

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: P895046

Luminaire Tested: 8TMB-4SL-RNDU-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-4SL-RNDU-UNV-L835
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 5
Light Source: -
Ballast/Driver: -

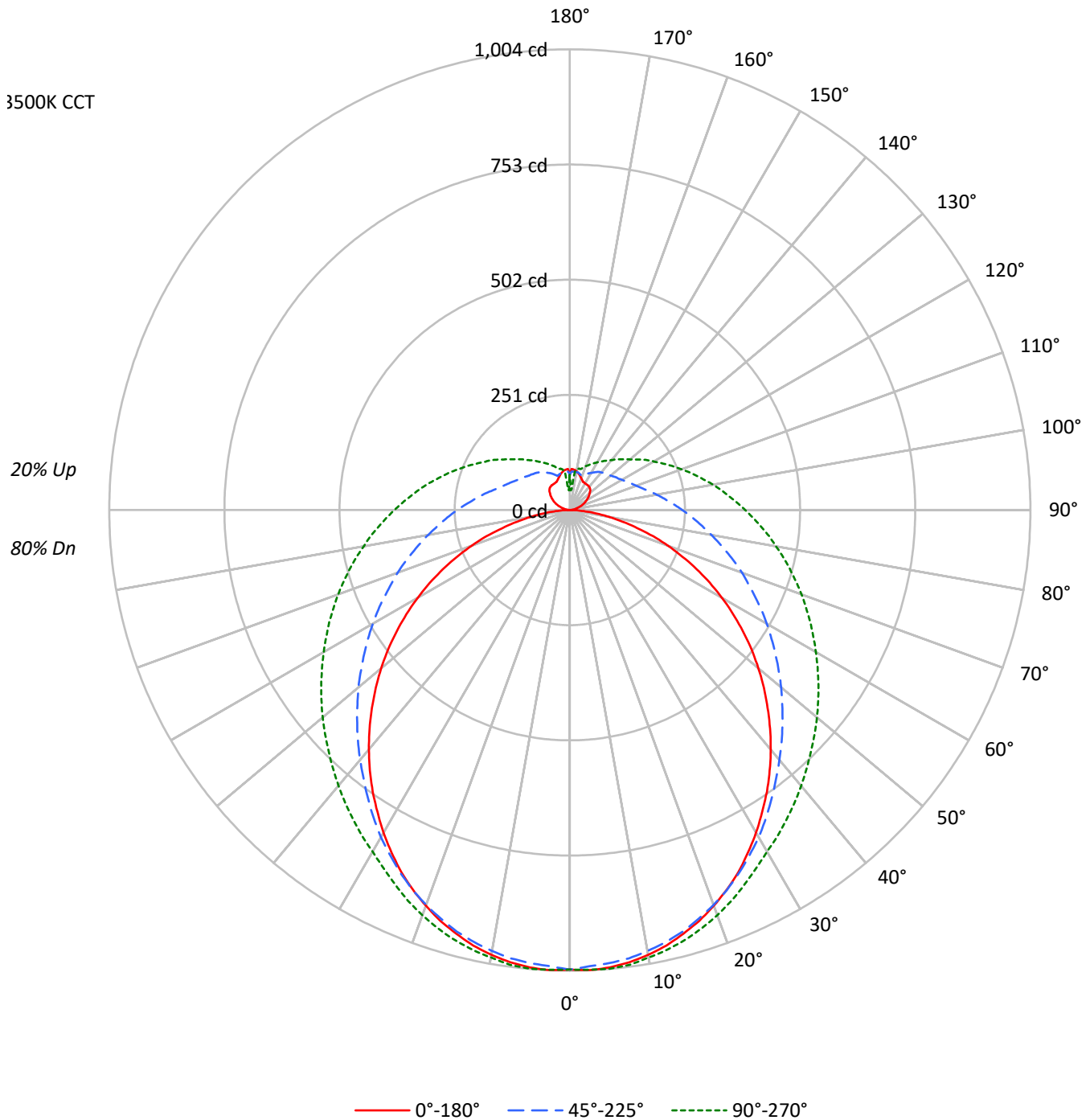
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4213.0 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-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

TEST NUMBER: P895046
CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P895046

CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L835

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	83	83	83	80
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	65	65	65	61
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	53	53	53	49
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	44	44	44	41
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	37	37	37	34
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	32	32	32	29
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	28	28	28	26
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	25	25	25	23
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	22	22	22	20
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3554	3554	3554
5°	3556	3409	3411
10°	3531	3281	3253
15°	3487	3151	3108
20°	3433	3013	2958
25°	3365	2874	2808
30°	3277	2733	2675
35°	3186	2588	2578
40°	3088	2456	2489
45°	2982	2340	2410
50°	2873	2237	2349
55°	2745	2142	2295
60°	2601	2065	2256
65°	2425	1998	2233
70°	2205	1958	2226
75°	1905	1932	2235
80°	1543	1941	2271
85°	1075	2002	2345

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2982 cd/sqm



TEST NUMBER: P895046
 CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	2.2
10°-20°	270.2	6.4
20°-30°	405.7	9.6
30°-40°	487.9	11.6
40°-50°	516.9	12.3
50°-60°	497.8	11.8
60°-70°	440.5	10.5
70°-80°	361.4	8.6
80°-90°	280.4	6.7
90°-100°	217.6	5.2
100°-110°	172.4	4.1
110°-120°	137.4	3.3
120°-130°	109.1	2.6
130°-140°	85.2	2.0
140°-150°	62.7	1.5
150°-160°	41.5	1.0
160°-170°	23.9	0.6
170°-180°	7.7	0.2
0°-30°	770.7	18.3
0°-40°	1258.6	29.9
0°-60°	2273.2	54.0
0°-90°	3355.5	79.6
90°-120°	527.4	12.5
90°-150°	784.5	18.6
90°-180°	857.0	20.3
0°-180°	4213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1001	1002	991	999	1004	95
15°	956	957	951	965	970	270
25°	870	873	873	895	901	400
35°	749	759	767	807	823	468
45°	610	624	656	718	743	471
55°	460	483	547	628	661	412
65°	305	347	445	538	578	302
75°	152	229	354	455	496	163
85°	34	138	277	378	418	39
90°	1	109	245	343	382	3
95°	5	90	216	310	348	5
105°	17	72	171	254	287	18
115°	34	70	142	207	234	34
125°	50	72	124	171	192	44
135°	63	77	112	143	156	48
145°	67	76	101	123	131	42
155°	68	79	87	105	111	32
165°	80	85	82	82	92	22
175°	89	88	84	70	47	8
180°	77	77	77	77	77	



