

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: P895518

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-RNDU-UNV-CC83-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 40
CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

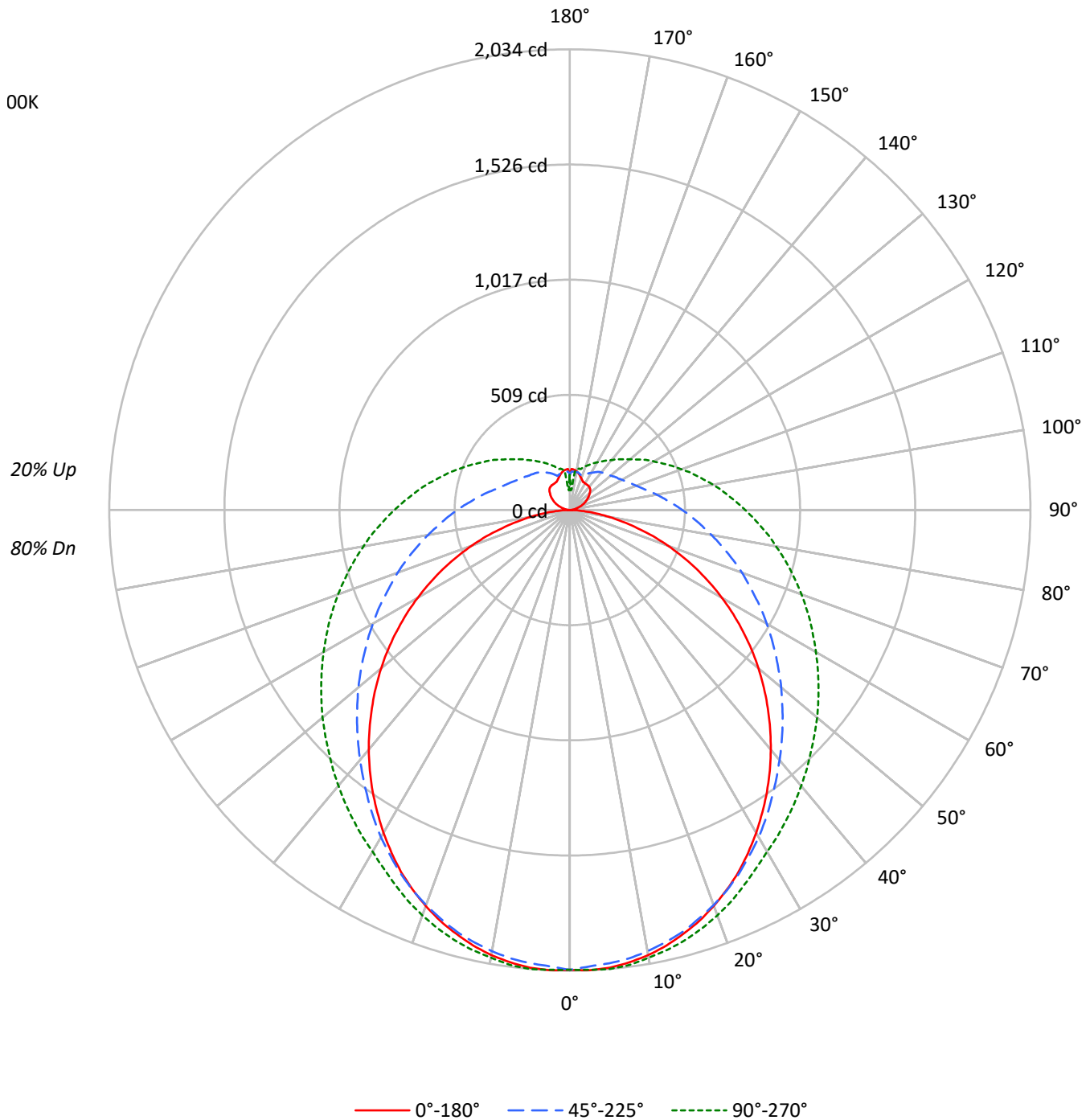
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8538.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	83	83	83	80
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	65	65	65	61
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	53	53	53	49
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	44	44	44	41
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	37	37	37	34
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	32	32	32	29
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	28	28	28	26
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	25	25	25	23
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	22	22	22	20
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7202	7202	7202
5°	7207	6909	6912
10°	7156	6650	6593
15°	7066	6386	6298
20°	6957	6106	5995
25°	6821	5824	5691
30°	6642	5539	5422
35°	6458	5244	5224
40°	6259	4978	5044
45°	6045	4743	4883
50°	5821	4534	4760
55°	5563	4341	4652
60°	5271	4185	4571
65°	4914	4049	4525
70°	4468	3969	4510
75°	3860	3917	4531
80°	3129	3932	4602
85°	2179	4057	4753

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6045 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	2.2
10°-20°	547.6	6.4
20°-30°	822.2	9.6
30°-40°	988.7	11.6
40°-50°	1047.5	12.3
50°-60°	1008.8	11.8
60°-70°	892.8	10.5
70°-80°	732.3	8.6
80°-90°	568.2	6.7
90°-100°	441.0	5.2
100°-110°	349.5	4.1
110°-120°	278.4	3.3
120°-130°	221.1	2.6
130°-140°	172.7	2.0
140°-150°	127.1	1.5
150°-160°	84.0	1.0
160°-170°	48.4	0.6
170°-180°	15.5	0.2
0°-30°	1561.9	18.3
0°-40°	2550.6	29.9
0°-60°	4606.9	54.0
0°-90°	6800.3	79.6
90°-120°	1068.9	12.5
90°-150°	1589.8	18.6
90°-180°	1738.0	20.4
0°-180°	8538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2030	2030	2030	2030	2030	
5°	2028	2030	2009	2024	2034	192
15°	1937	1939	1928	1956	1966	546
25°	1763	1769	1769	1814	1825	811
35°	1518	1537	1555	1636	1669	949
45°	1236	1265	1329	1454	1506	954
55°	933	979	1109	1273	1340	834
65°	618	703	902	1091	1172	612
75°	309	464	718	921	1006	330
85°	70	280	562	767	848	80
90°	2	220	496	695	774	5
95°	10	182	438	628	705	10
105°	35	147	346	514	581	37
115°	70	141	288	419	475	68
125°	100	147	251	346	388	90
