

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: P895050

Luminaire Tested: 8TMB-4SL-RNDU-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895050
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-L935
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 5
Light Source: -
Ballast/Driver: -

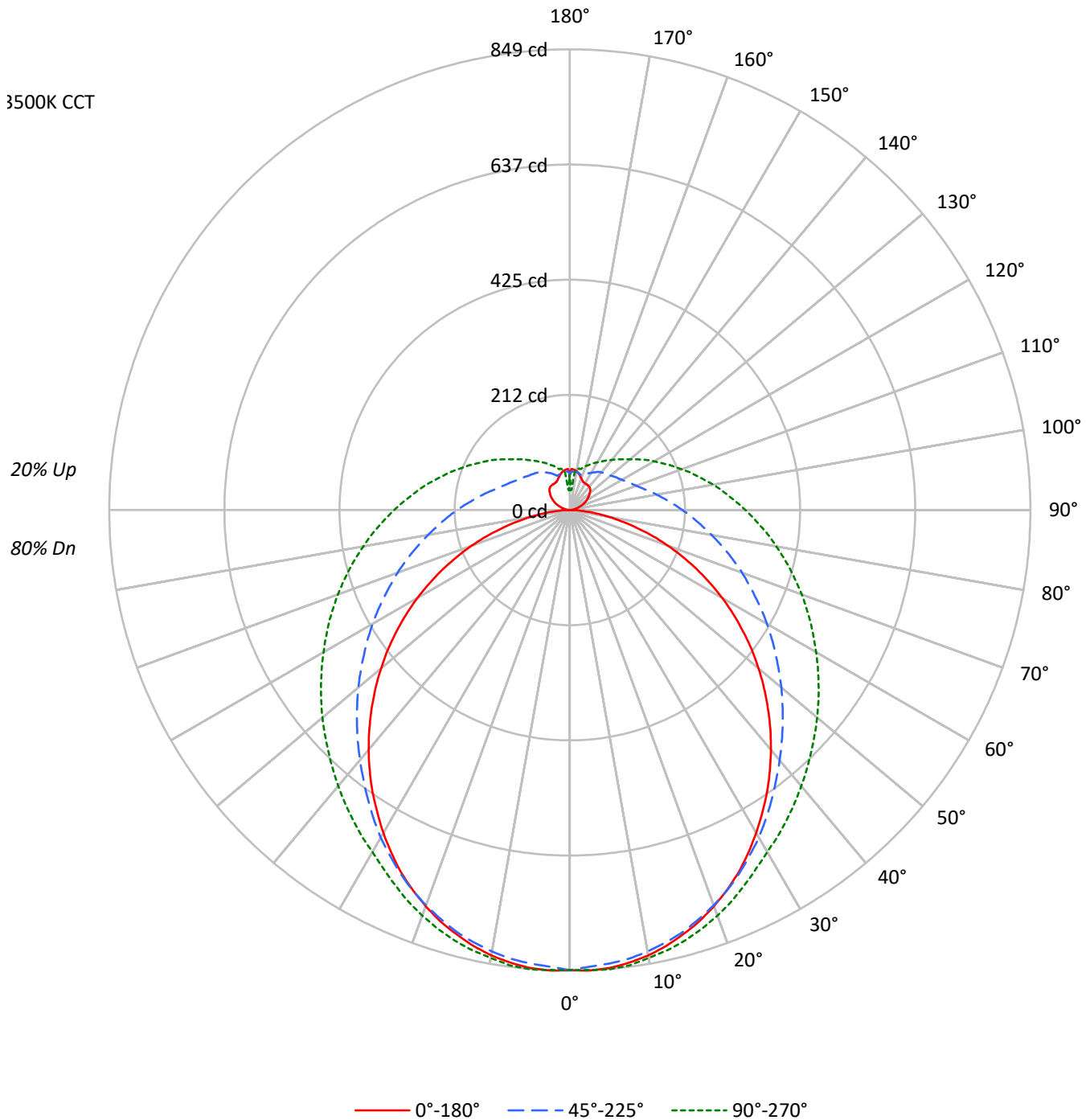
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3566.0 lumens
Efficiency: N/A
Efficacy: 129.2 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: P895050
CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L935

