

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: P893618

Luminaire Tested: 4MB-5SL-FLT-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893618
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: 4MB-5SL-FLT-UNV-L835
Description: 5000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

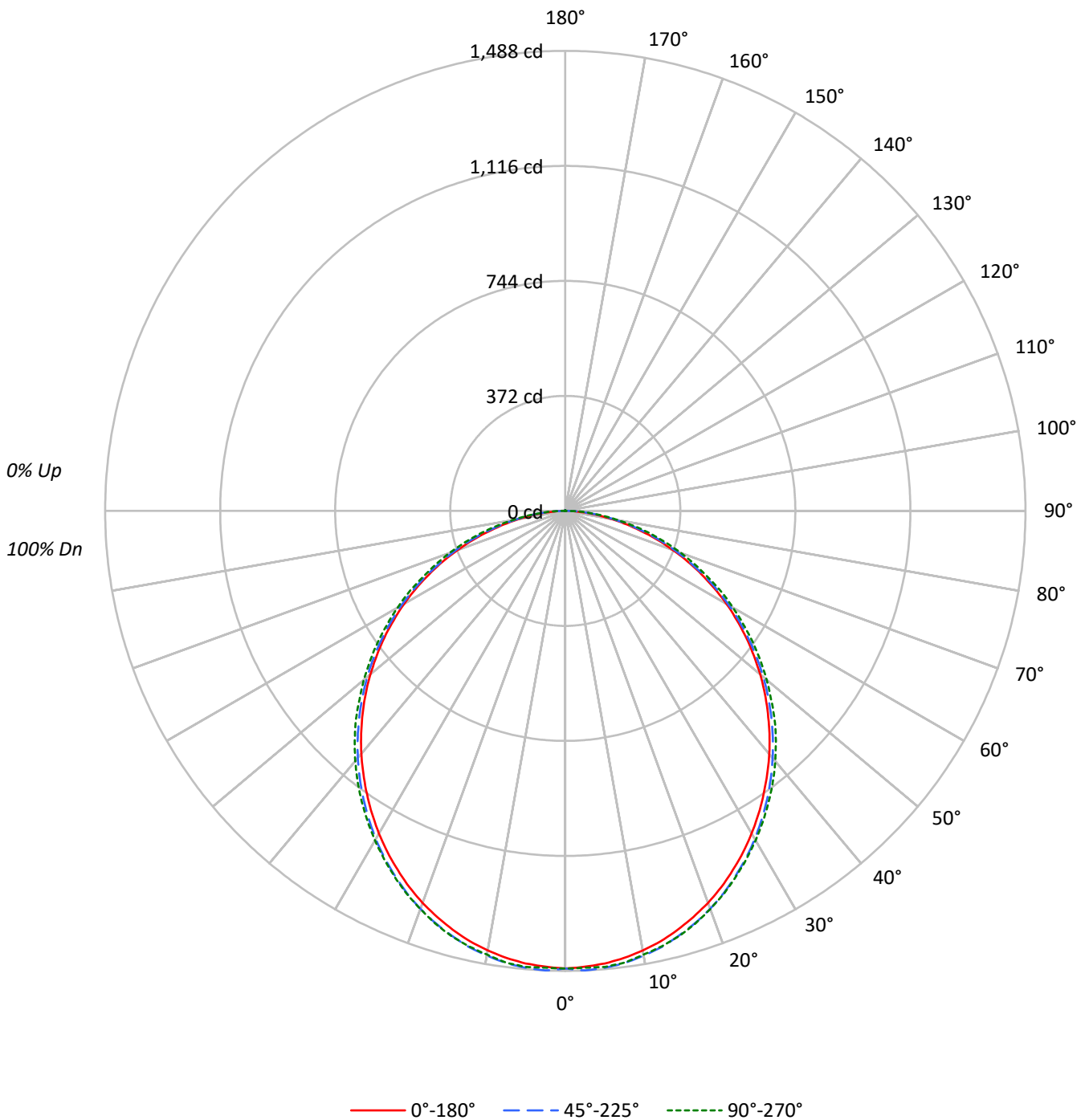
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4109.1 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
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 (A_{in}): 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: P893618
CATALOG NUMBER: 4MB-5SL-FLT-UNV-L835

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°	10532	10532	10532
5°	10495	10595	10572
10°	10428	10553	10530
15°	10337	10472	10488
20°	10215	10371	10379
25°	10064	10225	10251
30°	9900	10069	10114
35°	9713	9883	9967
40°	9531	9692	9813
45°	9323	9476	9639
50°	9104	9248	9415
55°	8858	8992	9181
60°	8574	8712	8912
65°	8190	8355	8574
70°	7710	7934	8296
75°	7090	7387	7865
80°	6261	6748	7105
85°	5396	6196	6637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9639 cd/sqm