135°	128	156	226	290	317	97
145°	135	154	205	249	265	85
155°	137	160	176	212	224	65
165°	162	172	166	166	187	45
175°	180	178	170	141	95	17
180°	156	156	156	156	156	



TEST NUMBER: P895518
 CATALOG NUMBER: 8TMB-SC3-RNDU-UNV-CC83-MID-400K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9
2.5°	2033.8	2031.9	2035.7	2039.6	2051.2	2035.7	2043.4	2022.2	2024.1	2026.1	2016.4
5°	2028.0	2022.2	2028.0	2031.9	2041.5	2029.9	2037.6	2014.5	2016.4	2020.3	2008.7
7.5°	2014.5	2008.7	2012.5	2016.4	2026.1	2014.5	2024.1	2001.0	2004.8	2006.7	1997.1
10°	1995.2	1987.4	1991.3	1997.1	2004.8	1995.2	2002.9	1981.6	1983.6	1987.4	1977.8
12.5°	1970.0	1962.3	1966.2	1970.0	1979.7	1970.0	1977.8	1956.5	1960.4	1964.3	1954.6
15°	1937.2	1929.5	1933.4	1937.2	1944.9	1939.1	1946.9	1925.6	1929.5	1937.2	1927.6
17.5°	1902.4	1890.9	1894.7	1900.5	1908.2	1904.4	1910.2	1892.8	1894.7	1902.4	1892.8
20°	1860.0	1848.4	1852.2	1858.0	1865.8	1863.8	1867.7	1852.2	1856.1	1865.8	1856.1
22.5°	1813.6	1802.0	1805.9	1813.6	1819.4	1819.4	1821.3	1809.7	1813.6	1823.3	1815.5
25°	1763.4	1751.8	1755.7	1763.4	1769.2	1769.2	1773.0	1761.5	1767.2	1776.9	1769.2
27.5°	1705.4	1699.7	1699.7	1707.4	1711.2	1715.1	1717.0	1707.4	1715.1	1724.8	1719.0
30°	1645.6	1637.8	1641.7	1651.4	1651.4	1659.1	1659.1	1651.4	1661.0	1672.6	1668.7
32.5°	1581.8	1576.0	1578.0	1589.6	1589.6	1599.2	1597.3	1593.4	1603.1	1616.6	1612.7
35°	1518.1	1512.3	1514.2	1525.8	1525.8	1537.4	1533.5	1533.5	1543.2	1558.7	1554.8
37.5°	1450.5	1446.6	1448.6	1460.2	1460.2	1471.7	1467.9	1469.8	1481.4	1498.8	1496.9
40°	1381.0	1377.1	1381.0	1390.6	1394.5	1404.1	1400.3	1404.1	1419.6	1435.0	1440.8
42.5°	1309.5	1307.6	1311.4	1321.1	1325.0	1334.6	1332.7	1338.5	1353.9	1377.1	1384.8
45°	1236.1	1236.1	1240.0	1249.6	1253.5	1265.1	1263.1	1270.9	1290.2	1315.3	1328.8
47.5°	1162.7	1164.6	1166.6	1178.2	1178.2	1197.5	1191.7	1203.3	1228.4	1257.4	1272.8
50°	1087.4	1091.3	1093.2	1102.8	1106.7	1124.1	1120.2	1139.5	1166.6	1197.5	1218.7
52.5°	1012.1	1015.9	1019.8	1027.5	1031.4	1052.6	1048.8	1073.9	1106.7	1139.5	1162.7
55°	932.9	940.6	942.5	952.2	958.0	979.2	979.2	1008.2	1043.0	1079.7	1108.6
57.5°	855.6	863.3	865.3	876.9	884.6	909.7	913.6	946.4	985.0	1021.7	1056.5
60°	776.4	786.1	788.0	799.6	813.1	840.2	846.0	882.7	925.2	963.8	1004.3
62.5°	697.2	706.9	710.8	722.4	743.6	770.6	780.3	822.8	867.2	909.7	954.1
65°	618.1	627.7	633.5	649.0	674.1	703.0	716.6	761.0	811.2	855.6	902.0
67.5°	538.9	550.5	558.2	577.5	610.3	641.2	654.8	705.0	757.1	805.4	853.7
