

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: P894299

Luminaire Tested: 4MB-SC3-RND-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894299
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-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 5000K CCT, HI lum setting
Light Source: -
Ballast/Driver: -

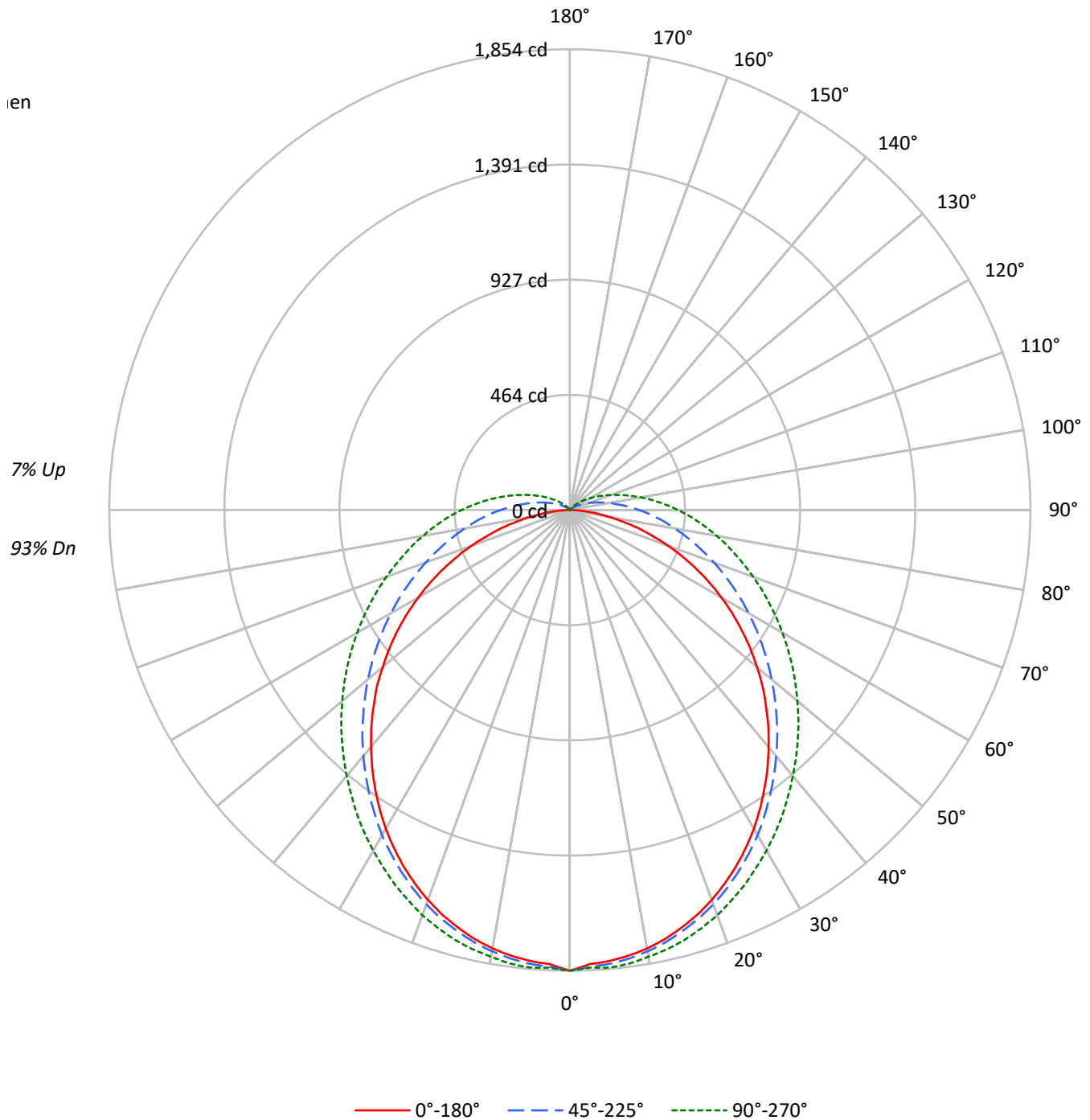
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6138.1 lumens
Efficiency: N/A
Efficacy: 121.1 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): 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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CATALOG NUMBER: 4MB-SC3-RND-UNV-CC83-HI-5000K

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°	13192	13192	13192
5°	13014	13097	13201
10°	12945	13029	13186
15°	12813	12920	13187
20°	12644	12786	13138
25°	12426	12608	13064
30°	12170	12420	13004
35°	11871	12198	12979
40°	11562	12007	12976
45°	11240	11839	13066
50°	10887	11739	13233
55°	10492	11716	13552
60°	10034	11829	14059
65°	9477	12140	14899
70°	8783	12827	16328
75°	7936	14278	18944
80°	6716	17594	24609
85°	5445	28662	42165

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 77627 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	2.9
10°-20°	499.6	8.1
20°-30°	748.1	12.2
30°-40°	892.0	14.5
40°-50°	925.1	15.1
50°-60°	858.3	14.0
60°-70°	716.0	11.7
70°-80°	533.8	8.7
80°-90°	355.4	5.8
90°-100°	216.4	3.5
100°-110°	120.8	2.0
110°-120°	60.4	1.0
120°-130°	25.3	0.4
130°-140°	8.0	0.1
140°-150°	2.0	0.0
150°-160°	0.9	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	1423.0	23.2
0°-40°	2315.0	37.7
0°-60°	4098.4	66.8
0°-90°	5703.6	92.9
90°-120°	397.6	6.5
90°-150°	432.8	7.1
90°-180°	434.0	7.1
0°-180°	6138.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1822	1864	1834	1844	1848	173
15°	1740	1784	1754	1786	1790	491
25°	1583	1625	1606	1651	1664	729
35°	1367	1403	1404	1474	1494	855
45°	1117	1146	1177	1270	1298	862
55°	846	875	944	1055	1092	756
65°	563	608	721	843	885	557
75°	289	368	519	646	689	305
85°	67	183	351	472	516	75
90°	3	120	279	393	435	5
95°	0	74	215	322	360	0
105°	0	23	118	199	229	0
115°	2	6	55	112	134	1
125°	2	2	22	54	67	1
135°	2	2	6	19	25	1
145°	2	2	2	4	6	1
155°	3	3	2	2	2	1
165°	3	3	2	2	2	1
