

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: P893451

Luminaire Tested: 4MB-3SL-RNDU-UNV-L840

Issue Date: 11/11/2024

**Test Information**

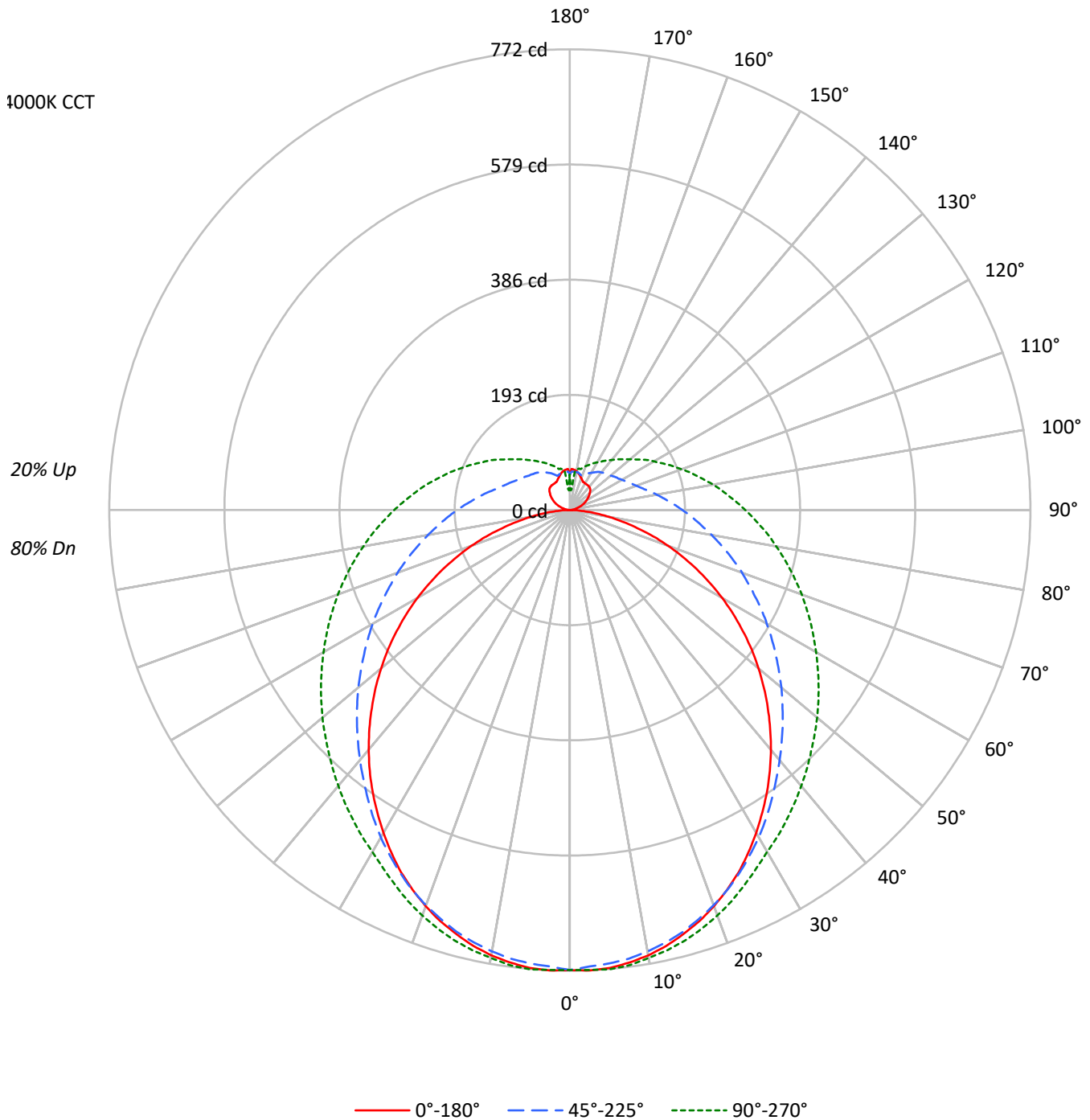
Test Method: LM-79-2019  
Report Number: P893451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-3SL-RNDU-UNV-L840  
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 4  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3242.0 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.98' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 21.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 5.2  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P893451  
CATALOG NUMBER: 4MB-3SL-RNDU-UNV-L840