70°	461.6	473.2	482.9	508.0	546.6	577.5	594.9	649.0	703.0	755.2	809.3
72.5°	386.3	397.9	411.4	442.3	484.8	519.6	538.9	594.9	654.8	706.9	762.9
75°	309.0	322.5	338.0	380.5	428.8	463.5	484.8	544.7	606.5	658.6	718.5
77.5°	239.5	253.0	276.2	318.7	372.8	411.4	434.6	498.3	562.0	614.2	676.0
80°	175.8	189.3	220.2	266.5	322.5	359.2	388.2	453.9	519.6	573.6	635.4
82.5°	119.7	133.3	170.0	220.2	280.1	316.8	343.8	413.3	479.0	535.0	596.8
85°	69.5	88.8	127.5	181.6	243.4	280.1	307.1	378.6	442.3	498.3	562.0
87.5°	30.9	54.1	96.6	150.7	212.5	247.2	276.2	341.9	409.5	465.5	529.2
90°	1.9	30.9	75.3	127.5	187.3	220.2	247.2	312.9	376.6	434.6	496.4
92.5°	3.9	21.2	61.8	110.1	166.1	198.9	226.0	287.8	347.7	407.5	467.4
95°	9.7	21.2	54.1	98.5	150.7	181.6	206.7	266.5	322.5	380.5	438.4
97.5°	15.5	23.2	52.1	92.7	139.1	168.0	191.2	247.2	303.2	355.4	413.3
100°	21.2	29.0	52.1	88.8	131.3	158.4	179.6	231.8	283.9	332.2	390.1
102.5°	27.0	34.8	56.0	88.8	127.5	150.7	171.9	220.2	268.5	312.9	367.0
105°	34.8	40.6	59.9	88.8	123.6	146.8	164.2	208.6	254.9	297.4	345.7
107.5°	42.5	46.4	63.7	90.8	123.6	142.9	160.3	200.9	243.4	282.0	328.3
110°	52.1	54.1	69.5	94.6	123.6	141.0	156.4	195.1	233.7	270.4	312.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	59.9	59.9	75.3	98.5	123.6	141.0	154.5	189.3	226.0	258.8	299.4
115°	69.5	69.5	81.1	102.4	125.5	141.0	154.5	187.3	220.2	249.2	287.8
117.5°	77.3	77.3	88.8	106.2	129.4	142.9	154.5	183.5	214.4	241.4	276.2
120°	85.0	85.0	92.7	110.1	131.3	144.9	154.5	181.6	208.6	235.6	266.5
122.5°	92.7	92.7	98.5	115.9	133.3	144.9	154.5	179.6	204.7	227.9	256.9
125°	100.4	100.4	104.3	119.7	137.1	146.8	156.4	179.6	202.8	222.1	251.1
127.5°	108.2	106.2	112.0	125.5	139.1	148.7	158.4	179.6	198.9	218.3	243.4
130°	114.0	112.0	119.7	129.4	142.9	150.7	158.4	177.7	197.0	214.4	235.6
132.5°	121.7	117.8	127.5	131.3	146.8	154.5	160.3	177.7	195.1	210.5	231.8
135°	127.5	123.6	133.3	137.1	148.7	156.4	162.2	177.7	193.1	208.6	226.0
137.5°	131.3	129.4	139.1	142.9	150.7	158.4	164.2	177.7	191.2	204.7	222.1
140°	133.3	131.3	139.1	146.8	150.7	158.4	162.2	175.8	189.3	200.9	216.3
142.5°	135.2	135.2	141.0	148.7	150.7	156.4	162.2	173.8	185.4	195.1	212.5
145°	135.2	135.2	141.0	150.7	152.6	154.5	158.4	170.0	179.6	189.3	204.7
147.5°	135.2	135.2	142.9	150.7	154.5	156.4	154.5	166.1	175.8	183.5	197.0
150°	135.2	135.2	142.9	150.7	156.4	158.4	156.4	162.2	170.0	177.7	189.3
152.5°	137.1	137.1	142.9	150.7	156.4	158.4	158.4	158.4	164.2	171.9	183.5