175°	3	3	3	2	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°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1829.5	1832.4	1858.5	1857.0	1852.7	1870.1	1874.4	1859.9	1836.7	1859.9	1839.6
5°	1822.2	1825.1	1851.2	1849.8	1845.4	1864.3	1865.7	1852.7	1829.5	1852.7	1833.8
7.5°	1809.2	1812.1	1838.2	1836.7	1833.8	1852.7	1851.2	1841.1	1816.4	1841.1	1820.8
10°	1791.7	1793.2	1820.8	1817.9	1816.4	1835.3	1830.9	1822.2	1797.5	1822.2	1803.4
12.5°	1768.5	1770.0	1797.5	1794.6	1794.6	1812.1	1806.3	1799.0	1774.3	1797.5	1781.6
15°	1739.5	1741.0	1767.1	1765.6	1765.6	1784.5	1775.8	1770.0	1746.8	1771.4	1754.0
17.5°	1707.6	1706.1	1733.7	1730.8	1733.7	1751.1	1739.5	1736.6	1714.9	1738.1	1723.6
20°	1669.9	1669.9	1694.5	1693.1	1697.4	1713.4	1698.9	1700.3	1678.6	1703.2	1688.7
22.5°	1627.8	1626.4	1651.0	1651.0	1655.4	1671.3	1655.4	1659.7	1638.0	1661.2	1649.6
25°	1582.8	1579.9	1604.6	1604.6	1611.8	1624.9	1607.5	1613.3	1593.0	1616.2	1606.0
27.5°	1533.5	1529.1	1553.8	1555.3	1561.1	1574.1	1555.3	1564.0	1545.1	1566.9	1559.6
30°	1481.3	1476.9	1501.6	1503.0	1510.3	1520.4	1501.6	1513.2	1495.8	1517.5	1511.7
32.5°	1424.7	1421.8	1445.0	1447.9	1455.2	1462.4	1445.0	1456.6	1442.1	1463.9	1458.1
35°	1366.7	1363.8	1385.5	1389.9	1397.1	1402.9	1384.1	1400.0	1387.0	1407.3	1404.4
37.5°	1307.2	1302.8	1326.0	1328.9	1337.6	1340.5	1323.1	1342.0	1330.4	1350.7	1349.2
40°	1244.8	1240.4	1263.7	1266.6	1275.3	1275.3	1260.7	1281.1	1272.4	1291.2	1292.7
42.5°	1182.4	1178.1	1198.4	1204.2	1211.4	1211.4	1196.9	1218.7	1212.9	1231.7	1236.1
45°	1117.1	1112.8	1131.6	1137.4	1146.1	1146.1	1131.6	1156.3	1151.9	1170.8	1176.6
47.5°	1053.3	1047.5	1064.9	1070.7	1079.4	1077.9	1066.3	1091.0	1089.6	1108.4	1118.6
50°	983.6	979.3	996.7	1002.5	1012.7	1009.8	1001.1	1027.2	1027.2	1046.0	1060.5
52.5°	915.5	911.1	928.5	934.3	943.0	943.0	934.3	961.9	966.2	985.1	1002.5
55°	845.8	840.0	857.4	863.2	873.4	874.8	867.6	895.1	903.9	925.6	944.5
57.5°	776.2	773.3	787.8	793.6	806.6	806.6	802.3	831.3	842.9	866.1	887.9
60°	705.1	702.2	715.2	722.5	737.0	739.9	737.0	767.5	783.4	806.6	831.3
62.5°	634.0	631.1	644.2	654.3	670.3	673.2	674.6	706.5	724.0	748.6	776.2
65°	562.9	560.0	573.1	584.7	603.5	607.9	612.2	645.6	665.9	692.0	721.1
67.5°	491.8	490.4	503.4	517.9	538.2	544.1	551.3	586.1	609.3	636.9	668.8
