

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: P894305

Luminaire Tested: 4MB-SC3-RND-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894305
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-SC3-RND-UNV-CC83-MID-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 5000K CCT, MID lu setting
Light Source: -
Ballast/Driver: -

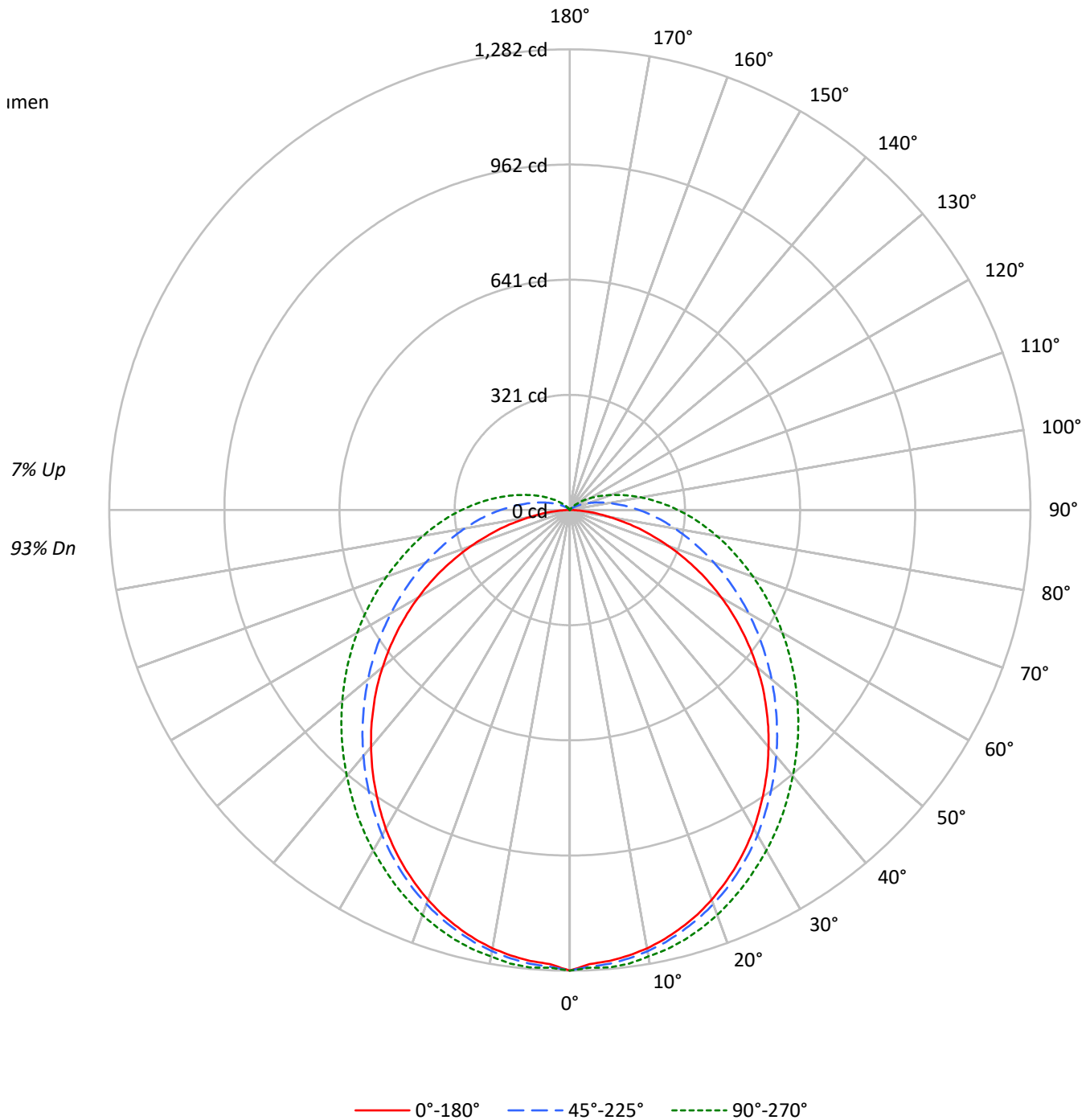
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4243.0 lumens
Efficiency: N/A
Efficacy: 126.7 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): 33.5
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	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°	9119	9119	9119
5°	8996	9054	9126
10°	8949	9006	9115
15°	8858	8931	9116
20°	8740	8839	9082
25°	8590	8716	9030
30°	8413	8585	8990
35°	8205	8432	8972
40°	7992	8300	8970
45°	7770	8184	9032
50°	7527	8115	9147
55°	7253	8099	9368
60°	6936	8178	9719
65°	6551	8391	10300
70°	6070	8866	11288
75°	5487	9869	13096
80°	4642	12165	17012
85°	3763	19813	29144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 53649 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	2.9
10°-20°	345.4	8.1
20°-30°	517.1	12.2
30°-40°	616.6	14.5
40°-50°	639.5	15.1
50°-60°	593.3	14.0
60°-70°	494.9	11.7
70°-80°	369.0	8.7
80°-90°	245.7	5.8
90°-100°	149.6	3.5
100°-110°	83.5	2.0
110°-120°	41.7	1.0
120°-130°	17.4	0.4
130°-140°	5.5	0.1
140°-150°	1.4	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	983.7	23.2
0°-40°	1600.3	37.7
0°-60°	2833.1	66.8
0°-90°	3942.7	92.9
90°-120°	274.8	6.5
90°-150°	299.1	7.0
90°-180°	300.0	7.1
0°-180°	4243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1260	1289	1268	1275	1278	120
15°	1202	1234	1212	1235	1238	339
25°	1094	1123	1110	1141	1150	504
35°	945	970	971	1019	1033	591
45°	772	792	813	878	898	596
55°	585	605	653	729	755	523
65°	389	420	498	583	612	385
75°	200	255	359	446	476	211
85°	46	126	243	326	357	52
90°	2	83	193	272	301	3
95°	0	51	148	223	249	0
105°	0	16	81	137	158	0
115°	1	4	38	77	92	1
125°	1	1	15	37	46	1
135°	1	1	4	13	17	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: P894305
 CATALOG NUMBER: 4MB-SC3-RND-UNV-CC83-MID-5000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7
2.5°	1264.7	1266.7	1284.7	1283.7	1280.7	1292.7	1295.7	1285.7	1269.7	1285.7	1271.7
5°	1259.6	1261.6	1279.7	1278.7	1275.7	1288.7	1289.7	1280.7	1264.7	1280.7	1267.7