155°	137.1	139.1	142.9	154.5	158.4	160.3	160.3	160.3	158.4	166.1	175.8
157.5°	142.9	144.9	146.8	156.4	160.3	162.2	162.2	162.2	160.3	158.4	168.0
160°	148.7	150.7	152.6	160.3	164.2	166.1	166.1	166.1	162.2	160.3	160.3
162.5°	154.5	158.4	158.4	162.2	166.1	168.0	168.0	170.0	166.1	164.2	162.2
165°	162.2	164.2	164.2	166.1	170.0	171.9	170.0	171.9	170.0	168.0	166.1
167.5°	168.0	170.0	170.0	171.9	171.9	173.8	173.8	173.8	171.9	170.0	170.0
170°	173.8	175.8	175.8	175.8	175.8	175.8	175.8	175.8	173.8	170.0	170.0
172.5°	177.7	179.6	179.6	177.7	177.7	177.7	177.7	175.8	171.9	170.0	170.0
175°	179.6	181.6	181.6	179.6	177.7	177.7	177.7	175.8	171.9	170.0	170.0
177.5°	181.6	183.5	181.6	181.6	177.7	177.7	177.7	177.7	173.8	171.9	170.0
180°	156.4	156.4	156.4	156.4	156.4	156.4	156.4	156.4	156.4	156.4	156.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9	2029.9
2.5°	2028.0	2004.8	2020.3	2022.2	2029.9	2022.2	2028.0	2022.2	2037.6	2031.9
5°	2020.3	1999.0	2012.5	2014.5	2024.1	2014.5	2024.1	2020.3	2039.6	2033.8
7.5°	2006.7	1989.4	2001.0	2002.9	2014.5	2004.8	2014.5	2010.6	2033.8	2026.1
10°	1987.4	1973.9	1985.5	1987.4	1999.0	1989.4	1997.1	1993.2	2018.3	2006.7
12.5°	1966.2	1954.6	1964.3	1966.2	1979.7	1970.0	1979.7	1975.8	2001.0	1989.4
15°	1935.3	1929.5	1939.1	1943.0	1956.5	1948.8	1958.5	1954.6	1981.6	1966.2
17.5°	1904.4	1900.5	1910.2	1914.0	1929.5	1919.8	1929.5	1925.6	1952.7	1937.2
20°	1865.8	1863.8	1873.5	1879.3	1892.8	1883.1	1894.7	1890.9	1919.8	1904.4
22.5°	1825.2	1825.2	1832.9	1838.7	1852.2	1844.5	1856.1	1854.2	1883.1	1867.7
25°	1780.8	1782.7	1790.4	1798.2	1813.6	1807.8	1817.5	1817.5	1844.5	1825.2
27.5°	1730.6	1740.2	1746.0	1755.7	1769.2	1763.4	1773.0	1775.0	1802.0	1782.7
30°	1678.4	1691.9	1697.7	1709.3	1720.9	1720.9	1730.6	1734.4	1761.5	1742.1
32.5°	1624.3	1639.8	1647.5	1663.0	1678.4	1678.4	1691.9	1697.7	1724.8	1707.4
35°	1570.2	1591.5	1601.1	1620.5	1635.9	1637.8	1651.4	1659.1	1686.1	1668.7
37.5°	1518.1	1545.1	1554.8	1578.0	1591.5	1595.4	1610.8	1620.5	1645.6	1630.1
40°	1464.0	1496.9	1508.4	1533.5	1545.1	1552.9	1568.3	1579.9	1603.1	1589.6
42.5°	1411.9	1448.6	1460.2	1487.2	1500.7	1508.4	1523.9	1539.3	1562.5	1549.0
45°	1359.7	1400.3	1413.8	1442.8	1454.4	1465.9	1483.3	1496.9	1518.1	1506.5
47.5°	1309.5	1352.0	1365.5	1396.4	1409.9	1423.5	1438.9	1458.2	1477.5	1465.9
50°	1257.4	1301.8	1319.2	1352.0	1363.6	1379.0	1398.3	1415.7	1435.0	1425.4
52.5°	1207.1	1253.5	1270.9	1305.6	1319.2	1334.6	1353.9	1373.2	1390.6	1382.9