Luminous Intensity Polar Plot





TEST NUMBER: P895050

CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L935

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°	3008	3008	3008
5°	3010	2885	2887
10°	2989	2777	2754
15°	2951	2667	2630
20°	2905	2550	2504
25°	2849	2432	2377
30°	2774	2313	2265
35°	2697	2190	2182
40°	2614	2079	2107
45°	2525	1981	2040
50°	2431	1894	1988
55°	2323	1813	1943
60°	2202	1748	1909
65°	2052	1691	1890
70°	1866	1658	1884
75°	1613	1636	1892
80°	1306	1642	1922
85°	909	1694	1985

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2525 cd/sqm



TEST NUMBER: P895050
 CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	2.2
10°-20°	228.7	6.4
20°-30°	343.4	9.6
30°-40°	412.9	11.6
40°-50°	437.5	12.3
50°-60°	421.3	11.8
60°-70°	372.9	10.5
70°-80°	305.9	8.6
80°-90°	237.3	6.7
90°-100°	184.2	5.2
100°-110°	146.0	4.1
110°-120°	116.3	3.3
120°-130°	92.4	2.6
130°-140°	72.1	2.0
140°-150°	53.1	1.5
150°-160°	35.1	1.0
160°-170°	20.2	0.6
170°-180°	6.5	0.2
0°-30°	652.3	18.3
0°-40°	1065.3	29.9
0°-60°	1924.1	54.0
0°-90°	2840.2	79.6
90°-120°	446.4	12.5
90°-150°	664.0	18.6
90°-180°	726.0	20.4
0°-180°	3566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	847	848	839	845	849	80
15°	809	810	805	817	821	228
25°	736	739	739	758	762	339
35°	634	642	649	683	697	396
45°	516	528	555	607	629	398
55°	390	409	463	532	560	349
65°	258	294	377	456	490	255
75°	129	194	300	385	420	138
85°	29	117	235	320	354	33
90°	1	92	207	290	324	2
95°	4	76	183	262	294	4
105°	14	61	144	215	243	16
115°	29	59	120	175	198	28
125°	42	61	105	144	162	37
135°	53	65	94	121	132	41
145°	56	64	86	104	110	35
155°	57	67	73	89	94	27
165°	68	72	69	69	78	19
175°	75	74	71	59	40	7
180°	65	65	65	65	65	



