

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: P893672

Luminaire Tested: 4MB-5SL-RND-UNV-L950

Issue Date: 11/11/2024

**Test Information**

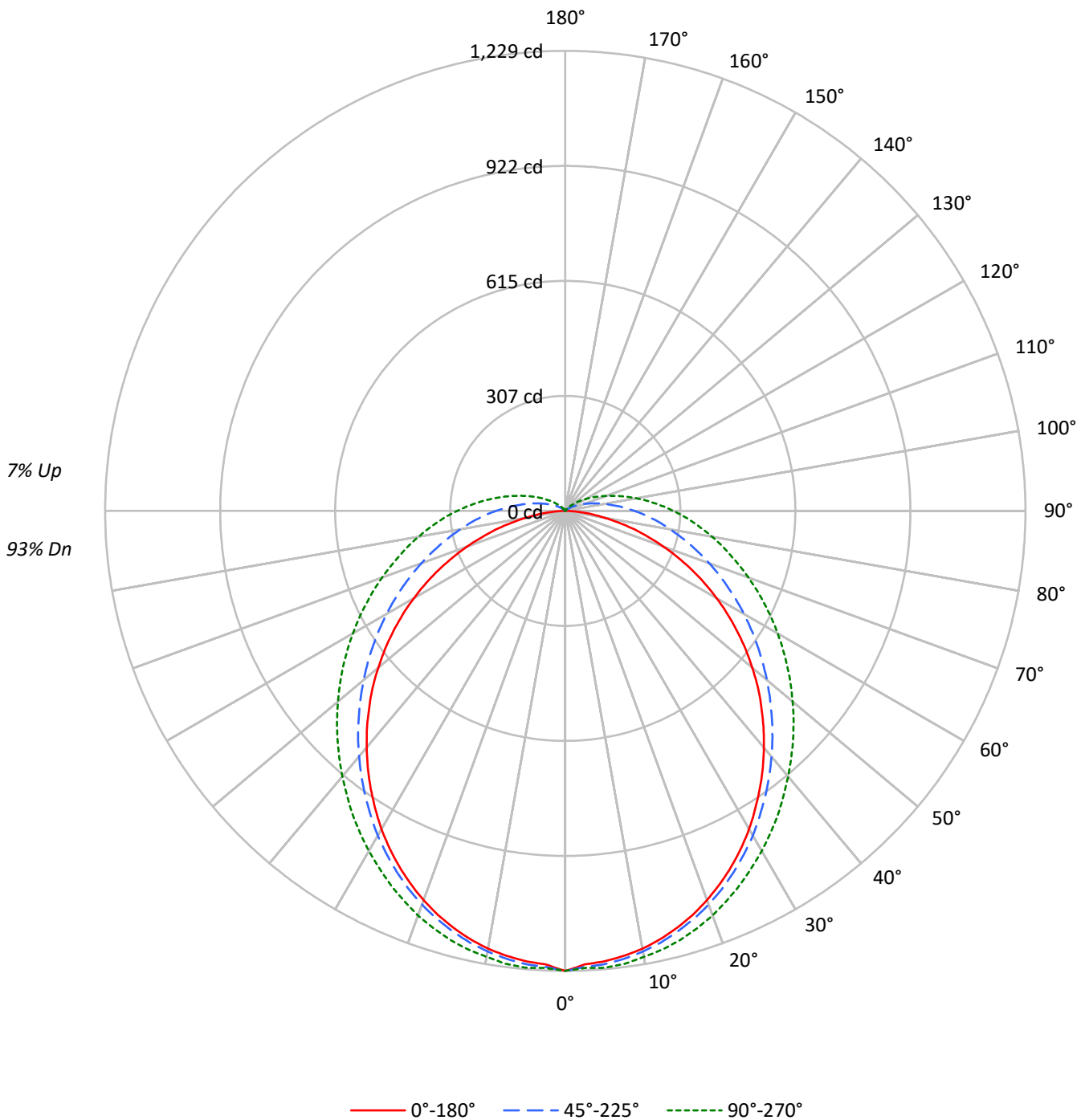
Test Method: LM-79-2019  
Report Number: P893672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-5SL-RND-UNV-L950  
Description: 5000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4068.0 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35  
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 9.55  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P893672  
CATALOG NUMBER: 4MB-5SL-RND-UNV-L950