TEST NUMBER: P895046

CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6
2.5°	1003.6	1002.6	1004.5	1006.4	1012.1	1004.5	1008.3	997.8	998.8	999.7	995.0
5°	1000.7	997.8	1000.7	1002.6	1007.4	1001.6	1005.5	994.0	995.0	996.9	991.2
7.5°	994.0	991.2	993.1	995.0	999.7	994.0	998.8	987.4	989.3	990.2	985.4
10°	984.5	980.7	982.6	985.4	989.3	984.5	988.3	977.8	978.8	980.7	975.9
12.5°	972.1	968.3	970.2	972.1	976.9	972.1	975.9	965.4	967.3	969.2	964.5
15°	955.9	952.1	954.0	955.9	959.7	956.9	960.7	950.2	952.1	955.9	951.1
17.5°	938.7	933.0	934.9	937.8	941.6	939.7	942.6	934.0	934.9	938.7	934.0
20°	917.8	912.1	914.0	916.8	920.6	919.7	921.6	914.0	915.9	920.6	915.9
22.5°	894.9	889.2	891.1	894.9	897.8	897.8	898.7	893.0	894.9	899.7	895.9
25°	870.1	864.4	866.3	870.1	873.0	873.0	874.9	869.2	872.0	876.8	873.0
27.5°	841.5	838.7	838.7	842.5	844.4	846.3	847.3	842.5	846.3	851.1	848.2
30°	812.0	808.2	810.1	814.9	814.9	818.7	818.7	814.9	819.6	825.3	823.4
32.5°	780.5	777.7	778.6	784.4	784.4	789.1	788.2	786.3	791.0	797.7	795.8
35°	749.1	746.2	747.2	752.9	752.9	758.6	756.7	756.7	761.5	769.1	767.2
37.5°	715.7	713.8	714.8	720.5	720.5	726.2	724.3	725.3	731.0	739.6	738.6
40°	681.4	679.5	681.4	686.2	688.1	692.9	691.0	692.9	700.5	708.1	711.0
42.5°	646.2	645.2	647.1	651.9	653.8	658.6	657.6	660.5	668.1	679.5	683.3
45°	609.9	609.9	611.9	616.6	618.5	624.2	623.3	627.1	636.6	649.0	655.7
47.5°	573.7	574.7	575.6	581.4	581.4	590.9	588.0	593.7	606.1	620.4	628.1
50°	536.6	538.5	539.4	544.2	546.1	554.7	552.8	562.3	575.6	590.9	601.4
52.5°	499.4	501.3	503.2	507.0	508.9	519.4	517.5	529.9	546.1	562.3	573.7
55°	460.3	464.1	465.1	469.8	472.7	483.2	483.2	497.5	514.6	532.8	547.0
57.5°	422.2	426.0	427.0	432.7	436.5	448.9	450.8	467.0	486.1	504.2	521.3
60°	383.1	387.9	388.8	394.6	401.2	414.6	417.4	435.5	456.5	475.6	495.6
62.5°	344.0	348.8	350.7	356.4	366.9	380.3	385.0	406.0	427.9	448.9	470.8
65°	305.0	309.7	312.6	320.2	332.6	346.9	353.6	375.5	400.3	422.2	445.1
67.5°	265.9	271.6	275.4	285.0	301.2	316.4	323.1	347.9	373.6	397.4	421.2
70°	227.8	233.5	238.3	250.7	269.7	285.0	293.5	320.2	346.9	372.6	399.3
72.5°	190.6	196.3	203.0	218.2	239.2	256.4	265.9	293.5	323.1	348.8	376.5
75°	152.5	159.2	166.8	187.7	211.6	228.7	239.2	268.8	299.3	325.0	354.5
77.5°	118.2	124.8	136.3	157.3	183.9	203.0	214.4	245.9	277.3	303.1	333.6
80°	86.7	93.4	108.6	131.5	159.2	177.3	191.6	224.0	256.4	283.1	313.6
82.5°	59.1	65.8	83.9	108.6	138.2	156.3	169.6	204.0	236.4	264.0	294.5
85°	34.3	43.8	62.9	89.6	120.1	138.2	151.5	186.8	218.2	245.9	277.3
87.5°	15.2	26.7	47.7	74.3	104.8	122.0	136.3	168.7	202.0	229.7	261.1
90°	1.0	15.2	37.2	62.9	92.4	108.6	122.0	154.4	185.8	214.4	244.9
92.5°	1.9	10.5	30.5	54.3	82.0	98.2	111.5	142.0	171.5	201.1	230.6
95°	4.8	10.5	26.7	48.6	74.3	89.6	102.0	131.5	159.2	187.7	216.3
97.5°	7.6	11.4	25.7	45.7	68.6	82.9	94.4	122.0	149.6	175.4	204.0
100°	10.5	14.3	25.7	43.8	64.8	78.1	88.6	114.4	140.1	163.9	192.5
102.5°	13.3	17.2	27.6	43.8	62.9	74.3	84.8	108.6	132.5	154.4	181.1
105°	17.2	20.0	29.5	43.8	61.0	72.4	81.0	102.9	125.8	146.8	170.6
107.5°	21.0	22.9	31.5	44.8	61.0	70.5	79.1	99.1	120.1	139.1	162.0
110°	25.7	26.7	34.3	46.7	61.0	69.6	77.2	96.3	115.3	133.4	154.4