TEST NUMBER: P895050
 CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L935

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8
2.5°	849.4	848.6	850.2	851.9	856.7	850.2	853.5	844.6	845.4	846.2	842.2
5°	847.0	844.6	847.0	848.6	852.7	847.8	851.0	841.4	842.2	843.8	838.9
7.5°	841.4	838.9	840.6	842.2	846.2	841.4	845.4	835.7	837.3	838.1	834.1
10°	833.3	830.1	831.7	834.1	837.3	833.3	836.5	827.7	828.5	830.1	826.0
12.5°	822.8	819.6	821.2	822.8	826.8	822.8	826.0	817.2	818.8	820.4	816.4
15°	809.1	805.9	807.5	809.1	812.3	809.9	813.1	804.3	805.9	809.1	805.1
17.5°	794.6	789.7	791.4	793.8	797.0	795.4	797.8	790.5	791.4	794.6	790.5
20°	776.8	772.0	773.6	776.0	779.3	778.4	780.1	773.6	775.2	779.3	775.2
22.5°	757.5	752.6	754.2	757.5	759.9	759.9	760.7	755.9	757.5	761.5	758.3
25°	736.5	731.7	733.3	736.5	738.9	738.9	740.5	735.7	738.1	742.1	738.9
27.5°	712.3	709.9	709.9	713.1	714.7	716.3	717.1	713.1	716.3	720.4	717.9
30°	687.3	684.1	685.7	689.7	689.7	692.9	692.9	689.7	693.7	698.6	697.0
32.5°	660.7	658.3	659.1	663.9	663.9	667.9	667.1	665.5	669.5	675.2	673.6
35°	634.1	631.6	632.4	637.3	637.3	642.1	640.5	640.5	644.5	651.0	649.4
37.5°	605.8	604.2	605.0	609.9	609.9	614.7	613.1	613.9	618.7	626.0	625.2
40°	576.8	575.2	576.8	580.8	582.4	586.5	584.8	586.5	592.9	599.4	601.8
42.5°	546.9	546.1	547.7	551.8	553.4	557.4	556.6	559.0	565.5	575.2	578.4
45°	516.3	516.3	517.9	521.9	523.5	528.4	527.6	530.8	538.9	549.4	555.0
47.5°	485.6	486.4	487.2	492.1	492.1	500.1	497.7	502.6	513.0	525.1	531.6
50°	454.2	455.8	456.6	460.6	462.2	469.5	467.9	475.9	487.2	500.1	509.0
52.5°	422.7	424.3	425.9	429.2	430.8	439.6	438.0	448.5	462.2	475.9	485.6
55°	389.6	392.9	393.7	397.7	400.1	409.0	409.0	421.1	435.6	450.9	463.0
57.5°	357.4	360.6	361.4	366.2	369.5	379.9	381.6	395.3	411.4	426.7	441.3
60°	324.3	328.3	329.1	334.0	339.6	350.9	353.3	368.7	386.4	402.5	419.5
62.5°	291.2	295.2	296.9	301.7	310.6	321.9	325.9	343.6	362.2	379.9	398.5
65°	258.1	262.2	264.6	271.0	281.5	293.6	299.3	317.8	338.8	357.4	376.7
67.5°	225.1	229.9	233.1	241.2	254.9	267.8	273.5	294.4	316.2	336.4	356.6
70°	192.8	197.6	201.7	212.2	228.3	241.2	248.5	271.0	293.6	315.4	338.0
72.5°	161.3	166.2	171.8	184.7	202.5	217.0	225.1	248.5	273.5	295.2	318.6
75°	129.1	134.7	141.2	158.9	179.1	193.6	202.5	227.5	253.3	275.1	300.1
77.5°	100.0	105.7	115.4	133.1	155.7	171.8	181.5	208.1	234.7	256.5	282.3
80°	73.4	79.1	92.0	111.3	134.7	150.0	162.1	189.6	217.0	239.6	265.4
82.5°	50.0	55.7	71.0	92.0	117.0	132.3	143.6	172.6	200.1	223.5	249.3
85°	29.0	37.1	53.2	75.8	101.6	117.0	128.3	158.1	184.7	208.1	234.7
87.5°	12.9	22.6	40.3	62.9	88.7	103.3	115.4	142.8	171.0	194.4	221.0
90°	0.8	12.9	31.5	53.2	78.2	92.0	103.3	130.7	157.3	181.5	207.3
92.5°	1.6	8.9	25.8	46.0	69.4	83.1	94.4	120.2	145.2	170.2	195.2
95°	4.0	8.9	22.6	41.1	62.9	75.8	86.3	111.3	134.7	158.9	183.1
97.5°	6.5	9.7	21.8	38.7	58.1	70.2	79.9	103.3	126.6	148.4	172.6
100°	8.9	12.1	21.8	37.1	54.9	66.1	75.0	96.8	118.6	138.7	162.9
102.5°	11.3	14.5	23.4	37.1	53.2	62.9	71.8	92.0	112.1	130.7	153.3
105°	14.5	16.9	25.0	37.1	51.6	61.3	68.6	87.1	106.5	124.2	144.4
107.5°	17.7	19.4	26.6	37.9	51.6	59.7	67.0	83.9	101.6	117.8	137.1
110°	21.8	22.6	29.0	39.5	51.6	58.9	65.3	81.5	97.6	112.9	130.7



