

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: P895049

Luminaire Tested: 8TMB-4SL-RNDU-UNV-L930

Issue Date: 11/11/2024

**Test Information**

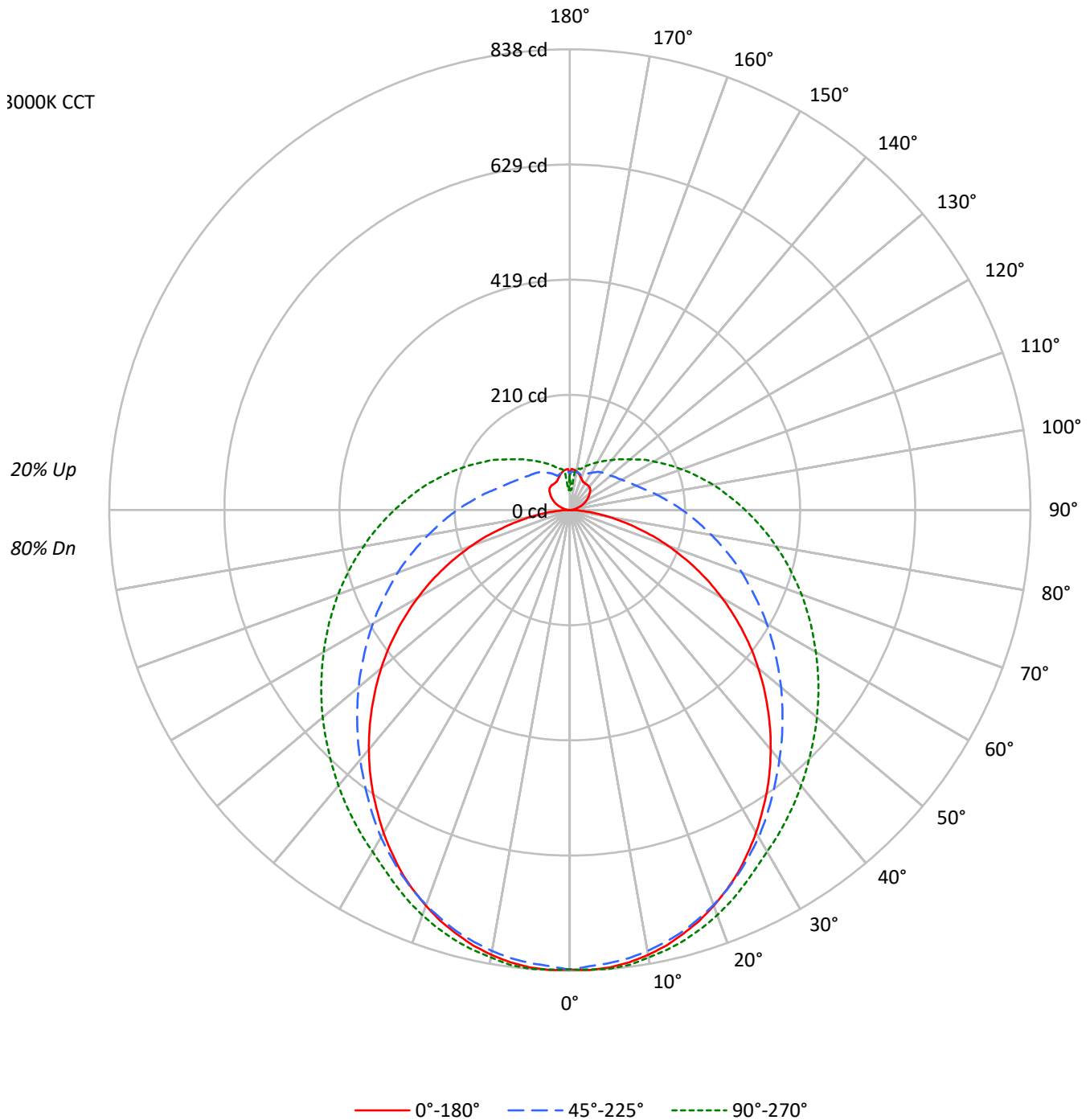
Test Method: LM-79-2019  
Report Number: P895049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-4SL-RNDU-UNV-L930  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 5  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3516.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 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<sub>in</sub>): 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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CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L930