7.5°	1250.6	1252.6	1270.7	1269.7	1267.7	1280.7	1279.7	1272.7	1255.6	1272.7	1258.6
10°	1238.6	1239.6	1258.6	1256.6	1255.6	1268.7	1265.7	1259.6	1242.6	1259.6	1246.6
12.5°	1222.5	1223.5	1242.6	1240.6	1240.6	1252.6	1248.6	1243.6	1226.5	1242.6	1231.6
15°	1202.5	1203.5	1221.5	1220.5	1220.5	1233.6	1227.5	1223.5	1207.5	1224.5	1212.5
17.5°	1180.4	1179.4	1198.5	1196.5	1198.5	1210.5	1202.5	1200.5	1185.4	1201.5	1191.4
20°	1154.3	1154.3	1171.4	1170.4	1173.4	1184.4	1174.4	1175.4	1160.3	1177.4	1167.4
22.5°	1125.2	1124.2	1141.3	1141.3	1144.3	1155.3	1144.3	1147.3	1132.3	1148.3	1140.3
25°	1094.2	1092.2	1109.2	1109.2	1114.2	1123.2	1111.2	1115.2	1101.2	1117.2	1110.2
27.5°	1060.1	1057.1	1074.1	1075.1	1079.1	1088.1	1075.1	1081.1	1068.1	1083.1	1078.1
30°	1024.0	1020.9	1038.0	1039.0	1044.0	1051.0	1038.0	1046.0	1034.0	1049.0	1045.0
32.5°	984.8	982.8	998.9	1000.9	1005.9	1010.9	998.9	1006.9	996.9	1011.9	1007.9
35°	944.7	942.7	957.8	960.8	965.8	969.8	956.8	967.8	958.8	972.8	970.8
37.5°	903.6	900.6	916.6	918.7	924.7	926.7	914.6	927.7	919.7	933.7	932.7
40°	860.5	857.5	873.5	875.5	881.5	881.5	871.5	885.6	879.5	892.6	893.6
42.5°	817.4	814.4	828.4	832.4	837.4	837.4	827.4	842.4	838.4	851.5	854.5
45°	772.2	769.2	782.3	786.3	792.3	792.3	782.3	799.3	796.3	809.3	813.3
47.5°	728.1	724.1	736.1	740.1	746.2	745.2	737.1	754.2	753.2	766.2	773.2
50°	680.0	677.0	689.0	693.0	700.0	698.0	692.0	710.0	710.0	723.1	733.1
52.5°	632.8	629.8	641.9	645.9	651.9	651.9	645.9	664.9	667.9	681.0	693.0
55°	584.7	580.7	592.7	596.7	603.7	604.7	599.7	618.8	624.8	639.8	652.9
57.5°	536.5	534.5	544.6	548.6	557.6	557.6	554.6	574.7	582.7	598.7	613.8
60°	487.4	485.4	494.4	499.4	509.5	511.5	509.5	530.5	541.6	557.6	574.7
62.5°	438.3	436.3	445.3	452.3	463.3	465.3	466.3	488.4	500.4	517.5	536.5
65°	389.1	387.1	396.1	404.2	417.2	420.2	423.2	446.3	460.3	478.4	498.4
67.5°	340.0	339.0	348.0	358.0	372.1	376.1	381.1	405.2	421.2	440.3	462.3
70°	291.8	290.8	299.9	311.9	328.9	334.0	340.0	364.1	384.1	404.2	426.2
72.5°	243.7	244.7	254.7	268.8	287.8	292.8	300.9	325.9	348.0	369.1	392.1
75°	199.6	199.6	210.6	226.7	247.7	254.7	263.8	289.8	312.9	335.0	359.0
77.5°	154.4	154.4	167.5	187.5	210.6	217.6	228.7	255.7	280.8	302.9	326.9
80°	113.3	115.3	130.4	150.4	174.5	183.5	196.6	223.6	250.7	272.8	296.9
82.5°	77.2	80.2	96.3	119.3	143.4	152.4	165.5	194.6	221.6	244.7	269.8
85°	46.1	51.1	68.2	91.3	116.3	126.4	140.4	167.5	194.6	217.6	242.7
