

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: P894992

Luminaire Tested: 8TMB-4SL-FLT-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894992
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: 8TMB-4SL-FLT-UNV-L850
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

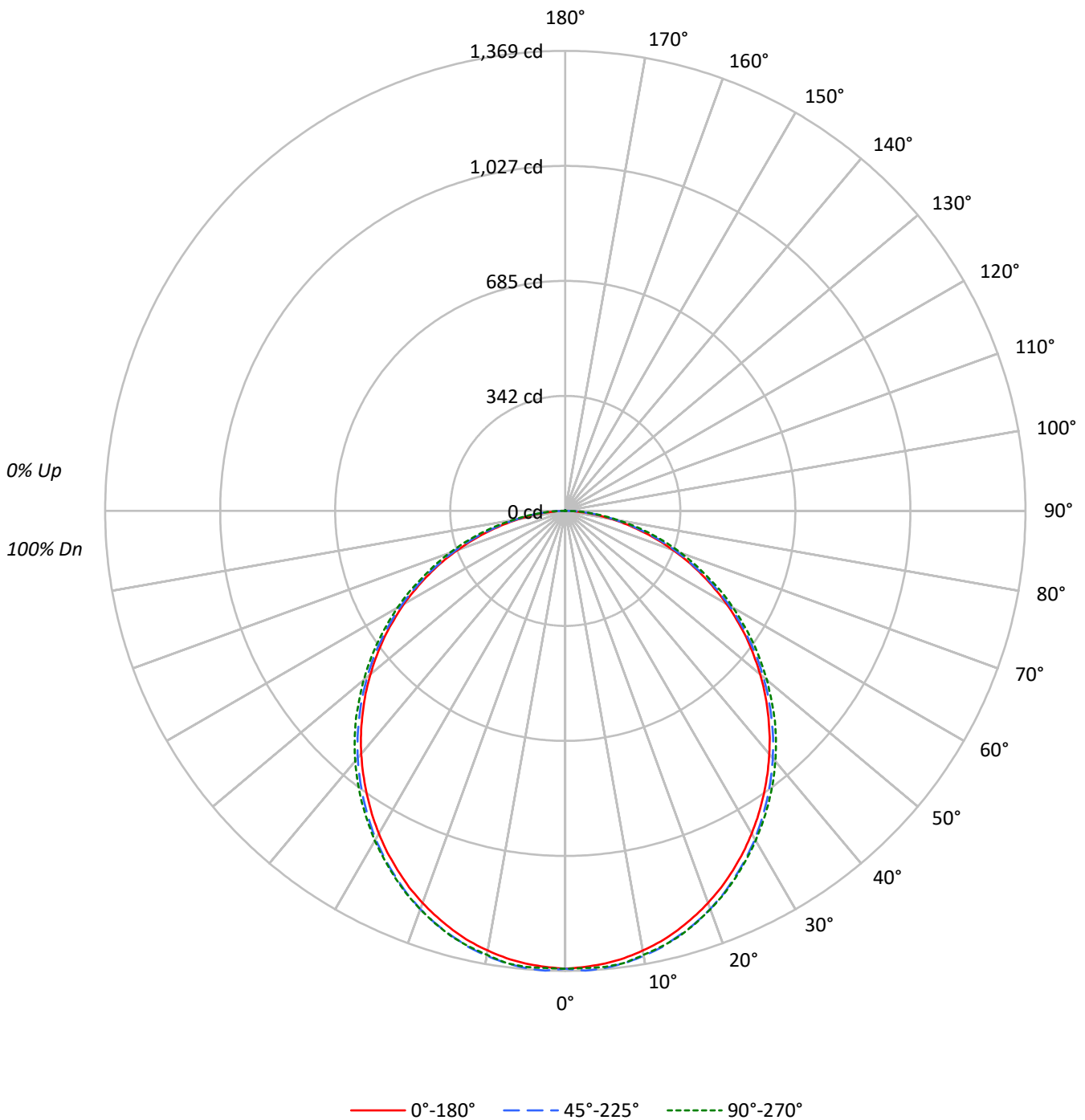
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3782.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
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	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°	4834	4834	4834
5°	4817	4863	4852
10°	4786	4844	4833
15°	4744	4807	4814
20°	4688	4760	4764
25°	4619	4694	4705
30°	4544	4621	4642
35°	4458	4536	4575
40°	4375	4449	4504
45°	4279	4349	4424
50°	4179	4245	4322
55°	4066	4127	4214
60°	3935	3999	4091
65°	3760	3835	3936
70°	3539	3642	3807
75°	3255	3392	3610
80°	2873	3098	3261
85°	2475	2842	3045

