

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: P895410

Luminaire Tested: 8TMB-SC3-FLTU-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895410
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

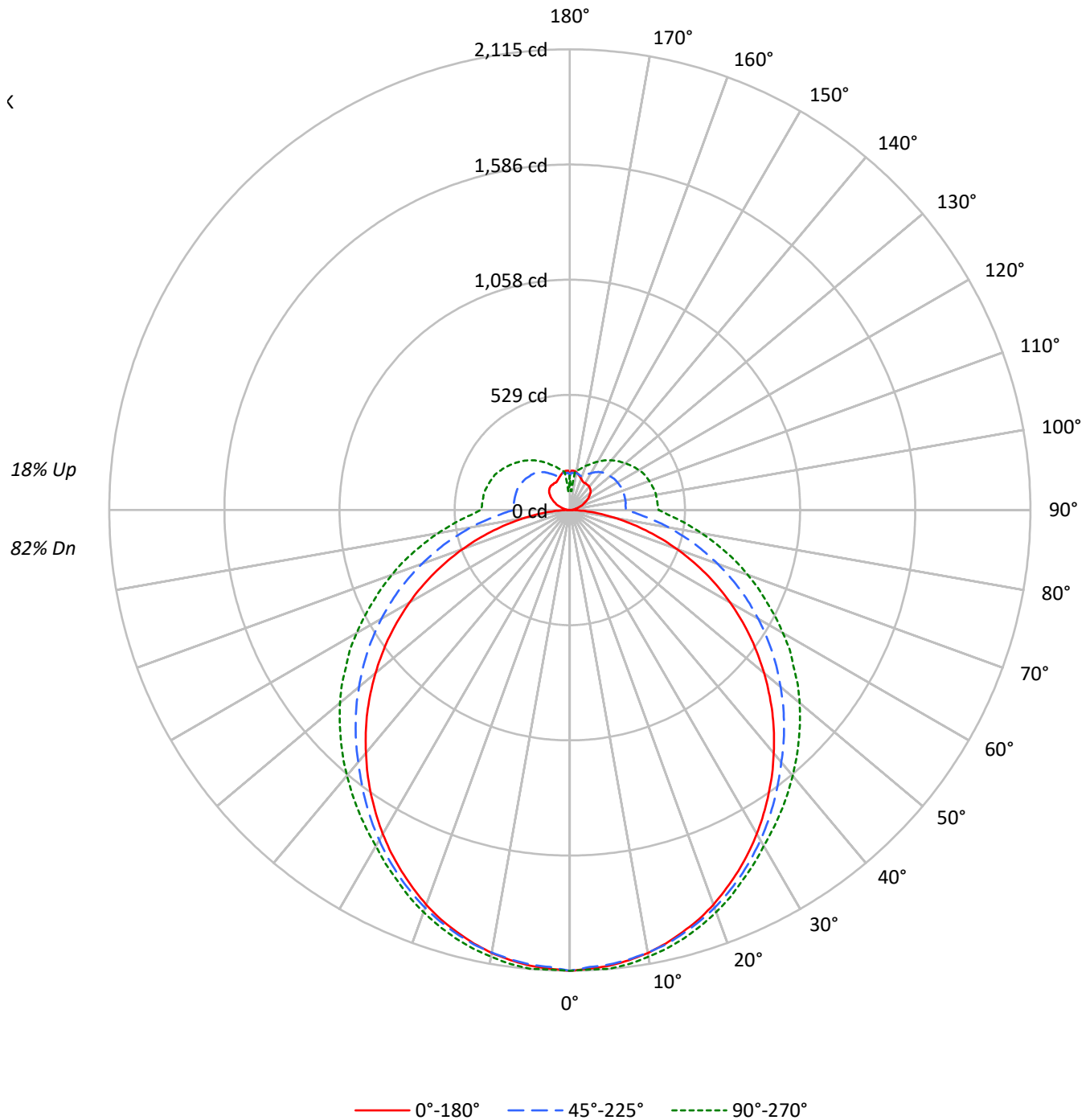
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7997.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

TEST NUMBER: P895410
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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°	7505	7505	7505
5°	7462	7203	7183
10°	7406	6937	6842
15°	7315	6669	6516
20°	7211	6393	6185
25°	7076	6105	5849
30°	6932	5809	5544
35°	6771	5512	5291
40°	6602	5219	5051
45°	6433	4964	4822
50°	6236	4700	4600
55°	6025	4441	4351
60°	5771	4162	4115
65°	5468	3867	3848
70°	5067	3543	3599
75°	4513	3212	3331
80°	3782	2857	3056
85°	2847	2496	2804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6433 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	2.5
10°-20°	570.6	7.1
20°-30°	857.2	10.7
30°-40°	1029.3	12.9
40°-50°	1082.3	13.5
50°-60°	1016.9	12.7
60°-70°	845.6	10.6
70°-80°	603.4	7.5
80°-90°	359.2	4.5
90°-100°	260.0	3.3
100°-110°	256.5	3.2
110°-120°	241.0	3.0
120°-130°	213.5	2.7
130°-140°	177.0	2.2
140°-150°	132.5	1.7
150°-160°	87.1	1.1
160°-170°	49.4	0.6
170°-180°	15.8	0.2
0°-30°	1627.8	20.4
0°-40°	2657.0	33.2
0°-60°	4756.2	59.5
0°-90°	6564.4	82.1
90°-120°	757.5	9.5
90°-150°	1280.4	16.0
90°-180°	1433.0	17.9
0°-180°	7997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2115	2115	2115	2115	2115	
5°	2100	2125	2094	2100	2113	199
15°	2005	2036	2013	2026	2034	566
25°	1829	1864	1854	1872	1876	843
35°	1592	1628	1634	1675	1690	996
45°	1316	1352	1391	1462	1488	1014
55°	1010	1051	1134	1227	1254	903
65°	688	744	862	970	997	680
75°	361	442	589	703	740	384
85°	91	199	346	462	500	99
90°	0	114	257	369	408	6
95°	10	120	257	365	404	11
105°	37	133	259	361	396	39
115°	72	145	257	346	381	71
125°	108	154	249	324	350	97
135°	133	162	236	296	317	103
145°	141	158	212	263	278	89
155°	143	160	180	222	236	67
165°	164	174	168	170	197	46
175°	182	180	170	145	87	17
180°	158	158	158	158	158	



TEST NUMBER: P895410
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3
2.5°	2107.6	2113.4	2115.3	2134.7	2126.9	2134.7	2121.1	2105.7	2101.8	2111.5	2099.9
5°	2099.9	2105.7	2107.6	2126.9	2119.2	2125.0	2113.4	2098.0	2094.1	2105.7	2094.1