### 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°	5484	5484	5484
5°	5475	5252	5264
10°	5423	5048	5020
15°	5343	4841	4795
20°	5248	4622	4565
25°	5131	4403	4334
30°	4983	4181	4129
35°	4829	3953	3977
40°	4666	3747	3840
45°	4488	3564	3718
50°	4302	3402	3624
55°	4088	3251	3542
60°	3846	3128	3480
65°	3552	3018	3446
70°	3188	2951	3434
75°	2698	2902	3450
80°	2107	2902	3504
85°	1348	2977	3619

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4488 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	2.2
10°-20°	207.9	6.4
20°-30°	312.2	9.6
30°-40°	375.4	11.6
40°-50°	397.8	12.3
50°-60°	383.1	11.8
60°-70°	339.0	10.5
70°-80°	278.1	8.6
80°-90°	215.8	6.7
90°-100°	167.5	5.2
100°-110°	132.7	4.1
110°-120°	105.7	3.3
120°-130°	84.0	2.6
130°-140°	65.6	2.0
140°-150°	48.3	1.5
150°-160°	31.9	1.0
160°-170°	18.4	0.6
170°-180°	5.9	0.2
0°-30°	593.1	18.3
0°-40°	968.5	29.9
0°-60°	1749.3	54.0
0°-90°	2582.2	79.6
90°-120°	405.8	12.5
90°-150°	603.6	18.6
90°-180°	660.0	20.4
0°-180°	3242.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	770	771	763	769	772	73
15°	736	736	732	743	747	207
25°	670	672	672	689	693	308
35°	576	584	590	621	634	360
45°	469	480	505	552	572	362
55°	354	372	421	483	509	317
65°	235	267	342	414	445	232
75°	117	176	273	350	382	125
85°	26	106	213	291	322	30
90°	1	84	188	264	294	2
95°	4	69	166	238	268	4
105°	13	56	131	195	221	14
115°	26	54	109	159	180	26
125°	38	56	95	131	147	34
135°	48	59	86	110	120	37
145°	51	59	78	95	100	32
155°	52	61	67	81	85	25
165°	62	65	63	63	71	17
175°	68	68	64	54	36	6
180°	59	59	59	59	59	



