

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: P895510

Luminaire Tested: 8TMB-SC3-RND-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895510
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: 8TMB-SC3-RND-UNV-CC93-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 5000K CCT, MID lu setting
Light Source: -
Ballast/Driver: -

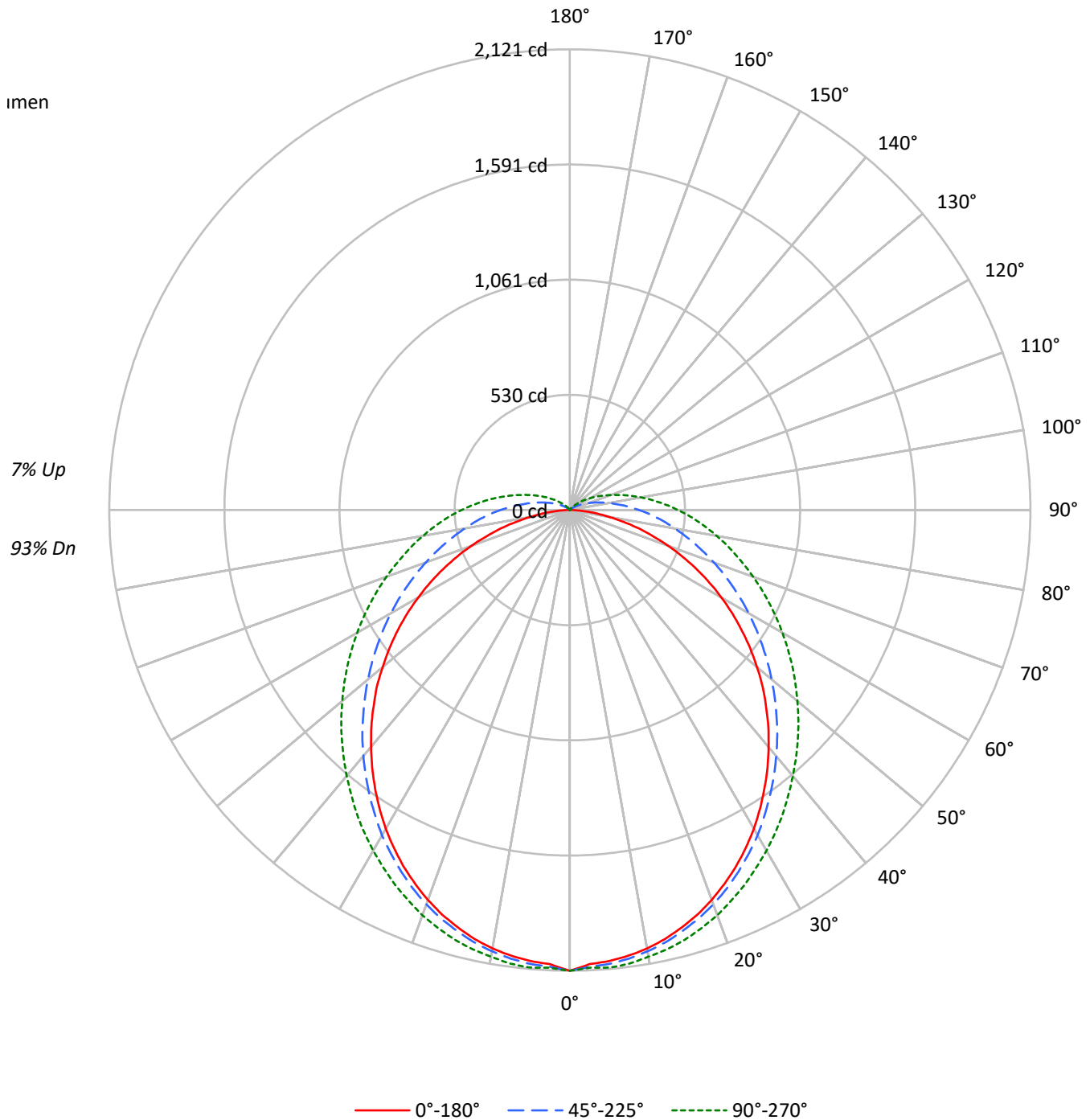
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7022.1 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: 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	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°	7526	7526	7526
5°	7425	7472	7531
10°	7385	7433	7523
15°	7310	7371	7523
20°	7213	7295	7495
25°	7089	7193	7453
30°	6943	7086	7419
35°	6772	6959	7405
40°	6596	6849	7403
45°	6413	6754	7454
50°	6212	6697	7549
55°	5986	6684	7731
60°	5724	6749	8021
65°	5407	6926	8500
70°	5011	7318	9315
75°	4528	8146	10808
80°	3833	10039	14039
85°	3106	16353	24056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 44283 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	2.9
10°-20°	571.5	8.1
20°-30°	855.8	12.2
30°-40°	1020.4	14.5
40°-50°	1058.3	15.1
50°-60°	981.9	14.0
60°-70°	819.1	11.7
70°-80°	610.7	8.7
80°-90°	406.6	5.8
90°-100°	247.6	3.5
100°-110°	138.2	2.0
110°-120°	69.1	1.0
120°-130°	28.9	0.4
130°-140°	9.1	0.1
140°-150°	2.3	0.0
150°-160°	1.0	0.0
160°-170°	0.7	0.0
170°-180°	0.2	0.0
0°-30°	1628.0	23.2
0°-40°	2648.4	37.7
0°-60°	4688.6	66.8
0°-90°	6525.1	92.9
90°-120°	454.8	6.5
90°-150°	495.1	7.1
90°-180°	497.0	7.1
0°-180°	7022.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2121	2121	2121	2121	2121	
5°	2085	2133	2098	2110	2114	198
15°	1990	2042	2007	2043	2048	561
25°	1811	1859	1837	1889	1904	834
35°	1564	1605	1607	1686	1710	978
45°	1278	1311	1346	1452	1486	986
55°	968	1001	1080	1207	1250	865
65°	644	695	825	964	1012	637
75°	330	422	594	739	788	349
85°	76	209	402	539	591	86
90°	3	138	319	450	498	6
95°	0	85	246	368	412	0
105°	0	27	134	227	262	0
115°	2	7	63	128	153	2
125°	2	2	25	61	76	2
135°	2	2	7	22	28	1
145°	2	2	2	5	7	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°	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2
2.5°	2092.9	2096.3	2126.1	2124.5	2119.5	2139.4	2144.4	2127.8	2101.2	2127.8	2104.6