7.5°	2084.4	2090.2	2092.2	2113.4	2103.8	2111.5	2098.0	2082.5	2080.6	2092.2	2080.6
10°	2065.1	2070.9	2072.8	2092.2	2084.4	2092.2	2078.6	2063.2	2061.3	2074.8	2063.2
12.5°	2038.1	2043.9	2047.7	2067.0	2057.4	2067.0	2051.6	2036.1	2038.1	2049.7	2041.9
15°	2005.2	2013.0	2014.9	2034.2	2026.5	2036.1	2020.7	2005.2	2009.1	2020.7	2013.0
17.5°	1970.5	1978.2	1980.1	1997.5	1989.8	2001.4	1984.0	1970.5	1974.3	1985.9	1980.1
20°	1928.0	1935.7	1939.5	1956.9	1949.2	1960.8	1943.4	1931.8	1935.7	1949.2	1943.4
22.5°	1879.7	1891.3	1893.2	1912.5	1902.8	1914.4	1897.0	1887.4	1893.2	1906.7	1900.9
25°	1829.4	1841.0	1843.0	1862.3	1854.5	1864.2	1846.8	1837.2	1844.9	1858.4	1854.5
27.5°	1775.3	1786.9	1790.8	1808.2	1800.5	1812.0	1792.7	1786.9	1794.7	1808.2	1804.3
30°	1717.4	1729.0	1730.9	1748.3	1742.5	1754.1	1736.7	1729.0	1740.6	1754.1	1750.2
32.5°	1655.6	1667.2	1673.0	1688.4	1682.6	1692.3	1676.8	1673.0	1682.6	1696.1	1694.2
35°	1591.8	1603.4	1609.2	1626.6	1618.9	1628.5	1613.1	1609.2	1624.7	1634.3	1634.3
37.5°	1526.1	1537.7	1543.5	1560.9	1551.3	1562.8	1547.4	1545.5	1562.8	1572.5	1572.5
40°	1456.6	1470.1	1475.9	1491.4	1483.6	1493.3	1479.8	1481.7	1497.2	1508.8	1510.7
42.5°	1387.0	1400.6	1406.4	1423.8	1414.1	1423.8	1412.2	1414.1	1431.5	1443.1	1452.7
45°	1315.6	1327.2	1333.0	1352.3	1340.7	1352.3	1340.7	1344.5	1361.9	1379.3	1390.9
47.5°	1240.2	1251.8	1261.5	1276.9	1267.3	1276.9	1269.2	1275.0	1296.3	1313.6	1329.1
50°	1164.9	1176.5	1186.1	1199.7	1190.0	1203.5	1193.9	1201.6	1228.6	1246.0	1263.4
52.5°	1087.6	1097.3	1112.7	1120.5	1112.7	1128.2	1120.5	1132.0	1159.1	1180.3	1199.7
55°	1010.3	1020.0	1035.5	1041.3	1033.5	1050.9	1045.1	1060.6	1089.5	1112.7	1134.0
57.5°	931.1	940.8	954.3	960.1	954.3	973.6	971.7	989.1	1018.1	1043.2	1066.4
60°	850.0	859.7	871.3	877.0	877.0	896.4	896.4	917.6	948.5	971.7	998.8
62.5°	770.8	776.6	788.2	795.9	801.7	821.0	821.0	844.2	877.0	904.1	931.1
65°	687.7	693.5	703.2	712.8	722.5	743.8	745.7	770.8	803.6	830.7	861.6
67.5°	604.7	610.5	620.1	631.7	645.2	666.5	670.3	697.4	732.2	763.1	792.0
70°	523.5	525.5	537.0	552.5	568.0	589.2	595.0	624.0	660.7	691.6	722.5
72.5°	442.4	444.3	455.9	475.2	492.6	515.8	523.5	554.4	591.1	622.0	653.0
75°	361.3	363.2	378.6	401.8	421.1	442.4	452.0	484.9	521.6	554.4	589.2
77.5°	284.0	287.8	303.3	326.5	349.7	374.8	384.4	417.3	457.8	488.8	521.6