87.5°	21.1	28.1	46.1	69.2	93.3	104.3	116.3	142.4	169.5	192.6	218.6
90°	2.0	12.0	30.1	50.1	73.2	83.2	95.3	120.3	146.4	167.5	192.6
92.5°	0.0	5.0	18.1	36.1	56.2	66.2	77.2	101.3	124.4	145.4	169.5
95°	0.0	2.0	10.0	25.1	42.1	51.1	61.2	83.2	106.3	126.4	148.4
97.5°	0.0	1.0	6.0	17.0	31.1	39.1	48.1	68.2	89.3	108.3	128.4
100°	0.0	1.0	3.0	11.0	23.1	29.1	38.1	55.2	74.2	91.3	111.3
102.5°	0.0	0.0	2.0	7.0	17.0	22.1	29.1	44.1	61.2	77.2	95.3
105°	0.0	0.0	1.0	5.0	12.0	16.0	22.1	35.1	50.1	64.2	81.2
107.5°	0.0	0.0	1.0	3.0	8.0	12.0	17.0	27.1	40.1	53.2	68.2
110°	1.0	1.0	1.0	2.0	6.0	9.0	12.0	21.1	33.1	44.1	57.2



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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	4.0	6.0	9.0	16.0	26.1	35.1	47.1
115°	1.0	1.0	1.0	1.0	3.0	4.0	6.0	12.0	20.1	28.1	38.1
117.5°	1.0	1.0	1.0	1.0	2.0	3.0	4.0	9.0	15.0	22.1	31.1
120°	1.0	1.0	1.0	1.0	1.0	2.0	3.0	6.0	12.0	17.0	25.1
122.5°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	5.0	9.0	13.0	19.1
125°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	6.0	10.0	15.0
127.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0	7.0	11.0
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	5.0	8.0
132.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0	6.0
135°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
145°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
157.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
162.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
167.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0
170°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
172.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0
175°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
177.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7	1281.7
2.5°	1275.7	1278.7	1281.7	1273.7	1278.7	1287.7	1290.7	1278.7	1282.7	1274.7
5°	1271.7	1273.7	1277.7	1267.7	1274.7	1282.7	1287.7	1277.7	1283.7	1277.7
7.5°	1263.6	1265.7	1270.7	1260.6	1269.7	1276.7	1282.7	1272.7	1278.7	1272.7
10°	1251.6	1254.6	1261.6	1249.6	1260.6	1266.7	1272.7	1261.6	1267.7	1261.6
12.5°	1236.6	1241.6	1247.6	1236.6	1247.6	1252.6	1260.6	1249.6	1256.6	1251.6
15°	1218.5	1223.5	1231.6	1220.5	1234.6	1238.6	1246.6	1235.6	1242.6	1237.6
17.5°	1197.5	1203.5	1213.5	1200.5	1216.5	1219.5	1227.5	1217.5	1224.5	1219.5
20°	1173.4	1179.4	1189.4	1177.4	1193.4	1195.5	1204.5	1195.5	1202.5	1199.5
