

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: P893617

Luminaire Tested: 4MB-5SL-FLT-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893617
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-L830
Description: 5000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

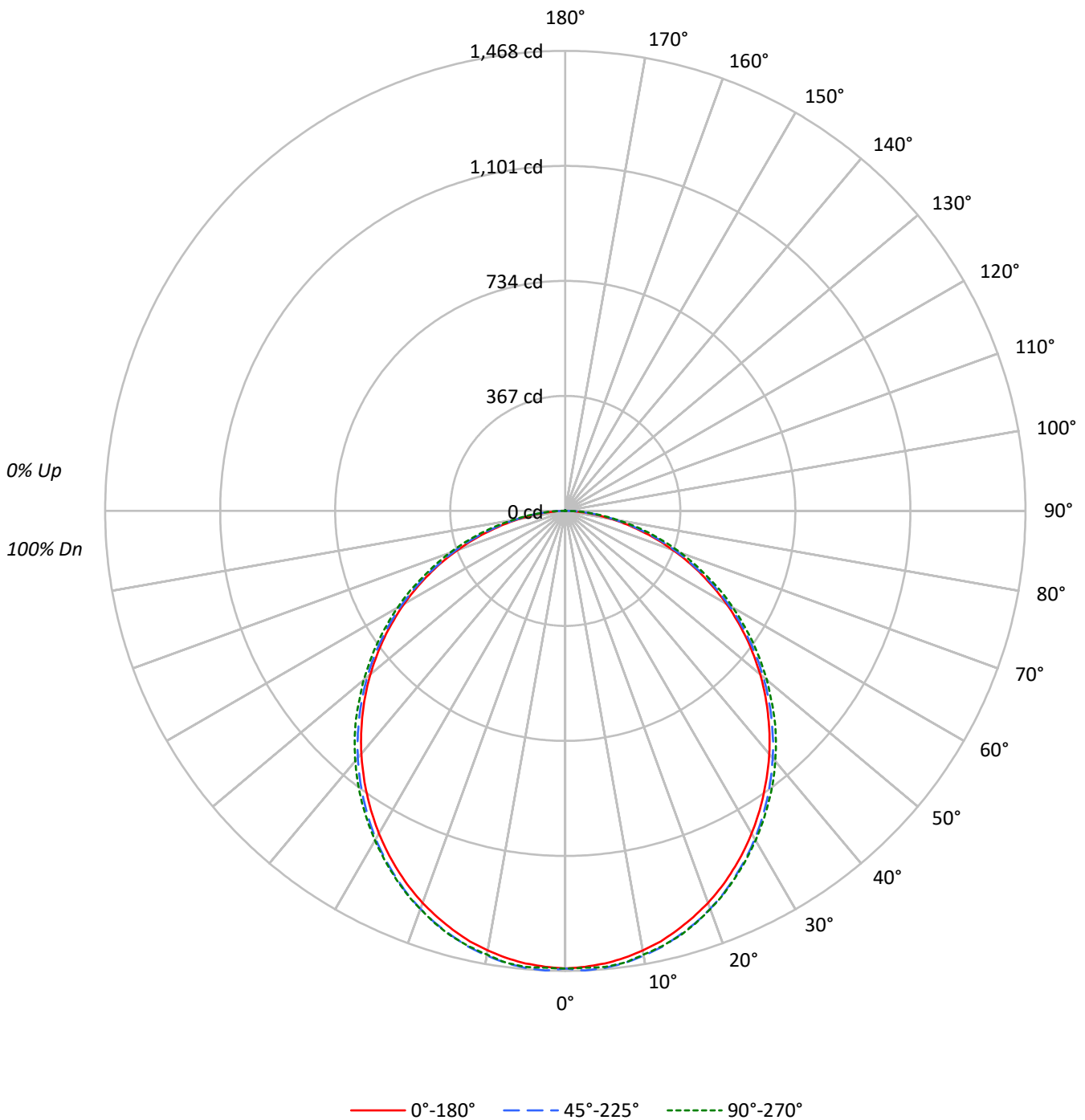
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4054.1 lumens
Efficiency: N/A
Efficacy: 115.8 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