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4424 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	3.4
10°-20°	367.2	9.7
20°-30°	550.3	14.5
30°-40°	654.8	17.3
40°-50°	671.8	17.8
50°-60°	601.9	15.9
60°-70°	457.3	12.1
70°-80°	265.8	7.0
80°-90°	79.8	2.1
90°-100°	1.9	0.1
100°-110°	0.3	0.0
110°-120°	0.0	0.0
120°-130°	0.2	0.0
130°-140°	0.4	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	1046.3	27.7
0°-40°	1701.1	45.0
0°-60°	2974.8	78.7
0°-90°	3777.7	99.9
90°-120°	2.3	0.1
90°-150°	3.4	0.1
90°-180°	4.0	0.1
0°-180°	3782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1352	1375	1365	1358	1362	128
15°	1292	1316	1309	1307	1311	364
25°	1180	1207	1199	1197	1202	544
35°	1029	1054	1047	1050	1056	644
45°	853	874	867	874	882	658
55°	657	673	667	675	681	587
65°	448	459	457	465	469	443
75°	237	246	247	256	263	252
85°	61	66	70	75	75	66
90°	1	4	4	7	6	4
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	0
165°	1	1	1	1	1	0
175°	2	2	2	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P894992

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4
2.5°	1358.4	1356.4	1358.4	1357.4	1367.4	1379.4	1377.4	1368.4	1358.4	1361.4	1369.4
5°	1352.4	1351.5	1354.4	1352.4	1362.4	1375.4	1371.4	1363.4	1354.4	1357.4	1365.4
7.5°	1342.5	1342.5	1346.5	1344.5	1353.4	1366.4	1362.4	1355.4	1346.5	1349.5	1357.4
10°	1328.5	1329.5	1334.5	1331.5	1339.5	1353.4	1349.5	1342.5	1334.5	1336.5	1344.5
12.5°	1312.6	1312.6	1318.5	1315.5	1323.5	1336.5	1331.5	1326.5	1318.5	1320.5	1329.5
15°	1291.6	1292.6	1299.6	1296.6	1303.6	1316.5	1311.6	1307.6	1300.6	1301.6	1308.6
17.5°	1267.7	1270.7	1277.6	1274.7	1281.6	1294.6	1288.6	1284.6	1278.6	1279.6	1286.6
20°	1241.7	1244.7	1251.7	1249.7	1254.7	1267.7	1261.7	1259.7	1253.7	1254.7	1260.7
22.5°	1212.8	1215.8	1223.8	1221.8	1226.8	1239.7	1232.8	1231.8	1225.8	1226.8	1231.8
25°	1179.9	1183.9	1192.9	1190.9	1194.9	1206.8	1200.8	1198.9	1194.9	1194.9	1198.9
27.5°	1146.0	1150.0	1160.0	1157.0	1160.0	1172.9	1165.9	1164.9	1161.0	1161.0	1164.9
30°	1109.1	1113.1	1124.0	1121.1	1124.0	1135.0	1128.0	1129.0	1125.0	1125.0	1128.0
32.5°	1070.2	1073.2	1085.1	1083.2	1085.1	1096.1	1089.1	1090.1	1086.1	1087.1	1088.1
35°	1029.3	1032.3	1045.3	1043.3	1044.3	1054.2	1049.2	1049.2	1046.3	1045.3	1047.2
37.5°	987.4	990.4	1006.4	1001.4	1001.4	1011.3	1007.4	1007.4	1004.4	1003.4	1004.4
40°	944.5	946.5	963.5	958.5	957.5	966.5	963.5	963.5	961.5	959.5	960.5
42.5°	899.6	902.6	919.6	915.6	911.6	921.6	918.6	919.6	916.6	914.6	914.6
45°	852.8	855.8	872.7	870.7	864.7	873.7	870.7	872.7	868.7	866.7	866.7
47.5°	805.9	809.9	825.8	822.8	816.9	825.8	822.8	824.8	820.8	818.8	818.8
50°	757.0	761.0	778.0	773.0	767.0	776.0	774.0	775.0	772.0	770.0	769.0
52.5°	707.1	712.1	728.1	722.1	717.1	725.1	724.1	725.1	721.1	720.1	719.1
55°	657.3	662.3	677.2	670.2	666.3	673.2	671.2	673.2	669.2	668.2	667.2
57.5°	605.4	610.4	624.4	617.4	614.4	620.4	619.4	620.4	617.4	616.4	615.4
60°	554.5	558.5	571.5	564.5	561.5	567.5	565.5	568.5	564.5	564.5	563.5
62.5°	500.7	505.7	518.6	510.7	508.7	513.7	511.7	514.6	512.7	510.7	509.7
65°	447.8	450.8	462.8	455.8	452.8	458.8	457.8	459.8	456.8	457.8	456.8
67.5°	395.0	397.0	408.9	400.9	399.0	404.9	405.9	404.9	402.9	403.9	402.9
70°	341.1	343.1	353.1	346.1	345.1	350.1	352.1	351.1	349.1	350.1	351.1
72.5°	289.2	290.2	299.2	293.2	292.2	298.2	298.2	298.2	298.2	298.2	300.2
75°	237.4	238.4	246.4	241.4	240.4	246.4	246.4	246.4	246.4	248.3	247.4
77.5°	187.5	186.5	194.5	191.5	189.5	195.5	195.5	196.5	198.5	200.5	197.5
80°	140.6	139.6	145.6	141.6	141.6	147.6	146.6	147.6	149.6	150.6	151.6
82.5°	98.7	96.7	101.7	100.7	99.7	104.7	105.7	104.7	107.7	108.7	108.7
85°	60.8	60.8	63.8	61.8	61.8	65.8	65.8	66.8	68.8	69.8	69.8
87.5°	28.9	27.9	30.9	29.9	28.9	31.9	31.9	32.9	33.9	34.9	33.9
90°	1.0	1.0	2.0	2.0	2.0	4.0	4.0	4.0	5.0	5.0	4.0
92.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
95°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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	1.0