70°	422.2	420.7	433.8	451.2	475.9	483.1	491.8	526.6	555.7	584.7	616.6
72.5°	352.5	354.0	368.5	388.8	416.4	423.6	435.2	471.5	503.4	533.9	567.3
75°	288.7	288.7	304.7	327.9	358.3	368.5	381.6	419.3	452.7	484.6	519.4
77.5°	223.4	223.4	242.3	271.3	304.7	314.8	330.8	370.0	406.2	438.1	473.0
80°	163.9	166.8	188.6	217.6	252.4	265.5	284.4	323.5	362.7	394.6	429.4
82.5°	111.7	116.1	139.3	172.6	207.5	220.5	239.4	281.5	320.6	354.0	390.3
85°	66.7	74.0	98.7	132.0	168.3	182.8	203.1	242.3	281.5	314.8	351.1
87.5°	30.5	40.6	66.7	100.1	134.9	150.9	168.3	206.0	245.2	278.6	316.3
90°	2.9	17.4	43.5	72.5	105.9	120.4	137.8	174.1	211.8	242.3	278.6
92.5°	0.0	7.3	26.1	52.2	81.2	95.8	111.7	146.5	179.9	210.4	245.2
95°	0.0	2.9	14.5	36.3	60.9	74.0	88.5	120.4	153.8	182.8	214.7
97.5°	0.0	1.5	8.7	24.7	45.0	56.6	69.6	98.7	129.1	156.7	185.7
100°	0.0	1.5	4.4	16.0	33.4	42.1	55.1	79.8	107.4	132.0	161.0
102.5°	0.0	0.0	2.9	10.2	24.7	31.9	42.1	63.8	88.5	111.7	137.8
105°	0.0	0.0	1.5	7.3	17.4	23.2	31.9	50.8	72.5	92.9	117.5
107.5°	0.0	0.0	1.5	4.4	11.6	17.4	24.7	39.2	58.0	76.9	98.7
110°	1.5	1.5	1.5	2.9	8.7	13.1	17.4	30.5	47.9	63.8	82.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.5	1.5	1.5	1.5	5.8	8.7	13.1	23.2	37.7	50.8	68.2
115°	1.5	1.5	1.5	1.5	4.4	5.8	8.7	17.4	29.0	40.6	55.1
117.5°	1.5	1.5	1.5	1.5	2.9	4.4	5.8	13.1	21.8	31.9	45.0
120°	1.5	1.5	1.5	1.5	1.5	2.9	4.4	8.7	17.4	24.7	36.3
122.5°	1.5	1.5	1.5	1.5	1.5	2.9	2.9	7.3	13.1	18.9	27.6
125°	1.5	1.5	1.5	1.5	1.5	1.5	2.9	4.4	8.7	14.5	21.8
127.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.9	4.4	5.8	10.2	16.0
130°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	4.4	7.3	11.6
132.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	4.4	5.8	8.7
135°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	4.4	5.8
137.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	2.9	4.4
140°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9	2.9
142.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.9
145°	1.5	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
147.5°	1.5	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
150°	1.5	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
152.5°	2.9	2.9	2.9	2.9	2.9	1.5	1.5	1.5	1.5	1.5	1.5
155°	2.9	2.9	2.9	2.9	2.9	2.9	1.5	1.5	1.5	1.5	1.5