TEST NUMBER: P895050
 CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L935

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	25.0	25.0	31.5	41.1	51.6	58.9	64.5	79.1	94.4	108.1	125.0
115°	29.0	29.0	33.9	42.8	52.4	58.9	64.5	78.2	92.0	104.1	120.2
117.5°	32.3	32.3	37.1	44.4	54.0	59.7	64.5	76.6	89.5	100.8	115.4
120°	35.5	35.5	38.7	46.0	54.9	60.5	64.5	75.8	87.1	98.4	111.3
122.5°	38.7	38.7	41.1	48.4	55.7	60.5	64.5	75.0	85.5	95.2	107.3
125°	41.9	41.9	43.6	50.0	57.3	61.3	65.3	75.0	84.7	92.8	104.9
127.5°	45.2	44.4	46.8	52.4	58.1	62.1	66.1	75.0	83.1	91.2	101.6
130°	47.6	46.8	50.0	54.0	59.7	62.9	66.1	74.2	82.3	89.5	98.4
132.5°	50.8	49.2	53.2	54.9	61.3	64.5	67.0	74.2	81.5	87.9	96.8
135°	53.2	51.6	55.7	57.3	62.1	65.3	67.8	74.2	80.7	87.1	94.4
137.5°	54.9	54.0	58.1	59.7	62.9	66.1	68.6	74.2	79.9	85.5	92.8
140°	55.7	54.9	58.1	61.3	62.9	66.1	67.8	73.4	79.1	83.9	90.3
142.5°	56.5	56.5	58.9	62.1	62.9	65.3	67.8	72.6	77.4	81.5	88.7
145°	56.5	56.5	58.9	62.9	63.7	64.5	66.1	71.0	75.0	79.1	85.5
147.5°	56.5	56.5	59.7	62.9	64.5	65.3	64.5	69.4	73.4	76.6	82.3
150°	56.5	56.5	59.7	62.9	65.3	66.1	65.3	67.8	71.0	74.2	79.1
152.5°	57.3	57.3	59.7	62.9	65.3	66.1	66.1	66.1	68.6	71.8	76.6
155°	57.3	58.1	59.7	64.5	66.1	67.0	67.0	67.0	66.1	69.4	73.4
157.5°	59.7	60.5	61.3	65.3	67.0	67.8	67.8	67.8	67.0	66.1	70.2
160°	62.1	62.9	63.7	67.0	68.6	69.4	69.4	69.4	67.8	67.0	67.0
162.5°	64.5	66.1	66.1	67.8	69.4	70.2	70.2	71.0	69.4	68.6	67.8
165°	67.8	68.6	68.6	69.4	71.0	71.8	71.0	71.8	71.0	70.2	69.4
167.5°	70.2	71.0	71.0	71.8	71.8	72.6	72.6	72.6	71.8	71.0	71.0
170°	72.6	73.4	73.4	73.4	73.4	73.4	73.4	73.4	72.6	71.0	71.0
172.5°	74.2	75.0	75.0	74.2	74.2	74.2	74.2	73.4	71.8	71.0	71.0
175°	75.0	75.8	75.8	75.0	74.2	74.2	74.2	73.4	71.8	71.0	71.0
177.5°	75.8	76.6	75.8	75.8	74.2	74.2	74.2	74.2	72.6	71.8	71.0
180°	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3