TEST NUMBER: P893451  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8
2.5°	772.3	771.5	773.0	774.5	778.9	773.0	775.9	767.9	768.6	769.3	765.7
5°	770.1	767.9	770.1	771.5	775.2	770.8	773.7	764.9	765.7	767.1	762.7
7.5°	764.9	762.7	764.2	765.7	769.3	764.9	768.6	759.8	761.3	762.0	758.3
10°	757.6	754.7	756.1	758.3	761.3	757.6	760.5	752.5	753.2	754.7	751.0
12.5°	748.1	745.1	746.6	748.1	751.7	748.1	751.0	742.9	744.4	745.9	742.2
15°	735.6	732.7	734.1	735.6	738.5	736.3	739.3	731.2	732.7	735.6	731.9
17.5°	722.4	718.0	719.5	721.7	724.6	723.1	725.3	718.7	719.5	722.4	718.7
20°	706.3	701.9	703.3	705.5	708.5	707.7	709.2	703.3	704.8	708.5	704.8
22.5°	688.7	684.3	685.7	688.7	690.9	690.9	691.6	687.2	688.7	692.3	689.4
25°	669.6	665.2	666.6	669.6	671.8	671.8	673.3	668.8	671.0	674.7	671.8
27.5°	647.6	645.4	645.4	648.3	649.8	651.2	652.0	648.3	651.2	654.9	652.7
30°	624.8	621.9	623.4	627.0	627.0	630.0	630.0	627.0	630.7	635.1	633.6
32.5°	600.6	598.4	599.2	603.6	603.6	607.2	606.5	605.0	608.7	613.8	612.4
35°	576.4	574.2	575.0	579.4	579.4	583.8	582.3	582.3	586.0	591.8	590.4
37.5°	550.8	549.3	550.0	554.4	554.4	558.8	557.4	558.1	562.5	569.1	568.4
40°	524.4	522.9	524.4	528.0	529.5	533.2	531.7	533.2	539.0	544.9	547.1
42.5°	497.2	496.5	498.0	501.6	503.1	506.8	506.0	508.2	514.1	522.9	525.8
45°	469.4	469.4	470.8	474.5	476.0	480.4	479.6	482.6	489.9	499.4	504.6
47.5°	441.5	442.2	443.0	447.4	447.4	454.7	452.5	456.9	466.4	477.4	483.3
50°	412.9	414.4	415.1	418.8	420.2	426.8	425.4	432.7	443.0	454.7	462.8
52.5°	384.3	385.8	387.2	390.2	391.6	399.7	398.2	407.8	420.2	432.7	441.5
55°	354.2	357.2	357.9	361.6	363.8	371.8	371.8	382.8	396.0	410.0	421.0
57.5°	324.9	327.8	328.6	333.0	335.9	345.4	346.9	359.4	374.0	388.0	401.2
60°	294.8	298.5	299.2	303.6	308.8	319.0	321.2	335.2	351.3	366.0	381.4
62.5°	264.8	268.4	269.9	274.3	282.4	292.6	296.3	312.4	329.3	345.4	362.3
65°	234.7	238.4	240.6	246.4	256.0	267.0	272.1	289.0	308.0	324.9	342.5
67.5°	204.6	209.0	211.9	219.3	231.8	243.5	248.6	267.7	287.5	305.8	324.2
70°	175.3	179.7	183.3	192.9	207.5	219.3	225.9	246.4	267.0	286.8	307.3
72.5°	146.7	151.1	156.2	167.9	184.1	197.3	204.6	225.9	248.6	268.4	289.7
75°	117.3	122.5	128.3	144.5	162.8	176.0	184.1	206.8	230.3	250.1	272.8
77.5°	90.9	96.1	104.9	121.0	141.5	156.2	165.0	189.2	213.4	233.2	256.7
80°	66.7	71.9	83.6	101.2	122.5	136.4	147.4	172.3	197.3	217.8	241.3
82.5°	45.5	50.6	64.5	83.6	106.3	120.3	130.5	156.9	181.9	203.1	226.6
85°	26.4	33.7	48.4	68.9	92.4	106.3	116.6	143.7	167.9	189.2	213.4
87.5°	11.7	20.5	36.7	57.2	80.7	93.9	104.9	129.8	155.5	176.7	200.9
90°	0.7	11.7	28.6	48.4	71.1	83.6	93.9	118.8	143.0	165.0	188.5
92.5°	1.5	8.1	23.5	41.8	63.1	75.5	85.8	109.3	132.0	154.7	177.5
95°	3.7	8.1	20.5	37.4	57.2	68.9	78.5	101.2	122.5	144.5	166.5
97.5°	5.9	8.8	19.8	35.2	52.8	63.8	72.6	93.9	115.1	134.9	156.9
100°	8.1	11.0	19.8	33.7	49.9	60.1	68.2	88.0	107.8	126.1	148.1
102.5°	10.3	13.2	21.3	33.7	48.4	57.2	65.3	83.6	101.9	118.8	139.3
105°	13.2	15.4	22.7	33.7	46.9	55.7	62.3	79.2	96.8	112.9	131.3
107.5°	16.1	17.6	24.2	34.5	46.9	54.3	60.9	76.3	92.4	107.1	124.7
110°	19.8	20.5	26.4	35.9	46.9	53.5	59.4	74.1	88.7	102.7	118.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	22.7	22.7	28.6	37.4	46.9	53.5	58.7	71.9	85.8	98.3	113.7
115°	26.4	26.4	30.8	38.9	47.7	53.5	58.7	71.1	83.6	94.6	109.3
117.5°	29.3	29.3	33.7	40.3	49.1	54.3	58.7	69.7	81.4	91.7	104.9
120°	32.3	32.3	35.2	41.8	49.9	55.0	58.7	68.9	79.2	89.5	101.2
122.5°	35.2	35.2	37.4	44.0	50.6	55.0	58.7	68.2	77.7	86.5	97.5
125°	38.1	38.1	39.6	45.5	52.1	55.7	59.4	68.2	77.0	84.3	95.3
127.5°	41.1	40.3	42.5	47.7	52.8	56.5	60.1	68.2	75.5	82.9	92.4
130°	43.3	42.5	45.5	49.1	54.3	57.2	60.1	67.5	74.8	81.4	89.5
132.5°	46.2	44.7	48.4	49.9	55.7	58.7	60.9	67.5	74.1	79.9	88.0
135°	48.4	46.9	50.6	52.1	56.5	59.4	61.6	67.5	73.3	79.2	85.8
137.5°	49.9	49.1	52.8	54.3	57.2	60.1	62.3	67.5	72.6	77.7	84.3
140°	50.6	49.9	52.8	55.7	57.2	60.1	61.6	66.7	71.9	76.3	82.1