### Luminous Intensity Polar Plot





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**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°	2966	2966	2966
5°	2968	2845	2846
10°	2947	2739	2715
15°	2910	2630	2593
20°	2865	2515	2469
25°	2809	2398	2344
30°	2735	2281	2233
35°	2659	2160	2151
40°	2578	2050	2077
45°	2489	1953	2011
50°	2397	1867	1960
55°	2291	1788	1916
60°	2171	1723	1882
65°	2023	1667	1864
70°	1840	1635	1857
75°	1590	1613	1866
80°	1289	1619	1895
85°	897	1671	1957

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2489 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.1	2.2
10°-20°	225.5	6.4
20°-30°	338.6	9.6
30°-40°	407.2	11.6
40°-50°	431.4	12.3
50°-60°	415.4	11.8
60°-70°	367.7	10.5
70°-80°	301.6	8.6
80°-90°	234.0	6.7
90°-100°	181.6	5.2
100°-110°	143.9	4.1
110°-120°	114.6	3.3
120°-130°	91.1	2.6
130°-140°	71.1	2.0
140°-150°	52.3	1.5
150°-160°	34.6	1.0
160°-170°	19.9	0.6
170°-180°	6.4	0.2
0°-30°	643.2	18.3
0°-40°	1050.3	29.9
0°-60°	1897.2	54.0
0°-90°	2800.4	79.6
90°-120°	440.2	12.5
90°-150°	654.7	18.6
90°-180°	716.0	20.4
0°-180°	3516.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	835	836	827	834	838	79
15°	798	799	794	806	810	225
25°	726	729	729	747	752	334
35°	625	633	640	674	687	391
45°	509	521	547	599	620	393
55°	384	403	456	524	552	344
65°	254	290	371	449	483	252
75°	127	191	296	379	414	136
85°	29	115	232	316	349	33
90°	1	91	204	286	319	2
95°	4	75	180	258	290	4
105°	14	60	142	212	239	15
115°	29	58	118	173	196	28
125°	41	60	103	142	160	37
135°	52	64	93	119	130	40
145°	56	64	84	103	109	35
155°	56	66	72	88	92	27
165°	67	71	68	68	77	19
175°	74	73	70	58	39	7
180°	64	64	64	64	64	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9
2.5°	837.5	836.7	838.3	839.9	844.7	838.3	841.5	832.8	833.5	834.3	830.4
5°	835.1	832.8	835.1	836.7	840.7	835.9	839.1	829.6	830.4	832.0	827.2
7.5°	829.6	827.2	828.8	830.4	834.3	829.6	833.5	824.0	825.6	826.4	822.4
10°	821.6	818.4	820.0	822.4	825.6	821.6	824.8	816.1	816.8	818.4	814.5
12.5°	811.3	808.1	809.7	811.3	815.3	811.3	814.5	805.7	807.3	808.9	804.9
15°	797.8	794.6	796.2	797.8	800.9	798.6	801.7	793.0	794.6	797.8	793.8
17.5°	783.4	778.7	780.3	782.6	785.8	784.2	786.6	779.5	780.3	783.4	779.5
20°	765.9	761.2	762.8	765.1	768.3	767.5	769.1	762.8	764.4	768.3	764.4
22.5°	746.9	742.1	743.7	746.9	749.2	749.2	750.0	745.3	746.9	750.8	747.6
