

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: P894190

Luminaire Tested: 4MB-SC3-FLT-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

**Test Information**

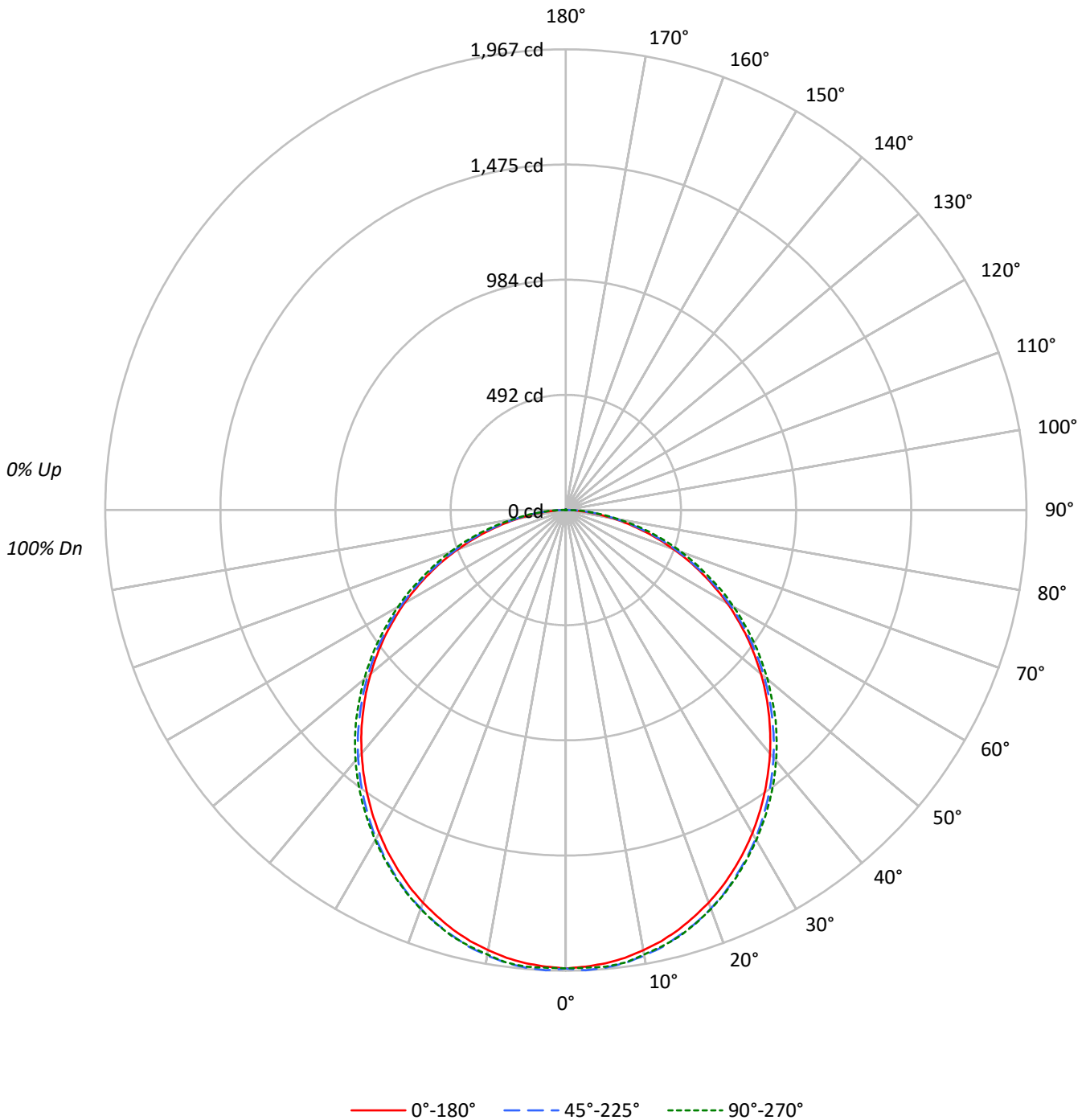
Test Method: LM-79-2019  
Report Number: P894190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-FLT-UNV-CC83-HI-4000K  
Description: Selectable 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 4000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5432.9 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34  
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

TEST NUMBER: P894190  
CATALOG NUMBER: 4MB-SC3-FLT-UNV-CC83-HI-4000K

### 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	86	86	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	40	40	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	32	32	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	29	29	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	26	26	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13925	13925	13925
5°	13876	14009	13979
10°	13788	13954	13923
15°	13667	13847	13868
20°	13506	13712	13724
25°	13307	13520	13554
30°	13089	13314	13372
35°	12843	13067	13179
40°	12602	12816	12975
45°	12326	12528	12745
50°	12038	12228	12449
55°	11712	11890	12139
60°	11336	11519	11784
65°	10830	11047	11337
70°	10193	10491	10969
75°	9374	9767	10400
80°	8277	8924	9391
85°	7135	8188	8776