5°	2084.6	2088.0	2117.8	2116.2	2111.2	2132.8	2134.4	2119.5	2092.9	2119.5	2097.9
7.5°	2069.7	2073.0	2102.9	2101.2	2097.9	2119.5	2117.8	2106.2	2078.0	2106.2	2083.0
10°	2049.8	2051.5	2083.0	2079.7	2078.0	2099.6	2094.6	2084.6	2056.4	2084.6	2063.1
12.5°	2023.2	2024.9	2056.4	2053.1	2053.1	2073.0	2066.4	2058.1	2029.9	2056.4	2038.2
15°	1990.0	1991.7	2021.6	2019.9	2019.9	2041.5	2031.5	2024.9	1998.3	2026.6	2006.6
17.5°	1953.5	1951.9	1983.4	1980.1	1983.4	2003.3	1990.0	1986.7	1961.8	1988.4	1971.8
20°	1910.4	1910.4	1938.6	1936.9	1941.9	1960.2	1943.6	1945.2	1920.3	1948.5	1932.0
22.5°	1862.2	1860.6	1888.8	1888.8	1893.8	1912.0	1893.8	1898.8	1873.9	1900.4	1887.1
25°	1810.8	1807.5	1835.7	1835.7	1844.0	1858.9	1839.0	1845.6	1822.4	1849.0	1837.3
27.5°	1754.4	1749.4	1777.6	1779.3	1785.9	1800.8	1779.3	1789.2	1767.6	1792.5	1784.2
30°	1694.6	1689.6	1717.8	1719.5	1727.8	1739.4	1717.8	1731.1	1711.2	1736.1	1729.5
32.5°	1629.9	1626.6	1653.1	1656.4	1664.7	1673.0	1653.1	1666.4	1649.8	1674.7	1668.1
35°	1563.5	1560.2	1585.1	1590.0	1598.3	1605.0	1583.4	1601.7	1586.7	1610.0	1606.6
37.5°	1495.4	1490.5	1517.0	1520.3	1530.3	1533.6	1513.7	1535.3	1522.0	1545.2	1543.6
40°	1424.1	1419.1	1445.6	1449.0	1458.9	1458.9	1442.3	1465.6	1455.6	1477.2	1478.8
42.5°	1352.7	1347.7	1371.0	1377.6	1385.9	1385.9	1369.3	1394.2	1387.6	1409.1	1414.1
45°	1278.0	1273.0	1294.6	1301.2	1311.2	1311.2	1294.6	1322.8	1317.8	1339.4	1346.1
47.5°	1205.0	1198.3	1218.3	1224.9	1234.9	1233.2	1219.9	1248.1	1246.5	1268.1	1279.7
50°	1125.3	1120.3	1140.2	1146.9	1158.5	1155.2	1145.2	1175.1	1175.1	1196.7	1213.3
52.5°	1047.3	1042.3	1062.2	1068.9	1078.8	1078.8	1068.9	1100.4	1105.4	1127.0	1146.9
55°	967.6	961.0	980.9	987.6	999.2	1000.8	992.5	1024.1	1034.0	1058.9	1080.5
57.5°	888.0	884.6	901.2	907.9	922.8	922.8	917.8	951.0	964.3	990.9	1015.8
60°	806.6	803.3	818.3	826.6	843.2	846.5	843.2	878.0	896.3	922.8	951.0
62.5°	725.3	722.0	736.9	748.5	766.8	770.1	771.8	808.3	828.2	856.4	888.0
65°	644.0	640.7	655.6	668.9	690.5	695.4	700.4	738.6	761.8	791.7	824.9
67.5°	562.7	561.0	575.9	592.5	615.8	622.4	630.7	670.5	697.1	728.6	765.1
70°	483.0	481.3	496.3	516.2	544.4	552.7	562.7	602.5	635.7	668.9	705.4
72.5°	403.3	405.0	421.6	444.8	476.3	484.6	497.9	539.4	575.9	610.8	649.0