80°	212.5	216.4	233.8	258.9	284.0	307.2	318.8	351.6	394.1	425.0	461.7
82.5°	146.8	152.6	173.9	200.9	226.0	251.1	262.7	293.6	332.3	367.0	401.8
85°	90.8	98.5	119.8	148.8	175.8	199.0	210.6	243.4	280.1	313.0	345.8
87.5°	42.5	54.1	75.3	104.3	133.3	152.6	166.1	199.0	233.8	266.6	299.4
90°	0.0	17.4	38.6	67.6	96.6	114.0	129.4	160.3	195.1	226.0	256.9
92.5°	3.9	19.3	42.5	69.5	98.5	115.9	131.4	162.3	195.1	226.0	256.9
95°	9.7	21.3	44.4	73.4	102.4	119.8	133.3	164.2	197.0	228.0	256.9
97.5°	17.4	27.0	50.2	77.3	106.3	121.7	137.2	168.1	199.0	229.9	258.9
100°	23.2	30.9	54.1	81.1	110.1	125.6	141.0	170.0	200.9	231.8	258.9
102.5°	29.0	38.6	59.9	85.0	114.0	129.4	143.0	171.9	202.8	231.8	258.9
105°	36.7	44.4	63.8	90.8	117.8	133.3	146.8	175.8	204.8	233.8	258.9
107.5°	44.4	50.2	69.5	94.7	121.7	135.2	148.8	177.7	206.7	233.8	258.9
110°	54.1	58.0	75.3	98.5	123.6	139.1	152.6	179.7	206.7	233.8	258.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	63.8	63.8	81.1	102.4	127.5	141.0	154.5	181.6	208.6	233.8	258.9
115°	71.5	73.4	86.9	106.3	131.4	144.9	156.5	181.6	208.6	233.8	256.9
117.5°	81.1	81.1	94.7	110.1	133.3	146.8	160.3	183.5	208.6	231.8	255.0
120°	90.8	88.9	100.5	115.9	137.2	148.8	162.3	185.5	208.6	231.8	253.1
122.5°	100.5	96.6	104.3	119.8	139.1	152.6	162.3	185.5	208.6	229.9	251.1
125°	108.2	104.3	110.1	125.6	143.0	154.5	164.2	185.5	208.6	228.0	249.2
127.5°	115.9	112.0	117.8	129.4	144.9	154.5	166.1	185.5	208.6	226.0	245.3
130°	123.6	117.8	125.6	133.3	148.8	156.5	166.1	185.5	206.7	224.1	241.5
132.5°	129.4	123.6	131.4	137.2	150.7	158.4	168.1	185.5	204.8	222.2	239.5
135°	133.3	127.5	137.2	141.0	154.5	162.3	170.0	185.5	202.8	220.2	235.7
137.5°	137.2	129.4	141.0	144.9	156.5	164.2	170.0	183.5	200.9	216.4	231.8
140°	139.1	133.3	144.9	148.8	154.5	162.3	170.0	181.6	197.0	212.5	226.0
142.5°	141.0	133.3	146.8	150.7	154.5	160.3	168.1	177.7	193.2	206.7	220.2
145°	141.0	135.2	146.8	150.7	154.5	158.4	164.2	175.8	187.4	199.0	212.5
147.5°	141.0	137.2	148.8	152.6	156.5	156.5	160.3	171.9	181.6	193.2	204.8
150°	143.0	137.2	148.8	152.6	158.4	158.4	160.3	166.1	177.7	185.5	195.1
152.5°	141.0	139.1	146.8	154.5	158.4	160.3	160.3	162.3	171.9	179.7	187.4
155°	143.0	143.0	148.8	158.4	160.3	160.3	162.3	160.3	164.2	171.9	179.7
157.5°	146.8	150.7	150.7	160.3	164.2	164.2	166.1	164.2	162.3	164.2	171.9
160°	152.6	156.5	156.5	162.3	168.1	168.1	170.0	168.1	166.1	164.2	164.2