### Luminous Intensity Polar Plot





TEST NUMBER: P893672

CATALOG NUMBER: 4MB-5SL-RND-UNV-L950

**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	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°	8743	8743	8743
5°	8626	8681	8749
10°	8579	8635	8739
15°	8492	8563	8740
20°	8380	8474	8707
25°	8235	8356	8658
30°	8065	8231	8618
35°	7868	8085	8602
40°	7663	7957	8601
45°	7450	7846	8659
50°	7216	7780	8770
55°	6954	7765	8981
60°	6650	7841	9318
65°	6281	8046	9874
70°	5821	8502	10822
75°	5259	9462	12555
80°	4454	11661	16312
85°	3608	18997	27944

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 51447 cd/sqm



TEST NUMBER: P893672  
 CATALOG NUMBER: 4MB-5SL-RND-UNV-L950

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.2	2.9
10°-20°	331.1	8.1
20°-30°	495.8	12.2
30°-40°	591.2	14.5
40°-50°	613.1	15.1
50°-60°	568.8	14.0
60°-70°	474.5	11.7
70°-80°	353.8	8.7
80°-90°	235.6	5.8
90°-100°	143.4	3.5
100°-110°	80.1	2.0
110°-120°	40.0	1.0
120°-130°	16.7	0.4
130°-140°	5.3	0.1
140°-150°	1.3	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	943.1	23.2
0°-40°	1534.3	37.7
0°-60°	2716.2	66.8
0°-90°	3780.1	92.9
90°-120°	263.5	6.5
90°-150°	286.8	7.1
90°-180°	288.0	7.1
0°-180°	4068.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1208	1236	1215	1222	1225	115
15°	1153	1183	1162	1184	1186	325
25°	1049	1077	1064	1094	1103	483
35°	906	930	931	977	990	567
45°	740	760	780	841	861	571
55°	561	580	626	699	724	501
65°	373	403	478	559	586	369
75°	191	244	344	428	457	202
85°	44	121	233	312	342	50
90°	2	80	185	261	288	3
95°	0	49	142	214	238	0
105°	0	15	78	132	152	0
115°	1	4	36	74	88	1
125°	1	1	14	36	44	1
135°	1	1	4	12	16	1
145°	1	1	1	3	4	1
155°	2	2	1	1	1	1
165°	2	2	1	1	1	1
175°	2	2	2	1	0	0
180°	2	2	2	2	2	



