

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: P894297

Luminaire Tested: 4MB-SC3-RND-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894297
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-SC3-RND-UNV-CC83-HI-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3500K CCT, HI lum setting
Light Source: -
Ballast/Driver: -

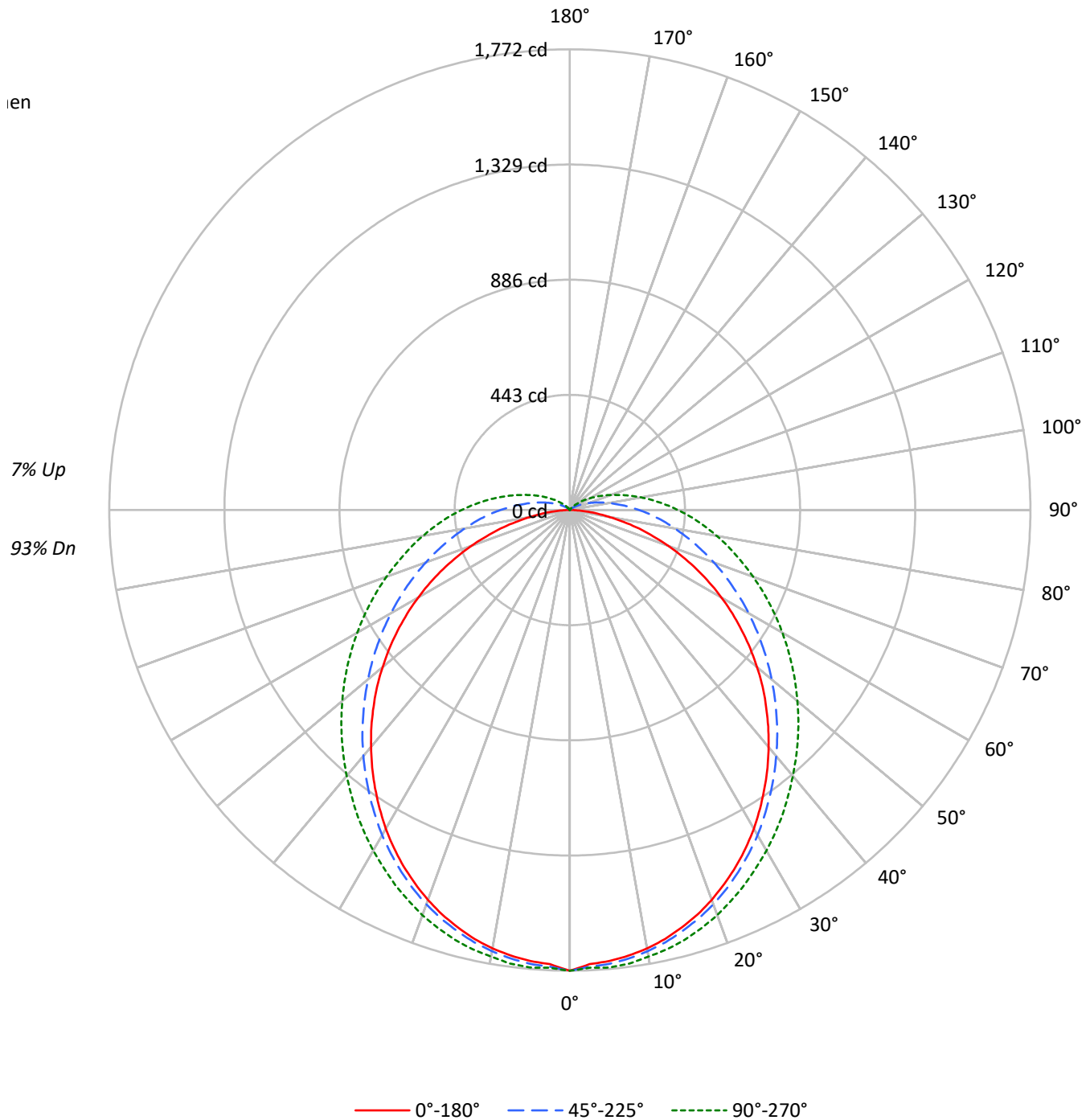
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5866.0 lumens
Efficiency: N/A
Efficacy: 115.7 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): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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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CATALOG NUMBER: 4MB-SC3-RND-UNV-CC83-HI-3500K

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°	12608	12608	12608
5°	12438	12517	12616
10°	12371	12451	12601
15°	12245	12348	12603
20°	12084	12220	12556
25°	11875	12050	12485
30°	11630	11869	12428
35°	11345	11657	12404
40°	11049	11474	12401
45°	10742	11315	12486
50°	10406	11218	12646
55°	10027	11196	12950
60°	9588	11306	13436
65°	9058	11601	14239
70°	8394	12259	15604
75°	7585	13646	18105
80°	6421	16816	23519
85°	5208	27389	40295

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 74185 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	2.9
10°-20°	477.5	8.1
20°-30°	714.9	12.2
30°-40°	852.5	14.5
40°-50°	884.1	15.1
50°-60°	820.2	14.0
60°-70°	684.3	11.7
70°-80°	510.2	8.7
80°-90°	339.7	5.8
90°-100°	206.8	3.5
100°-110°	115.5	2.0
110°-120°	57.7	1.0
120°-130°	24.1	0.4
130°-140°	7.6	0.1
140°-150°	1.9	0.0
150°-160°	0.8	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	1360.0	23.2
0°-40°	2212.4	37.7
0°-60°	3916.8	66.8
0°-90°	5450.9	92.9
90°-120°	380.0	6.5
90°-150°	413.6	7.1
90°-180°	415.0	7.1
0°-180°	5866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1742	1782	1753	1762	1766	165
15°	1662	1705	1676	1707	1711	469
25°	1513	1553	1535	1578	1590	696
35°	1306	1341	1342	1409	1428	817
45°	1068	1095	1124	1213	1241	824
55°	808	836	903	1008	1044	723
65°	538	581	689	806	846	532
75°	276	352	496	617	659	292
85°	64	175	336	451	494	72
90°	3	115	266	376	416	5
95°	0	71	205	308	344	0
105°	0	22	112	190	219	0
115°	1	6	53	107	128	1
125°	1	1	21	51	64	1
135°	1	1	6	18	24	1
145°	1	1	1	4	6	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°	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0
2.5°	1748.4	1751.2	1776.1	1774.7	1770.6	1787.2	1791.4	1777.5	1755.3	1777.5	1758.1
5°	1741.5	1744.2	1769.2	1767.8	1763.6	1781.7	1783.1	1770.6	1748.4	1770.6	1752.6
7.5°	1729.0	1731.8	1756.7	1755.3	1752.6	1770.6	1769.2	1759.5	1735.9	1759.5	1740.1