25°	726.2	721.4	723.0	726.2	728.6	728.6	730.2	725.4	727.8	731.7	728.6
27.5°	702.3	699.9	699.9	703.1	704.7	706.3	707.1	703.1	706.3	710.3	707.9
30°	677.7	674.5	676.1	680.0	680.0	683.2	683.2	680.0	684.0	688.8	687.2
32.5°	651.4	649.0	649.8	654.6	654.6	658.6	657.8	656.2	660.2	665.7	664.1
35°	625.2	622.8	623.6	628.3	628.3	633.1	631.5	631.5	635.5	641.9	640.3
37.5°	597.3	595.7	596.5	601.3	601.3	606.1	604.5	605.3	610.0	617.2	616.4
40°	568.7	567.1	568.7	572.7	574.3	578.2	576.6	578.2	584.6	591.0	593.3
42.5°	539.3	538.5	540.1	544.0	545.6	549.6	548.8	551.2	557.6	567.1	570.3
45°	509.0	509.0	510.6	514.6	516.2	521.0	520.2	523.4	531.3	541.6	547.2
47.5°	478.8	479.6	480.4	485.2	485.2	493.1	490.7	495.5	505.9	517.8	524.1
50°	447.8	449.4	450.2	454.2	455.7	462.9	461.3	469.3	480.4	493.1	501.9
52.5°	416.8	418.4	420.0	423.1	424.7	433.5	431.9	442.2	455.7	469.3	478.8
55°	384.2	387.3	388.1	392.1	394.5	403.3	403.3	415.2	429.5	444.6	456.5
57.5°	352.3	355.5	356.3	361.1	364.3	374.6	376.2	389.7	405.6	420.8	435.1
60°	319.7	323.7	324.5	329.3	334.9	346.0	348.4	363.5	381.0	396.9	413.6
62.5°	287.1	291.1	292.7	297.5	306.2	317.4	321.3	338.8	357.1	374.6	392.9
65°	254.5	258.5	260.9	267.2	277.6	289.5	295.1	313.4	334.1	352.3	371.4
67.5°	221.9	226.7	229.9	237.8	251.3	264.1	269.6	290.3	311.8	331.7	351.6
70°	190.1	194.9	198.8	209.2	225.1	237.8	245.0	267.2	289.5	311.0	333.3
72.5°	159.1	163.8	169.4	182.1	199.6	214.0	221.9	245.0	269.6	291.1	314.2
75°	127.3	132.8	139.2	156.7	176.6	190.9	199.6	224.3	249.7	271.2	295.9
77.5°	98.6	104.2	113.7	131.2	153.5	169.4	179.0	205.2	231.5	252.9	278.4
80°	72.4	77.9	90.7	109.8	132.8	147.9	159.9	186.9	214.0	236.2	261.7
82.5°	49.3	54.9	70.0	90.7	115.3	130.4	141.6	170.2	197.3	220.3	245.8
85°	28.6	36.6	52.5	74.8	100.2	115.3	126.5	155.9	182.1	205.2	231.5
87.5°	12.7	22.3	39.8	62.0	87.5	101.8	113.7	140.8	168.6	191.7	217.9
90°	0.8	12.7	31.0	52.5	77.2	90.7	101.8	128.9	155.1	179.0	204.4
92.5°	1.6	8.7	25.5	45.3	68.4	81.9	93.1	118.5	143.2	167.8	192.5
95°	4.0	8.7	22.3	40.6	62.0	74.8	85.1	109.8	132.8	156.7	180.5
97.5°	6.4	9.5	21.5	38.2	57.3	69.2	78.7	101.8	124.9	146.3	170.2
100°	8.7	11.9	21.5	36.6	54.1	65.2	74.0	95.4	116.9	136.8	160.7
102.5°	11.1	14.3	23.1	36.6	52.5	62.0	70.8	90.7	110.6	128.9	151.1
105°	14.3	16.7	24.7	36.6	50.9	60.4	67.6	85.9	105.0	122.5	142.4
107.5°	17.5	19.1	26.2	37.4	50.9	58.9	66.0	82.7	100.2	116.1	135.2