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12745 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.1	3.4
10°-20°	527.5	9.7
20°-30°	790.5	14.6
30°-40°	940.6	17.3
40°-50°	965.1	17.8
50°-60°	864.6	15.9
60°-70°	657.0	12.1
70°-80°	381.8	7.0
80°-90°	114.6	2.1
90°-100°	2.7	0.1
100°-110°	0.5	0.0
110°-120°	0.0	0.0
120°-130°	0.2	0.0
130°-140°	0.6	0.0
140°-150°	0.8	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	1503.1	27.7
0°-40°	2443.7	45.0
0°-60°	4273.5	78.7
0°-90°	5426.8	99.9
90°-120°	3.2	0.1
90°-150°	4.8	0.1
90°-180°	6.0	0.1
0°-180°	5432.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1943	1976	1962	1951	1957	184
15°	1855	1891	1880	1877	1883	523
25°	1695	1734	1722	1719	1726	781
35°	1479	1514	1504	1509	1517	925
45°	1225	1255	1245	1255	1267	945
55°	944	967	958	970	979	843
65°	643	659	656	668	673	637
75°	341	354	355	368	378	362
85°	87	95	100	108	108	95
90°	1	6	6	10	9	6
95°	0	1	1	3	4	0
105°	0	0	0	1	1	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	1
135°	0	0	1	0	0	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	1	1	1	1	1
175°	3	3	3	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P894190  
 CATALOG NUMBER: 4MB-SC3-FLT-UNV-CC83-HI-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2
2.5°	1951.4	1948.6	1951.4	1950.0	1964.3	1981.5	1978.7	1965.8	1951.4	1955.7	1967.2
5°	1942.8	1941.4	1945.7	1942.8	1957.2	1975.8	1970.1	1958.6	1945.7	1950.0	1961.5
7.5°	1928.5	1928.5	1934.3	1931.4	1944.3	1962.9	1957.2	1947.1	1934.3	1938.5	1950.0
10°	1908.5	1909.9	1917.1	1912.8	1924.2	1944.3	1938.5	1928.5	1917.1	1919.9	1931.4
12.5°	1885.5	1885.5	1894.1	1889.8	1901.3	1919.9	1912.8	1905.6	1894.1	1897.0	1909.9
15°	1855.4	1856.9	1866.9	1862.6	1872.6	1891.3	1884.1	1878.4	1868.3	1869.8	1879.8
17.5°	1821.1	1825.4	1835.4	1831.1	1841.1	1859.7	1851.1	1845.4	1836.8	1838.3	1848.3
20°	1783.8	1788.1	1798.1	1795.3	1802.4	1821.1	1812.5	1809.6	1801.0	1802.4	1811.0
22.5°	1742.3	1746.6	1758.0	1755.2	1762.3	1780.9	1770.9	1769.5	1760.9	1762.3	1769.5
25°	1695.0	1700.7	1713.6	1710.7	1716.5	1733.7	1725.1	1722.2	1716.5	1716.5	1722.2
27.5°	1646.3	1652.0	1666.3	1662.0	1666.3	1684.9	1674.9	1673.5	1667.8	1667.8	1673.5
30°	1593.2	1599.0	1614.7	1610.4	1614.7	1630.5	1620.5	1621.9	1616.2	1616.2	1620.5
32.5°	1537.4	1541.7	1558.9	1556.0	1558.9	1574.6	1564.6	1566.0	1560.3	1561.7	1563.2
35°	1478.6	1482.9	1501.6	1498.7	1500.1	1514.4	1507.3	1507.3	1503.0	1501.6	1504.4
37.5°	1418.5	1422.7	1445.7	1438.5	1438.5	1452.8	1447.1	1447.1	1442.8	1441.4	1442.8
40°	1356.8	1359.7	1384.1	1376.9	1375.5	1388.4	1384.1	1384.1	1381.2	1378.3	1379.8
42.5°	1292.4	1296.7	1321.0	1315.3	1309.6	1323.9	1319.6	1321.0	1316.7	1313.9	1313.9
45°	1225.0	1229.3	1253.7	1250.8	1242.2	1255.1	1250.8	1253.7	1247.9	1245.1	1245.1
47.5°	1157.7	1163.4	1186.3	1182.0	1173.4	1186.3	1182.0	1184.9	1179.2	1176.3	1176.3
50°	1087.5	1093.2	1117.6	1110.4	1101.8	1114.7	1111.8	1113.3	1109.0	1106.1	1104.7
52.5°	1015.8	1023.0	1045.9	1037.3	1030.2	1041.6	1040.2	1041.6	1035.9	1034.5	1033.0
55°	944.2	951.4	972.9	962.8	957.1	967.1	964.3	967.1	961.4	960.0	958.5
57.5°	869.7	876.9	896.9	886.9	882.6	891.2	889.8	891.2	886.9	885.5	884.0
60°	796.6	802.4	821.0	811.0	806.7	815.3	812.4	816.7	811.0	811.0	809.5
62.5°	719.3	726.4	745.0	733.6	730.7	737.9	735.0	739.3	736.4	733.6	732.1
65°	643.3	647.6	664.8	654.8	650.5	659.1	657.6	660.5	656.2	657.6	656.2
67.5°	567.4	570.2	587.4	576.0	573.1	581.7	583.1	581.7	578.8	580.3	578.8
70°	490.0	492.9	507.2	497.2	495.7	502.9	505.8	504.3	501.5	502.9	504.3
72.5°	415.5	416.9	429.8	421.2	419.8	428.4	428.4	428.4	428.4	428.4	431.3
75°	341.0	342.4	353.9	346.7	345.3	353.9	353.9	353.9	353.9	356.8	355.3
77.5°	269.4	267.9	279.4	275.1	272.2	280.8	280.8	282.3	285.1	288.0	283.7
80°	202.0	200.6	209.2	203.5	203.5	212.1	210.6	212.1	214.9	216.3	217.8
82.5°	141.8	139.0	146.1	144.7	143.3	150.4	151.9	150.4	154.7	156.2	156.2
85°	87.4	87.4	91.7	88.8	88.8	94.6	94.6	96.0	98.9	100.3	100.3
87.5°	41.6	40.1	44.4	43.0	41.6	45.8	45.8	47.3	48.7	50.1	48.7
90°	1.4	1.4	2.9	2.9	2.9	5.7	5.7	5.7	7.2	7.2	5.7
92.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	2.9	2.9	2.9	2.9