10°	1712.3	1713.7	1740.1	1737.3	1735.9	1753.9	1749.8	1741.5	1717.9	1741.5	1723.4
12.5°	1690.2	1691.5	1717.9	1715.1	1715.1	1731.8	1726.2	1719.3	1695.7	1717.9	1702.6
15°	1662.4	1663.8	1688.8	1687.4	1687.4	1705.4	1697.1	1691.5	1669.4	1692.9	1676.3
17.5°	1631.9	1630.5	1656.9	1654.1	1656.9	1673.5	1662.4	1659.7	1638.9	1661.0	1647.2
20°	1595.9	1595.9	1619.4	1618.1	1622.2	1637.5	1623.6	1625.0	1604.2	1627.8	1613.9
22.5°	1555.7	1554.3	1577.9	1577.9	1582.0	1597.3	1582.0	1586.2	1565.4	1587.6	1576.5
25°	1512.7	1509.9	1533.5	1533.5	1540.4	1552.9	1536.3	1541.8	1522.4	1544.6	1534.9
27.5°	1465.5	1461.4	1485.0	1486.3	1491.9	1504.4	1486.3	1494.7	1476.6	1497.4	1490.5
30°	1415.6	1411.5	1435.0	1436.4	1443.4	1453.1	1435.0	1446.1	1429.5	1450.3	1444.7
32.5°	1361.6	1358.8	1381.0	1383.7	1390.7	1397.6	1381.0	1392.1	1378.2	1399.0	1393.4
35°	1306.1	1303.3	1324.1	1328.3	1335.2	1340.8	1322.7	1338.0	1325.5	1344.9	1342.1
37.5°	1249.2	1245.1	1267.3	1270.0	1278.4	1281.1	1264.5	1282.5	1271.4	1290.8	1289.5
40°	1189.6	1185.5	1207.7	1210.4	1218.7	1218.7	1204.9	1224.3	1216.0	1234.0	1235.4
42.5°	1130.0	1125.8	1145.3	1150.8	1157.7	1157.7	1143.9	1164.7	1159.1	1177.2	1181.3
45°	1067.6	1063.5	1081.5	1087.0	1095.3	1095.3	1081.5	1105.1	1100.9	1118.9	1124.5
47.5°	1006.6	1001.1	1017.7	1023.2	1031.6	1030.2	1019.1	1042.7	1041.3	1059.3	1069.0
50°	940.1	935.9	952.5	958.1	967.8	965.0	956.7	981.7	981.7	999.7	1013.5
52.5°	874.9	870.7	887.4	892.9	901.2	901.2	892.9	919.3	923.4	941.4	958.1
55°	808.3	802.8	819.4	825.0	834.7	836.1	829.1	855.5	863.8	884.6	902.6
57.5°	741.8	739.0	752.9	758.4	770.9	770.9	766.7	794.5	805.6	827.7	848.5
60°	673.8	671.1	683.6	690.5	704.3	707.1	704.3	733.5	748.7	770.9	794.5
62.5°	605.9	603.1	615.6	625.3	640.6	643.3	644.7	675.2	691.9	715.4	741.8
65°	538.0	535.2	547.7	558.8	576.8	580.9	585.1	617.0	636.4	661.4	689.1
67.5°	470.0	468.6	481.1	495.0	514.4	519.9	526.9	560.2	582.3	608.7	639.2
70°	403.5	402.1	414.6	431.2	454.8	461.7	470.0	503.3	531.0	558.8	589.3
72.5°	336.9	338.3	352.2	371.6	397.9	404.9	416.0	450.6	481.1	510.2	542.1
75°	275.9	275.9	291.2	313.4	342.5	352.2	364.7	400.7	432.6	463.1	496.4
77.5°	213.5	213.5	231.5	259.3	291.2	300.9	316.1	353.6	388.2	418.7	452.0
80°	156.7	159.4	180.2	208.0	241.3	253.7	271.8	309.2	346.6	377.1	410.4
82.5°	106.8	110.9	133.1	165.0	198.3	210.8	228.8	269.0	306.4	338.3	373.0
85°	63.8	70.7	94.3	126.2	160.8	174.7	194.1	231.5	269.0	300.9	335.5
87.5°	29.1	38.8	63.8	95.7	128.9	144.2	160.8	196.9	234.3	266.2	302.3
90°	2.8	16.6	41.6	69.3	101.2	115.1	131.7	166.4	202.4	231.5	266.2
92.5°	0.0	6.9	25.0	49.9	77.6	91.5	106.8	140.0	171.9	201.0	234.3
95°	0.0	2.8	13.9	34.7	58.2	70.7	84.6	115.1	147.0	174.7	205.2
97.5°	0.0	1.4	8.3	23.6	43.0	54.1	66.6	94.3	123.4	149.7	177.5