157.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.5	1.5	1.5
160°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.5	1.5	1.5
162.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.5	1.5	1.5
165°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.5	1.5
167.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.5
170°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
172.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.5
175°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
177.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
180°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1	1854.1
2.5°	1845.4	1849.8	1854.1	1842.5	1849.8	1862.8	1867.2	1849.8	1855.6	1844.0
5°	1839.6	1842.5	1848.3	1833.8	1844.0	1855.6	1862.8	1848.3	1857.0	1848.3
7.5°	1828.0	1830.9	1838.2	1823.7	1836.7	1846.9	1855.6	1841.1	1849.8	1841.1
10°	1810.6	1815.0	1825.1	1807.7	1823.7	1832.4	1841.1	1825.1	1833.8	1825.1
12.5°	1788.8	1796.1	1804.8	1788.8	1804.8	1812.1	1823.7	1807.7	1817.9	1810.6
15°	1762.7	1770.0	1781.6	1765.6	1785.9	1791.7	1803.4	1787.4	1797.5	1790.3
17.5°	1732.3	1741.0	1755.5	1736.6	1759.8	1764.2	1775.8	1761.3	1771.4	1764.2
20°	1697.4	1706.1	1720.7	1703.2	1726.5	1729.4	1742.4	1729.4	1739.5	1735.2
22.5°	1656.8	1667.0	1681.5	1665.5	1690.2	1690.2	1706.1	1693.1	1704.7	1700.3
25°	1614.7	1626.4	1642.3	1624.9	1651.0	1651.0	1668.4	1655.4	1667.0	1664.1
27.5°	1569.8	1582.8	1601.7	1584.3	1610.4	1608.9	1626.4	1614.7	1627.8	1623.5
30°	1521.9	1536.4	1555.3	1540.8	1568.3	1565.4	1582.8	1572.7	1584.3	1582.8
32.5°	1469.7	1485.6	1508.8	1492.9	1520.4	1517.5	1539.3	1527.7	1542.2	1539.3
35°	1417.4	1434.8	1458.1	1443.6	1474.0	1469.7	1491.4	1481.3	1495.8	1494.3
37.5°	1363.8	1382.6	1405.8	1394.2	1423.2	1418.9	1442.1	1433.4	1449.4	1445.0
40°	1308.6	1327.5	1352.2	1342.0	1372.5	1366.7	1391.3	1384.1	1400.0	1397.1
42.5°	1253.5	1273.8	1298.5	1292.7	1321.7	1315.9	1340.5	1334.7	1350.7	1347.8
45°	1196.9	1218.7	1244.8	1239.0	1269.5	1263.7	1288.3	1284.0	1299.9	1298.5
47.5°	1140.3	1163.5	1189.7	1186.8	1215.8	1210.0	1236.1	1231.7	1247.7	1247.7
50°	1082.3	1108.4	1134.5	1133.1	1162.1	1156.3	1179.5	1179.5	1196.9	1195.5
52.5°	1024.3	1051.8	1079.4	1079.4	1108.4	1102.6	1128.7	1127.3	1144.7	1144.7