162.5°	158.4	162.3	162.3	164.2	170.0	171.9	173.9	171.9	170.0	166.1	164.2
165°	164.2	168.1	168.1	168.1	171.9	173.9	175.8	173.9	173.9	170.0	168.1
167.5°	170.0	173.9	173.9	171.9	173.9	175.8	177.7	175.8	175.8	173.9	170.0
170°	175.8	179.7	179.7	175.8	177.7	177.7	179.7	177.7	177.7	173.9	171.9
172.5°	179.7	183.5	181.6	179.7	179.7	179.7	179.7	177.7	175.8	171.9	171.9
175°	181.6	185.5	185.5	181.6	179.7	179.7	181.6	177.7	175.8	173.9	170.0
177.5°	181.6	185.5	185.5	181.6	181.6	179.7	181.6	179.7	179.7	175.8	171.9
180°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3	2115.3
2.5°	2107.6	2105.7	2094.1	2107.6	2107.6	2103.8	2119.2	2117.3	2115.3	2111.5
5°	2099.9	2098.0	2086.4	2099.9	2099.9	2098.0	2113.4	2115.3	2117.3	2113.4
7.5°	2088.3	2086.4	2074.8	2088.3	2088.3	2086.4	2103.8	2105.7	2107.6	2101.8
10°	2070.9	2069.0	2057.4	2070.9	2072.8	2070.9	2084.4	2086.4	2090.2	2082.5
12.5°	2047.7	2047.7	2036.1	2049.7	2051.6	2049.7	2063.2	2067.0	2070.9	2061.3
15°	2018.8	2020.7	2011.0	2024.5	2026.5	2026.5	2040.0	2041.9	2047.7	2034.2
17.5°	1984.0	1987.8	1980.1	1993.6	1995.6	1997.5	2005.2	2011.0	2016.8	2001.4
20°	1947.3	1949.2	1943.4	1955.0	1958.9	1956.9	1966.6	1974.3	1980.1	1964.7
22.5°	1902.8	1904.8	1899.0	1910.6	1914.4	1916.4	1924.1	1933.8	1937.6	1924.1
25°	1852.6	1860.3	1856.5	1868.1	1871.9	1871.9	1879.7	1889.3	1895.1	1875.8
27.5°	1804.3	1814.0	1810.1	1821.7	1825.6	1827.5	1831.4	1843.0	1848.8	1831.4
30°	1750.2	1761.8	1759.9	1771.5	1775.3	1773.4	1781.1	1792.7	1800.5	1781.1
32.5°	1690.3	1705.8	1703.9	1719.3	1723.2	1725.1	1730.9	1746.4	1754.1	1736.7
35°	1632.4	1649.8	1651.7	1669.1	1674.9	1676.8	1684.5	1700.0	1707.7	1690.3
37.5°	1572.5	1595.7	1601.5	1618.9	1624.7	1626.6	1634.3	1651.7	1659.4	1642.0
40°	1514.5	1541.6	1549.3	1564.8	1570.6	1576.4	1582.2	1599.5	1609.2	1591.8
42.5°	1456.6	1485.6	1495.2	1510.7	1516.5	1522.3	1530.0	1549.3	1557.0	1541.6
45°	1396.7	1427.6	1439.2	1454.7	1462.4	1468.2	1475.9	1493.3	1503.0	1487.5
47.5°	1336.8	1367.7	1379.3	1396.7	1404.4	1412.2	1418.0	1439.2	1448.9	1433.4
50°	1273.1	1307.8	1321.4	1336.8	1348.4	1354.2	1361.9	1381.3	1390.9	1377.4
52.5°	1209.3	1246.0	1261.5	1276.9	1288.5	1298.2	1302.0	1323.3	1333.0	1319.4
55°	1143.6	1180.3	1197.7	1215.1	1226.7	1238.3	1242.2	1263.4	1273.1	1253.8
57.5°	1078.0	1116.6	1134.0	1153.3	1163.0	1176.5	1182.3	1201.6	1211.3	1197.7