75°	330.3	330.3	348.5	375.1	410.0	421.6	436.5	479.7	517.8	554.4	594.2
77.5°	255.6	255.6	277.2	310.4	348.5	360.2	378.4	423.2	464.7	501.2	541.1
80°	187.6	190.9	215.8	249.0	288.8	303.7	325.3	370.1	414.9	451.5	491.3
82.5°	127.8	132.8	159.3	197.5	237.3	252.3	273.9	322.0	366.8	405.0	446.5
85°	76.3	84.6	112.9	151.0	192.5	209.1	232.4	277.2	322.0	360.2	401.7
87.5°	34.9	46.5	76.3	114.5	154.4	172.6	192.5	235.7	280.5	318.7	361.8
90°	3.3	19.9	49.8	83.0	121.2	137.8	157.7	199.2	242.3	277.2	318.7
92.5°	0.0	8.3	29.9	59.8	92.9	109.5	127.8	167.6	205.8	240.7	280.5
95°	0.0	3.3	16.6	41.5	69.7	84.6	101.2	137.8	175.9	209.1	245.6
97.5°	0.0	1.7	10.0	28.2	51.5	64.7	79.7	112.9	147.7	179.3	212.4
100°	0.0	1.7	5.0	18.3	38.2	48.1	63.1	91.3	122.8	151.0	184.2
102.5°	0.0	0.0	3.3	11.6	28.2	36.5	48.1	73.0	101.2	127.8	157.7
105°	0.0	0.0	1.7	8.3	19.9	26.6	36.5	58.1	83.0	106.2	134.4
107.5°	0.0	0.0	1.7	5.0	13.3	19.9	28.2	44.8	66.4	88.0	112.9
110°	1.7	1.7	1.7	3.3	10.0	14.9	19.9	34.9	54.8	73.0	94.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.7	1.7	1.7	1.7	6.6	10.0	14.9	26.6	43.2	58.1	78.0
115°	1.7	1.7	1.7	1.7	5.0	6.6	10.0	19.9	33.2	46.5	63.1
117.5°	1.7	1.7	1.7	1.7	3.3	5.0	6.6	14.9	24.9	36.5	51.5
120°	1.7	1.7	1.7	1.7	1.7	3.3	5.0	10.0	19.9	28.2	41.5
122.5°	1.7	1.7	1.7	1.7	1.7	3.3	3.3	8.3	14.9	21.6	31.5
125°	1.7	1.7	1.7	1.7	1.7	1.7	3.3	5.0	10.0	16.6	24.9
127.5°	1.7	1.7	1.7	1.7	1.7	1.7	3.3	5.0	6.6	11.6	18.3
130°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3	5.0	8.3	13.3
132.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3	5.0	6.6	10.0
135°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3	5.0	6.6
137.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3	3.3	5.0
140°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3	3.3
142.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3
145°	1.7	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
147.5°	1.7	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
150°	1.7	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
152.5°	3.3	3.3	3.3	3.3	3.3	1.7	1.7	1.7	1.7	1.7	1.7
155°	3.3	3.3	3.3	3.3	3.3	3.3	1.7	1.7	1.7	1.7	1.7
157.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.7	1.7	1.7
160°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.7	1.7	1.7