55°	969.1	993.8	1021.4	1027.2	1054.7	1046.0	1073.6	1076.5	1091.0	1092.5
57.5°	914.0	940.1	967.7	974.9	1001.1	995.3	1021.4	1024.3	1038.8	1040.2
60°	858.9	883.5	911.1	921.3	947.4	941.6	967.7	970.6	986.5	988.0
62.5°	803.7	828.4	858.9	869.0	893.7	889.3	916.9	919.8	934.3	937.2
65°	750.1	776.2	805.2	819.7	842.9	837.1	864.7	867.6	883.5	885.0
67.5°	697.8	724.0	753.0	768.9	790.7	787.8	813.9	819.7	832.8	835.7
70°	647.1	673.2	703.6	719.6	741.4	739.9	764.6	768.9	783.4	784.9
72.5°	597.7	623.8	654.3	673.2	692.0	690.6	715.2	721.1	735.6	737.0
75°	549.9	577.4	606.4	626.7	645.6	644.2	668.8	674.6	687.7	689.1
77.5°	504.9	532.4	562.9	583.2	599.2	600.6	622.4	628.2	641.3	645.6
80°	462.8	488.9	517.9	539.7	554.2	557.1	577.4	584.7	594.8	600.6
82.5°	422.2	448.3	477.3	497.6	512.1	515.0	533.9	542.6	552.8	557.1
85°	383.0	409.1	436.7	458.5	471.5	473.0	491.8	500.5	509.2	516.5
87.5°	345.3	371.4	397.5	420.7	432.3	435.2	452.7	461.4	468.6	475.9
90°	307.6	333.7	359.8	381.6	393.2	394.6	413.5	422.2	429.4	435.2
92.5°	272.8	298.9	325.0	346.7	356.9	359.8	375.8	385.9	391.7	397.5
95°	239.4	265.5	288.7	311.9	322.1	326.4	340.9	349.6	356.9	359.8
97.5°	210.4	233.6	255.3	278.6	287.3	291.6	306.1	316.3	322.1	325.0
100°	182.8	204.6	224.9	246.6	255.3	259.7	272.8	281.5	287.3	291.6
102.5°	158.1	178.4	197.3	217.6	226.3	229.2	240.8	249.5	255.3	259.7
105°	136.4	155.2	172.6	191.5	198.8	203.1	213.3	220.5	226.3	229.2
107.5°	116.1	134.9	149.4	166.8	174.1	177.0	187.2	195.9	200.2	201.7
110°	98.7	114.6	129.1	143.6	152.3	155.2	163.9	171.2	175.5	177.0



TEST NUMBER: P894299
 CATALOG NUMBER: 4MB-SC3-RND-UNV-CC83-HI-5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	82.7	97.2	110.3	123.3	130.6	133.5	142.2	149.4	152.3	153.8
115°	68.2	82.7	92.9	105.9	111.7	114.6	121.9	129.1	130.6	133.5
117.5°	55.1	68.2	78.3	88.5	94.3	97.2	103.0	108.8	111.7	113.2
120°	45.0	55.1	63.8	74.0	78.3	81.2	87.0	92.9	94.3	95.8
122.5°	36.3	45.0	52.2	60.9	65.3	68.2	72.5	76.9	78.3	79.8
125°	27.6	36.3	42.1	49.3	53.7	55.1	59.5	63.8	65.3	66.7
127.5°	21.8	27.6	33.4	39.2	42.1	43.5	47.9	50.8	52.2	53.7
130°	16.0	20.3	24.7	30.5	33.4	34.8	37.7	40.6	42.1	42.1
132.5°	11.6	16.0	18.9	23.2	24.7	26.1	29.0	31.9	31.9	33.4
135°	7.3	10.2	13.1	16.0	18.9	18.9	21.8	23.2	24.7	24.7
137.5°	5.8	7.3	8.7	11.6	13.1	14.5	14.5	17.4	17.4	17.4