60°	1012.3	1049.0	1070.2	1087.6	1101.1	1112.7	1116.6	1137.8	1147.5	1130.1
62.5°	944.7	983.3	1004.5	1023.9	1035.5	1049.0	1054.8	1074.1	1081.8	1064.4
65°	875.1	913.8	936.9	954.3	969.8	981.4	985.2	1006.5	1014.2	996.8
67.5°	805.6	844.2	869.3	888.6	902.2	915.7	919.5	940.8	948.5	935.0
70°	738.0	776.6	801.7	824.9	834.5	848.1	853.9	873.2	880.9	869.3
72.5°	670.3	709.0	736.0	759.2	768.9	782.4	790.1	805.6	817.2	807.5
75°	604.7	643.3	670.3	693.5	703.2	716.7	724.4	739.9	747.6	739.9
77.5°	540.9	579.5	604.7	627.8	639.4	651.0	658.8	674.2	683.9	676.1
80°	479.1	517.7	542.8	564.1	575.7	587.3	595.0	612.4	620.1	614.3
82.5°	421.1	457.8	484.9	506.1	517.7	529.3	537.0	552.5	562.2	554.4
85°	369.0	405.7	430.8	452.0	461.7	473.3	481.0	496.5	504.2	500.3
87.5°	318.8	351.6	380.6	401.8	411.5	423.1	432.7	444.3	454.0	448.2
90°	280.1	309.1	336.1	357.4	369.0	380.6	392.2	403.8	411.5	407.6
92.5°	282.0	309.1	334.2	353.5	365.1	376.7	388.3	401.8	407.6	403.8
95°	282.0	309.1	334.2	353.5	365.1	376.7	388.3	401.8	407.6	403.8
97.5°	282.0	309.1	334.2	353.5	365.1	376.7	388.3	401.8	407.6	401.8
100°	282.0	309.1	334.2	353.5	365.1	374.8	386.4	399.9	405.7	401.8
102.5°	282.0	309.1	332.3	351.6	363.2	372.8	384.4	398.0	403.8	399.9
105°	282.0	307.2	332.3	349.7	361.3	370.9	382.5	394.1	399.9	396.0
107.5°	280.1	305.2	328.4	347.7	357.4	367.0	378.6	390.2	396.0	392.2
110°	280.1	303.3	326.5	343.9	353.5	363.2	374.8	386.4	392.2	388.3



TEST NUMBER: P895410

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	278.2	301.4	324.5	340.0	349.7	359.3	369.0	382.5	388.3	384.4
115°	276.3	299.4	320.7	336.1	345.8	353.5	365.1	378.6	382.5	380.6
117.5°	274.3	295.6	316.8	332.3	341.9	349.7	359.3	370.9	376.7	374.8
120°	272.4	291.7	313.0	326.5	336.1	343.9	351.6	363.2	369.0	365.1
122.5°	268.5	287.8	309.1	322.6	330.3	338.1	345.8	355.5	361.3	359.3
125°	264.7	284.0	303.3	316.8	324.5	330.3	338.1	347.7	351.6	349.7
127.5°	260.8	280.1	297.5	309.1	318.8	324.5	330.3	340.0	343.9	341.9
130°	256.9	274.3	291.7	303.3	311.0	316.8	322.6	332.3	334.2	334.2
132.5°	253.1	268.5	285.9	297.5	305.2	309.1	314.9	322.6	326.5	324.5
135°	249.2	262.7	280.1	289.8	295.6	301.4	307.2	314.9	316.8	316.8
137.5°	243.4	256.9	272.4	282.0	287.8	291.7	297.5	305.2	307.2	307.2
140°	237.6	251.1	264.7	272.4	280.1	284.0	287.8	295.6	297.5	297.5
142.5°	231.8	243.4	256.9	264.7	272.4	274.3	280.1	285.9	287.8	287.8