TEST NUMBER: P893672

CATALOG NUMBER: 4MB-5SL-RND-UNV-L950

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8
2.5°	1212.5	1214.4	1231.7	1230.8	1227.9	1239.4	1242.3	1232.7	1217.3	1232.7	1219.2
5°	1207.7	1209.6	1226.9	1226.0	1223.1	1235.6	1236.5	1227.9	1212.5	1227.9	1215.4
7.5°	1199.0	1201.0	1218.3	1217.3	1215.4	1227.9	1226.9	1220.2	1203.8	1220.2	1206.7
10°	1187.5	1188.5	1206.7	1204.8	1203.8	1216.3	1213.5	1207.7	1191.3	1207.7	1195.2
12.5°	1172.1	1173.1	1191.3	1189.4	1189.4	1201.0	1197.1	1192.3	1176.0	1191.3	1180.8
15°	1152.9	1153.8	1171.1	1170.2	1170.2	1182.7	1176.9	1173.1	1157.7	1174.0	1162.5
17.5°	1131.7	1130.8	1149.0	1147.1	1149.0	1160.6	1152.9	1151.0	1136.5	1151.9	1142.3
20°	1106.7	1106.7	1123.1	1122.1	1125.0	1135.6	1126.0	1126.9	1112.5	1128.8	1119.2
22.5°	1078.8	1077.9	1094.2	1094.2	1097.1	1107.7	1097.1	1100.0	1085.6	1101.0	1093.3
25°	1049.0	1047.1	1063.5	1063.5	1068.3	1076.9	1065.4	1069.2	1055.8	1071.1	1064.4
27.5°	1016.3	1013.5	1029.8	1030.8	1034.6	1043.3	1030.8	1036.5	1024.0	1038.5	1033.6
30°	981.7	978.8	995.2	996.1	1001.0	1007.7	995.2	1002.9	991.3	1005.8	1001.9
32.5°	944.2	942.3	957.7	959.6	964.4	969.2	957.7	965.4	955.8	970.2	966.3
35°	905.8	903.8	918.3	921.1	926.0	929.8	917.3	927.9	919.2	932.7	930.8
37.5°	866.3	863.5	878.8	880.8	886.5	888.5	876.9	889.4	881.7	895.2	894.2
40°	825.0	822.1	837.5	839.4	845.2	845.2	835.6	849.0	843.3	855.8	856.7
42.5°	783.6	780.8	794.2	798.1	802.9	802.9	793.3	807.7	803.8	816.3	819.2
45°	740.4	737.5	750.0	753.8	759.6	759.6	750.0	766.3	763.5	776.0	779.8
47.5°	698.1	694.2	705.8	709.6	715.4	714.4	706.7	723.1	722.1	734.6	741.3
50°	651.9	649.0	660.6	664.4	671.1	669.2	663.5	680.8	680.8	693.3	702.9
52.5°	606.7	603.8	615.4	619.2	625.0	625.0	619.2	637.5	640.4	652.9	664.4
55°	560.6	556.7	568.3	572.1	578.8	579.8	575.0	593.3	599.0	613.5	626.0
57.5°	514.4	512.5	522.1	526.0	534.6	534.6	531.7	551.0	558.6	574.0	588.5
60°	467.3	465.4	474.0	478.8	488.5	490.4	488.5	508.6	519.2	534.6	551.0
62.5°	420.2	418.3	426.9	433.7	444.2	446.2	447.1	468.3	479.8	496.1	514.4
65°	373.1	371.2	379.8	387.5	400.0	402.9	405.8	427.9	441.3	458.7	477.9
67.5°	326.0	325.0	333.7	343.3	356.7	360.6	365.4	388.5	403.8	422.1	443.3
70°	279.8	278.8	287.5	299.0	315.4	320.2	326.0	349.0	368.3	387.5	408.7
72.5°	233.7	234.6	244.2	257.7	276.0	280.8	288.5	312.5	333.7	353.8	376.0
75°	191.3	191.3	201.9	217.3	237.5	244.2	252.9	277.9	300.0	321.2	344.2
77.5°	148.1	148.1	160.6	179.8	201.9	208.7	219.2	245.2	269.2	290.4	313.5
80°	108.7	110.6	125.0	144.2	167.3	176.0	188.5	214.4	240.4	261.5	284.6
82.5°	74.0	76.9	92.3	114.4	137.5	146.2	158.7	186.5	212.5	234.6	258.7
85°	44.2	49.0	65.4	87.5	111.5	121.2	134.6	160.6	186.5	208.7	232.7
87.5°	20.2	26.9	44.2	66.3	89.4	100.0	111.5	136.5	162.5	184.6	209.6
90°	1.9	11.5	28.8	48.1	70.2	79.8	91.3	115.4	140.4	160.6	184.6
92.5°	0.0	4.8	17.3	34.6	53.8	63.5	74.0	97.1	119.2	139.4	162.5
95°	0.0	1.9	9.6	24.0	40.4	49.0	58.7	79.8	101.9	121.2	142.3
97.5°	0.0	1.0	5.8	16.3	29.8	37.5	46.2	65.4	85.6	103.8	123.1
100°	0.0	1.0	2.9	10.6	22.1	27.9	36.5	52.9	71.2	87.5	106.7
102.5°	0.0	0.0	1.9	6.7	16.3	21.2	27.9	42.3	58.7	74.0	91.3
105°	0.0	0.0	1.0	4.8	11.5	15.4	21.2	33.7	48.1	61.5	77.9
107.5°	0.0	0.0	1.0	2.9	7.7	11.5	16.3	26.0	38.5	51.0	65.4
110°	1.0	1.0	1.0	1.9	5.8	8.7	11.5	20.2	31.7	42.3	54.8



TEST NUMBER: P893672

CATALOG NUMBER: 4MB-5SL-RND-UNV-L950

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.0	1.0	1.0	1.0	3.8	5.8	8.7	15.4	25.0	33.7	45.2
115°	1.0	1.0	1.0	1.0	2.9	3.8	5.8	11.5	19.2	26.9	36.5
117.5°	1.0	1.0	1.0	1.0	1.9	2.9	3.8	8.7	14.4	21.2	29.8
120°	1.0	1.0	1.0	1.0	1.0	1.9	2.9	5.8	11.5	16.3	24.0
122.5°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	4.8	8.7	12.5	18.3
125°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	5.8	9.6	14.4
127.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8	6.7	10.6
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	4.8	7.7
132.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8	5.8
135°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9	3.8
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	2.9
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
145°	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0
157.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0
165°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0	1.0
167.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0
170°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
172.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.0
175°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
177.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