140°	4.4	5.8	5.8	7.3	8.7	10.2	10.2	11.6	11.6	11.6
142.5°	2.9	4.4	4.4	5.8	5.8	7.3	7.3	7.3	8.7	8.7
145°	2.9	2.9	2.9	4.4	4.4	4.4	4.4	5.8	5.8	5.8
147.5°	1.5	1.5	2.9	2.9	2.9	2.9	2.9	4.4	4.4	4.4
150°	1.5	1.5	1.5	1.5	1.5	2.9	2.9	2.9	2.9	2.9
152.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
155°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
157.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
160°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
162.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
165°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
167.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
170°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
172.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0
177.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0
180°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9



TEST NUMBER: P894299
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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	19.25	20.79	19.72	21.24	21.73	20.82	22.36	21.29	22.81	23.30
	3H	20.93	22.33	21.41	22.80	23.32	23.45	24.85	23.93	25.32	25.84
	4H	21.52	22.85	22.03	23.34	23.88	24.76	26.09	25.26	26.57	27.11
	6H	21.92	23.16	22.44	23.66	24.22	26.16	27.40	26.68	27.90	28.46
	8H	22.04	23.23	22.57	23.75	24.31	26.91	28.10	27.44	28.62	29.18
	12H	22.12	23.26	22.65	23.77	24.36	27.76	28.90	28.30	29.42	30.01
4H	2H	20.18	21.51	20.68	21.99	22.53	21.37	22.70	21.88	23.19	23.73
	3H	22.16	23.29	22.67	23.82	24.38	24.29	25.42	24.81	25.95	26.52
	4H	22.93	23.97	23.47	24.51	25.11	25.81	26.85	26.35	27.39	27.99
	6H	23.51	24.43	24.07	25.00	25.61	27.46	28.38	28.01	28.94	29.55
	8H	23.69	24.56	24.26	25.13	25.75	28.34	29.20	28.90	29.77	30.39
	12H	23.82	24.61	24.40	25.20	25.83	29.34	30.13	29.92	30.72	31.35
8H	4H	23.81	24.68	24.37	25.24	25.86	26.17	27.04	26.74	27.60	28.23
	6H	24.69	25.43	25.29	26.03	26.66	28.08	28.81	28.67	29.42	30.05
	8H	25.04	25.71	25.65	26.32	26.96	29.16	29.82	29.76	30.44	31.08
	12H	25.31	25.91	25.92	26.51	27.22	30.42	31.02	31.03	31.62	32.33
12H	4H	24.09	24.88	24.67	25.47	26.10	26.22	27.00	26.80	27.60	28.22
	6H	25.14	25.81	25.75	26.42	27.06	28.18	28.85	28.79	29.47	30.11
	8H	25.66	26.26	26.27	26.86	27.57	29.38	29.98	29.99	30.58	31.29