

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: P895409

Luminaire Tested: 8TMB-SC3-FLTU-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-FLTU-UNV-CC83-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

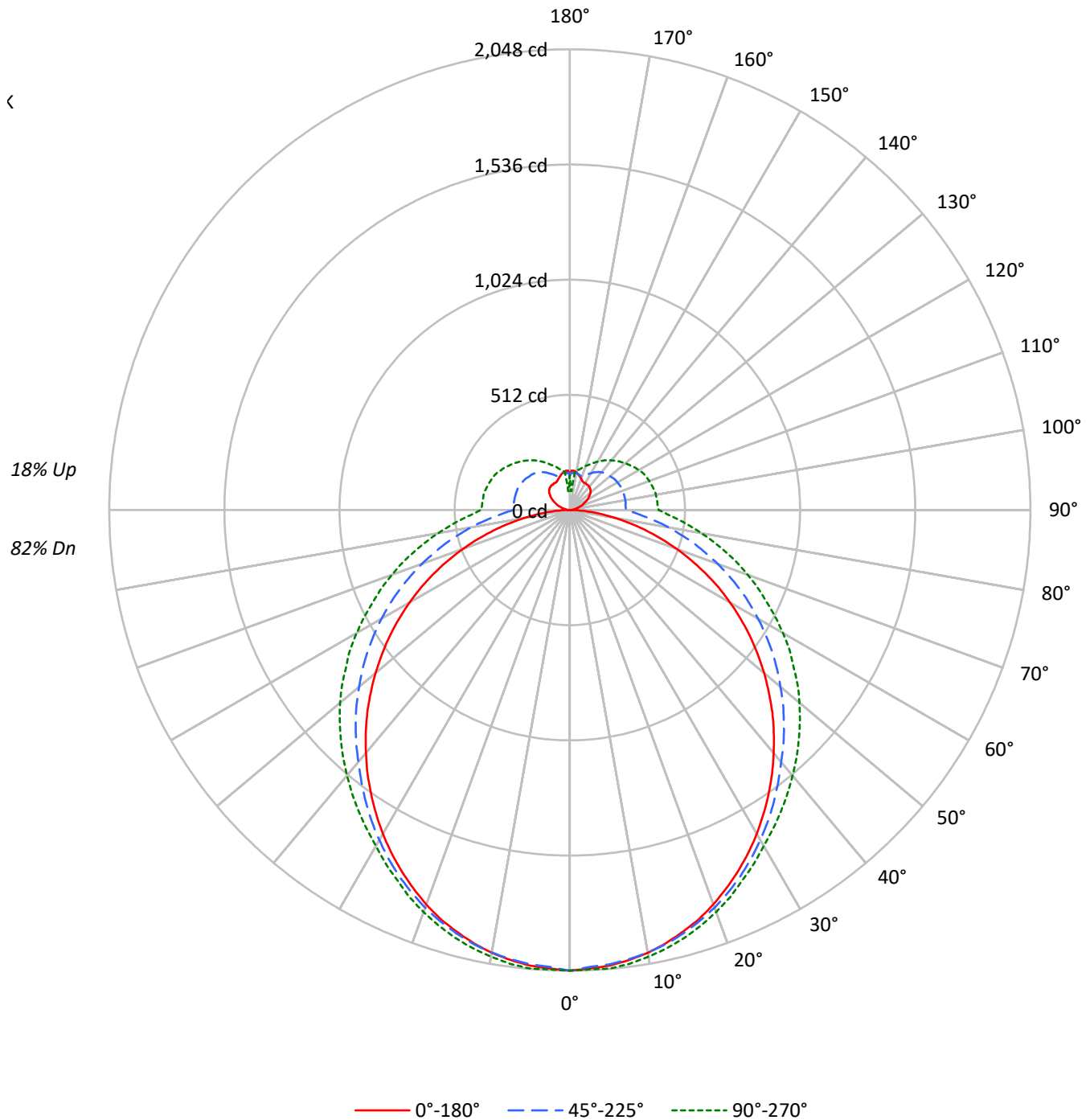
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7741.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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				
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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7265	7265	7265
5°	7223	6972	6953
10°	7169	6715	6623
15°	7080	6455	6307
20°	6980	6189	5987
25°	6850	5910	5662
30°	6710	5623	5366
35°	6555	5336	5122
40°	6391	5052	4889
45°	6228	4805	4668
50°	6036	4550	4452
55°	5832	4299	4212
60°	5586	4028	3983
65°	5293	3743	3724
70°	4906	3430	3484
75°	4368	3109	3224
80°	3661	2765	2958
85°	2756	2416	2715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	2.5
10°-20°	552.3	7.1
20°-30°	829.7	10.7
30°-40°	996.3	12.9
40°-50°	1047.7	13.5
50°-60°	984.3	12.7
60°-70°	818.5	10.6
70°-80°	584.1	7.5
80°-90°	347.7	4.5
90°-100°	251.7	3.3
100°-110°	248.3	3.2
110°-120°	233.2	3.0
120°-130°	206.7	2.7
130°-140°	171.3	2.2
140°-150°	128.2	1.7
150°-160°	84.3	1.1
160°-170°	47.8	0.6
170°-180°	15.2	0.2
0°-30°	1575.6	20.4
0°-40°	2572.0	33.2
0°-60°	4604.0	59.5
0°-90°	6354.2	82.1
90°-120°	733.2	9.5
90°-150°	1239.4	16.0
90°-180°	1387.0	17.9
0°-180°	7741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2033	2057	2027	2033	2046	193
15°	1941	1971	1948	1962	1969	548
25°	1771	1804	1795	1812	1816	816
35°	1541	1576	1582	1621	1636	964
45°	1274	1309	1346	1416	1440	982
55°	978	1017	1098	1187	1214	874
65°	666	720	834	939	965	659
75°	350	428	570	681	716	371
85°	88	193	335	447	484	96
90°	0	110	249	357	395	6
95°	9	116	249	353	391	11
105°	36	129	251	350	383	38
115°	69	140	249	335	368	69
125°	105	150	241	314	338	93
135°	129	157	228	286	307	99
145°	136	153	206	254	269	86
155°	138	155	174	215	228	65
165°	159	168	163	165	191	45
175°	176	174	165	140	84	17
180°	153	153	153	153	153	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6
2.5°	2040.1	2045.8	2047.6	2066.3	2058.8	2066.3	2053.2	2038.3	2034.5	2043.9	2032.7
5°	2032.7	2038.3	2040.1	2058.8	2051.4	2057.0	2045.8	2030.8	2027.1	2038.3	2027.1
7.5°	2017.7	2023.3	2025.2	2045.8	2036.4	2043.9	2030.8	2015.8	2014.0	2025.2	2014.0