110°	21.5	22.3	28.6	39.0	50.9	58.1	64.4	80.3	96.2	111.4	128.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	24.7	24.7	31.0	40.6	50.9	58.1	63.6	77.9	93.1	106.6	123.3
115°	28.6	28.6	33.4	42.2	51.7	58.1	63.6	77.2	90.7	102.6	118.5
117.5°	31.8	31.8	36.6	43.7	53.3	58.9	63.6	75.6	88.3	99.4	113.7
120°	35.0	35.0	38.2	45.3	54.1	59.7	63.6	74.8	85.9	97.0	109.8
122.5°	38.2	38.2	40.6	47.7	54.9	59.7	63.6	74.0	84.3	93.9	105.8
125°	41.4	41.4	43.0	49.3	56.5	60.4	64.4	74.0	83.5	91.5	103.4
127.5°	44.5	43.7	46.1	51.7	57.3	61.2	65.2	74.0	81.9	89.9	100.2
130°	46.9	46.1	49.3	53.3	58.9	62.0	65.2	73.2	81.1	88.3	97.0
132.5°	50.1	48.5	52.5	54.1	60.4	63.6	66.0	73.2	80.3	86.7	95.4
135°	52.5	50.9	54.9	56.5	61.2	64.4	66.8	73.2	79.5	85.9	93.1
137.5°	54.1	53.3	57.3	58.9	62.0	65.2	67.6	73.2	78.7	84.3	91.5
140°	54.9	54.1	57.3	60.4	62.0	65.2	66.8	72.4	77.9	82.7	89.1
142.5°	55.7	55.7	58.1	61.2	62.0	64.4	66.8	71.6	76.4	80.3	87.5
145°	55.7	55.7	58.1	62.0	62.8	63.6	65.2	70.0	74.0	77.9	84.3
147.5°	55.7	55.7	58.9	62.0	63.6	64.4	63.6	68.4	72.4	75.6	81.1
150°	55.7	55.7	58.9	62.0	64.4	65.2	64.4	66.8	70.0	73.2	77.9
152.5°	56.5	56.5	58.9	62.0	64.4	65.2	65.2	65.2	67.6	70.8	75.6
155°	56.5	57.3	58.9	63.6	65.2	66.0	66.0	66.0	65.2	68.4	72.4
157.5°	58.9	59.7	60.4	64.4	66.0	66.8	66.8	66.8	66.0	65.2	69.2
160°	61.2	62.0	62.8	66.0	67.6	68.4	68.4	68.4	66.8	66.0	66.0
162.5°	63.6	65.2	65.2	66.8	68.4	69.2	69.2	70.0	68.4	67.6	66.8
165°	66.8	67.6	67.6	68.4	70.0	70.8	70.0	70.8	70.0	69.2	68.4
167.5°	69.2	70.0	70.0	70.8	70.8	71.6	71.6	71.6	70.8	70.0	70.0
170°	71.6	72.4	72.4	72.4	72.4	72.4	72.4	72.4	71.6	70.0	70.0
172.5°	73.2	74.0	74.0	73.2	73.2	73.2	73.2	72.4	70.8	70.0	70.0
175°	74.0	74.8	74.8	74.0	73.2	73.2	73.2	72.4	70.8	70.0	70.0
177.5°	74.8	75.6	74.8	74.8	73.2	73.2	73.2	73.2	71.6	70.8	70.0
180°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9	835.9
2.5°	835.1	825.6	832.0	832.8	835.9	832.8	835.1	832.8	839.1	836.7
5°	832.0	823.2	828.8	829.6	833.5	829.6	833.5	832.0	839.9	837.5
7.5°	826.4	819.2	824.0	824.8	829.6	825.6	829.6	828.0	837.5	834.3
10°	818.4	812.9	817.6	818.4	823.2	819.2	822.4	820.8	831.2	826.4
12.5°	809.7	804.9	808.9	809.7	815.3	811.3	815.3	813.7	824.0	819.2
15°	797.0	794.6	798.6	800.1	805.7	802.5	806.5	804.9	816.1	809.7
17.5°	784.2	782.6	786.6	788.2	794.6	790.6	794.6	793.0	804.1	797.8
20°	768.3	767.5	771.5	773.9	779.5	775.5	780.3	778.7	790.6	784.2