162.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.7	1.7	1.7
165°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.7	1.7
167.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.7
170°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
172.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.7
175°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
177.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
180°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2	2121.2
2.5°	2111.2	2116.2	2121.2	2107.9	2116.2	2131.1	2136.1	2116.2	2122.8	2109.5
5°	2104.6	2107.9	2114.5	2097.9	2109.5	2122.8	2131.1	2114.5	2124.5	2114.5
7.5°	2091.3	2094.6	2102.9	2086.3	2101.2	2112.9	2122.8	2106.2	2116.2	2106.2
10°	2071.4	2076.3	2088.0	2068.1	2086.3	2096.3	2106.2	2088.0	2097.9	2088.0
12.5°	2046.5	2054.8	2064.7	2046.5	2064.7	2073.0	2086.3	2068.1	2079.7	2071.4
15°	2016.6	2024.9	2038.2	2019.9	2043.2	2049.8	2063.1	2044.8	2056.4	2048.1
17.5°	1981.7	1991.7	2008.3	1986.7	2013.3	2018.3	2031.5	2014.9	2026.6	2018.3
20°	1941.9	1951.9	1968.5	1948.5	1975.1	1978.4	1993.4	1978.4	1990.0	1985.1
22.5°	1895.4	1907.1	1923.7	1905.4	1933.6	1933.6	1951.9	1936.9	1950.2	1945.2
25°	1847.3	1860.6	1878.8	1858.9	1888.8	1888.8	1908.7	1893.8	1907.1	1903.7
27.5°	1795.9	1810.8	1832.4	1812.4	1842.3	1840.7	1860.6	1847.3	1862.2	1857.3
30°	1741.1	1757.7	1779.3	1762.7	1794.2	1790.9	1810.8	1799.2	1812.4	1810.8
32.5°	1681.3	1699.6	1726.1	1707.9	1739.4	1736.1	1761.0	1747.7	1764.3	1761.0
35°	1621.6	1641.5	1668.1	1651.5	1686.3	1681.3	1706.2	1694.6	1711.2	1709.5
37.5°	1560.2	1581.7	1608.3	1595.0	1628.2	1623.2	1649.8	1639.8	1658.1	1653.1
40°	1497.1	1518.7	1546.9	1535.3	1570.1	1563.5	1591.7	1583.4	1601.7	1598.3
42.5°	1434.0	1457.3	1485.5	1478.8	1512.0	1505.4	1533.6	1527.0	1545.2	1541.9
45°	1369.3	1394.2	1424.1	1417.4	1452.3	1445.6	1473.9	1468.9	1487.1	1485.5
47.5°	1304.6	1331.1	1361.0	1357.7	1390.9	1384.2	1414.1	1409.1	1427.4	1427.4
50°	1238.2	1268.1	1297.9	1296.3	1329.5	1322.8	1349.4	1349.4	1369.3	1367.6
52.5°	1171.8	1203.3	1234.9	1234.9	1268.1	1261.4	1291.3	1289.6	1309.5	1309.5
55°	1108.7	1136.9	1168.5	1175.1	1206.6	1196.7	1228.2	1231.5	1248.1	1249.8
57.5°	1045.6	1075.5	1107.1	1115.4	1145.2	1138.6	1168.5	1171.8	1188.4	1190.0