55°	1153.1	1203.3	1222.6	1259.3	1272.8	1288.3	1309.5	1330.7	1346.2	1340.4
57.5°	1102.8	1155.0	1174.3	1214.9	1226.5	1245.8	1267.0	1290.2	1303.7	1297.9
60°	1052.6	1104.8	1127.9	1168.5	1182.0	1201.3	1222.6	1247.7	1259.3	1255.4
62.5°	1002.4	1056.5	1081.6	1124.1	1135.7	1156.9	1182.0	1203.3	1214.9	1212.9
65°	956.1	1008.2	1037.2	1079.7	1091.3	1114.4	1137.6	1160.8	1172.4	1172.4
67.5°	907.8	963.8	992.8	1037.2	1046.8	1071.9	1097.0	1120.2	1129.9	1129.9
70°	863.3	917.4	950.3	994.7	1004.3	1027.5	1054.6	1079.7	1087.4	1089.3
72.5°	818.9	873.0	907.8	954.1	963.8	987.0	1012.1	1039.1	1044.9	1046.8
75°	776.4	830.5	865.3	911.6	921.3	944.5	971.5	996.6	1004.3	1006.3
77.5°	733.9	788.0	826.6	871.1	880.7	903.9	930.9	956.1	961.8	965.7
80°	695.3	747.5	784.2	832.4	842.1	865.3	890.4	915.5	919.4	925.2
82.5°	656.7	708.8	747.5	793.8	803.5	826.6	851.8	876.9	880.7	888.5
85°	620.0	672.1	710.8	755.2	766.8	788.0	815.1	838.2	842.1	847.9
87.5°	587.2	635.4	676.0	718.5	730.1	751.3	778.4	801.5	803.5	811.2
90°	552.4	600.7	641.2	683.7	695.3	714.6	741.7	764.8	768.7	774.5
92.5°	523.4	567.8	610.3	650.9	660.5	681.8	706.9	730.1	733.9	739.7
95°	492.5	536.9	579.4	618.1	627.7	649.0	672.1	695.3	699.2	705.0
97.5°	465.5	508.0	548.5	587.2	596.8	616.1	641.2	662.5	666.3	674.1
100°	440.4	480.9	523.4	558.2	567.8	587.2	610.3	631.6	635.4	643.2
102.5°	417.2	455.8	496.4	529.2	540.8	558.2	581.4	600.7	604.5	610.3
105°	395.9	432.6	471.3	502.2	513.8	531.1	552.4	571.7	575.6	581.4
107.5°	374.7	409.5	446.2	477.1	486.7	502.2	523.4	542.7	546.6	554.3
110°	355.4	390.1	424.9	453.9	465.5	477.1	498.3	515.7	519.6	525.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	338.0	368.9	403.7	430.7	440.4	453.9	471.3	488.6	492.5	500.2
115°	322.5	351.5	386.3	411.4	419.1	430.7	450.0	465.5	469.3	475.1
117.5°	309.0	334.1	365.0	390.1	399.8	409.5	426.8	440.4	446.2	450.0
120°	297.4	320.6	347.7	370.8	382.4	390.1	405.6	419.1	424.9	428.8
122.5°	285.9	307.1	332.2	353.4	363.1	368.9	386.3	397.9	403.7	409.5
125°	276.2	295.5	318.7	336.1	345.7	351.5	367.0	378.6	384.4	388.2
127.5°	266.5	283.9	307.1	320.6	330.3	334.1	347.7	359.2	365.0	367.0
130°	256.9	274.3	293.6	307.1	314.8	320.6	332.2	339.9	345.7	347.7
132.5°	249.2	264.6	282.0	295.5	303.2	305.2	316.8	324.5	330.3	332.2
135°	243.4	254.9	272.3	283.9	289.7	293.6	303.2	309.0	314.8	316.8
137.5°	235.6	247.2	262.7	270.4	278.1	280.1	289.7	295.5	301.3	303.2
140°	229.8	239.5	253.0	260.7	268.5	268.5	276.2	282.0	287.8	287.8
