	980.0
52.5°	846.0	841.9	858.0	863.4	871.4	871.4	863.4	888.9	892.9	910.3	926.4
55°	781.6	776.2	792.3	797.7	807.1	808.4	801.7	827.2	835.2	855.3	872.8
57.5°	717.3	714.6	728.0	733.3	745.4	745.4	741.4	768.2	778.9	800.4	820.5
60°	651.6	648.9	660.9	667.6	681.1	683.7	681.1	709.2	724.0	745.4	768.2
62.5°	585.9	583.2	595.3	604.6	619.4	622.1	623.4	652.9	669.0	691.8	717.3
65°	520.2	517.5	529.6	540.3	557.7	561.7	565.8	596.6	615.4	639.5	666.3
67.5°	454.5	453.1	465.2	478.6	497.4	502.7	509.5	541.6	563.1	588.5	618.0
70°	390.1	388.8	400.9	416.9	439.7	446.4	454.5	486.7	513.5	540.3	569.8
72.5°	325.8	327.1	340.5	359.3	384.8	391.5	402.2	435.7	465.2	493.4	524.2
75°	266.8	266.8	281.5	303.0	331.1	340.5	352.6	387.5	418.3	447.8	480.0
77.5°	206.5	206.5	223.9	250.7	281.5	290.9	305.7	341.9	375.4	404.9	437.1
80°	151.5	154.2	174.3	201.1	233.3	245.3	262.8	299.0	335.2	364.7	396.8
82.5°	103.2	107.3	128.7	159.5	191.7	203.8	221.2	260.1	296.3	327.1	360.6
85°	61.7	68.4	91.2	122.0	155.5	168.9	187.7	223.9	260.1	290.9	324.4
87.5°	28.2	37.5	61.7	92.5	124.7	139.4	155.5	190.4	226.6	257.4	292.3
90°	2.7	16.1	40.2	67.0	97.9	111.3	127.4	160.9	195.7	223.9	257.4
92.5°	0.0	6.7	24.1	48.3	75.1	88.5	103.2	135.4	166.2	194.4	226.6
95°	0.0	2.7	13.4	33.5	56.3	68.4	81.8	111.3	142.1	168.9	198.4
97.5°	0.0	1.3	8.0	22.8	41.6	52.3	64.4	91.2	119.3	144.8	171.6
100°	0.0	1.3	4.0	14.7	30.8	38.9	50.9	73.7	99.2	122.0	148.8
102.5°	0.0	0.0	2.7	9.4	22.8	29.5	38.9	59.0	81.8	103.2	127.4
105°	0.0	0.0	1.3	6.7	16.1	21.5	29.5	46.9	67.0	85.8	108.6
107.5°	0.0	0.0	1.3	4.0	10.7	16.1	22.8	36.2	53.6	71.1	91.2
110°	1.3	1.3	1.3	2.7	8.0	12.1	16.1	28.2	44.2	59.0	76.4



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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	5.4	8.0	12.1	21.5	34.9	46.9	63.0
115°	1.3	1.3	1.3	1.3	4.0	5.4	8.0	16.1	26.8	37.5	50.9
117.5°	1.3	1.3	1.3	1.3	2.7	4.0	5.4	12.1	20.1	29.5	41.6
120°	1.3	1.3	1.3	1.3	1.3	2.7	4.0	8.0	16.1	22.8	33.5
122.5°	1.3	1.3	1.3	1.3	1.3	2.7	2.7	6.7	12.1	17.4	25.5
125°	1.3	1.3	1.3	1.3	1.3	1.3	2.7	4.0	8.0	13.4	20.1
127.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.7	4.0	5.4	9.4	14.7
130°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	4.0	6.7	10.7
132.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	4.0	5.4	8.0
135°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	4.0	5.4
137.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	4.0
140°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7
142.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7
145°	1.3	2.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
147.5°	1.3	2.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
150°	1.3	2.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
152.5°	2.7	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	1.3	1.3
155°	2.7	2.7	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	1.3
157.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.3	1.3	1.3
160°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.3	1.3	1.3