TEST NUMBER: P895046
 CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L835

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	29.5	29.5	37.2	48.6	61.0	69.6	76.2	93.4	111.5	127.7	147.7
115°	34.3	34.3	40.0	50.5	61.9	69.6	76.2	92.4	108.6	122.9	142.0
117.5°	38.1	38.1	43.8	52.4	63.9	70.5	76.2	90.5	105.8	119.1	136.3
120°	41.9	41.9	45.7	54.3	64.8	71.5	76.2	89.6	102.9	116.3	131.5
122.5°	45.7	45.7	48.6	57.2	65.8	71.5	76.2	88.6	101.0	112.5	126.8
125°	49.6	49.6	51.5	59.1	67.7	72.4	77.2	88.6	100.1	109.6	123.9
127.5°	53.4	52.4	55.3	61.9	68.6	73.4	78.1	88.6	98.2	107.7	120.1
130°	56.2	55.3	59.1	63.9	70.5	74.3	78.1	87.7	97.2	105.8	116.3
132.5°	60.0	58.1	62.9	64.8	72.4	76.2	79.1	87.7	96.3	103.9	114.4
135°	62.9	61.0	65.8	67.7	73.4	77.2	80.1	87.7	95.3	102.9	111.5
137.5°	64.8	63.9	68.6	70.5	74.3	78.1	81.0	87.7	94.4	101.0	109.6
140°	65.8	64.8	68.6	72.4	74.3	78.1	80.1	86.7	93.4	99.1	106.7
142.5°	66.7	66.7	69.6	73.4	74.3	77.2	80.1	85.8	91.5	96.3	104.8
145°	66.7	66.7	69.6	74.3	75.3	76.2	78.1	83.9	88.6	93.4	101.0
147.5°	66.7	66.7	70.5	74.3	76.2	77.2	76.2	82.0	86.7	90.5	97.2
150°	66.7	66.7	70.5	74.3	77.2	78.1	77.2	80.1	83.9	87.7	93.4
152.5°	67.7	67.7	70.5	74.3	77.2	78.1	78.1	78.1	81.0	84.8	90.5
155°	67.7	68.6	70.5	76.2	78.1	79.1	79.1	79.1	78.1	82.0	86.7
157.5°	70.5	71.5	72.4	77.2	79.1	80.1	80.1	80.1	79.1	78.1	82.9
160°	73.4	74.3	75.3	79.1	81.0	82.0	82.0	82.0	80.1	79.1	79.1
162.5°	76.2	78.1	78.1	80.1	82.0	82.9	82.9	83.9	82.0	81.0	80.1
165°	80.1	81.0	81.0	82.0	83.9	84.8	83.9	84.8	83.9	82.9	82.0
167.5°	82.9	83.9	83.9	84.8	84.8	85.8	85.8	85.8	84.8	83.9	83.9
170°	85.8	86.7	86.7	86.7	86.7	86.7	86.7	86.7	85.8	83.9	83.9
172.5°	87.7	88.6	88.6	87.7	87.7	87.7	87.7	86.7	84.8	83.9	83.9
175°	88.6	89.6	89.6	88.6	87.7	87.7	87.7	86.7	84.8	83.9	83.9
177.5°	89.6	90.5	89.6	89.6	87.7	87.7	87.7	87.7	85.8	84.8	83.9
180°	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2