22.5°	1145.3	1152.3	1162.4	1151.3	1168.4	1168.4	1179.4	1170.4	1178.4	1175.4
25°	1116.2	1124.2	1135.3	1123.2	1141.3	1141.3	1153.3	1144.3	1152.3	1150.3
27.5°	1085.1	1094.2	1107.2	1095.2	1113.2	1112.2	1124.2	1116.2	1125.2	1122.2
30°	1052.0	1062.1	1075.1	1065.1	1084.1	1082.1	1094.2	1087.1	1095.2	1094.2
32.5°	1015.9	1027.0	1043.0	1032.0	1051.0	1049.0	1064.1	1056.0	1066.1	1064.1
35°	979.8	991.9	1007.9	997.9	1018.9	1015.9	1031.0	1024.0	1034.0	1033.0
37.5°	942.7	955.8	971.8	963.8	983.8	980.8	996.9	990.9	1001.9	998.9
40°	904.6	917.6	934.7	927.7	948.7	944.7	961.8	956.8	967.8	965.8
42.5°	866.5	880.5	897.6	893.6	913.6	909.6	926.7	922.7	933.7	931.7
45°	827.4	842.4	860.5	856.5	877.5	873.5	890.6	887.6	898.6	897.6
47.5°	788.3	804.3	822.4	820.4	840.4	836.4	854.5	851.5	862.5	862.5
50°	748.2	766.2	784.3	783.3	803.3	799.3	815.4	815.4	827.4	826.4
52.5°	708.0	727.1	746.2	746.2	766.2	762.2	780.3	779.2	791.3	791.3
55°	669.9	687.0	706.0	710.0	729.1	723.1	742.1	744.1	754.2	755.2
57.5°	631.8	649.9	668.9	673.9	692.0	688.0	706.0	708.0	718.1	719.1
60°	593.7	610.8	629.8	636.8	654.9	650.9	668.9	670.9	682.0	683.0
62.5°	555.6	572.7	593.7	600.7	617.8	614.8	633.8	635.8	645.9	647.9
65°	518.5	536.5	556.6	566.6	582.7	578.7	597.7	599.7	610.8	611.8
67.5°	482.4	500.4	520.5	531.5	546.6	544.6	562.6	566.6	575.7	577.7
70°	447.3	465.3	486.4	497.4	512.5	511.5	528.5	531.5	541.6	542.6
72.5°	413.2	431.2	452.3	465.3	478.4	477.4	494.4	498.4	508.5	509.5
75°	380.1	399.2	419.2	433.3	446.3	445.3	462.3	466.3	475.4	476.4
77.5°	349.0	368.1	389.1	403.2	414.2	415.2	430.2	434.3	443.3	446.3
80°	319.9	338.0	358.0	373.1	383.1	385.1	399.2	404.2	411.2	415.2
82.5°	291.8	309.9	330.0	344.0	354.0	356.0	369.1	375.1	382.1	385.1
85°	264.8	282.8	301.9	316.9	325.9	326.9	340.0	346.0	352.0	357.0
87.5°	238.7	256.7	274.8	290.8	298.9	300.9	312.9	318.9	323.9	328.9
90°	212.6	230.7	248.7	263.8	271.8	272.8	285.8	291.8	296.9	300.9
92.5°	188.5	206.6	224.6	239.7	246.7	248.7	259.7	266.8	270.8	274.8
95°	165.5	183.5	199.6	215.6	222.6	225.7	235.7	241.7	246.7	248.7
97.5°	145.4	161.5	176.5	192.6	198.6	201.6	211.6	218.6	222.6	224.6
100°	126.4	141.4	155.4	170.5	176.5	179.5	188.5	194.6	198.6	201.6
102.5°	109.3	123.4	136.4	150.4	156.5	158.5	166.5	172.5	176.5	179.5
105°	94.3	107.3	119.3	132.4	137.4	140.4	147.4	152.4	156.5	158.5
107.5°	80.2	93.3	103.3	115.3	120.3	122.4	129.4	135.4	138.4	139.4
110°	68.2	79.2	89.3	99.3	105.3	107.3	113.3	118.3	121.4	122.4