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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	100	100	100	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83	83	83	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69	69	69	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58	58	58	58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50	50	50	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43	43	43	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38	38	38	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33	33	33	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30	30	30	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27	27	27	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10391	10391	10391
5°	10354	10453	10430
10°	10289	10412	10389
15°	10198	10332	10348
20°	10078	10232	10240
25°	9929	10089	10114
30°	9768	9934	9978
35°	9583	9751	9834
40°	9403	9563	9682
45°	9198	9349	9510
50°	8982	9124	9290
55°	8739	8872	9058
60°	8458	8595	8793
65°	8081	8244	8460
70°	7606	7828	8184
75°	6994	7288	7758
80°	6175	6658	7011
85°	5323	6106	6547

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9510 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	3.4
10°-20°	393.6	9.7
20°-30°	589.9	14.5
30°-40°	701.9	17.3
40°-50°	720.2	17.8
50°-60°	645.2	15.9
60°-70°	490.2	12.1
70°-80°	284.9	7.0
80°-90°	85.5	2.1
90°-100°	2.0	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°	1121.6	27.7
0°-40°	1823.4	45.0
0°-60°	3188.8	78.7
0°-90°	4049.4	99.9
90°-120°	2.4	0.1
90°-150°	3.7	0.1
90°-180°	5.0	0.1
0°-180°	4054.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1450	1474	1464	1456	1460	138
15°	1384	1411	1403	1400	1405	390
25°	1265	1294	1285	1283	1288	583
35°	1103	1130	1123	1126	1132	690
45°	914	936	929	936	945	705
55°	704	722	715	724	730	629
65°	480	492	490	498	502	475
75°	254	264	265	275	282	270
85°	65	71	75	80	80	71
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4
2.5°	1456.1	1454.0	1456.1	1455.1	1465.8	1478.6	1476.4	1466.8	1456.1	1459.3	1467.9
5°	1449.7	1448.6	1451.9	1449.7	1460.4	1474.3	1470.0	1461.5	1451.9	1455.1	1463.6
7.5°	1439.0	1439.0	1443.3	1441.2	1450.8	1464.7	1460.4	1452.9	1443.3	1446.5	1455.1
10°	1424.1	1425.1	1430.5	1427.3	1435.8	1450.8	1446.5	1439.0	1430.5	1432.6	1441.2
12.5°	1407.0	1407.0	1413.4	1410.2	1418.7	1432.6	1427.3	1421.9	1413.4	1415.5	1425.1
15°	1384.5	1385.6	1393.1	1389.8	1397.3	1411.2	1405.9	1401.6	1394.1	1395.2	1402.7
17.5°	1358.8	1362.0	1369.5	1366.3	1373.8	1387.7	1381.3	1377.0	1370.6	1371.7	1379.2
20°	1331.0	1334.3	1341.7	1339.6	1344.9	1358.8	1352.4	1350.3	1343.9	1344.9	1351.4
22.5°	1300.0	1303.2	1311.8	1309.7	1315.0	1328.9	1321.4	1320.4	1313.9	1315.0	1320.4
25°	1264.8	1269.0	1278.7	1276.5	1280.8	1293.6	1287.2	1285.1	1280.8	1280.8	1285.1
27.5°	1228.4	1232.7	1243.4	1240.2	1243.4	1257.3	1249.8	1248.7	1244.4	1244.4	1248.7
30°	1188.9	1193.1	1204.9	1201.7	1204.9	1216.6	1209.2	1210.2	1206.0	1206.0	1209.2
32.5°	1147.2	1150.4	1163.2	1161.1	1163.2	1175.0	1167.5	1168.5	1164.3	1165.3	1166.4
35°	1103.3	1106.5	1120.4	1118.3	1119.4	1130.1	1124.7	1124.7	1121.5	1120.4	1122.6
37.5°	1058.4	1061.6	1078.7	1073.4	1073.4	1084.1	1079.8	1079.8	1076.6	1075.5	1076.6
40°	1012.4	1014.6	1032.8	1027.4	1026.3	1036.0	1032.8	1032.8	1030.6	1028.5	1029.6
42.5°	964.3	967.5	985.7	981.4	977.2	987.9	984.7	985.7	982.5	980.4	980.4
45°	914.1	917.3	935.5	933.3	926.9	936.5	933.3	935.5	931.2	929.1	929.1
47.5°	863.8	868.1	885.2	882.0	875.6	885.2	882.0	884.2	879.9	877.7	877.7
50°	811.5	815.7	833.9	828.6	822.1	831.8	829.6	830.7	827.5	825.4	824.3
52.5°	758.0	763.3	780.5	774.0	768.7	777.2	776.2	777.2	773.0	771.9	770.8
55°	704.5	709.9	725.9	718.4	714.2	721.7	719.5	721.7	717.4	716.3	715.2
57.5°	649.0	654.3	669.3	661.8	658.6	665.0	663.9	665.0	661.8	660.7	659.6
60°	594.4	598.7	612.6	605.1	601.9	608.3	606.2	609.4	605.1	605.1	604.0
62.5°	536.7	542.0	555.9	547.4	545.2	550.6	548.5	551.7	549.5	547.4	546.3
65°	480.0	483.2	496.1	488.6	485.4	491.8	490.7	492.9	489.7	490.7	489.7
67.5°	423.4	425.5	438.3	429.8	427.6	434.1	435.1	434.1	431.9	433.0	431.9
70°	365.6	367.8	378.5	371.0	369.9	375.3	377.4	376.3	374.2	375.3	376.3
72.5°	310.0	311.1	320.7	314.3	313.2	319.7	319.7	319.7	319.7	319.7	321.8
75°	254.4	255.5	264.1	258.7	257.7	264.1	264.1	264.1	264.1	266.2	265.1
77.5°	201.0	199.9	208.5	205.3	203.1	209.5	209.5	210.6	212.8	214.9	211.7
80°	150.7	149.7	156.1	151.8	151.8	158.2	157.2	158.2	160.4	161.4	162.5
82.5°	105.8	103.7	109.0	108.0	106.9	112.3	113.3	112.3	115.5	116.5	116.5
85°	65.2	65.2	68.4	66.3	66.3	70.6	70.6	71.6	73.8	74.8	74.8
87.5°	31.0	29.9	33.1	32.1	31.0	34.2	34.2	35.3	36.3	37.4	36.3
90°	1.1	1.1	2.1	2.1	2.1	4.3	4.3	4.3	5.3	5.3	4.3
92.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
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