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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	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0
132.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
135°	0.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
145°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	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	1.0
157.5°	1.0	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	1.0
162.5°	1.0	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	1.0
167.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
170°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
172.5°	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
175°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4	1362.4
2.5°	1357.4	1350.5	1347.5	1349.5	1363.4	1349.5	1364.4	1369.4	1351.5	1361.4
5°	1353.4	1346.5	1342.5	1344.5	1358.4	1345.5	1361.4	1367.4	1352.4	1362.4
7.5°	1345.5	1337.5	1335.5	1338.5	1350.5	1339.5	1355.4	1361.4	1346.5	1356.4
10°	1333.5	1326.5	1324.5	1327.5	1338.5	1327.5	1341.5	1346.5	1332.5	1341.5
12.5°	1318.5	1311.6	1309.6	1313.5	1323.5	1313.5	1327.5	1332.5	1318.5	1327.5
15°	1299.6	1292.6	1291.6	1297.6	1306.6	1297.6	1311.6	1315.5	1301.6	1310.6
17.5°	1276.6	1269.7	1270.7	1277.6	1284.6	1276.6	1289.6	1293.6	1280.6	1287.6
20°	1251.7	1243.7	1245.7	1251.7	1257.7	1249.7	1262.7	1266.7	1254.7	1261.7
22.5°	1222.8	1214.8	1216.8	1223.8	1227.8	1220.8	1232.8	1236.8	1226.8	1233.8
25°	1190.9	1183.9	1186.9	1193.9	1196.9	1190.9	1201.8	1204.8	1195.9	1201.8
27.5°	1159.0	1151.0	1155.0	1161.9	1163.9	1158.0	1168.9	1170.9	1161.9	1167.9
30°	1123.1	1115.1	1120.1	1128.0	1128.0	1124.0	1133.0	1135.0	1128.0	1133.0
32.5°	1083.2	1077.2	1083.2	1090.1	1089.1	1086.1	1095.1	1097.1	1091.1	1095.1
35°	1043.3	1038.3	1044.3	1051.2	1050.2	1047.2	1056.2	1057.2	1052.2	1056.2
37.5°	1002.4	998.4	1004.4	1010.3	1008.4	1006.4	1014.3	1014.3	1011.3	1015.3
40°	960.5	956.5	961.5	968.5	964.5	964.5	969.5	971.4	968.5	972.4
42.5°	916.6	912.6	918.6	924.6	920.6	919.6	925.6	926.6	924.6	927.6
45°	870.7	866.7	872.7	877.7	873.7	873.7	878.7	878.7	877.7	881.7
47.5°	823.8	820.8	825.8	830.8	826.8	829.8	829.8	829.8	831.8	830.8
50°	776.0	773.0	777.0	782.9	778.0	779.0	780.9	780.9	781.9	782.9
52.5°	726.1	722.1	726.1	733.1	726.1	729.1	730.1	731.1	734.1	732.1
55°	676.2	672.2	676.2	682.2	675.2	679.2	679.2	680.2	683.2	681.2
57.5°	624.4	620.4	626.4	630.3	623.4	627.4	627.4	629.3	631.3	628.3
60°	572.5	569.5	571.5	578.5	571.5	575.5	575.5	575.5	579.5	576.5
62.5°	519.6	517.6	519.6	525.6	518.6	522.6	521.6	522.6	526.6	525.6
65°	465.8	463.8	465.8	471.8	464.8	468.8	468.8	469.8	472.8	468.8
67.5°	412.9	409.9	412.9	417.9	411.9	414.9	414.9	414.9	419.9	417.9
70°	359.1	357.1	359.1	364.0	359.1	361.1	361.1	361.1	366.0	367.0
72.5°	306.2	306.2	308.2	312.2	308.2	312.2	309.2	307.2	314.2	315.2
75°	254.3	255.3	256.3	260.3	256.3	260.3	258.3	256.3	262.3	263.3
77.5°	206.5	206.5	207.5	210.4	207.5	210.4	208.5	208.5	212.4	211.4
80°	157.6	157.6	158.6	161.6	158.6	161.6	159.6	159.6	163.6	159.6
82.5°	114.7	114.7	114.7	117.7	115.7	117.7	116.7	114.7	119.7	115.7
85°	73.8	74.8	74.8	75.8	74.8	75.8	75.8	74.8	77.8	74.8
87.5°	37.9	37.9	37.9	38.9	37.9	37.9	38.9	37.9	39.9	38.9
90°	7.0	6.0	6.0	8.0	7.0	7.0	8.0	6.0	7.0	6.0
92.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0
95°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0
97.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
100°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
102.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
105°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0
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	1.0	0.0	0.0	0.0	1.0