100°	0.0	1.4	4.2	15.3	31.9	40.2	52.7	76.3	102.6	126.2	153.9
102.5°	0.0	0.0	2.8	9.7	23.6	30.5	40.2	61.0	84.6	106.8	131.7
105°	0.0	0.0	1.4	6.9	16.6	22.2	30.5	48.5	69.3	88.7	112.3
107.5°	0.0	0.0	1.4	4.2	11.1	16.6	23.6	37.4	55.5	73.5	94.3
110°	1.4	1.4	1.4	2.8	8.3	12.5	16.6	29.1	45.8	61.0	79.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.4	1.4	1.4	1.4	5.5	8.3	12.5	22.2	36.0	48.5	65.2
115°	1.4	1.4	1.4	1.4	4.2	5.5	8.3	16.6	27.7	38.8	52.7
117.5°	1.4	1.4	1.4	1.4	2.8	4.2	5.5	12.5	20.8	30.5	43.0
120°	1.4	1.4	1.4	1.4	1.4	2.8	4.2	8.3	16.6	23.6	34.7
122.5°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	6.9	12.5	18.0	26.3
125°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	8.3	13.9	20.8
127.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	5.5	9.7	15.3
130°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	6.9	11.1
132.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	5.5	8.3
135°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2	5.5
137.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.2
140°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
142.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
145°	1.4	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
147.5°	1.4	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
150°	1.4	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
152.5°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4
155°	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
157.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4
160°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4
162.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4
165°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4
167.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4
170°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
172.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4
175°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
177.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0
2.5°	1763.6	1767.8	1772.0	1760.9	1767.8	1780.3	1784.4	1767.8	1773.4	1762.3
5°	1758.1	1760.9	1766.4	1752.6	1762.3	1773.4	1780.3	1766.4	1774.7	1766.4
7.5°	1747.0	1749.8	1756.7	1742.8	1755.3	1765.0	1773.4	1759.5	1767.8	1759.5
10°	1730.4	1734.5	1744.2	1727.6	1742.8	1751.2	1759.5	1744.2	1752.6	1744.2
12.5°	1709.6	1716.5	1724.8	1709.6	1724.8	1731.8	1742.8	1727.6	1737.3	1730.4
15°	1684.6	1691.5	1702.6	1687.4	1706.8	1712.3	1723.4	1708.2	1717.9	1711.0
17.5°	1655.5	1663.8	1677.7	1659.7	1681.8	1686.0	1697.1	1683.2	1692.9	1686.0
20°	1622.2	1630.5	1644.4	1627.8	1650.0	1652.7	1665.2	1652.7	1662.4	1658.3
22.5°	1583.4	1593.1	1607.0	1591.7	1615.3	1615.3	1630.5	1618.1	1629.2	1625.0