60°	982.6	1010.8	1042.3	1053.9	1083.8	1077.2	1107.1	1110.4	1128.6	1130.3
62.5°	919.5	947.7	982.6	994.2	1022.4	1017.4	1049.0	1052.3	1068.9	1072.2
65°	858.1	888.0	921.2	937.8	964.3	957.7	989.2	992.5	1010.8	1012.4
67.5°	798.3	828.2	861.4	879.7	904.6	901.2	931.1	937.8	952.7	956.0
70°	740.2	770.1	805.0	823.2	848.1	846.5	874.7	879.7	896.3	897.9
72.5°	683.8	713.7	748.5	770.1	791.7	790.0	818.3	824.9	841.5	843.2
75°	629.0	660.6	693.8	717.0	738.6	736.9	765.1	771.8	786.7	788.4
77.5°	577.6	609.1	644.0	667.2	685.5	687.1	712.0	718.7	733.6	738.6
80°	529.5	559.3	592.5	617.4	634.0	637.3	660.6	668.9	680.5	687.1
82.5°	483.0	512.9	546.1	569.3	585.9	589.2	610.8	620.7	632.4	637.3
85°	438.2	468.0	499.6	524.5	539.4	541.1	562.7	572.6	582.6	590.9
87.5°	395.0	424.9	454.8	481.3	494.6	497.9	517.8	527.8	536.1	544.4
90°	351.9	381.7	411.6	436.5	449.8	451.5	473.0	483.0	491.3	497.9
92.5°	312.0	341.9	371.8	396.7	408.3	411.6	429.9	441.5	448.1	454.8
95°	273.9	303.7	330.3	356.8	368.5	373.4	390.0	400.0	408.3	411.6
97.5°	240.7	267.2	292.1	318.7	328.6	333.6	350.2	361.8	368.5	371.8
100°	209.1	234.0	257.3	282.2	292.1	297.1	312.0	322.0	328.6	333.6
102.5°	180.9	204.1	225.7	249.0	258.9	262.2	275.5	285.5	292.1	297.1
105°	156.0	177.6	197.5	219.1	227.4	232.4	244.0	252.3	258.9	262.2
107.5°	132.8	154.4	171.0	190.9	199.2	202.5	214.1	224.1	229.0	230.7
110°	112.9	131.1	147.7	164.3	174.3	177.6	187.6	195.9	200.8	202.5



TEST NUMBER: P895510
 CATALOG NUMBER: 8TMB-SC3-RND-UNV-CC93-MID-5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	94.6	111.2	126.1	141.1	149.4	152.7	162.7	171.0	174.3	175.9
115°	78.0	94.6	106.2	121.2	127.8	131.1	139.4	147.7	149.4	152.7
117.5°	63.1	78.0	89.6	101.2	107.9	111.2	117.8	124.5	127.8	129.5
120°	51.5	63.1	73.0	84.6	89.6	92.9	99.6	106.2	107.9	109.5
122.5°	41.5	51.5	59.8	69.7	74.7	78.0	83.0	88.0	89.6	91.3
125°	31.5	41.5	48.1	56.4	61.4	63.1	68.0	73.0	74.7	76.3
127.5°	24.9	31.5	38.2	44.8	48.1	49.8	54.8	58.1	59.8	61.4
130°	18.3	23.2	28.2	34.9	38.2	39.8	43.2	46.5	48.1	48.1
132.5°	13.3	18.3	21.6	26.6	28.2	29.9	33.2	36.5	36.5	38.2
135°	8.3	11.6	14.9	18.3	21.6	21.6	24.9	26.6	28.2	28.2
137.5°	6.6	8.3	10.0	13.3	14.9	16.6	16.6	19.9	19.9	19.9
140°	5.0	6.6	6.6	8.3	10.0	11.6	11.6	13.3	13.3	13.3