145°	224.1	237.6	249.2	256.9	262.7	264.7	270.5	276.3	276.3	278.2
147.5°	214.4	226.0	241.5	247.3	253.1	255.0	260.8	264.7	266.6	266.6
150°	204.8	216.4	229.9	239.5	245.3	247.3	249.2	255.0	255.0	256.9
152.5°	195.1	204.8	218.3	228.0	235.7	237.6	239.5	243.4	243.4	245.3
155°	185.5	193.2	204.8	214.4	222.2	226.0	229.9	233.8	233.8	235.7
157.5°	177.7	185.5	195.1	202.8	208.6	214.4	220.2	224.1	224.1	224.1
160°	168.1	173.9	183.5	189.3	197.0	200.9	210.6	214.4	214.4	216.4
162.5°	162.3	164.2	170.0	175.8	181.6	185.5	195.1	204.8	204.8	206.7
165°	164.2	162.3	164.2	166.1	170.0	171.9	177.7	191.3	195.1	197.0
167.5°	168.1	162.3	162.3	162.3	166.1	166.1	171.9	179.7	193.2	189.3
170°	168.1	162.3	158.4	158.4	160.3	158.4	162.3	168.1	175.8	183.5
172.5°	170.0	164.2	158.4	150.7	152.6	150.7	146.8	146.8	148.8	173.9
175°	168.1	164.2	156.5	146.8	144.9	139.1	127.5	117.8	112.0	86.9
177.5°	166.1	160.3	154.5	146.8	143.0	137.2	123.6	108.2	92.7	88.9
180°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4



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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	14.71	16.03	15.33	16.66	17.38	17.34	18.66	17.96	19.29	20.01
	3H	16.11	17.31	16.74	17.96	18.71	19.80	21.00	20.43	21.64	22.40
	4H	16.54	17.68	17.19	18.33	19.10	20.97	22.11	21.62	22.76	23.53
	6H	16.78	17.84	17.44	18.50	19.29	22.15	23.21	22.81	23.87	24.66
	8H	16.82	17.83	17.49	18.52	19.31	22.74	23.75	23.41	24.44	25.23
	12H	16.83	17.80	17.51	18.48	19.30	23.38	24.34	24.05	25.02	25.84
4H	2H	15.61	16.75	16.26	17.41	18.17	17.68	18.82	18.33	19.48	20.25
	3H	17.24	18.20	17.90	18.89	19.68	20.35	21.31	21.01	22.01	22.79
	4H	17.79	18.68	18.47	19.37	20.19	21.66	22.55	22.34	23.24	24.06
	6H	18.13	18.91	18.83	19.63	20.45	23.02	23.79	23.71	24.51	25.34
	8H	18.20	18.93	18.91	19.65	20.49	23.71	24.44	24.41	25.16	26.00
	12H	18.23	18.90	18.96	19.64	20.49	24.46	25.12	25.18	25.86	26.71
8H	4H	18.45	19.18	19.16	19.90	20.74	21.81	22.54	22.51	23.26	24.10
	6H	18.96	19.57	19.69	20.33	21.18	23.31	23.92	24.04	24.68	25.53
	8H	19.11	19.67	19.86	20.43	21.29	24.12	24.67	24.86	25.43	26.29
	12H	19.20	19.70	19.95	20.45	21.37	25.03	25.52	25.77	26.27	27.19
12H	4H	18.62	19.29	19.35	20.03	20.88	21.80	22.47	22.53	23.21	24.05
	6H	19.22	19.78	19.97	20.54	21.40	23.32	23.88	24.07	24.64	25.50
	8H	19.46	19.95	20.20	20.70	21.62	24.18	24.68	24.93	25.43	26.35