TEST NUMBER: P893618
 CATALOG NUMBER: 4MB-5SL-FLT-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	3.4
10°-20°	399.0	9.7
20°-30°	597.9	14.5
30°-40°	711.4	17.3
40°-50°	729.9	17.8
50°-60°	653.9	15.9
60°-70°	496.9	12.1
70°-80°	288.8	7.0
80°-90°	86.7	2.1
90°-100°	2.1	0.1
100°-110°	0.4	0.0
110°-120°	0.0	0.0
120°-130°	0.2	0.0
130°-140°	0.4	0.0
140°-150°	0.7	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1136.8	27.7
0°-40°	1848.2	45.0
0°-60°	3232.0	78.7
0°-90°	4104.3	99.9
90°-120°	2.5	0.1
90°-150°	3.7	0.1
90°-180°	5.0	0.1
0°-180°	4109.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1469	1494	1484	1476	1480	139
15°	1403	1430	1422	1420	1424	396
25°	1282	1311	1302	1300	1306	591
35°	1118	1145	1138	1141	1148	700
45°	926	949	942	949	958	715
55°	714	731	725	734	740	638
65°	486	498	496	505	509	481
75°	258	268	269	278	286	274
85°	66	72	76	81	81	72
90°	1	4	4	8	6	5
95°	0	1	1	2	3	0
105°	0	0	0	1	1	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	1
135°	0	0	1	0	0	0
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	1	1	1	1	0
175°	2	2	2	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P893618

CATALOG NUMBER: 4MB-5SL-FLT-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2
2.5°	1475.9	1473.7	1475.9	1474.8	1485.6	1498.6	1496.5	1486.7	1475.9	1479.1	1487.8
5°	1469.4	1468.3	1471.6	1469.4	1480.2	1494.3	1490.0	1481.3	1471.6	1474.8	1483.5
7.5°	1458.5	1458.5	1462.9	1460.7	1470.5	1484.6	1480.2	1472.6	1462.9	1466.1	1474.8
10°	1443.4	1444.5	1449.9	1446.6	1455.3	1470.5	1466.1	1458.5	1449.9	1452.0	1460.7
12.5°	1426.0	1426.0	1432.5	1429.3	1438.0	1452.0	1446.6	1441.2	1432.5	1434.7	1444.5
15°	1403.3	1404.4	1412.0	1408.7	1416.3	1430.4	1425.0	1420.6	1413.0	1414.1	1421.7
17.5°	1377.3	1380.5	1388.1	1384.9	1392.4	1406.5	1400.0	1395.7	1389.2	1390.3	1397.9
20°	1349.1	1352.4	1359.9	1357.8	1363.2	1377.3	1370.8	1368.6	1362.1	1363.2	1369.7
22.5°	1317.7	1320.9	1329.6	1327.4	1332.8	1346.9	1339.3	1338.3	1331.8	1332.8	1338.3
25°	1281.9	1286.3	1296.0	1293.8	1298.2	1311.2	1304.7	1302.5	1298.2	1298.2	1302.5
27.5°	1245.1	1249.4	1260.2	1257.0	1260.2	1274.3	1266.7	1265.7	1261.3	1261.3	1265.7
30°	1205.0	1209.3	1221.2	1218.0	1221.2	1233.2	1225.6	1226.7	1222.3	1222.3	1225.6
32.5°	1162.7	1166.0	1179.0	1176.8	1179.0	1190.9	1183.3	1184.4	1180.1	1181.1	1182.2
35°	1118.3	1121.5	1135.6	1133.5	1134.5	1145.4	1140.0	1140.0	1136.7	1135.6	1137.8
37.5°	1072.8	1076.0	1093.4	1088.0	1088.0	1098.8	1094.5	1094.5	1091.2	1090.1	1091.2
40°	1026.2	1028.4	1046.8	1041.4	1040.3	1050.0	1046.8	1046.8	1044.6	1042.4	1043.5
42.5°	977.4	980.7	999.1	994.8	990.4	1001.3	998.0	999.1	995.8	993.7	993.7
45°	926.5	929.7	948.2	946.0	939.5	949.2	946.0	948.2	943.8	941.7	941.7
47.5°	875.6	879.9	897.2	894.0	887.5	897.2	894.0	896.2	891.8	889.6	889.6
50°	822.5	826.8	845.2	839.8	833.3	843.1	840.9	842.0	838.7	836.6	835.5
52.5°	768.3	773.7	791.0	784.5	779.1	787.8	786.7	787.8	783.5	782.4	781.3
55°	714.1	719.5	735.8	728.2	723.9	731.4	729.3	731.4	727.1	726.0	724.9
57.5°	657.8	663.2	678.3	670.8	667.5	674.0	672.9	674.0	670.8	669.7	668.6
60°	602.5	606.8	620.9	613.3	610.1	616.6	614.4	617.7	613.3	613.3	612.2
62.5°	544.0	549.4	563.5	554.8	552.6	558.1	555.9	559.1	557.0	554.8	553.7
65°	486.5	489.8	502.8	495.2	492.0	498.5	497.4	499.5	496.3	497.4	496.3
67.5°	429.1	431.3	444.3	435.6	433.4	439.9	441.0	439.9	437.8	438.9	437.8
70°	370.6	372.8	383.6	376.0	374.9	380.3	382.5	381.4	379.3	380.3	381.4
72.5°	314.2	315.3	325.1	318.6	317.5	324.0	324.0	324.0	324.0	324.0	326.2
75°	257.9	259.0	267.7	262.2	261.2	267.7	267.7	267.7	267.7	269.8	268.7
77.5°	203.7	202.6	211.3	208.1	205.9	212.4	212.4	213.5	215.6	217.8	214.6
80°	152.8	151.7	158.2	153.9	153.9	160.4	159.3	160.4	162.5	163.6	164.7
82.5°	107.3	105.1	110.5	109.4	108.4	113.8	114.9	113.8	117.0	118.1	118.1
85°	66.1	66.1	69.4	67.2	67.2	71.5	71.5	72.6	74.8	75.9	75.9
87.5°	31.4	30.3	33.6	32.5	31.4	34.7	34.7	35.8	36.8	37.9	36.8
90°	1.1	1.1	2.2	2.2	2.2	4.3	4.3	4.3	5.4	5.4	4.3
92.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
95°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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	1.1