142.5°	3.3	5.0	5.0	6.6	6.6	8.3	8.3	8.3	10.0	10.0
145°	3.3	3.3	3.3	5.0	5.0	5.0	5.0	6.6	6.6	6.6
147.5°	1.7	1.7	3.3	3.3	3.3	3.3	3.3	5.0	5.0	5.0
150°	1.7	1.7	1.7	1.7	1.7	3.3	3.3	3.3	3.3	3.3
152.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
155°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
157.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
160°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
162.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
165°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
167.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
170°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
172.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
175°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0
177.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0
180°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P895510
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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	17.30	18.84	17.77	19.29	19.78	18.87	20.41	19.34	20.86	21.35
	3H	18.98	20.38	19.46	20.85	21.37	21.50	22.90	21.98	23.37	23.89
	4H	19.57	20.91	20.08	21.39	21.93	22.81	24.14	23.31	24.62	25.16
	6H	19.97	21.21	20.49	21.71	22.27	24.21	25.45	24.73	25.95	26.51
	8H	20.09	21.28	20.62	21.80	22.36	24.96	26.15	25.49	26.67	27.23
	12H	20.17	21.31	20.70	21.82	22.41	25.81	26.95	26.35	27.47	28.06
4H	2H	18.23	19.56	18.73	20.04	20.58	19.42	20.75	19.93	21.24	21.78
	3H	20.21	21.34	20.72	21.87	22.43	22.34	23.47	22.86	24.00	24.57
	4H	20.98	22.02	21.52	22.56	23.16	23.86	24.90	24.40	25.44	26.04
	6H	21.56	22.48	22.12	23.05	23.66	25.51	26.43	26.06	26.99	27.60
	8H	21.75	22.61	22.31	23.18	23.80	26.39	27.25	26.95	27.82	28.44
	12H	21.87	22.66	22.45	23.25	23.88	27.39	28.18	27.97	28.77	29.40
8H	4H	21.86	22.73	22.42	23.29	23.91	24.22	25.09	24.79	25.66	26.28
	6H	22.74	23.48	23.34	24.09	24.71	26.13	26.86	26.72	27.47	28.10
	8H	23.09	23.76	23.70	24.37	25.01	27.21	27.87	27.81	28.49	29.13
	12H	23.36	23.96	23.97	24.56	25.27	28.47	29.07	29.08	29.67	30.38
12H	4H	22.14	22.93	22.72	23.52	24.15	24.27	25.05	24.85	25.65	26.27
	6H	23.19	23.86	23.80	24.48	25.12	26.24	26.90	26.84	27.52	28.16
	8H	23.71	24.31	24.32	24.91	25.62	27.43	28.03	28.04	28.63	29.34