TEST NUMBER: P895050
 CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L935

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8
2.5°	847.0	837.3	843.8	844.6	847.8	844.6	847.0	844.6	851.0	848.6
5°	843.8	834.9	840.6	841.4	845.4	841.4	845.4	843.8	851.9	849.4
7.5°	838.1	830.9	835.7	836.5	841.4	837.3	841.4	839.8	849.4	846.2
10°	830.1	824.4	829.3	830.1	834.9	830.9	834.1	832.5	843.0	838.1
12.5°	821.2	816.4	820.4	821.2	826.8	822.8	826.8	825.2	835.7	830.9
15°	808.3	805.9	809.9	811.5	817.2	813.9	818.0	816.4	827.7	821.2
17.5°	795.4	793.8	797.8	799.4	805.9	801.8	805.9	804.3	815.6	809.1
20°	779.3	778.4	782.5	784.9	790.5	786.5	791.4	789.7	801.8	795.4
22.5°	762.3	762.3	765.5	768.0	773.6	770.4	775.2	774.4	786.5	780.1
25°	743.8	744.6	747.8	751.0	757.5	755.1	759.1	759.1	770.4	762.3
27.5°	722.8	726.8	729.2	733.3	738.9	736.5	740.5	741.3	752.6	744.6
30°	701.0	706.7	709.1	713.9	718.8	718.8	722.8	724.4	735.7	727.6
32.5°	678.4	684.9	688.1	694.6	701.0	701.0	706.7	709.1	720.4	713.1
35°	655.8	664.7	668.7	676.8	683.3	684.1	689.7	692.9	704.2	697.0
37.5°	634.1	645.3	649.4	659.1	664.7	666.3	672.8	676.8	687.3	680.8
40°	611.5	625.2	630.0	640.5	645.3	648.6	655.0	659.9	669.5	663.9
42.5°	589.7	605.0	609.9	621.1	626.8	630.0	636.5	642.9	652.6	647.0
45°	567.9	584.8	590.5	602.6	607.4	612.3	619.5	625.2	634.1	629.2
47.5°	546.9	564.7	570.3	583.2	588.9	594.5	601.0	609.0	617.1	612.3
50°	525.1	543.7	551.0	564.7	569.5	576.0	584.0	591.3	599.4	595.3
52.5°	504.2	523.5	530.8	545.3	551.0	557.4	565.5	573.6	580.8	577.6
55°	481.6	502.6	510.6	526.0	531.6	538.1	546.9	555.8	562.3	559.8
57.5°	460.6	482.4	490.5	507.4	512.2	520.3	529.2	538.9	544.5	542.1
60°	439.6	461.4	471.1	488.0	493.7	501.8	510.6	521.1	526.0	524.3
62.5°	418.7	441.3	451.7	469.5	474.3	483.2	493.7	502.6	507.4	506.6
65°	399.3	421.1	433.2	450.9	455.8	465.5	475.1	484.8	489.7	489.7
67.5°	379.1	402.5	414.6	433.2	437.2	447.7	458.2	467.9	471.9	471.9
70°	360.6	383.2	396.9	415.4	419.5	429.2	440.4	450.9	454.2	455.0
72.5°	342.0	364.6	379.1	398.5	402.5	412.2	422.7	434.0	436.4	437.2
75°	324.3	346.9	361.4	380.8	384.8	394.5	405.8	416.2	419.5	420.3
77.5°	306.5	329.1	345.3	363.8	367.8	377.5	388.8	399.3	401.7	403.3
80°	290.4	312.2	327.5	347.7	351.7	361.4	371.9	382.4	384.0	386.4
82.5°	274.3	296.1	312.2	331.5	335.6	345.3	355.7	366.2	367.8	371.1
85°	258.9	280.7	296.9	315.4	320.3	329.1	340.4	350.1	351.7	354.1
87.5°	245.2	265.4	282.3	300.1	304.9	313.8	325.1	334.8	335.6	338.8
90°	230.7	250.9	267.8	285.6	290.4	298.5	309.8	319.4	321.1	323.5
92.5°	218.6	237.2	254.9	271.9	275.9	284.8	295.2	304.9	306.5	309.0
95°	205.7	224.3	242.0	258.1	262.2	271.0	280.7	290.4	292.0	294.4
97.5°	194.4	212.2	229.1	245.2	249.3	257.3	267.8	276.7	278.3	281.5
100°	183.9	200.9	218.6	233.1	237.2	245.2	254.9	263.8	265.4	268.6
102.5°	174.2	190.4	207.3	221.0	225.9	233.1	242.8	250.9	252.5	254.9
105°	165.4	180.7	196.8	209.7	214.6	221.8	230.7	238.8	240.4	242.8
107.5°	156.5	171.0	186.3	199.3	203.3	209.7	218.6	226.7	228.3	231.5
110°	148.4	162.9	177.5	189.6	194.4	199.3	208.1	215.4	217.0	219.4



