

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: P895401

Luminaire Tested: 8TMB-SC3-FLT-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895401
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: 8TMB-SC3-FLT-UNV-CC93-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 90CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

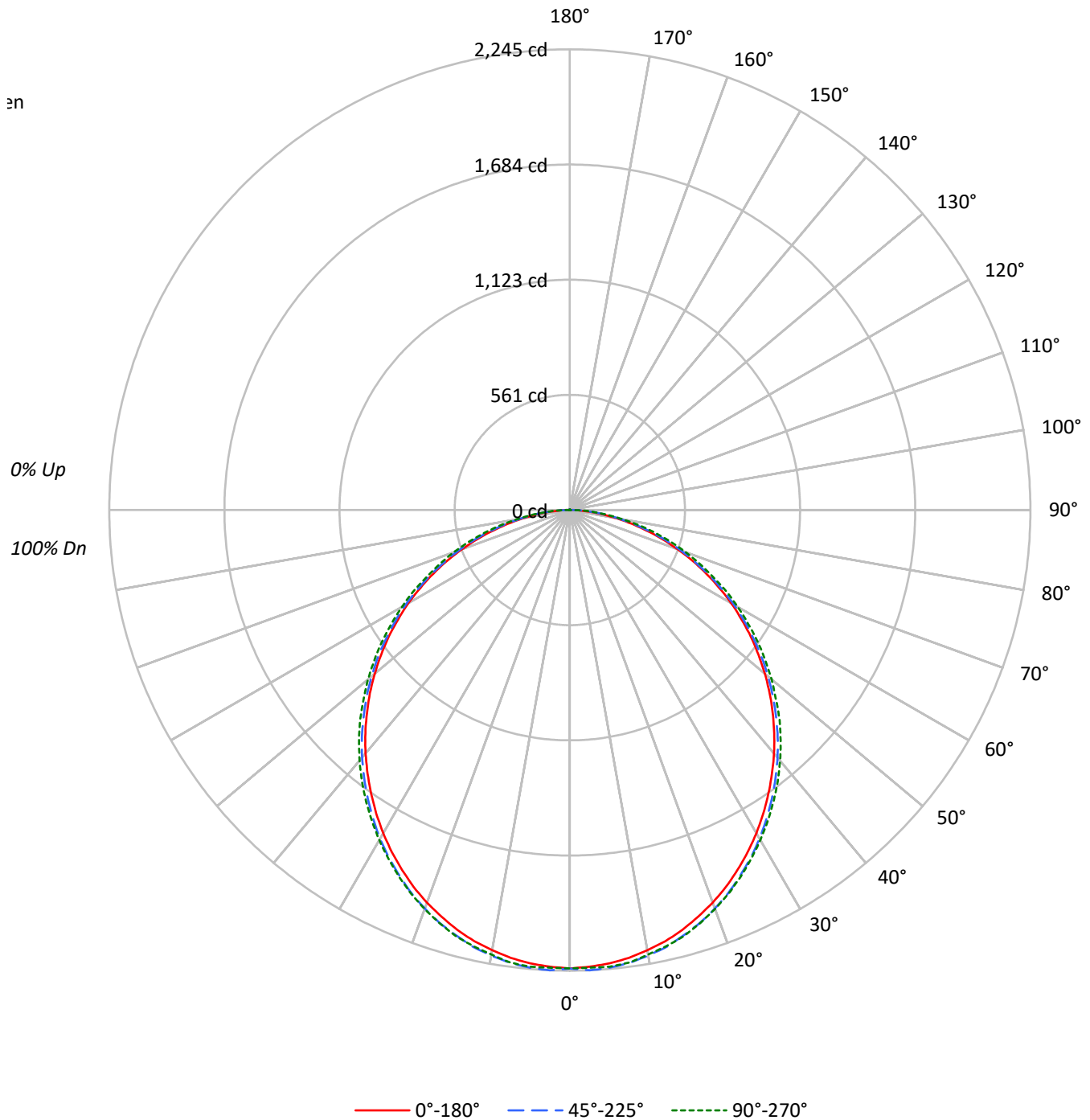
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6200.9 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
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				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°	7926	7926	7926
5°	7898	7974	7956
10°	7848	7942	7925
15°	7779	7881	7893
20°	7688	7805	7811
25°	7574	7695	7715
30°	7450	7577	7611
35°	7310	7438	7501
40°	7173	7294	7385
45°	7016	7131	7254
50°	6851	6960	7086
55°	6667	6767	6909
60°	6452	6557	6707
65°	6165	6288	6453
70°	5802	5971	6243
75°	5336	5560	5918
80°	4712	5080	5347
85°	4063	4661	4991