25°	1543.2	1554.3	1569.5	1552.9	1577.9	1577.9	1594.5	1582.0	1593.1	1590.3
27.5°	1500.2	1512.7	1530.7	1514.1	1539.0	1537.6	1554.3	1543.2	1555.7	1551.5
30°	1454.5	1468.3	1486.3	1472.5	1498.8	1496.0	1512.7	1503.0	1514.1	1512.7
32.5°	1404.5	1419.8	1442.0	1426.7	1453.1	1450.3	1471.1	1460.0	1473.9	1471.1
35°	1354.6	1371.3	1393.4	1379.6	1408.7	1404.5	1425.3	1415.6	1429.5	1428.1
37.5°	1303.3	1321.3	1343.5	1332.4	1360.2	1356.0	1378.2	1369.9	1385.1	1381.0
40°	1250.6	1268.7	1292.2	1282.5	1311.6	1306.1	1329.7	1322.7	1338.0	1335.2
42.5°	1197.9	1217.4	1240.9	1235.4	1263.1	1257.6	1281.1	1275.6	1290.8	1288.1
45°	1143.9	1164.7	1189.6	1184.1	1213.2	1207.7	1231.2	1227.1	1242.3	1240.9
47.5°	1089.8	1112.0	1136.9	1134.2	1161.9	1156.4	1181.3	1177.2	1192.4	1192.4
50°	1034.3	1059.3	1084.3	1082.9	1110.6	1105.1	1127.2	1127.2	1143.9	1142.5
52.5°	978.9	1005.2	1031.6	1031.6	1059.3	1053.8	1078.7	1077.3	1094.0	1094.0
55°	926.2	949.8	976.1	981.7	1008.0	999.7	1026.0	1028.8	1042.7	1044.0
57.5°	873.5	898.5	924.8	931.7	956.7	951.1	976.1	978.9	992.7	994.1
60°	820.8	844.4	870.7	880.4	905.4	899.8	924.8	927.6	942.8	944.2
62.5°	768.1	791.7	820.8	830.5	854.1	849.9	876.3	879.0	892.9	895.7
65°	716.8	741.8	769.5	783.4	805.6	800.0	826.4	829.1	844.4	845.8
67.5°	666.9	691.9	719.6	734.9	755.7	752.9	777.8	783.4	795.9	798.6
70°	618.4	643.3	672.5	687.7	708.5	707.1	730.7	734.9	748.7	750.1
72.5°	571.2	596.2	625.3	643.3	661.4	660.0	683.6	689.1	703.0	704.3
75°	525.5	551.8	579.6	599.0	617.0	615.6	639.2	644.7	657.2	658.6
77.5°	482.5	508.9	538.0	557.4	572.6	574.0	594.8	600.4	612.8	617.0
80°	442.3	467.3	495.0	515.8	529.6	532.4	551.8	558.8	568.5	574.0
82.5°	403.5	428.4	456.2	475.6	489.4	492.2	510.2	518.6	528.3	532.4
85°	366.0	391.0	417.3	438.1	450.6	452.0	470.0	478.3	486.7	493.6
87.5°	330.0	354.9	379.9	402.1	413.2	416.0	432.6	440.9	447.8	454.8
90°	293.9	318.9	343.9	364.7	375.7	377.1	395.2	403.5	410.4	416.0
92.5°	260.7	285.6	310.6	331.4	341.1	343.9	359.1	368.8	374.4	379.9
95°	228.8	253.7	275.9	298.1	307.8	312.0	325.8	334.1	341.1	343.9
97.5°	201.0	223.2	244.0	266.2	274.5	278.7	292.6	302.3	307.8	310.6
100°	174.7	195.5	214.9	235.7	244.0	248.2	260.7	269.0	274.5	278.7
102.5°	151.1	170.5	188.6	208.0	216.3	219.1	230.2	238.5	244.0	248.2
105°	130.3	148.4	165.0	183.0	190.0	194.1	203.8	210.8	216.3	219.1
107.5°	110.9	128.9	142.8	159.4	166.4	169.2	178.9	187.2	191.3	192.7
110°	94.3	109.5	123.4	137.3	145.6	148.4	156.7	163.6	167.8	169.2



TEST NUMBER: P894297
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	79.0	92.9	105.4	117.9	124.8	127.6	135.9	142.8	145.6	147.0
115°	65.2	79.0	88.7	101.2	106.8	109.5	116.5	123.4	124.8	127.6