TEST NUMBER: P895050
 CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L935

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	141.2	154.1	168.6	179.9	183.9	189.6	196.8	204.1	205.7	208.9
115°	134.7	146.8	161.3	171.8	175.0	179.9	188.0	194.4	196.0	198.4
117.5°	129.1	139.6	152.5	162.9	167.0	171.0	178.3	183.9	186.3	188.0
120°	124.2	133.9	145.2	154.9	159.7	162.9	169.4	175.0	177.5	179.1
122.5°	119.4	128.3	138.7	147.6	151.7	154.1	161.3	166.2	168.6	171.0
125°	115.4	123.4	133.1	140.4	144.4	146.8	153.3	158.1	160.5	162.1
127.5°	111.3	118.6	128.3	133.9	137.9	139.6	145.2	150.0	152.5	153.3
130°	107.3	114.5	122.6	128.3	131.5	133.9	138.7	142.0	144.4	145.2
132.5°	104.1	110.5	117.8	123.4	126.6	127.5	132.3	135.5	137.9	138.7
135°	101.6	106.5	113.7	118.6	121.0	122.6	126.6	129.1	131.5	132.3
137.5°	98.4	103.3	109.7	112.9	116.2	117.0	121.0	123.4	125.8	126.6
140°	96.0	100.0	105.7	108.9	112.1	112.1	115.4	117.8	120.2	120.2
142.5°	93.6	97.6	102.4	105.7	108.1	108.1	111.3	112.9	115.4	115.4
145°	90.3	94.4	99.2	101.6	104.1	104.1	106.5	108.1	110.5	110.5
147.5°	87.1	91.2	96.0	97.6	100.0	100.0	102.4	104.1	105.7	105.7
150°	83.1	86.3	92.0	94.4	96.8	96.8	98.4	100.0	101.6	101.6
152.5°	79.9	82.3	87.1	90.3	92.8	92.8	94.4	96.0	97.6	97.6
155°	75.8	78.2	82.3	86.3	88.7	89.5	91.2	92.0	93.6	93.6
157.5°	72.6	75.0	78.2	81.5	83.9	85.5	87.9	88.7	89.5	89.5
160°	68.6	70.2	73.4	76.6	79.1	80.7	84.7	85.5	86.3	86.3
162.5°	67.0	67.0	68.6	71.0	73.4	74.2	78.2	81.5	83.1	82.3
165°	67.8	67.0	67.0	67.8	69.4	70.2	72.6	77.4	79.1	78.2
167.5°	69.4	67.8	67.0	67.0	68.6	68.6	71.0	75.0	79.9	78.2
170°	69.4	67.0	65.3	65.3	66.1	66.1	67.8	70.2	75.0	75.8
172.5°	68.6	67.0	64.5	61.3	62.1	61.3	60.5	62.1	62.9	71.0
175°	69.4	67.0	64.5	60.5	58.9	56.5	52.4	49.2	48.4	39.5
177.5°	68.6	66.1	62.9	59.7	58.1	54.9	50.0	44.4	41.1	36.3
180°	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3



TEST NUMBER: P895050
 CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L935

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	10.78	12.09	11.42	12.76	13.53	14.40	15.72	15.05	16.38	17.15
	3H	12.13	13.33	12.78	14.00	14.80	17.36	18.56	18.01	19.23	20.03
	4H	12.53	13.67	13.20	14.36	15.17	18.87	20.01	19.54	20.69	21.51
	6H	12.75	13.81	13.43	14.51	15.34	20.48	21.54	21.16	22.23	23.07
	8H	12.78	13.80	13.48	14.52	15.35	21.33	22.35	22.02	23.06	23.90
	12H	12.79	13.76	13.49	14.47	15.34	22.27	23.25	22.98	23.96	24.82
4H	2H	11.94	13.08	12.61	13.77	14.58	14.72	15.86	15.40	16.55	17.36
	3H	13.58	14.56	14.27	15.28	16.11	17.91	18.88	18.59	19.60	20.44
	4H	14.15	15.05	14.85	15.77	16.64	19.58	20.49	20.29	21.21	22.07
	6H	14.49	15.29	15.21	16.04	16.90	21.40	22.20	22.13	22.95	23.82
	8H	14.56	15.31	15.29	16.06	16.94	22.38	23.13	23.10	23.88	24.76
	12H	14.59	15.27	15.34	16.04	16.93	23.46	24.15	24.21	24.92	25.81
8H	4H	15.25	16.01	15.98	16.75	17.64	19.75	20.51	20.48	21.25	22.14
	6H	15.86	16.50	16.62	17.29	18.18	21.75	22.39	22.51	23.18	24.06
	8H	16.06	16.64	16.82	17.43	18.32	22.87	23.45	23.63	24.24	25.13
	12H	16.17	16.69	16.94	17.47	18.42	24.15	24.66	24.92	25.44	26.40
12H	4H	15.62	16.31	16.37	17.07	17.96	19.75	20.43	20.50	21.20	22.09
	6H	16.40	16.98	17.16	17.77	18.66	21.78	22.36	22.54	23.15	24.04
	8H	16.73	17.24	17.50	18.02	18.98	22.96	23.48	23.73	24.26	25.21