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7254 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	3.4
10°-20°	602.1	9.7
20°-30°	902.2	14.6
30°-40°	1073.6	17.3
40°-50°	1101.6	17.8
50°-60°	986.9	15.9
60°-70°	749.8	12.1
70°-80°	435.8	7.0
80°-90°	130.8	2.1
90°-100°	3.1	0.0
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°	1.0	0.0
150°-160°	0.7	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1715.6	27.7
0°-40°	2789.1	45.0
0°-60°	4877.5	78.7
0°-90°	6194.0	99.9
90°-120°	3.7	0.1
90°-150°	5.5	0.1
90°-180°	7.0	0.1
0°-180°	6200.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2218	2255	2239	2227	2234	210
15°	2118	2159	2146	2142	2149	597
25°	1935	1979	1966	1962	1971	891
35°	1688	1728	1717	1722	1732	1056
45°	1398	1432	1421	1432	1446	1079
55°	1078	1104	1094	1107	1117	963
65°	734	752	749	762	769	727
75°	389	404	406	420	432	413
85°	100	108	114	123	123	109
90°	2	6	6	11	10	7
95°	0	2	2	3	5	0
105°	0	0	0	2	2	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	1
135°	0	0	2	0	0	1
145°	2	2	2	2	2	1
155°	2	2	2	2	2	1
165°	2	2	2	2	2	1
175°	3	3	3	2	2	0
180°	2	2	2	2	2	



TEST NUMBER: P895401
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2227.3	2224.0	2227.3	2225.7	2242.0	2261.6	2258.4	2243.6	2227.3	2232.2	2245.3
5°	2217.5	2215.8	2220.8	2217.5	2233.8	2255.1	2248.6	2235.5	2220.8	2225.7	2238.7
7.5°	2201.1	2201.1	2207.7	2204.4	2219.1	2240.4	2233.8	2222.4	2207.7	2212.6	2225.7
10°	2178.2	2179.9	2188.0	2183.1	2196.2	2219.1	2212.6	2201.1	2188.0	2191.3	2204.4
12.5°	2152.1	2152.1	2161.9	2157.0	2170.1	2191.3	2183.1	2175.0	2161.9	2165.2	2179.9
15°	2117.7	2119.4	2130.8	2125.9	2137.4	2158.6	2150.4	2143.9	2132.4	2134.1	2145.5
17.5°	2078.5	2083.4	2094.8	2089.9	2101.4	2122.6	2112.8	2106.3	2096.5	2098.1	2109.6
20°	2036.0	2040.9	2052.3	2049.0	2057.2	2078.5	2068.7	2065.4	2055.6	2057.2	2067.0
22.5°	1988.5	1993.4	2006.5	2003.3	2011.4	2032.7	2021.2	2019.6	2009.8	2011.4	2019.6
25°	1934.6	1941.1	1955.8	1952.6	1959.1	1978.7	1968.9	1965.6	1959.1	1959.1	1965.6
27.5°	1879.0	1885.5	1901.9	1897.0	1901.9	1923.1	1911.7	1910.0	1903.5	1903.5	1910.0
30°	1818.5	1825.0	1843.0	1838.1	1843.0	1861.0	1849.5	1851.2	1844.6	1844.6	1849.5
32.5°	1754.7	1759.6	1779.2	1776.0	1779.2	1797.2	1785.8	1787.4	1780.9	1782.5	1784.1
35°	1687.6	1692.5	1713.8	1710.5	1712.2	1728.5	1720.3	1720.3	1715.4	1713.8	1717.1
37.5°	1619.0	1623.9	1650.0	1641.9	1641.9	1658.2	1651.7	1651.7	1646.8	1645.1	1646.8
40°	1548.6	1551.9	1579.7	1571.5	1569.9	1584.6	1579.7	1579.7	1576.4	1573.2	1574.8
42.5°	1475.1	1480.0	1507.8	1501.2	1494.7	1511.0	1506.1	1507.8	1502.9	1499.6	1499.6
45°	1398.2	1403.1	1430.9	1427.6	1417.8	1432.5	1427.6	1430.9	1424.4	1421.1	1421.1
47.5°	1321.3	1327.9	1354.0	1349.1	1339.3	1354.0	1349.1	1352.4	1345.9	1342.6	1342.6
50°	1241.2	1247.7	1275.5	1267.4	1257.6	1272.3	1269.0	1270.6	1265.7	1262.5	1260.8
52.5°	1159.4	1167.6	1193.8	1184.0	1175.8	1188.9	1187.2	1188.9	1182.3	1180.7	1179.1
55°	1077.7	1085.8	1110.4	1098.9	1092.4	1103.8	1100.6	1103.8	1097.3	1095.7	1094.0
57.5°	992.6	1000.8	1023.7	1012.3	1007.4	1017.2	1015.5	1017.2	1012.3	1010.6	1009.0
60°	909.2	915.8	937.0	925.6	920.7	930.5	927.2	932.1	925.6	925.6	924.0
62.5°	820.9	829.1	850.4	837.3	834.0	842.2	838.9	843.8	840.6	837.3	835.6
65°	734.3	739.2	758.8	747.3	742.4	752.2	750.6	753.9	749.0	750.6	749.0
67.5°	647.6	650.9	670.5	657.4	654.1	663.9	665.6	663.9	660.7	662.3	660.7
70°	559.3	562.5	578.9	567.5	565.8	574.0	577.3	575.6	572.4	574.0	575.6
72.5°	474.2	475.9	490.6	480.8	479.1	489.0	489.0	489.0	489.0	489.0	492.2
75°	389.2	390.8	403.9	395.7	394.1	403.9	403.9	403.9	403.9	407.2	405.6
77.5°	307.4	305.8	318.9	314.0	310.7	320.5	320.5	322.2	325.4	328.7	323.8
80°	230.6	228.9	238.8	232.2	232.2	242.0	240.4	242.0	245.3	246.9	248.6
82.5°	161.9	158.6	166.8	165.2	163.5	171.7	173.3	171.7	176.6	178.2	178.2
85°	99.8	99.8	104.7	101.4	101.4	107.9	107.9	109.6	112.8	114.5	114.5
87.5°	47.4	45.8	50.7	49.1	47.4	52.3	52.3	54.0	55.6	57.2	55.6
90°	1.6	1.6	3.3	3.3	3.3	6.5	6.5	6.5	8.2	8.2	6.5
92.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
95°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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	1.6