TEST NUMBER: P894992

CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L850

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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	1.0	1.0	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°	1.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
145°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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	1.0
177.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P894992
 CATALOG NUMBER: 8TMB-4SL-FLT-UNV-L850

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	16.98	18.62	17.35	18.93	19.25	17.12	18.75	17.48	19.07	19.39
	3H	18.80	20.29	19.18	20.61	20.98	18.95	20.43	19.33	20.76	21.12
	4H	19.47	20.86	19.87	21.21	21.59	19.66	21.05	20.06	21.40	21.78
	6H	19.92	21.21	20.33	21.58	21.97	20.22	21.51	20.63	21.88	22.27
	8H	20.06	21.29	20.48	21.68	22.09	20.41	21.65	20.84	22.04	22.44
	12H	20.15	21.34	20.58	21.72	22.15	20.55	21.74	20.98	22.12	22.55
4H	2H	17.62	19.01	18.02	19.36	19.74	17.72	19.12	18.12	19.47	19.85
	3H	19.66	20.83	20.07	21.23	21.63	19.79	20.96	20.20	21.36	21.76
	4H	20.45	21.51	20.88	21.93	22.36	20.64	21.70	21.07	22.11	22.55
	6H	21.03	21.95	21.48	22.40	22.85	21.33	22.26	21.78	22.70	23.16
	8H	21.21	22.08	21.68	22.53	23.00	21.57	22.44	22.03	22.89	23.35
	12H	21.36	22.14	21.84	22.62	23.09	21.77	22.55	22.25	23.03	23.50
8H	4H	20.78	21.65	21.24	22.09	22.56	20.94	21.81	21.41	22.26	22.73
	6H	21.48	22.21	21.98	22.69	23.17	21.77	22.49	22.26	22.98	23.46
	8H	21.74	22.39	22.26	22.90	23.39	22.10	22.75	22.61	23.26	23.75
	12H	21.96	22.54	22.47	23.03	23.59	22.38	22.96	22.89	23.45	24.01
12H	4H	20.82	21.60	21.30	22.08	22.55	20.98	21.76	21.46	22.24	22.71
	6H	21.55	22.20	22.06	22.71	23.20	21.83	22.48	22.34	22.99	23.47
	8H	21.88	22.45	22.39	22.95	23.51	22.22	22.80	22.73	23.29	23.85