142.5°	51.3	51.3	53.5	56.5	57.2	59.4	61.6	66.0	70.4	74.1	80.7
145°	51.3	51.3	53.5	57.2	57.9	58.7	60.1	64.5	68.2	71.9	77.7
147.5°	51.3	51.3	54.3	57.2	58.7	59.4	58.7	63.1	66.7	69.7	74.8
150°	51.3	51.3	54.3	57.2	59.4	60.1	59.4	61.6	64.5	67.5	71.9
152.5°	52.1	52.1	54.3	57.2	59.4	60.1	60.1	60.1	62.3	65.3	69.7
155°	52.1	52.8	54.3	58.7	60.1	60.9	60.9	60.9	60.1	63.1	66.7
157.5°	54.3	55.0	55.7	59.4	60.9	61.6	61.6	61.6	60.9	60.1	63.8
160°	56.5	57.2	57.9	60.9	62.3	63.1	63.1	63.1	61.6	60.9	60.9
162.5°	58.7	60.1	60.1	61.6	63.1	63.8	63.8	64.5	63.1	62.3	61.6
165°	61.6	62.3	62.3	63.1	64.5	65.3	64.5	65.3	64.5	63.8	63.1
167.5°	63.8	64.5	64.5	65.3	65.3	66.0	66.0	66.0	65.3	64.5	64.5
170°	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.0	64.5	64.5
172.5°	67.5	68.2	68.2	67.5	67.5	67.5	67.5	66.7	65.3	64.5	64.5
175°	68.2	68.9	68.9	68.2	67.5	67.5	67.5	66.7	65.3	64.5	64.5
177.5°	68.9	69.7	68.9	68.9	67.5	67.5	67.5	67.5	66.0	65.3	64.5
180°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8
2.5°	770.1	761.3	767.1	767.9	770.8	767.9	770.1	767.9	773.7	771.5
5°	767.1	759.1	764.2	764.9	768.6	764.9	768.6	767.1	774.5	772.3
7.5°	762.0	755.4	759.8	760.5	764.9	761.3	764.9	763.5	772.3	769.3
10°	754.7	749.5	753.9	754.7	759.1	755.4	758.3	756.9	766.4	762.0
12.5°	746.6	742.2	745.9	746.6	751.7	748.1	751.7	750.3	759.8	755.4
15°	734.9	732.7	736.3	737.8	742.9	740.0	743.7	742.2	752.5	746.6
17.5°	723.1	721.7	725.3	726.8	732.7	729.0	732.7	731.2	741.5	735.6
20°	708.5	707.7	711.4	713.6	718.7	715.1	719.5	718.0	729.0	723.1
22.5°	693.1	693.1	696.0	698.2	703.3	700.4	704.8	704.1	715.1	709.2
25°	676.2	676.9	679.9	682.8	688.7	686.5	690.1	690.1	700.4	693.1
27.5°	657.1	660.8	663.0	666.6	671.8	669.6	673.3	674.0	684.3	676.9
30°	637.3	642.4	644.6	649.0	653.4	653.4	657.1	658.6	668.8	661.5
32.5°	616.8	622.6	625.6	631.4	637.3	637.3	642.4	644.6	654.9	648.3
35°	596.2	604.3	608.0	615.3	621.2	621.9	627.0	630.0	640.2	633.6
37.5°	576.4	586.7	590.4	599.2	604.3	605.8	611.6	615.3	624.8	619.0
40°	555.9	568.4	572.8	582.3	586.7	589.6	595.5	599.9	608.7	603.6
42.5°	536.1	550.0	554.4	564.7	569.8	572.8	578.6	584.5	593.3	588.2
45°	516.3	531.7	536.8	547.8	552.2	556.6	563.2	568.4	576.4	572.0
47.5°	497.2	513.4	518.5	530.2	535.4	540.5	546.4	553.7	561.0	556.6
50°	477.4	494.3	500.9	513.4	517.8	523.6	531.0	537.6	544.9	541.2
52.5°	458.4	476.0	482.6	495.8	500.9	506.8	514.1	521.4	528.0	525.1
55°	437.8	456.9	464.2	478.2	483.3	489.2	497.2	505.3	511.2	509.0
57.5°	418.8	438.6	445.9	461.3	465.7	473.0	481.1	489.9	495.0	492.8
60°	399.7	419.5	428.3	443.7	448.8	456.2	464.2	473.8	478.2	476.7
62.5°	380.6	401.2	410.7	426.8	431.2	439.3	448.8	456.9	461.3	460.6
65°	363.0	382.8	393.8	410.0	414.4	423.2	432.0	440.8	445.2	445.2
67.5°	344.7	366.0	377.0	393.8	397.5	407.0	416.6	425.4	429.0	429.0
70°	327.8	348.4	360.8	377.7	381.4	390.2	400.4	410.0	412.9	413.6
72.5°	311.0	331.5	344.7	362.3	366.0	374.8	384.3	394.6	396.8	397.5
75°	294.8	315.4	328.6	346.2	349.8	358.6	368.9	378.4	381.4	382.1
77.5°	278.7	299.2	313.9	330.8	334.4	343.2	353.5	363.0	365.2	366.7
80°	264.0	283.8	297.8	316.1	319.8	328.6	338.1	347.6	349.1	351.3
82.5°	249.4	269.2	283.8	301.4	305.1	313.9	323.4	333.0	334.4	337.4
85°	235.4	255.2	269.9	286.8	291.2	299.2	309.5	318.3	319.8	322.0
87.5°	222.9	241.3	256.7	272.8	277.2	285.3	295.6	304.4	305.1	308.0
90°	209.7	228.1	243.5	259.6	264.0	271.4	281.6	290.4	291.9	294.1
92.5°	198.7	215.6	231.8	247.2	250.8	258.9	268.4	277.2	278.7	280.9
95°	187.0	203.9	220.0	234.7	238.4	246.4	255.2	264.0	265.5	267.7
97.5°	176.7	192.9	208.3	222.9	226.6	234.0	243.5	251.6	253.0	256.0
100°	167.2	182.6	198.7	211.9	215.6	222.9	231.8	239.8	241.3	244.2
102.5°	158.4	173.1	188.5	200.9	205.3	211.9	220.7	228.1	229.6	231.8
105°	150.3	164.3	178.9	190.7	195.1	201.7	209.7	217.1	218.5	220.7
107.5°	142.3	155.5	169.4	181.1	184.8	190.7	198.7	206.1	207.5	210.5
110°	134.9	148.1	161.3	172.3	176.7	181.1	189.2	195.8	197.3	199.5