10°	1999.0	2004.6	2006.5	2025.2	2017.7	2025.2	2012.1	1997.1	1995.3	2008.4	1997.1
12.5°	1972.8	1978.4	1982.2	2000.9	1991.5	2000.9	1985.9	1971.0	1972.8	1984.0	1976.6
15°	1941.0	1948.5	1950.4	1969.1	1961.6	1971.0	1956.0	1941.0	1944.8	1956.0	1948.5
17.5°	1907.4	1914.9	1916.7	1933.6	1926.1	1937.3	1920.5	1907.4	1911.1	1922.3	1916.7
20°	1866.2	1873.7	1877.5	1894.3	1886.8	1898.0	1881.2	1870.0	1873.7	1886.8	1881.2
22.5°	1819.5	1830.7	1832.6	1851.3	1841.9	1853.1	1836.3	1827.0	1832.6	1845.7	1840.1
25°	1770.9	1782.1	1784.0	1802.7	1795.2	1804.5	1787.7	1778.3	1785.8	1798.9	1795.2
27.5°	1718.5	1729.7	1733.5	1750.3	1742.8	1754.0	1735.3	1729.7	1737.2	1750.3	1746.6
30°	1662.4	1673.6	1675.5	1692.3	1686.7	1697.9	1681.1	1673.6	1684.8	1697.9	1694.2
32.5°	1602.6	1613.8	1619.4	1634.4	1628.8	1638.1	1623.1	1619.4	1628.8	1641.8	1640.0
35°	1540.9	1552.1	1557.7	1574.5	1567.0	1576.4	1561.4	1557.7	1572.7	1582.0	1582.0
37.5°	1477.3	1488.5	1494.1	1510.9	1501.6	1512.8	1497.9	1496.0	1512.8	1522.2	1522.2
40°	1410.0	1423.1	1428.7	1443.6	1436.1	1445.5	1432.4	1434.3	1449.2	1460.5	1462.3
42.5°	1342.6	1355.7	1361.3	1378.2	1368.8	1378.2	1367.0	1368.8	1385.7	1396.9	1406.2
45°	1273.5	1284.7	1290.3	1309.0	1297.8	1309.0	1297.8	1301.5	1318.3	1335.2	1346.4
47.5°	1200.5	1211.7	1221.1	1236.1	1226.7	1236.1	1228.6	1234.2	1254.8	1271.6	1286.5
50°	1127.6	1138.8	1148.2	1161.3	1151.9	1165.0	1155.6	1163.1	1189.3	1206.1	1223.0
52.5°	1052.8	1062.1	1077.1	1084.6	1077.1	1092.1	1084.6	1095.8	1122.0	1142.6	1161.3
55°	978.0	987.3	1002.3	1007.9	1000.4	1017.3	1011.7	1026.6	1054.7	1077.1	1097.7
57.5°	901.3	910.7	923.8	929.4	923.8	942.5	940.6	957.4	985.5	1009.8	1032.2
60°	822.8	832.1	843.4	849.0	849.0	867.7	867.7	888.2	918.2	940.6	966.8
62.5°	746.1	751.7	763.0	770.4	776.0	794.7	794.7	817.2	849.0	875.1	901.3
65°	665.7	671.3	680.7	690.0	699.4	719.9	721.8	746.1	777.9	804.1	834.0
67.5°	585.3	590.9	600.3	611.5	624.6	645.1	648.9	675.1	708.7	738.6	766.7
70°	506.8	508.6	519.9	534.8	549.8	570.3	576.0	604.0	639.5	669.5	699.4
72.5°	428.2	430.1	441.3	460.0	476.8	499.3	506.8	536.7	572.2	602.1	632.1
75°	349.7	351.6	366.5	389.0	407.7	428.2	437.6	469.4	504.9	536.7	570.3
77.5°	274.9	278.6	293.6	316.0	338.5	362.8	372.1	403.9	443.2	473.1	504.9
80°	205.7	209.4	226.3	250.6	274.9	297.3	308.5	340.3	381.5	411.4	446.9