95°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	1.4
132.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
135°	0.0	1.4	1.4	1.4	1.4	0.0	1.4	0.0	0.0	0.0	1.4
137.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
140°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
142.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
145°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
147.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
150°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
152.5°	1.4	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	1.4
157.5°	1.4	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	1.4
162.5°	1.4	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	1.4
167.5°	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	1.4	1.4
170°	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	1.4	1.4
172.5°	2.9	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	1.4	1.4
175°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	1.4	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°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2	1957.2
2.5°	1950.0	1940.0	1935.7	1938.5	1958.6	1938.5	1960.0	1967.2	1941.4	1955.7
5°	1944.3	1934.3	1928.5	1931.4	1951.4	1932.8	1955.7	1964.3	1942.8	1957.2
7.5°	1932.8	1921.4	1918.5	1922.8	1940.0	1924.2	1947.1	1955.7	1934.3	1948.6
10°	1915.6	1905.6	1902.7	1907.0	1922.8	1907.0	1927.1	1934.3	1914.2	1927.1
12.5°	1894.1	1884.1	1881.2	1887.0	1901.3	1887.0	1907.0	1914.2	1894.1	1907.0
15°	1866.9	1856.9	1855.4	1864.0	1876.9	1864.0	1884.1	1889.8	1869.8	1882.7
17.5°	1834.0	1823.9	1825.4	1835.4	1845.4	1834.0	1852.6	1858.3	1839.7	1849.7
20°	1798.1	1786.7	1789.5	1798.1	1806.7	1795.3	1813.9	1819.6	1802.4	1812.5
22.5°	1756.6	1745.1	1748.0	1758.0	1763.7	1753.7	1770.9	1776.6	1762.3	1772.3
25°	1710.7	1700.7	1705.0	1715.0	1719.3	1710.7	1726.5	1730.8	1717.9	1726.5
27.5°	1664.9	1653.4	1659.2	1669.2	1672.1	1663.5	1679.2	1682.1	1669.2	1677.8
30°	1613.3	1601.8	1609.0	1620.5	1620.5	1614.7	1627.6	1630.5	1620.5	1627.6
32.5°	1556.0	1547.4	1556.0	1566.0	1564.6	1560.3	1573.2	1576.1	1567.5	1573.2
35°	1498.7	1491.5	1500.1	1510.1	1508.7	1504.4	1517.3	1518.7	1511.6	1517.3
37.5°	1439.9	1434.2	1442.8	1451.4	1448.5	1445.7	1457.1	1457.1	1452.8	1458.6
40°	1379.8	1374.0	1381.2	1391.2	1385.5	1385.5	1392.7	1395.5	1391.2	1397.0
42.5°	1316.7	1311.0	1319.6	1328.2	1322.5	1321.0	1329.6	1331.1	1328.2	1332.5
45°	1250.8	1245.1	1253.7	1260.8	1255.1	1255.1	1262.3	1262.3	1260.8	1266.6
47.5°	1183.5	1179.2	1186.3	1193.5	1187.8	1192.1	1192.1	1192.1	1194.9	1193.5
50°	1114.7	1110.4	1116.1	1124.7	1117.6	1119.0	1121.9	1121.9	1123.3	1124.7
52.5°	1043.1	1037.3	1043.1	1053.1	1043.1	1047.4	1048.8	1050.2	1054.5	1051.7
55°	971.4	965.7	971.4	980.0	970.0	975.7	975.7	977.2	981.5	978.6
57.5°	896.9	891.2	899.8	905.5	895.5	901.2	901.2	904.1	906.9	902.7
60°	822.4	818.1	821.0	831.0	821.0	826.7	826.7	826.7	832.4	828.1
62.5°	746.5	743.6	746.5	755.1	745.0	750.8	749.3	750.8	756.5	755.1
65°	669.1	666.2	669.1	677.7	667.7	673.4	673.4	674.8	679.1	673.4
67.5°	593.2	588.9	593.2	600.3	591.7	596.0	596.0	596.0	603.2	600.3
70°	515.8	512.9	515.8	523.0	515.8	518.7	518.7	518.7	525.8	527.3
72.5°	439.9	439.9	442.7	448.5	442.7	448.5	444.2	441.3	451.3	452.8
75°	365.4	366.8	368.2	374.0	368.2	374.0	371.1	368.2	376.8	378.3
77.5°	296.6	296.6	298.0	302.3	298.0	302.3	299.5	299.5	305.2	303.7
80°	226.4	226.4	227.8	232.1	227.8	232.1	229.2	229.2	235.0	229.2
82.5°	164.8	164.8	164.8	169.1	166.2	169.1	167.6	164.8	171.9	166.2
85°	106.0	107.5	107.5	108.9	107.5	108.9	108.9	107.5	111.8	107.5
87.5°	54.4	54.4	54.4	55.9	54.4	54.4	55.9	54.4	57.3	55.9
90°	10.0	8.6	8.6	11.5	10.0	10.0	11.5	8.6	10.0	8.6
92.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7
95°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	4.3
97.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.9	2.9
100°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
102.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
105°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	1.4	1.4
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4