TEST NUMBER: P894305
 CATALOG NUMBER: 4MB-SC3-RND-UNV-CC83-MID-5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	57.2	67.2	76.2	85.2	90.3	92.3	98.3	103.3	105.3	106.3
115°	47.1	57.2	64.2	73.2	77.2	79.2	84.2	89.3	90.3	92.3
117.5°	38.1	47.1	54.2	61.2	65.2	67.2	71.2	75.2	77.2	78.2
120°	31.1	38.1	44.1	51.1	54.2	56.2	60.2	64.2	65.2	66.2
122.5°	25.1	31.1	36.1	42.1	45.1	47.1	50.1	53.2	54.2	55.2
125°	19.1	25.1	29.1	34.1	37.1	38.1	41.1	44.1	45.1	46.1
127.5°	15.0	19.1	23.1	27.1	29.1	30.1	33.1	35.1	36.1	37.1
130°	11.0	14.0	17.0	21.1	23.1	24.1	26.1	28.1	29.1	29.1
132.5°	8.0	11.0	13.0	16.0	17.0	18.1	20.1	22.1	22.1	23.1
135°	5.0	7.0	9.0	11.0	13.0	13.0	15.0	16.0	17.0	17.0
137.5°	4.0	5.0	6.0	8.0	9.0	10.0	10.0	12.0	12.0	12.0
140°	3.0	4.0	4.0	5.0	6.0	7.0	7.0	8.0	8.0	8.0
142.5°	2.0	3.0	3.0	4.0	4.0	5.0	5.0	5.0	6.0	6.0
145°	2.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0
147.5°	1.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0
150°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



TEST NUMBER: P894305
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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	17.97	19.50	18.44	19.96	20.45	19.54	21.07	20.01	21.53	22.02
	3H	19.64	21.05	20.13	21.51	22.04	22.16	23.57	22.65	24.03	24.56
	4H	20.24	21.57	20.75	22.06	22.60	23.47	24.81	23.98	25.29	25.83
	6H	20.64	21.88	21.16	22.38	22.93	24.88	26.12	25.40	26.62	27.17
	8H	20.76	21.94	21.29	22.47	23.03	25.63	26.82	26.16	27.34	27.90
	12H	20.83	21.97	21.37	22.49	23.08	26.48	27.62	27.01	28.13	28.73
4H	2H	18.89	20.22	19.40	20.71	21.25	20.09	21.42	20.59	21.91	22.45
	3H	20.87	22.01	21.39	22.54	23.10	23.01	24.14	23.52	24.67	25.23
	4H	21.65	22.69	22.19	23.23	23.82	24.53	25.57	25.07	26.11	26.70
	6H	22.23	23.15	22.79	23.71	24.32	26.17	27.09	26.73	27.66	28.27
	8H	22.41	23.28	22.97	23.84	24.46	27.05	27.92	27.62	28.49	29.11
	12H	22.54	23.32	23.12	23.92	24.54	28.06	28.85	28.64	29.44	30.07
8H	4H	22.53	23.40	23.09	23.96	24.58	24.89	25.76	25.45	26.32	26.94
	6H	23.41	24.15	24.00	24.75	25.38	26.79	27.53	27.39	28.14	28.76
	8H	23.76	24.42	24.36	25.04	25.68	27.88	28.54	28.48	29.16	29.80
	12H	24.03	24.62	24.64	25.23	25.94	29.14	29.74	29.75	30.34	31.05
12H	4H	22.81	23.59	23.39	24.19	24.81	24.93	25.72	25.52	26.31	26.94
	6H	23.86	24.53	24.46	25.14	25.78	26.90	27.57	27.51	28.19	28.83
	8H	24.38	24.97	24.99	25.58	26.28	28.10	28.69	28.71	29.30	30.01