TEST NUMBER: P895046

CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L835

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6
2.5°	1000.7	989.3	996.9	997.8	1001.6	997.8	1000.7	997.8	1005.5	1002.6
5°	996.9	986.4	993.1	994.0	998.8	994.0	998.8	996.9	1006.4	1003.6
7.5°	990.2	981.6	987.4	988.3	994.0	989.3	994.0	992.1	1003.6	999.7
10°	980.7	974.0	979.7	980.7	986.4	981.6	985.4	983.5	995.9	990.2
12.5°	970.2	964.5	969.2	970.2	976.9	972.1	976.9	975.0	987.4	981.6
15°	954.9	952.1	956.9	958.8	965.4	961.6	966.4	964.5	977.8	970.2
17.5°	939.7	937.8	942.6	944.5	952.1	947.3	952.1	950.2	963.5	955.9
20°	920.6	919.7	924.5	927.3	934.0	929.2	934.9	933.0	947.3	939.7
22.5°	900.6	900.6	904.4	907.3	914.0	910.2	915.9	914.9	929.2	921.6
25°	878.7	879.7	883.5	887.3	894.9	892.0	896.8	896.8	910.2	900.6
27.5°	853.9	858.7	861.6	866.3	873.0	870.1	874.9	875.8	889.2	879.7
30°	828.2	834.9	837.7	843.4	849.2	849.2	853.9	855.8	869.2	859.6
32.5°	801.5	809.1	812.9	820.6	828.2	828.2	834.9	837.7	851.1	842.5
35°	774.8	785.3	790.1	799.6	807.2	808.2	814.9	818.7	832.0	823.4
37.5°	749.1	762.4	767.2	778.6	785.3	787.2	794.8	799.6	812.0	804.4
40°	722.4	738.6	744.3	756.7	762.4	766.2	773.9	779.6	791.0	784.4
42.5°	696.7	714.8	720.5	733.8	740.5	744.3	752.0	759.6	771.0	764.3
45°	670.9	691.0	697.6	711.9	717.6	723.4	731.9	738.6	749.1	743.4
47.5°	646.2	667.1	673.8	689.0	695.7	702.4	710.0	719.5	729.1	723.4
50°	620.4	642.4	650.9	667.1	672.8	680.5	690.0	698.6	708.1	703.3
52.5°	595.7	618.5	627.1	644.3	650.9	658.6	668.1	677.6	686.2	682.4
55°	569.0	593.7	603.3	621.4	628.1	635.7	646.2	656.6	664.3	661.4
57.5°	544.2	569.9	579.4	599.5	605.2	614.7	625.2	636.6	643.3	640.4
60°	519.4	545.1	556.6	576.6	583.3	592.8	603.3	615.7	621.4	619.5
62.5°	494.6	521.3	533.7	554.7	560.4	570.9	583.3	593.7	599.5	598.5
65°	471.8	497.5	511.8	532.8	538.5	549.9	561.3	572.8	578.5	578.5
67.5°	447.9	475.6	489.9	511.8	516.5	528.9	541.3	552.8	557.5	557.5
70°	426.0	452.7	468.9	490.8	495.6	507.0	520.4	532.8	536.6	537.5
72.5°	404.1	430.8	447.9	470.8	475.6	487.0	499.4	512.7	515.6	516.5
75°	383.1	409.8	427.0	449.8	454.6	466.0	479.4	491.8	495.6	496.5
77.5°	362.2	388.8	407.9	429.8	434.6	446.0	459.4	471.8	474.6	476.5
80°	343.1	368.8	386.9	410.8	415.5	427.0	439.4	451.7	453.6	456.5
82.5°	324.0	349.8	368.8	391.7	396.5	407.9	420.3	432.7	434.6	438.4
85°	305.9	331.7	350.7	372.6	378.4	388.8	402.2	413.6	415.5	418.4
87.5°	289.7	313.6	333.6	354.5	360.2	370.7	384.1	395.5	396.5	400.3
90°	272.6	296.4	316.4	337.4	343.1	352.6	366.0	377.4	379.3	382.2
92.5°	258.3	280.2	301.2	321.2	325.9	336.4	348.8	360.2	362.2	365.0
95°	243.0	264.9	285.9	305.0	309.7	320.2	331.7	343.1	345.0	347.9
97.5°	229.7	250.7	270.7	289.7	294.5	304.0	316.4	326.9	328.8	332.6
100°	217.3	237.3	258.3	275.4	280.2	289.7	301.2	311.6	313.6	317.4
102.5°	205.9	224.9	244.9	261.1	266.9	275.4	286.9	296.4	298.3	301.2
105°	195.4	213.5	232.5	247.8	253.5	262.1	272.6	282.1	284.0	286.9
107.5°	184.9	202.0	220.2	235.4	240.2	247.8	258.3	267.8	269.7	273.5
110°	175.4	192.5	209.7	224.0	229.7	235.4	245.9	254.5	256.4	259.2