TEST NUMBER: P893672

CATALOG NUMBER: 4MB-5SL-RND-UNV-L950

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8	1228.8
2.5°	1223.1	1226.0	1228.8	1221.1	1226.0	1234.6	1237.5	1226.0	1229.8	1222.1
5°	1219.2	1221.1	1225.0	1215.4	1222.1	1229.8	1234.6	1225.0	1230.8	1225.0
7.5°	1211.5	1213.5	1218.3	1208.6	1217.3	1224.0	1229.8	1220.2	1226.0	1220.2
10°	1200.0	1202.9	1209.6	1198.1	1208.6	1214.4	1220.2	1209.6	1215.4	1209.6
12.5°	1185.6	1190.4	1196.1	1185.6	1196.1	1201.0	1208.6	1198.1	1204.8	1200.0
15°	1168.3	1173.1	1180.8	1170.2	1183.6	1187.5	1195.2	1184.6	1191.3	1186.5
17.5°	1148.1	1153.8	1163.5	1151.0	1166.3	1169.2	1176.9	1167.3	1174.0	1169.2
20°	1125.0	1130.8	1140.4	1128.8	1144.2	1146.1	1154.8	1146.1	1152.9	1150.0
22.5°	1098.1	1104.8	1114.4	1103.8	1120.2	1120.2	1130.8	1122.1	1129.8	1126.9
25°	1070.2	1077.9	1088.5	1076.9	1094.2	1094.2	1105.8	1097.1	1104.8	1102.9
27.5°	1040.4	1049.0	1061.5	1050.0	1067.3	1066.3	1077.9	1070.2	1078.8	1076.0
30°	1008.6	1018.3	1030.8	1021.1	1039.4	1037.5	1049.0	1042.3	1050.0	1049.0
32.5°	974.0	984.6	1000.0	989.4	1007.7	1005.8	1020.2	1012.5	1022.1	1020.2
35°	939.4	951.0	966.3	956.7	976.9	974.0	988.5	981.7	991.3	990.4
37.5°	903.8	916.3	931.7	924.0	943.3	940.4	955.8	950.0	960.6	957.7
40°	867.3	879.8	896.1	889.4	909.6	905.8	922.1	917.3	927.9	926.0
42.5°	830.8	844.2	860.6	856.7	876.0	872.1	888.5	884.6	895.2	893.3
45°	793.3	807.7	825.0	821.1	841.3	837.5	853.8	851.0	861.5	860.6
47.5°	755.8	771.1	788.5	786.5	805.8	801.9	819.2	816.3	826.9	826.9
50°	717.3	734.6	751.9	751.0	770.2	766.3	781.7	781.7	793.3	792.3
52.5°	678.8	697.1	715.4	715.4	734.6	730.8	748.1	747.1	758.6	758.6
55°	642.3	658.6	676.9	680.8	699.0	693.3	711.5	713.5	723.1	724.0
57.5°	605.8	623.1	641.3	646.1	663.5	659.6	676.9	678.8	688.5	689.4
60°	569.2	585.6	603.8	610.6	627.9	624.0	641.3	643.3	653.8	654.8
62.5°	532.7	549.0	569.2	576.0	592.3	589.4	607.7	609.6	619.2	621.1
65°	497.1	514.4	533.6	543.3	558.6	554.8	573.1	575.0	585.6	586.5
67.5°	462.5	479.8	499.0	509.6	524.0	522.1	539.4	543.3	551.9	553.8
70°	428.8	446.2	466.3	476.9	491.3	490.4	506.7	509.6	519.2	520.2
72.5°	396.2	413.5	433.7	446.2	458.7	457.7	474.0	477.9	487.5	488.5
75°	364.4	382.7	401.9	415.4	427.9	426.9	443.3	447.1	455.8	456.7
77.5°	334.6	352.9	373.1	386.5	397.1	398.1	412.5	416.3	425.0	427.9
80°	306.7	324.0	343.3	357.7	367.3	369.2	382.7	387.5	394.2	398.1
82.5°	279.8	297.1	316.3	329.8	339.4	341.3	353.8	359.6	366.3	369.2
85°	253.8	271.2	289.4	303.8	312.5	313.5	326.0	331.7	337.5	342.3
87.5°	228.8	246.2	263.5	278.8	286.5	288.5	300.0	305.8	310.6	315.4
90°	203.8	221.2	238.5	252.9	260.6	261.5	274.0	279.8	284.6	288.5
92.5°	180.8	198.1	215.4	229.8	236.5	238.5	249.0	255.8	259.6	263.5
95°	158.7	176.0	191.3	206.7	213.5	216.3	226.0	231.7	236.5	238.5
97.5°	139.4	154.8	169.2	184.6	190.4	193.3	202.9	209.6	213.5	215.4
100°	121.2	135.6	149.0	163.5	169.2	172.1	180.8	186.5	190.4	193.3
102.5°	104.8	118.3	130.8	144.2	150.0	151.9	159.6	165.4	169.2	172.1
105°	90.4	102.9	114.4	126.9	131.7	134.6	141.3	146.2	150.0	151.9
107.5°	76.9	89.4	99.0	110.6	115.4	117.3	124.0	129.8	132.7	133.7
110°	65.4	76.0	85.6	95.2	101.0	102.9	108.7	113.5	116.3	117.3