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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	1.1	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°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1
170°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1
172.5°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1
175°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.1	2.1	2.1
177.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4	1460.4
2.5°	1455.1	1447.6	1444.4	1446.5	1461.5	1446.5	1462.5	1467.9	1448.6	1459.3
5°	1450.8	1443.3	1439.0	1441.2	1456.1	1442.2	1459.3	1465.8	1449.7	1460.4
7.5°	1442.2	1433.7	1431.5	1434.7	1447.6	1435.8	1452.9	1459.3	1443.3	1454.0
10°	1429.4	1421.9	1419.8	1423.0	1434.7	1423.0	1438.0	1443.3	1428.3	1438.0
12.5°	1413.4	1405.9	1403.7	1408.0	1418.7	1408.0	1423.0	1428.3	1413.4	1423.0
15°	1393.1	1385.6	1384.5	1390.9	1400.5	1390.9	1405.9	1410.2	1395.2	1404.8
17.5°	1368.5	1361.0	1362.0	1369.5	1377.0	1368.5	1382.4	1386.6	1372.7	1380.2
20°	1341.7	1333.2	1335.3	1341.7	1348.1	1339.6	1353.5	1357.8	1344.9	1352.4
22.5°	1310.7	1302.2	1304.3	1311.8	1316.1	1308.6	1321.4	1325.7	1315.0	1322.5
25°	1276.5	1269.0	1272.2	1279.7	1282.9	1276.5	1288.3	1291.5	1281.9	1288.3
27.5°	1242.3	1233.8	1238.0	1245.5	1247.7	1241.2	1253.0	1255.1	1245.5	1251.9
30°	1203.8	1195.3	1200.6	1209.2	1209.2	1204.9	1214.5	1216.6	1209.2	1214.5
32.5°	1161.1	1154.6	1161.1	1168.5	1167.5	1164.3	1173.9	1176.0	1169.6	1173.9
35°	1118.3	1112.9	1119.4	1126.8	1125.8	1122.6	1132.2	1133.3	1127.9	1132.2
37.5°	1074.5	1070.2	1076.6	1083.0	1080.9	1078.7	1087.3	1087.3	1084.1	1088.4
40°	1029.6	1025.3	1030.6	1038.1	1033.8	1033.8	1039.2	1041.3	1038.1	1042.4
42.5°	982.5	978.2	984.7	991.1	986.8	985.7	992.1	993.2	991.1	994.3
45°	933.3	929.1	935.5	940.8	936.5	936.5	941.9	941.9	940.8	945.1
47.5°	883.1	879.9	885.2	890.6	886.3	889.5	889.5	889.5	891.6	890.6
50°	831.8	828.6	832.8	839.3	833.9	835.0	837.1	837.1	838.2	839.3
52.5°	778.3	774.0	778.3	785.8	778.3	781.5	782.6	783.7	786.9	784.7
55°	724.9	720.6	724.9	731.3	723.8	728.1	728.1	729.1	732.3	730.2
57.5°	669.3	665.0	671.4	675.7	668.2	672.5	672.5	674.6	676.7	673.5
60°	613.7	610.5	612.6	620.1	612.6	616.9	616.9	616.9	621.2	617.9
62.5°	557.0	554.9	557.0	563.4	555.9	560.2	559.1	560.2	564.5	563.4
65°	499.3	497.1	499.3	505.7	498.2	502.5	502.5	503.6	506.8	502.5
67.5°	442.6	439.4	442.6	448.0	441.5	444.8	444.8	444.8	450.1	448.0
70°	384.9	382.7	384.9	390.2	384.9	387.0	387.0	387.0	392.4	393.4
72.5°	328.2	328.2	330.4	334.6	330.4	334.6	331.4	329.3	336.8	337.8
75°	272.6	273.7	274.8	279.0	274.8	279.0	276.9	274.8	281.2	282.2
77.5°	221.3	221.3	222.4	225.6	222.4	225.6	223.4	223.4	227.7	226.7
80°	168.9	168.9	170.0	173.2	170.0	173.2	171.1	171.1	175.3	171.1
82.5°	122.9	122.9	122.9	126.2	124.0	126.2	125.1	122.9	128.3	124.0
85°	79.1	80.2	80.2	81.3	80.2	81.3	81.3	80.2	83.4	80.2
87.5°	40.6	40.6	40.6	41.7	40.6	40.6	41.7	40.6	42.8	41.7
90°	7.5	6.4	6.4	8.6	7.5	7.5	8.6	6.4	7.5	6.4
92.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	4.3
95°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2
97.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1
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: P893617
 CATALOG NUMBER: 4MB-5SL-FLT-UNV-L830