162.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.3	1.3	1.3
165°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.3	1.3
167.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.3
170°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
172.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.3
175°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
177.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
180°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4
2.5°	1705.3	1709.3	1713.4	1702.6	1709.3	1721.4	1725.4	1709.3	1714.7	1704.0
5°	1700.0	1702.6	1708.0	1694.6	1704.0	1714.7	1721.4	1708.0	1716.0	1708.0
7.5°	1689.2	1691.9	1698.6	1685.2	1697.3	1706.7	1714.7	1701.3	1709.3	1701.3
10°	1673.1	1677.2	1686.5	1670.5	1685.2	1693.3	1701.3	1686.5	1694.6	1686.5
12.5°	1653.0	1659.7	1667.8	1653.0	1667.8	1674.5	1685.2	1670.5	1679.8	1673.1
15°	1628.9	1635.6	1646.3	1631.6	1650.4	1655.7	1666.4	1651.7	1661.1	1654.4
17.5°	1600.7	1608.8	1622.2	1604.8	1626.2	1630.2	1641.0	1627.6	1636.9	1630.2
20°	1568.6	1576.6	1590.0	1573.9	1595.4	1598.1	1610.1	1598.1	1607.5	1603.4
22.5°	1531.0	1540.4	1553.8	1539.1	1561.9	1561.9	1576.6	1564.5	1575.3	1571.3
25°	1492.2	1502.9	1517.6	1501.5	1525.7	1525.7	1541.8	1529.7	1540.4	1537.7
27.5°	1450.6	1462.7	1480.1	1464.0	1488.1	1486.8	1502.9	1492.2	1504.2	1500.2
30°	1406.4	1419.8	1437.2	1423.8	1449.3	1446.6	1462.7	1453.3	1464.0	1462.7
32.5°	1358.1	1372.8	1394.3	1379.5	1405.0	1402.3	1422.4	1411.7	1425.1	1422.4
35°	1309.8	1325.9	1347.4	1334.0	1362.1	1358.1	1378.2	1368.8	1382.2	1380.9
37.5°	1260.2	1277.6	1299.1	1288.4	1315.2	1311.2	1332.6	1324.6	1339.3	1335.3
40°	1209.3	1226.7	1249.5	1240.1	1268.3	1262.9	1285.7	1279.0	1293.7	1291.1
42.5°	1158.3	1177.1	1199.9	1194.5	1221.3	1216.0	1238.8	1233.4	1248.2	1245.5
45°	1106.0	1126.2	1150.3	1144.9	1173.1	1167.7	1190.5	1186.5	1201.2	1199.9
47.5°	1053.8	1075.2	1099.3	1096.7	1123.5	1118.1	1142.2	1138.2	1153.0	1153.0
50°	1000.1	1024.3	1048.4	1047.1	1073.9	1068.5	1090.0	1090.0	1106.0	1104.7
52.5°	946.5	972.0	997.5	997.5	1024.3	1018.9	1043.0	1041.7	1057.8	1057.8
55°	895.6	918.4	943.8	949.2	974.7	966.6	992.1	994.8	1008.2	1009.5
57.5°	844.6	868.7	894.2	900.9	925.1	919.7	943.8	946.5	959.9	961.3
60°	793.7	816.5	841.9	851.3	875.5	870.1	894.2	896.9	911.6	913.0
62.5°	742.7	765.5	793.7	803.1	825.8	821.8	847.3	850.0	863.4	866.1
65°	693.1	717.3	744.1	757.5	778.9	773.6	799.0	801.7	816.5	817.8
67.5°	644.9	669.0	695.8	710.5	730.7	728.0	752.1	757.5	769.5	772.2
70°	597.9	622.1	650.2	665.0	685.1	683.7	706.5	710.5	724.0	725.3
72.5°	552.4	576.5	604.6	622.1	639.5	638.2	660.9	666.3	679.7	681.1
75°	508.1	533.6	560.4	579.2	596.6	595.3	618.0	623.4	635.5	636.8
77.5°	466.5	492.0	520.2	538.9	553.7	555.0	575.1	580.5	592.6	596.6
80°	427.7	451.8	478.6	498.7	512.1	514.8	533.6	540.3	549.7	555.0
82.5°	390.1	414.3	441.1	459.8	473.3	475.9	493.4	501.4	510.8	514.8
85°	353.9	378.1	403.5	423.6	435.7	437.1	454.5	462.5	470.6	477.3
87.5°	319.1	343.2	367.3	388.8	399.5	402.2	418.3	426.3	433.0	439.7