82.5°	142.1	147.7	168.3	194.5	218.8	243.1	254.3	284.2	321.6	355.3	389.0
85°	87.9	95.4	115.9	144.0	170.2	192.6	203.8	235.6	271.1	302.9	334.7
87.5°	41.1	52.4	72.9	101.0	129.0	147.7	160.8	192.6	226.3	258.1	289.8
90°	0.0	16.8	37.4	65.4	93.5	110.3	125.3	155.2	188.9	218.8	248.7
92.5°	3.7	18.7	41.1	67.3	95.4	112.2	127.2	157.1	188.9	218.8	248.7
95°	9.3	20.6	43.0	71.1	99.1	115.9	129.0	158.9	190.7	220.7	248.7
97.5°	16.8	26.2	48.6	74.8	102.8	117.8	132.8	162.7	192.6	222.5	250.6
100°	22.4	29.9	52.4	78.5	106.6	121.5	136.5	164.6	194.5	224.4	250.6
102.5°	28.0	37.4	58.0	82.3	110.3	125.3	138.4	166.4	196.3	224.4	250.6
105°	35.5	43.0	61.7	87.9	114.1	129.0	142.1	170.2	198.2	226.3	250.6
107.5°	43.0	48.6	67.3	91.6	117.8	130.9	144.0	172.0	200.1	226.3	250.6
110°	52.4	56.1	72.9	95.4	119.7	134.6	147.7	173.9	200.1	226.3	250.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	61.7	61.7	78.5	99.1	123.4	136.5	149.6	175.8	202.0	226.3	250.6
115°	69.2	71.1	84.1	102.8	127.2	140.2	151.5	175.8	202.0	226.3	248.7
117.5°	78.5	78.5	91.6	106.6	129.0	142.1	155.2	177.6	202.0	224.4	246.8
120°	87.9	86.0	97.2	112.2	132.8	144.0	157.1	179.5	202.0	224.4	245.0
122.5°	97.2	93.5	101.0	115.9	134.6	147.7	157.1	179.5	202.0	222.5	243.1
125°	104.7	101.0	106.6	121.5	138.4	149.6	158.9	179.5	202.0	220.7	241.2
127.5°	112.2	108.5	114.1	125.3	140.2	149.6	160.8	179.5	202.0	218.8	237.5
130°	119.7	114.1	121.5	129.0	144.0	151.5	160.8	179.5	200.1	216.9	233.7
132.5°	125.3	119.7	127.2	132.8	145.9	153.3	162.7	179.5	198.2	215.0	231.9
135°	129.0	123.4	132.8	136.5	149.6	157.1	164.6	179.5	196.3	213.2	228.1
137.5°	132.8	125.3	136.5	140.2	151.5	158.9	164.6	177.6	194.5	209.4	224.4
140°	134.6	129.0	140.2	144.0	149.6	157.1	164.6	175.8	190.7	205.7	218.8
142.5°	136.5	129.0	142.1	145.9	149.6	155.2	162.7	172.0	187.0	200.1	213.2
145°	136.5	130.9	142.1	145.9	149.6	153.3	158.9	170.2	181.4	192.6	205.7
147.5°	136.5	132.8	144.0	147.7	151.5	151.5	155.2	166.4	175.8	187.0	198.2
150°	138.4	132.8	144.0	147.7	153.3	153.3	155.2	160.8	172.0	179.5	188.9
152.5°	136.5	134.6	142.1	149.6	153.3	155.2	155.2	157.1	166.4	173.9	181.4
155°	138.4	138.4	144.0	153.3	155.2	155.2	157.1	155.2	158.9	166.4	173.9
157.5°	142.1	145.9	145.9	155.2	158.9	158.9	160.8	158.9	157.1	158.9	166.4
160°	147.7	151.5	151.5	157.1	162.7	162.7	164.6	162.7	160.8	158.9	158.9
162.5°	153.3	157.1	157.1	158.9	164.6	166.4	168.3	166.4	164.6	160.8	158.9