TEST NUMBER: P894190  
 CATALOG NUMBER: 4MB-SC3-FLT-UNV-CC83-HI-4000K

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	1.4	1.4	1.4	1.4	0.0	1.4	0.0	0.0	0.0	0.0
140°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
142.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
145°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
147.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
150°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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	1.4
177.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



TEST NUMBER: P894190  
 CATALOG NUMBER: 4MB-SC3-FLT-UNV-CC83-HI-4000K

**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	20.66	22.29	21.02	22.61	22.93	20.79	22.43	21.16	22.75	23.06
	3H	22.48	23.96	22.86	24.29	24.65	22.63	24.11	23.00	24.44	24.80
	4H	23.14	24.54	23.54	24.89	25.26	23.33	24.73	23.73	25.08	25.46
	6H	23.59	24.89	24.01	25.25	25.65	23.89	25.19	24.30	25.55	25.95
	8H	23.73	24.97	24.16	25.36	25.76	24.09	25.32	24.51	25.71	26.11
	12H	23.83	25.01	24.26	25.40	25.83	24.23	25.41	24.66	25.80	26.23
4H	2H	21.29	22.69	21.69	23.04	23.41	21.40	22.79	21.80	23.14	23.52
	3H	23.33	24.50	23.74	24.90	25.31	23.47	24.64	23.88	25.04	25.44
	4H	24.13	25.19	24.56	25.60	26.04	24.31	25.37	24.74	25.79	26.23
	6H	24.70	25.63	25.16	26.07	26.53	25.00	25.93	25.46	26.37	26.83
	8H	24.89	25.76	25.35	26.20	26.67	25.25	26.12	25.71	26.56	27.03
	12H	25.03	25.82	25.52	26.29	26.76	25.44	26.22	25.92	26.70	27.17
8H	4H	24.45	25.32	24.92	25.77	26.24	24.62	25.49	25.08	25.93	26.40
	6H	25.16	25.88	25.65	26.37	26.85	25.45	26.17	25.94	26.66	27.14
	8H	25.42	26.07	25.93	26.58	27.07	25.78	26.43	26.29	26.93	27.42
	12H	25.64	26.21	26.14	26.70	27.27	26.06	26.64	26.57	27.13	27.69
12H	4H	24.50	25.28	24.98	25.76	26.23	24.65	25.43	25.13	25.91	26.38
	6H	25.23	25.88	25.74	26.39	26.87	25.50	26.15	26.01	26.66	27.15
	8H	25.55	26.13	26.06	26.62	27.18	25.90	26.47	26.40	26.96	27.53