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: P893617
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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	19.64	21.28	20.01	21.59	21.91	19.78	21.41	20.14	21.73	22.05
	3H	21.46	22.94	21.84	23.27	23.64	21.61	23.09	21.99	23.42	23.78
	4H	22.12	23.52	22.52	23.87	24.25	22.32	23.71	22.72	24.06	24.44
	6H	22.58	23.87	22.99	24.24	24.63	22.87	24.17	23.29	24.53	24.93
	8H	22.72	23.95	23.14	24.34	24.75	23.07	24.30	23.49	24.70	25.10
	12H	22.81	24.00	23.24	24.38	24.81	23.21	24.40	23.64	24.78	25.21
4H	2H	20.27	21.67	20.67	22.02	22.40	20.38	21.78	20.78	22.13	22.51
	3H	22.31	23.49	22.73	23.89	24.29	22.45	23.62	22.86	24.02	24.42
	4H	23.11	24.17	23.54	24.58	25.02	23.29	24.35	23.73	24.77	25.21
	6H	23.68	24.61	24.14	25.05	25.51	23.99	24.91	24.44	25.36	25.81
	8H	23.87	24.74	24.33	25.19	25.65	24.23	25.10	24.69	25.54	26.01
	12H	24.02	24.80	24.50	25.28	25.75	24.42	25.21	24.91	25.68	26.16
8H	4H	23.44	24.31	23.90	24.75	25.22	23.60	24.47	24.06	24.92	25.38
	6H	24.14	24.86	24.63	25.35	25.83	24.43	25.15	24.92	25.64	26.12
	8H	24.40	25.05	24.91	25.56	26.05	24.76	25.41	25.27	25.92	26.41
	12H	24.62	25.19	25.13	25.69	26.25	25.04	25.62	25.55	26.11	26.67
12H	4H	23.48	24.26	23.96	24.74	25.21	23.64	24.42	24.12	24.89	25.37
	6H	24.21	24.86	24.72	25.37	25.86	24.48	25.14	24.99	25.64	26.13
	8H	24.54	25.11	25.04	25.60	26.17	24.88	25.45	25.39	25.95	26.51