165°	158.9	162.7	162.7	162.7	166.4	168.3	170.2	168.3	168.3	164.6	162.7
167.5°	164.6	168.3	168.3	166.4	168.3	170.2	172.0	170.2	170.2	168.3	164.6
170°	170.2	173.9	173.9	170.2	172.0	172.0	173.9	172.0	172.0	168.3	166.4
172.5°	173.9	177.6	175.8	173.9	173.9	173.9	173.9	172.0	170.2	166.4	166.4
175°	175.8	179.5	179.5	175.8	173.9	173.9	175.8	172.0	170.2	168.3	164.6
177.5°	175.8	179.5	179.5	175.8	175.8	173.9	175.8	173.9	173.9	170.2	166.4
180°	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6	2047.6
2.5°	2040.1	2038.3	2027.1	2040.1	2040.1	2036.4	2051.4	2049.5	2047.6	2043.9
5°	2032.7	2030.8	2019.6	2032.7	2032.7	2030.8	2045.8	2047.6	2049.5	2045.8
7.5°	2021.4	2019.6	2008.4	2021.4	2021.4	2019.6	2036.4	2038.3	2040.1	2034.5
10°	2004.6	2002.7	1991.5	2004.6	2006.5	2004.6	2017.7	2019.6	2023.3	2015.8
12.5°	1982.2	1982.2	1971.0	1984.0	1985.9	1984.0	1997.1	2000.9	2004.6	1995.3
15°	1954.1	1956.0	1946.6	1959.7	1961.6	1961.6	1974.7	1976.6	1982.2	1969.1
17.5°	1920.5	1924.2	1916.7	1929.8	1931.7	1933.6	1941.0	1946.6	1952.3	1937.3
20°	1884.9	1886.8	1881.2	1892.4	1896.2	1894.3	1903.6	1911.1	1916.7	1901.8
22.5°	1841.9	1843.8	1838.2	1849.4	1853.1	1855.0	1862.5	1871.8	1875.6	1862.5
25°	1793.3	1800.8	1797.0	1808.3	1812.0	1812.0	1819.5	1828.8	1834.4	1815.7
27.5°	1746.6	1755.9	1752.2	1763.4	1767.1	1769.0	1772.7	1784.0	1789.6	1772.7
30°	1694.2	1705.4	1703.5	1714.8	1718.5	1716.6	1724.1	1735.3	1742.8	1724.1
32.5°	1636.2	1651.2	1649.3	1664.3	1668.0	1669.9	1675.5	1690.5	1697.9	1681.1
35°	1580.1	1597.0	1598.8	1615.7	1621.3	1623.1	1630.6	1645.6	1653.1	1636.2
37.5°	1522.2	1544.6	1550.2	1567.0	1572.7	1574.5	1582.0	1598.8	1606.3	1589.5
40°	1466.1	1492.2	1499.7	1514.7	1520.3	1525.9	1531.5	1548.3	1557.7	1540.9
42.5°	1410.0	1438.0	1447.4	1462.3	1467.9	1473.5	1481.0	1499.7	1507.2	1492.2
45°	1352.0	1381.9	1393.1	1408.1	1415.6	1421.2	1428.7	1445.5	1454.8	1439.9
47.5°	1294.0	1323.9	1335.2	1352.0	1359.5	1367.0	1372.6	1393.1	1402.5	1387.5
50°	1232.3	1266.0	1279.1	1294.0	1305.2	1310.9	1318.3	1337.0	1346.4	1333.3
52.5°	1170.6	1206.1	1221.1	1236.1	1247.3	1256.6	1260.4	1280.9	1290.3	1277.2
55°	1107.0	1142.6	1159.4	1176.2	1187.4	1198.7	1202.4	1223.0	1232.3	1213.6
57.5°	1043.4	1080.8	1097.7	1116.4	1125.7	1138.8	1144.4	1163.1	1172.5	1159.4
60°	979.9	1015.4	1036.0	1052.8	1065.9	1077.1	1080.8	1101.4	1110.8	1093.9