TEST NUMBER: P893672

CATALOG NUMBER: 4MB-5SL-RND-UNV-L950

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	54.8	64.4	73.1	81.7	86.5	88.5	94.2	99.0	101.0	101.9
115°	45.2	54.8	61.5	70.2	74.0	76.0	80.8	85.6	86.5	88.5
117.5°	36.5	45.2	51.9	58.7	62.5	64.4	68.3	72.1	74.0	75.0
120°	29.8	36.5	42.3	49.0	51.9	53.8	57.7	61.5	62.5	63.5
122.5°	24.0	29.8	34.6	40.4	43.3	45.2	48.1	51.0	51.9	52.9
125°	18.3	24.0	27.9	32.7	35.6	36.5	39.4	42.3	43.3	44.2
127.5°	14.4	18.3	22.1	26.0	27.9	28.8	31.7	33.7	34.6	35.6
130°	10.6	13.5	16.3	20.2	22.1	23.1	25.0	26.9	27.9	27.9
132.5°	7.7	10.6	12.5	15.4	16.3	17.3	19.2	21.2	21.2	22.1
135°	4.8	6.7	8.7	10.6	12.5	12.5	14.4	15.4	16.3	16.3
137.5°	3.8	4.8	5.8	7.7	8.7	9.6	9.6	11.5	11.5	11.5
140°	2.9	3.8	3.8	4.8	5.8	6.7	6.7	7.7	7.7	7.7
142.5°	1.9	2.9	2.9	3.8	3.8	4.8	4.8	4.8	5.8	5.8
145°	1.9	1.9	1.9	2.9	2.9	2.9	2.9	3.8	3.8	3.8
147.5°	1.0	1.0	1.9	1.9	1.9	1.9	1.9	2.9	2.9	2.9
150°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9	1.9	1.9
152.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
165°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
167.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
170°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
172.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
177.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



TEST NUMBER: P893672  
 CATALOG NUMBER: 4MB-5SL-RND-UNV-L950

**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	17.82	19.36	18.29	19.81	20.30	19.39	20.93	19.86	21.39	21.87
	3H	19.50	20.90	19.98	21.37	21.89	22.02	23.42	22.50	23.89	24.41
	4H	20.10	21.43	20.60	21.91	22.45	23.33	24.66	23.83	25.14	25.68
	6H	20.49	21.73	21.01	22.23	22.79	24.73	25.97	25.25	26.47	27.03
	8H	20.61	21.80	21.14	22.32	22.88	25.48	26.67	26.01	27.19	27.75
	12H	20.69	21.83	21.22	22.34	22.94	26.33	27.47	26.87	27.99	28.58
4H	2H	18.75	20.08	19.25	20.56	21.10	19.94	21.27	20.45	21.76	22.30
	3H	20.73	21.86	21.24	22.39	22.96	22.86	24.00	23.38	24.52	25.09
	4H	21.50	22.54	22.04	23.08	23.68	24.38	25.43	24.92	25.96	26.56
	6H	22.08	23.00	22.64	23.57	24.18	26.03	26.95	26.58	27.51	28.12
	8H	22.27	23.13	22.83	23.70	24.32	26.91	27.77	27.47	28.34	28.96
	12H	22.39	23.18	22.97	23.77	24.40	27.91	28.70	28.49	29.29	29.92
8H	4H	22.38	23.25	22.94	23.81	24.44	24.75	25.61	25.31	26.18	26.80
	6H	23.26	24.00	23.86	24.61	25.23	26.65	27.38	27.24	27.99	28.62
	8H	23.61	24.28	24.22	24.89	25.53	27.73	28.40	28.34	29.01	29.65
	12H	23.88	24.48	24.49	25.08	25.79	28.99	29.59	29.60	30.19	30.90
12H	4H	22.66	23.45	23.24	24.04	24.67	24.79	25.57	25.37	26.17	26.79
	6H	23.71	24.38	24.32	25.00	25.64	26.76	27.42	27.36	28.04	28.68
	8H	24.23	24.83	24.84	25.43	26.14	27.95	28.55	28.56	29.15	29.86