TEST NUMBER: P895046
 CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L835

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	166.8	182.0	199.2	212.5	217.3	224.0	232.5	241.1	243.0	246.8
115°	159.2	173.5	190.6	203.0	206.8	212.5	222.1	229.7	231.6	234.4
117.5°	152.5	164.9	180.1	192.5	197.3	202.0	210.6	217.3	220.2	222.1
120°	146.8	158.2	171.5	183.0	188.7	192.5	200.1	206.8	209.7	211.6
122.5°	141.1	151.5	163.9	174.4	179.2	182.0	190.6	196.3	199.2	202.0
125°	136.3	145.8	157.3	165.8	170.6	173.5	181.1	186.8	189.7	191.6
127.5°	131.5	140.1	151.5	158.2	163.0	164.9	171.5	177.3	180.1	181.1
130°	126.8	135.3	144.9	151.5	155.3	158.2	163.9	167.7	170.6	171.5
132.5°	122.9	130.6	139.1	145.8	149.6	150.6	156.3	160.1	163.0	163.9
135°	120.1	125.8	134.4	140.1	143.0	144.9	149.6	152.5	155.3	156.3
137.5°	116.3	122.0	129.6	133.4	137.2	138.2	143.0	145.8	148.7	149.6
140°	113.4	118.2	124.8	128.7	132.5	132.5	136.3	139.1	142.0	142.0
142.5°	110.6	115.3	121.0	124.8	127.7	127.7	131.5	133.4	136.3	136.3
145°	106.7	111.5	117.2	120.1	122.9	122.9	125.8	127.7	130.6	130.6
147.5°	102.9	107.7	113.4	115.3	118.2	118.2	121.0	122.9	124.8	124.8
150°	98.2	102.0	108.6	111.5	114.4	114.4	116.3	118.2	120.1	120.1
152.5°	94.4	97.2	102.9	106.7	109.6	109.6	111.5	113.4	115.3	115.3
155°	89.6	92.4	97.2	102.0	104.8	105.8	107.7	108.6	110.6	110.6
157.5°	85.8	88.6	92.4	96.3	99.1	101.0	103.9	104.8	105.8	105.8
160°	81.0	82.9	86.7	90.5	93.4	95.3	100.1	101.0	102.0	102.0
162.5°	79.1	79.1	81.0	83.9	86.7	87.7	92.4	96.3	98.2	97.2
165°	80.1	79.1	79.1	80.1	82.0	82.9	85.8	91.5	93.4	92.4
167.5°	82.0	80.1	79.1	79.1	81.0	81.0	83.9	88.6	94.4	92.4
170°	82.0	79.1	77.2	77.2	78.1	78.1	80.1	82.9	88.6	89.6
172.5°	81.0	79.1	76.2	72.4	73.4	72.4	71.5	73.4	74.3	83.9
175°	82.0	79.1	76.2	71.5	69.6	66.7	61.9	58.1	57.2	46.7
177.5°	81.0	78.1	74.3	70.5	68.6	64.8	59.1	52.4	48.6	42.9
180°	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2



TEST NUMBER: P895046
 CATALOG NUMBER: 8TMB-4SL-RNDU-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	11.36	12.67	12.00	13.34	14.11	14.98	16.29	15.63	16.96	17.73
	3H	12.71	13.91	13.36	14.58	15.38	17.94	19.14	18.59	19.81	20.61
	4H	13.11	14.25	13.78	14.94	15.75	19.45	20.59	20.12	21.27	22.09
	6H	13.33	14.39	14.01	15.08	15.91	21.06	22.12	21.74	22.81	23.64
	8H	13.36	14.38	14.06	15.10	15.93	21.91	22.92	22.60	23.64	24.48
	12H	13.36	14.34	14.07	15.05	15.91	22.85	23.83	23.56	24.54	25.40
4H	2H	12.52	13.66	13.19	14.34	15.16	15.30	16.44	15.97	17.13	17.94
	3H	14.16	15.14	14.85	15.86	16.69	18.48	19.46	19.17	20.18	21.02
	4H	14.73	15.63	15.43	16.35	17.21	20.16	21.06	20.87	21.79	22.65
	6H	15.07	15.86	15.79	16.61	17.48	21.98	22.78	22.70	23.53	24.40
	8H	15.14	15.89	15.87	16.64	17.52	22.96	23.71	23.68	24.46	25.34
	12H	15.17	15.85	15.91	16.62	17.51	24.04	24.73	24.79	25.50	26.39
8H	4H	15.83	16.59	16.56	17.33	18.22	20.33	21.09	21.06	21.83	22.72
	6H	16.44	17.08	17.20	17.87	18.76	22.33	22.97	23.08	23.76	24.64
	8H	16.64	17.22	17.40	18.00	18.90	23.45	24.03	24.21	24.81	25.71
	12H	16.75	17.27	17.52	18.05	19.00	24.73	25.24	25.50	26.02	26.98
12H	4H	16.20	16.88	16.95	17.65	18.54	20.33	21.01	21.08	21.78	22.67
	6H	16.98	17.56	17.74	18.34	19.24	22.36	22.94	23.12	23.73	24.62
	8H	17.31	17.82	18.08	18.60	19.56	23.54	24.06	24.31	24.84	25.79