117.5°	52.7	65.2	74.9	84.6	90.1	92.9	98.4	104.0	106.8	108.1
120°	43.0	52.7	61.0	70.7	74.9	77.6	83.2	88.7	90.1	91.5
122.5°	34.7	43.0	49.9	58.2	62.4	65.2	69.3	73.5	74.9	76.3
125°	26.3	34.7	40.2	47.1	51.3	52.7	56.8	61.0	62.4	63.8
127.5°	20.8	26.3	31.9	37.4	40.2	41.6	45.8	48.5	49.9	51.3
130°	15.3	19.4	23.6	29.1	31.9	33.3	36.0	38.8	40.2	40.2
132.5°	11.1	15.3	18.0	22.2	23.6	25.0	27.7	30.5	30.5	31.9
135°	6.9	9.7	12.5	15.3	18.0	18.0	20.8	22.2	23.6	23.6
137.5°	5.5	6.9	8.3	11.1	12.5	13.9	13.9	16.6	16.6	16.6
140°	4.2	5.5	5.5	6.9	8.3	9.7	9.7	11.1	11.1	11.1
142.5°	2.8	4.2	4.2	5.5	5.5	6.9	6.9	6.9	8.3	8.3
145°	2.8	2.8	2.8	4.2	4.2	4.2	4.2	5.5	5.5	5.5
147.5°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2
150°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
152.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
155°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
157.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
160°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
162.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
165°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
167.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
172.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
177.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8



TEST NUMBER: P894297
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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	19.09	20.63	19.56	21.09	21.57	20.66	22.20	21.13	22.66	23.14
	3H	20.77	22.17	21.25	22.64	23.17	23.29	24.69	23.77	25.16	25.69
	4H	21.37	22.70	21.87	23.18	23.72	24.60	25.93	25.10	26.42	26.96
	6H	21.77	23.01	22.28	23.50	24.06	26.01	27.25	26.52	27.74	28.30
	8H	21.88	23.07	22.41	23.59	24.15	26.75	27.94	27.28	28.46	29.03
	12H	21.96	23.10	22.49	23.61	24.21	27.60	28.74	28.14	29.26	29.85
4H	2H	20.02	21.35	20.52	21.83	22.38	21.22	22.55	21.72	23.03	23.57
	3H	22.00	23.14	22.52	23.66	24.23	24.13	25.27	24.65	25.79	26.36
	4H	22.78	23.82	23.31	24.35	24.95	25.66	26.70	26.19	27.23	27.83
	6H	23.36	24.28	23.91	24.84	25.45	27.30	28.22	27.85	28.78	29.39
	8H	23.54	24.40	24.10	24.97	25.59	28.18	29.05	28.74	29.61	30.23
	12H	23.66	24.45	24.25	25.04	25.67	29.18	29.97	29.77	30.56	31.19
8H	4H	23.65	24.52	24.22	25.08	25.71	26.02	26.88	26.58	27.45	28.07
	6H	24.54	25.27	25.13	25.88	26.51	27.92	28.66	28.51	29.26	29.89
	8H	24.88	25.55	25.49	26.17	26.81	29.00	29.67	29.61	30.28	30.92
	12H	25.16	25.75	25.76	26.36	27.06	30.27	30.86	30.87	31.47	32.17
12H	4H	23.93	24.72	24.51	25.31	25.94	26.06	26.85	26.64	27.44	28.07
	6H	24.98	25.65	25.59	26.27	26.91	28.03	28.69	28.63	29.31	29.95
	8H	25.50	26.10	26.11	26.70	27.41	29.22	29.82	29.83	30.42	31.13