22.5°	751.6	751.6	754.8	757.2	762.8	759.6	764.4	763.6	775.5	769.1
25°	733.3	734.1	737.3	740.5	746.9	744.5	748.4	748.4	759.6	751.6
27.5°	712.7	716.6	719.0	723.0	728.6	726.2	730.2	730.9	742.1	734.1
30°	691.2	696.7	699.1	703.9	708.7	708.7	712.7	714.2	725.4	717.4
32.5°	668.9	675.3	678.5	684.8	691.2	691.2	696.7	699.1	710.3	703.1
35°	646.6	655.4	659.4	667.3	673.7	674.5	680.0	683.2	694.4	687.2
37.5°	625.2	636.3	640.3	649.8	655.4	657.0	663.3	667.3	677.7	671.3
40°	602.9	616.4	621.2	631.5	636.3	639.5	645.8	650.6	660.2	654.6
42.5°	581.4	596.5	601.3	612.4	618.0	621.2	627.5	633.9	643.5	637.9
45°	559.9	576.6	582.2	594.1	598.9	603.7	610.8	616.4	625.2	620.4
47.5°	539.3	556.8	562.3	575.1	580.6	586.2	592.6	600.5	608.5	603.7
50°	517.8	536.1	543.2	556.8	561.5	567.9	575.8	583.0	591.0	587.0
52.5°	497.1	516.2	523.4	537.7	543.2	549.6	557.6	565.5	572.7	569.5
55°	474.8	495.5	503.5	518.6	524.1	530.5	539.3	548.0	554.4	552.0
57.5°	454.2	475.6	483.6	500.3	505.1	513.0	521.8	531.3	536.9	534.5
60°	433.5	455.0	464.5	481.2	486.8	494.7	503.5	513.8	518.6	517.0
62.5°	412.8	435.1	445.4	462.9	467.7	476.4	486.8	495.5	500.3	499.5
65°	393.7	415.2	427.1	444.6	449.4	458.9	468.5	478.0	482.8	482.8
67.5°	373.8	396.9	408.8	427.1	431.1	441.4	451.8	461.3	465.3	465.3
70°	355.5	377.8	391.3	409.6	413.6	423.1	434.3	444.6	447.8	448.6
72.5°	337.2	359.5	373.8	392.9	396.9	406.4	416.8	427.9	430.3	431.1
75°	319.7	342.0	356.3	375.4	379.4	388.9	400.1	410.4	413.6	414.4
77.5°	302.2	324.5	340.4	358.7	362.7	372.2	383.4	393.7	396.1	397.7
80°	286.3	307.8	322.9	342.8	346.8	356.3	366.7	377.0	378.6	381.0
82.5°	270.4	291.9	307.8	326.9	330.9	340.4	350.8	361.1	362.7	365.9
85°	255.3	276.8	292.7	311.0	315.8	324.5	335.6	345.2	346.8	349.2
87.5°	241.8	261.7	278.4	295.9	300.7	309.4	320.5	330.1	330.9	334.1
90°	227.5	247.4	264.1	281.6	286.3	294.3	305.4	315.0	316.6	318.9
92.5°	215.5	233.8	251.3	268.0	272.0	280.8	291.1	300.7	302.2	304.6
95°	202.8	221.1	238.6	254.5	258.5	267.2	276.8	286.3	287.9	290.3
97.5°	191.7	209.2	225.9	241.8	245.8	253.7	264.1	272.8	274.4	277.6
100°	181.3	198.0	215.5	229.9	233.8	241.8	251.3	260.1	261.7	264.9
102.5°	171.8	187.7	204.4	217.9	222.7	229.9	239.4	247.4	249.0	251.3
105°	163.1	178.2	194.1	206.8	211.6	218.7	227.5	235.4	237.0	239.4
107.5°	154.3	168.6	183.7	196.5	200.4	206.8	215.5	223.5	225.1	228.3
110°	146.3	160.7	175.0	186.9	191.7	196.5	205.2	212.4	214.0	216.3