142.5°	224.0	233.7	245.3	253.0	258.8	258.8	266.5	270.4	276.2	276.2
145°	216.3	226.0	237.6	243.4	249.2	249.2	254.9	258.8	264.6	264.6
147.5°	208.6	218.3	229.8	233.7	239.5	239.5	245.3	249.2	253.0	253.0
150°	198.9	206.7	220.2	226.0	231.8	231.8	235.6	239.5	243.4	243.4
152.5°	191.2	197.0	208.6	216.3	222.1	222.1	226.0	229.8	233.7	233.7
155°	181.6	187.3	197.0	206.7	212.5	214.4	218.3	220.2	224.0	224.0
157.5°	173.8	179.6	187.3	195.1	200.9	204.7	210.5	212.5	214.4	214.4
160°	164.2	168.0	175.8	183.5	189.3	193.1	202.8	204.7	206.7	206.7
162.5°	160.3	160.3	164.2	170.0	175.8	177.7	187.3	195.1	198.9	197.0
165°	162.2	160.3	160.3	162.2	166.1	168.0	173.8	185.4	189.3	187.3
167.5°	166.1	162.2	160.3	160.3	164.2	164.2	170.0	179.6	191.2	187.3
170°	166.1	160.3	156.4	156.4	158.4	158.4	162.2	168.0	179.6	181.6
172.5°	164.2	160.3	154.5	146.8	148.7	146.8	144.9	148.7	150.7	170.0
175°	166.1	160.3	154.5	144.9	141.0	135.2	125.5	117.8	115.9	94.6
177.5°	164.2	158.4	150.7	142.9	139.1	131.3	119.7	106.2	98.5	86.9
180°	156.4	156.4	156.4	156.4	156.4	156.4	156.4	156.4	156.4	156.4



TEST NUMBER: P895518
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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	13.81	15.13	14.46	15.79	16.56	17.44	18.75	18.08	19.41	20.18
	3H	15.16	16.36	15.82	17.04	17.84	20.39	21.59	21.05	22.27	23.07
	4H	15.57	16.70	16.24	17.39	18.20	21.90	23.04	22.57	23.73	24.54
	6H	15.78	16.84	16.47	17.54	18.37	23.51	24.57	24.20	25.27	26.10
	8H	15.81	16.83	16.51	17.55	18.38	24.36	25.38	25.06	26.10	26.93
	12H	15.82	16.79	16.52	17.51	18.37	25.31	26.28	26.01	26.99	27.86
4H	2H	14.97	16.11	15.65	16.80	17.61	17.75	18.89	18.43	19.58	20.39
	3H	16.61	17.59	17.30	18.31	19.15	20.94	21.92	21.63	22.64	23.47
	4H	17.18	18.08	17.89	18.81	19.67	22.62	23.52	23.32	24.24	25.11
	6H	17.52	18.32	18.24	19.07	19.94	24.44	25.23	25.16	25.98	26.85
	8H	17.60	18.35	18.32	19.09	19.98	25.41	26.16	26.14	26.91	27.79
	12H	17.62	18.31	18.37	19.08	19.97	26.50	27.18	27.25	27.95	28.84
8H	4H	18.29	19.04	19.01	19.79	20.67	22.79	23.54	23.51	24.29	25.17
	6H	18.90	19.54	19.65	20.32	21.21	24.78	25.42	25.54	26.21	27.10
	8H	19.09	19.67	19.86	20.46	21.36	25.90	26.48	26.67	27.27	28.17
	12H	19.20	19.72	19.97	20.50	21.46	27.18	27.70	27.95	28.48	29.43
12H	4H	18.65	19.34	19.40	20.11	21.00	22.78	23.47	23.53	24.24	25.13
	6H	19.43	20.01	20.20	20.80	21.70	24.81	25.39	25.58	26.18	27.08
	8H	19.76	20.28	20.53	21.06	22.01	25.99	26.51	26.76	27.29	28.25