90°	284.2	308.4	332.5	352.6	363.3	364.7	382.1	390.1	396.8	402.2
92.5°	252.0	276.2	300.3	320.4	329.8	332.5	347.2	356.6	362.0	367.3
95°	221.2	245.3	266.8	288.2	297.6	301.6	315.1	323.1	329.8	332.5
97.5°	194.4	215.8	236.0	257.4	265.5	269.5	282.9	292.3	297.6	300.3
100°	168.9	189.0	207.8	227.9	236.0	240.0	252.0	260.1	265.5	269.5
102.5°	146.1	164.9	182.3	201.1	209.1	211.8	222.5	230.6	236.0	240.0
105°	126.0	143.5	159.5	177.0	183.7	187.7	197.1	203.8	209.1	211.8
107.5°	107.3	124.7	138.1	154.2	160.9	163.6	172.9	181.0	185.0	186.4
110°	91.2	105.9	119.3	132.7	140.8	143.5	151.5	158.2	162.2	163.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	76.4	89.8	101.9	114.0	120.7	123.3	131.4	138.1	140.8	142.1
115°	63.0	76.4	85.8	97.9	103.2	105.9	112.6	119.3	120.7	123.3
117.5°	50.9	63.0	72.4	81.8	87.1	89.8	95.2	100.5	103.2	104.6
120°	41.6	50.9	59.0	68.4	72.4	75.1	80.4	85.8	87.1	88.5
122.5°	33.5	41.6	48.3	56.3	60.3	63.0	67.0	71.1	72.4	73.7
125°	25.5	33.5	38.9	45.6	49.6	50.9	55.0	59.0	60.3	61.7
127.5°	20.1	25.5	30.8	36.2	38.9	40.2	44.2	46.9	48.3	49.6
130°	14.7	18.8	22.8	28.2	30.8	32.2	34.9	37.5	38.9	38.9
132.5°	10.7	14.7	17.4	21.5	22.8	24.1	26.8	29.5	29.5	30.8
135°	6.7	9.4	12.1	14.7	17.4	17.4	20.1	21.5	22.8	22.8
137.5°	5.4	6.7	8.0	10.7	12.1	13.4	13.4	16.1	16.1	16.1
140°	4.0	5.4	5.4	6.7	8.0	9.4	9.4	10.7	10.7	10.7
142.5°	2.7	4.0	4.0	5.4	5.4	6.7	6.7	6.7	8.0	8.0
145°	2.7	2.7	2.7	4.0	4.0	4.0	4.0	5.4	5.4	5.4
147.5°	1.3	1.3	2.7	2.7	2.7	2.7	2.7	4.0	4.0	4.0
150°	1.3	1.3	1.3	1.3	1.3	2.7	2.7	2.7	2.7	2.7
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°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7



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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	18.98	20.51	19.45	20.97	21.46	20.55	22.08	21.02	22.54	23.03
	3H	20.65	22.06	21.14	22.52	23.05	23.17	24.58	23.66	25.04	25.57
	4H	21.25	22.58	21.75	23.07	23.61	24.48	25.81	24.99	26.30	26.84
	6H	21.65	22.89	22.17	23.39	23.94	25.89	27.13	26.41	27.63	28.18
	8H	21.77	22.95	22.29	23.48	24.04	26.64	27.83	27.17	28.35	28.91
	12H	21.84	22.98	22.38	23.50	24.09	27.49	28.63	28.02	29.14	29.74
4H	2H	19.90	21.23	20.41	21.72	22.26	21.10	22.43	21.60	22.91	23.45
	3H	21.88	23.02	22.40	23.55	24.11	24.01	25.15	24.53	25.68	26.24
	4H	22.66	23.70	23.19	24.24	24.83	25.54	26.58	26.08	27.12	27.71
	6H	23.24	24.16	23.79	24.72	25.33	27.18	28.10	27.74	28.67	29.28
	8H	23.42	24.29	23.98	24.85	25.47	28.06	28.93	28.63	29.49	30.12
	12H	23.55	24.33	24.13	24.93	25.55	29.07	29.85	29.65	30.45	31.07
8H	4H	23.54	24.40	24.10	24.97	25.59	25.90	26.77	26.46	27.33	27.95
	6H	24.42	25.16	25.01	25.76	26.39	27.80	28.54	28.40	29.14	29.77
	8H	24.77	25.43	25.37	26.05	26.69	28.88	29.55	29.49	30.17	30.81
	12H	25.04	25.63	25.65	26.24	26.94	30.15	30.74	30.76	31.35	32.06
12H	4H	23.81	24.60	24.40	25.19	25.82	25.94	26.73	26.53	27.32	27.95
	6H	24.87	25.53	25.47	26.15	26.79	27.91	28.58	28.52	29.19	29.83
	8H	25.39	25.98	25.99	26.59	27.29	29.11	29.70	29.72	30.31	31.01