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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	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6
132.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
135°	0.0	1.6	1.6	1.6	1.6	0.0	1.6	0.0	0.0	0.0	1.6
137.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
140°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
142.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
145°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
147.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
162.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
165°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
167.5°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
170°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
172.5°	3.3	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6
175°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	1.6	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°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8	2233.8
2.5°	2225.7	2214.2	2209.3	2212.6	2235.5	2212.6	2237.1	2245.3	2215.8	2232.2
5°	2219.1	2207.7	2201.1	2204.4	2227.3	2206.0	2232.2	2242.0	2217.5	2233.8
7.5°	2206.0	2193.0	2189.7	2194.6	2214.2	2196.2	2222.4	2232.2	2207.7	2224.0
10°	2186.4	2175.0	2171.7	2176.6	2194.6	2176.6	2199.5	2207.7	2184.8	2199.5
12.5°	2161.9	2150.4	2147.2	2153.7	2170.1	2153.7	2176.6	2184.8	2161.9	2176.6
15°	2130.8	2119.4	2117.7	2127.5	2142.3	2127.5	2150.4	2157.0	2134.1	2148.8
17.5°	2093.2	2081.8	2083.4	2094.8	2106.3	2093.2	2114.5	2121.0	2099.7	2111.2
20°	2052.3	2039.2	2042.5	2052.3	2062.1	2049.0	2070.3	2076.8	2057.2	2068.7
22.5°	2004.9	1991.8	1995.1	2006.5	2013.1	2001.6	2021.2	2027.8	2011.4	2022.9
25°	1952.6	1941.1	1946.0	1957.5	1962.4	1952.6	1970.6	1975.5	1960.7	1970.6
27.5°	1900.2	1887.2	1893.7	1905.1	1908.4	1898.6	1916.6	1919.9	1905.1	1915.0
30°	1841.4	1828.3	1836.5	1849.5	1849.5	1843.0	1857.7	1861.0	1849.5	1857.7
32.5°	1776.0	1766.1	1776.0	1787.4	1785.8	1780.9	1795.6	1798.8	1789.0	1795.6
35°	1710.5	1702.4	1712.2	1723.6	1722.0	1717.1	1731.8	1733.4	1725.3	1731.8
37.5°	1643.5	1636.9	1646.8	1656.6	1653.3	1650.0	1663.1	1663.1	1658.2	1664.7
40°	1574.8	1568.3	1576.4	1587.9	1581.3	1581.3	1589.5	1592.8	1587.9	1594.4
42.5°	1502.9	1496.3	1506.1	1515.9	1509.4	1507.8	1517.6	1519.2	1515.9	1520.8
45°	1427.6	1421.1	1430.9	1439.1	1432.5	1432.5	1440.7	1440.7	1439.1	1445.6
47.5°	1350.8	1345.9	1354.0	1362.2	1355.7	1360.6	1360.6	1360.6	1363.9	1362.2
50°	1272.3	1267.4	1273.9	1283.7	1275.5	1277.2	1280.5	1280.5	1282.1	1283.7
52.5°	1190.5	1184.0	1190.5	1202.0	1190.5	1195.4	1197.0	1198.7	1203.6	1200.3
55°	1108.7	1102.2	1108.7	1118.6	1107.1	1113.6	1113.6	1115.3	1120.2	1116.9
57.5°	1023.7	1017.2	1027.0	1033.5	1022.1	1028.6	1028.6	1031.9	1035.2	1030.2
60°	938.7	933.8	937.0	948.5	937.0	943.6	943.6	943.6	950.1	945.2
62.5°	852.0	848.7	852.0	861.8	850.4	856.9	855.3	856.9	863.4	861.8
65°	763.7	760.4	763.7	773.5	762.1	768.6	768.6	770.2	775.1	768.6
67.5°	677.0	672.1	677.0	685.2	675.4	680.3	680.3	680.3	688.5	685.2
70°	588.7	585.4	588.7	596.9	588.7	592.0	592.0	592.0	600.2	601.8
72.5°	502.0	502.0	505.3	511.9	505.3	511.9	506.9	503.7	515.1	516.8
75°	417.0	418.6	420.3	426.8	420.3	426.8	423.5	420.3	430.1	431.7
77.5°	338.5	338.5	340.1	345.1	340.1	345.1	341.8	341.8	348.3	346.7
80°	258.4	258.4	260.0	264.9	260.0	264.9	261.7	261.7	268.2	261.7
82.5°	188.1	188.1	188.1	193.0	189.7	193.0	191.3	188.1	196.2	189.7
85°	121.0	122.6	122.6	124.3	122.6	124.3	124.3	122.6	127.6	122.6
87.5°	62.1	62.1	62.1	63.8	62.1	62.1	63.8	62.1	65.4	63.8
90°	11.4	9.8	9.8	13.1	11.4	11.4	13.1	9.8	11.4	9.8
92.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	6.5
95°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9
97.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
105°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6	1.6
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	1.6	0.0	0.0	0.0	1.6