TEST NUMBER: P893618
 CATALOG NUMBER: 4MB-5SL-FLT-UNV-L835

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	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	1.1
132.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
135°	0.0	1.1	1.1	1.1	1.1	0.0	1.1	0.0	0.0	0.0	1.1
137.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
140°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
142.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
145°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
147.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
157.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
160°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
167.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
170°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
172.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
175°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.1	2.2	2.2
177.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2	1480.2
2.5°	1474.8	1467.2	1464.0	1466.1	1481.3	1466.1	1482.4	1487.8	1468.3	1479.1
5°	1470.5	1462.9	1458.5	1460.7	1475.9	1461.8	1479.1	1485.6	1469.4	1480.2
7.5°	1461.8	1453.1	1451.0	1454.2	1467.2	1455.3	1472.6	1479.1	1462.9	1473.7
10°	1448.8	1441.2	1439.0	1442.3	1454.2	1442.3	1457.5	1462.9	1447.7	1457.5
12.5°	1432.5	1425.0	1422.8	1427.1	1438.0	1427.1	1442.3	1447.7	1432.5	1442.3
15°	1412.0	1404.4	1403.3	1409.8	1419.5	1409.8	1425.0	1429.3	1414.1	1423.9
17.5°	1387.0	1379.4	1380.5	1388.1	1395.7	1387.0	1401.1	1405.4	1391.4	1398.9
20°	1359.9	1351.3	1353.4	1359.9	1366.4	1357.8	1371.9	1376.2	1363.2	1370.8
22.5°	1328.5	1319.8	1322.0	1329.6	1333.9	1326.3	1339.3	1343.7	1332.8	1340.4
25°	1293.8	1286.3	1289.5	1297.1	1300.3	1293.8	1305.8	1309.0	1299.3	1305.8
27.5°	1259.2	1250.5	1254.8	1262.4	1264.6	1258.1	1270.0	1272.2	1262.4	1268.9
30°	1220.2	1211.5	1216.9	1225.6	1225.6	1221.2	1231.0	1233.2	1225.6	1231.0
32.5°	1176.8	1170.3	1176.8	1184.4	1183.3	1180.1	1189.8	1192.0	1185.5	1189.8
35°	1133.5	1128.0	1134.5	1142.1	1141.0	1137.8	1147.5	1148.6	1143.2	1147.5
37.5°	1089.0	1084.7	1091.2	1097.7	1095.5	1093.4	1102.0	1102.0	1098.8	1103.1
40°	1043.5	1039.2	1044.6	1052.2	1047.9	1047.9	1053.3	1055.4	1052.2	1056.5
42.5°	995.8	991.5	998.0	1004.5	1000.2	999.1	1005.6	1006.7	1004.5	1007.8
45°	946.0	941.7	948.2	953.6	949.2	949.2	954.7	954.7	953.6	957.9
47.5°	895.1	891.8	897.2	902.7	898.3	901.6	901.6	901.6	903.7	902.7
50°	843.1	839.8	844.1	850.6	845.2	846.3	848.5	848.5	849.6	850.6
52.5°	788.9	784.5	788.9	796.5	788.9	792.1	793.2	794.3	797.5	795.4
55°	734.7	730.4	734.7	741.2	733.6	737.9	737.9	739.0	742.3	740.1
57.5°	678.3	674.0	680.5	684.8	677.3	681.6	681.6	683.8	685.9	682.7
60°	622.0	618.7	620.9	628.5	620.9	625.2	625.2	625.2	629.6	626.3
62.5°	564.6	562.4	564.6	571.1	563.5	567.8	566.7	567.8	572.1	571.1
65°	506.0	503.9	506.0	512.6	505.0	509.3	509.3	510.4	513.6	509.3
67.5°	448.6	445.4	448.6	454.0	447.5	450.8	450.8	450.8	456.2	454.0
70°	390.1	387.9	390.1	395.5	390.1	392.3	392.3	392.3	397.7	398.8
72.5°	332.7	332.7	334.8	339.2	334.8	339.2	335.9	333.8	341.3	342.4
75°	276.3	277.4	278.5	282.8	278.5	282.8	280.7	278.5	285.0	286.1
77.5°	224.3	224.3	225.4	228.6	225.4	228.6	226.5	226.5	230.8	229.7
80°	171.2	171.2	172.3	175.5	172.3	175.5	173.4	173.4	177.7	173.4
82.5°	124.6	124.6	124.6	127.9	125.7	127.9	126.8	124.6	130.0	125.7
85°	80.2	81.3	81.3	82.4	81.3	82.4	82.4	81.3	84.5	81.3
87.5°	41.2	41.2	41.2	42.3	41.2	41.2	42.3	41.2	43.3	42.3
90°	7.6	6.5	6.5	8.7	7.6	7.6	8.7	6.5	7.6	6.5
92.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.3	4.3
95°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.3
97.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
100°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
102.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
105°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	1.1	1.1
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	1.1	0.0	0.0	0.0	1.1