62.5°	914.4	951.8	972.4	991.1	1002.3	1015.4	1021.0	1039.7	1047.2	1030.4
65°	847.1	884.5	906.9	923.8	938.7	949.9	953.7	974.3	981.7	964.9
67.5°	779.8	817.2	841.5	860.2	873.3	886.4	890.1	910.7	918.2	905.1
70°	714.3	751.7	776.0	798.5	807.8	820.9	826.5	845.2	852.7	841.5
72.5°	648.9	686.3	712.5	734.9	744.3	757.3	764.8	779.8	791.0	781.7
75°	585.3	622.7	648.9	671.3	680.7	693.8	701.2	716.2	723.7	716.2
77.5°	523.6	561.0	585.3	607.7	619.0	630.2	637.7	652.6	662.0	654.5
80°	463.8	501.2	525.5	546.0	557.3	568.5	576.0	592.8	600.3	594.7
82.5°	407.7	443.2	469.4	489.9	501.2	512.4	519.9	534.8	544.2	536.7
85°	357.2	392.7	417.0	437.6	446.9	458.1	465.6	480.6	488.1	484.3
87.5°	308.5	340.3	368.4	389.0	398.3	409.5	418.9	430.1	439.4	433.8
90°	271.1	299.2	325.4	345.9	357.2	368.4	379.6	390.8	398.3	394.6
92.5°	273.0	299.2	323.5	342.2	353.4	364.6	375.9	389.0	394.6	390.8
95°	273.0	299.2	323.5	342.2	353.4	364.6	375.9	389.0	394.6	390.8
97.5°	273.0	299.2	323.5	342.2	353.4	364.6	375.9	389.0	394.6	389.0
100°	273.0	299.2	323.5	342.2	353.4	362.8	374.0	387.1	392.7	389.0
102.5°	273.0	299.2	321.6	340.3	351.6	360.9	372.1	385.2	390.8	387.1
105°	273.0	297.3	321.6	338.5	349.7	359.0	370.3	381.5	387.1	383.3
107.5°	271.1	295.5	317.9	336.6	345.9	355.3	366.5	377.7	383.3	379.6
110°	271.1	293.6	316.0	332.9	342.2	351.6	362.8	374.0	379.6	375.9



TEST NUMBER: P895409

CATALOG NUMBER: 8TMB-SC3-FLTU-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	269.3	291.7	314.2	329.1	338.5	347.8	357.2	370.3	375.9	372.1
115°	267.4	289.8	310.4	325.4	334.7	342.2	353.4	366.5	370.3	368.4
117.5°	265.5	286.1	306.7	321.6	331.0	338.5	347.8	359.0	364.6	362.8
120°	263.7	282.4	302.9	316.0	325.4	332.9	340.3	351.6	357.2	353.4
122.5°	259.9	278.6	299.2	312.3	319.8	327.2	334.7	344.1	349.7	347.8
125°	256.2	274.9	293.6	306.7	314.2	319.8	327.2	336.6	340.3	338.5
127.5°	252.4	271.1	288.0	299.2	308.5	314.2	319.8	329.1	332.9	331.0
130°	248.7	265.5	282.4	293.6	301.1	306.7	312.3	321.6	323.5	323.5
132.5°	245.0	259.9	276.8	288.0	295.5	299.2	304.8	312.3	316.0	314.2
135°	241.2	254.3	271.1	280.5	286.1	291.7	297.3	304.8	306.7	306.7
137.5°	235.6	248.7	263.7	273.0	278.6	282.4	288.0	295.5	297.3	297.3
140°	230.0	243.1	256.2	263.7	271.1	274.9	278.6	286.1	288.0	288.0
142.5°	224.4	235.6	248.7	256.2	263.7	265.5	271.1	276.8	278.6	278.6