TEST NUMBER: P895401
 CATALOG NUMBER: 8TMB-SC3-FLT-UNV-CC93-MID-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	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.6	1.6	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°	1.6	1.6	1.6	1.6	0.0	1.6	0.0	0.0	0.0	0.0
140°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
142.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
145°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
147.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
162.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
165°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
167.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
170°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
172.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
177.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



TEST NUMBER: P895401
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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	18.70	20.34	19.07	20.65	20.97	18.84	20.47	19.20	20.79	21.11
	3H	20.52	22.00	20.90	22.33	22.70	20.67	22.15	21.05	22.48	22.84
	4H	21.18	22.58	21.58	22.93	23.31	21.38	22.77	21.78	23.12	23.50
	6H	21.64	22.93	22.05	23.30	23.69	21.93	23.23	22.35	23.59	23.99
	8H	21.78	23.01	22.20	23.40	23.80	22.13	23.36	22.55	23.76	24.16
	12H	21.87	23.06	22.30	23.44	23.87	22.27	23.45	22.70	23.84	24.27
4H	2H	19.33	20.73	19.73	21.08	21.46	19.44	20.84	19.84	21.19	21.56
	3H	21.37	22.55	21.79	22.95	23.35	21.51	22.68	21.92	23.08	23.48
	4H	22.17	23.23	22.60	23.64	24.08	22.35	23.41	22.79	23.83	24.27
	6H	22.74	23.67	23.20	24.11	24.57	23.05	23.97	23.50	24.42	24.87
	8H	22.93	23.80	23.39	24.25	24.71	23.29	24.16	23.75	24.60	25.07
	12H	23.08	23.86	23.56	24.33	24.81	23.48	24.27	23.97	24.74	25.21
8H	4H	22.50	23.37	22.96	23.81	24.28	22.66	23.53	23.12	23.98	24.44
	6H	23.20	23.92	23.69	24.41	24.89	23.49	24.21	23.98	24.70	25.18
	8H	23.46	24.11	23.97	24.62	25.11	23.82	24.47	24.33	24.98	25.46
	12H	23.68	24.25	24.19	24.75	25.31	24.10	24.68	24.61	25.17	25.73
12H	4H	22.54	23.32	23.02	23.80	24.27	22.69	23.48	23.18	23.95	24.43
	6H	23.27	23.92	23.78	24.43	24.92	23.54	24.20	24.05	24.70	25.19
	8H	23.60	24.17	24.10	24.66	25.23	23.94	24.51	24.45	25.01	25.57