TEST NUMBER: P893618
 CATALOG NUMBER: 4MB-5SL-FLT-UNV-L835

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	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.1	1.1	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°	1.1	1.1	1.1	1.1	0.0	1.1	0.0	0.0	0.0	0.0
140°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
142.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
145°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
147.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
157.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
160°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
167.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
170°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
172.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
175°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
177.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
180°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



TEST NUMBER: P893618
 CATALOG NUMBER: 4MB-5SL-FLT-UNV-L835

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	19.69	21.32	20.05	21.64	21.96	19.82	21.46	20.19	21.78	22.09
	3H	21.51	22.99	21.89	23.32	23.68	21.66	23.14	22.03	23.47	23.83
	4H	22.17	23.57	22.57	23.92	24.29	22.36	23.76	22.76	24.11	24.49
	6H	22.62	23.92	23.04	24.28	24.68	22.92	24.21	23.33	24.58	24.97
	8H	22.76	24.00	23.19	24.39	24.79	23.11	24.35	23.54	24.74	25.14
	12H	22.86	24.04	23.29	24.43	24.86	23.26	24.44	23.69	24.83	25.26
4H	2H	20.32	21.72	20.72	22.07	22.44	20.43	21.82	20.83	22.17	22.55
	3H	22.36	23.53	22.77	23.93	24.34	22.50	23.67	22.91	24.07	24.47
	4H	23.16	24.22	23.59	24.63	25.07	23.34	24.40	23.77	24.82	25.25
	6H	23.73	24.66	24.19	25.10	25.56	24.03	24.96	24.49	25.40	25.86
	8H	23.92	24.79	24.38	25.23	25.70	24.28	25.15	24.74	25.59	26.06
	12H	24.06	24.85	24.54	25.32	25.79	24.47	25.25	24.95	25.73	26.20
8H	4H	23.48	24.35	23.95	24.80	25.27	23.65	24.52	24.11	24.96	25.43
	6H	24.19	24.91	24.68	25.40	25.88	24.48	25.20	24.97	25.69	26.17
	8H	24.45	25.10	24.96	25.61	26.10	24.81	25.46	25.32	25.96	26.45
	12H	24.67	25.24	25.17	25.73	26.30	25.09	25.66	25.60	26.16	26.72
12H	4H	23.53	24.31	24.01	24.79	25.26	23.68	24.46	24.16	24.94	25.41
	6H	24.26	24.91	24.77	25.42	25.90	24.53	25.18	25.04	25.69	26.18
	8H	24.58	25.16	25.09	25.65	26.21	24.93	25.50	25.43	25.99	26.56