145°	216.9	230.0	241.2	248.7	254.3	256.2	261.8	267.4	267.4	269.3
147.5°	207.6	218.8	233.7	239.4	245.0	246.8	252.4	256.2	258.1	258.1
150°	198.2	209.4	222.5	231.9	237.5	239.4	241.2	246.8	246.8	248.7
152.5°	188.9	198.2	211.3	220.7	228.1	230.0	231.9	235.6	235.6	237.5
155°	179.5	187.0	198.2	207.6	215.0	218.8	222.5	226.3	226.3	228.1
157.5°	172.0	179.5	188.9	196.3	202.0	207.6	213.2	216.9	216.9	216.9
160°	162.7	168.3	177.6	183.3	190.7	194.5	203.8	207.6	207.6	209.4
162.5°	157.1	158.9	164.6	170.2	175.8	179.5	188.9	198.2	198.2	200.1
165°	158.9	157.1	158.9	160.8	164.6	166.4	172.0	185.1	188.9	190.7
167.5°	162.7	157.1	157.1	157.1	160.8	160.8	166.4	173.9	187.0	183.3
170°	162.7	157.1	153.3	153.3	155.2	153.3	157.1	162.7	170.2	177.6
172.5°	164.6	158.9	153.3	145.9	147.7	145.9	142.1	142.1	144.0	168.3
175°	162.7	158.9	151.5	142.1	140.2	134.6	123.4	114.1	108.5	84.1
177.5°	160.8	155.2	149.6	142.1	138.4	132.8	119.7	104.7	89.8	86.0
180°	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3



TEST NUMBER: P895409
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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	14.60	15.92	15.21	16.55	17.27	17.23	18.55	17.84	19.18	19.90
	3H	16.00	17.20	16.63	17.84	18.60	19.69	20.89	20.32	21.53	22.29
	4H	16.43	17.57	17.08	18.22	18.99	20.86	21.99	21.50	22.65	23.42
	6H	16.67	17.72	17.33	18.39	19.17	22.04	23.09	22.70	23.76	24.54
	8H	16.71	17.72	17.38	18.41	19.19	22.63	23.64	23.30	24.33	25.12
	12H	16.72	17.69	17.40	18.37	19.19	23.26	24.23	23.94	24.91	25.73
4H	2H	15.50	16.64	16.15	17.29	18.06	17.57	18.71	18.22	19.36	20.13
	3H	17.12	18.09	17.79	18.78	19.57	20.23	21.20	20.90	21.89	22.68
	4H	17.68	18.56	18.36	19.26	20.08	21.55	22.44	22.23	23.13	23.95
	6H	18.02	18.79	18.71	19.51	20.34	22.90	23.68	23.60	24.40	25.23
	8H	18.09	18.82	18.79	19.54	20.38	23.59	24.32	24.30	25.04	25.88
	12H	18.12	18.78	18.85	19.53	20.37	24.34	25.01	25.07	25.75	26.60
8H	4H	18.34	19.07	19.04	19.79	20.63	21.70	22.43	22.40	23.15	23.99
	6H	18.84	19.46	19.58	20.22	21.06	23.19	23.81	23.93	24.57	25.41
	8H	19.00	19.55	19.74	20.32	21.17	24.00	24.56	24.75	25.32	26.18
	12H	19.09	19.58	19.84	20.34	21.25	24.91	25.41	25.66	26.16	27.08
12H	4H	18.51	19.17	19.24	19.92	20.76	21.69	22.35	22.41	23.09	23.94
	6H	19.11	19.67	19.85	20.43	21.28	23.21	23.76	23.95	24.53	25.38
	8H	19.34	19.84	20.09	20.59	21.51	24.07	24.56	24.82	25.32	26.23