TEST NUMBER: P895049  
 CATALOG NUMBER: 8TMB-4SL-RNDU-UNV-L930

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	139.2	151.9	166.2	177.4	181.3	186.9	194.1	201.2	202.8	206.0
115°	132.8	144.8	159.1	169.4	172.6	177.4	185.3	191.7	193.3	195.7
117.5°	127.3	137.6	150.3	160.7	164.6	168.6	175.8	181.3	183.7	185.3
120°	122.5	132.0	143.2	152.7	157.5	160.7	167.0	172.6	175.0	176.6
122.5°	117.7	126.5	136.8	145.6	149.5	151.9	159.1	163.8	166.2	168.6
125°	113.7	121.7	131.2	138.4	142.4	144.8	151.1	155.9	158.3	159.9
127.5°	109.8	116.9	126.5	132.0	136.0	137.6	143.2	147.9	150.3	151.1
130°	105.8	112.9	120.9	126.5	129.6	132.0	136.8	140.0	142.4	143.2
132.5°	102.6	109.0	116.1	121.7	124.9	125.7	130.4	133.6	136.0	136.8
135°	100.2	105.0	112.1	116.9	119.3	120.9	124.9	127.3	129.6	130.4
137.5°	97.0	101.8	108.2	111.4	114.5	115.3	119.3	121.7	124.1	124.9
140°	94.6	98.6	104.2	107.4	110.6	110.6	113.7	116.1	118.5	118.5
142.5°	92.3	96.2	101.0	104.2	106.6	106.6	109.8	111.4	113.7	113.7
145°	89.1	93.1	97.8	100.2	102.6	102.6	105.0	106.6	109.0	109.0
147.5°	85.9	89.9	94.6	96.2	98.6	98.6	101.0	102.6	104.2	104.2
150°	81.9	85.1	90.7	93.1	95.4	95.4	97.0	98.6	100.2	100.2
152.5°	78.7	81.1	85.9	89.1	91.5	91.5	93.1	94.6	96.2	96.2
155°	74.8	77.2	81.1	85.1	87.5	88.3	89.9	90.7	92.3	92.3
157.5°	71.6	74.0	77.2	80.3	82.7	84.3	86.7	87.5	88.3	88.3
160°	67.6	69.2	72.4	75.6	77.9	79.5	83.5	84.3	85.1	85.1
162.5°	66.0	66.0	67.6	70.0	72.4	73.2	77.2	80.3	81.9	81.1
165°	66.8	66.0	66.0	66.8	68.4	69.2	71.6	76.4	77.9	77.2
167.5°	68.4	66.8	66.0	66.0	67.6	67.6	70.0	74.0	78.7	77.2
170°	68.4	66.0	64.4	64.4	65.2	65.2	66.8	69.2	74.0	74.8
172.5°	67.6	66.0	63.6	60.4	61.2	60.4	59.7	61.2	62.0	70.0
175°	68.4	66.0	63.6	59.7	58.1	55.7	51.7	48.5	47.7	39.0
177.5°	67.6	65.2	62.0	58.9	57.3	54.1	49.3	43.7	40.6	35.8
180°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4



TEST NUMBER: P895049  
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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	10.73	12.04	11.37	12.71	13.48	14.36	15.67	15.00	16.33	17.10
	3H	12.08	13.28	12.73	13.95	14.76	17.31	18.51	17.97	19.18	19.99
	4H	12.48	13.62	13.16	14.31	15.12	18.82	19.96	19.49	20.64	21.46
	6H	12.70	13.76	13.38	14.46	15.29	20.43	21.49	21.11	22.19	23.02
	8H	12.73	13.75	13.43	14.47	15.30	21.28	22.30	21.98	23.01	23.85
	12H	12.74	13.71	13.44	14.42	15.29	22.22	23.20	22.93	23.91	24.77
4H	2H	11.89	13.03	12.57	13.72	14.53	14.67	15.81	15.35	16.50	17.31
	3H	13.53	14.51	14.22	15.23	16.06	17.86	18.83	18.54	19.56	20.39
	4H	14.10	15.00	14.80	15.72	16.59	19.54	20.44	20.24	21.16	22.02
	6H	14.44	15.24	15.16	15.99	16.85	21.36	22.15	22.08	22.90	23.77
	8H	14.51	15.26	15.24	16.01	16.89	22.33	23.08	23.06	23.83	24.71
	12H	14.54	15.22	15.29	15.99	16.88	23.42	24.10	24.16	24.87	25.76
8H	4H	15.21	15.96	15.93	16.70	17.59	19.71	20.46	20.43	21.20	22.09
	6H	15.81	16.46	16.57	17.24	18.13	21.70	22.34	22.46	23.13	24.01
	8H	16.01	16.59	16.78	17.38	18.27	22.82	23.40	23.59	24.19	25.09
	12H	16.12	16.64	16.89	17.42	18.37	24.10	24.62	24.87	25.39	26.35
12H	4H	15.57	16.26	16.32	17.03	17.92	19.70	20.38	20.45	21.15	22.04
	6H	16.35	16.93	17.11	17.72	18.62	21.73	22.31	22.50	23.10	24.00
	8H	16.68	17.20	17.45	17.97	18.93	22.91	23.43	23.68	24.21	25.16