TEST NUMBER: P893451  
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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	128.3	140.1	153.3	163.5	167.2	172.3	178.9	185.5	187.0	189.9
115°	122.5	133.5	146.7	156.2	159.1	163.5	170.9	176.7	178.2	180.4
117.5°	117.3	126.9	138.6	148.1	151.8	155.5	162.1	167.2	169.4	170.9
120°	112.9	121.7	132.0	140.8	145.2	148.1	154.0	159.1	161.3	162.8
122.5°	108.5	116.6	126.1	134.2	137.9	140.1	146.7	151.1	153.3	155.5
125°	104.9	112.2	121.0	127.6	131.3	133.5	139.3	143.7	145.9	147.4
127.5°	101.2	107.8	116.6	121.7	125.4	126.9	132.0	136.4	138.6	139.3
130°	97.5	104.1	111.5	116.6	119.5	121.7	126.1	129.1	131.3	132.0
132.5°	94.6	100.5	107.1	112.2	115.1	115.9	120.3	123.2	125.4	126.1
135°	92.4	96.8	103.4	107.8	110.0	111.5	115.1	117.3	119.5	120.3
137.5°	89.5	93.9	99.7	102.7	105.6	106.3	110.0	112.2	114.4	115.1
140°	87.3	90.9	96.1	99.0	101.9	101.9	104.9	107.1	109.3	109.3
142.5°	85.1	88.7	93.1	96.1	98.3	98.3	101.2	102.7	104.9	104.9
145°	82.1	85.8	90.2	92.4	94.6	94.6	96.8	98.3	100.5	100.5
147.5°	79.2	82.9	87.3	88.7	90.9	90.9	93.1	94.6	96.1	96.1
150°	75.5	78.5	83.6	85.8	88.0	88.0	89.5	90.9	92.4	92.4
152.5°	72.6	74.8	79.2	82.1	84.3	84.3	85.8	87.3	88.7	88.7
155°	68.9	71.1	74.8	78.5	80.7	81.4	82.9	83.6	85.1	85.1
157.5°	66.0	68.2	71.1	74.1	76.3	77.7	79.9	80.7	81.4	81.4
160°	62.3	63.8	66.7	69.7	71.9	73.3	77.0	77.7	78.5	78.5
162.5°	60.9	60.9	62.3	64.5	66.7	67.5	71.1	74.1	75.5	74.8
165°	61.6	60.9	60.9	61.6	63.1	63.8	66.0	70.4	71.9	71.1
167.5°	63.1	61.6	60.9	60.9	62.3	62.3	64.5	68.2	72.6	71.1
170°	63.1	60.9	59.4	59.4	60.1	60.1	61.6	63.8	68.2	68.9
172.5°	62.3	60.9	58.7	55.7	56.5	55.7	55.0	56.5	57.2	64.5
175°	63.1	60.9	58.7	55.0	53.5	51.3	47.7	44.7	44.0	35.9
177.5°	62.3	60.1	57.2	54.3	52.8	49.9	45.5	40.3	37.4	33.0
180°	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4



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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	12.84	14.15	13.49	14.82	15.59	16.39	17.70	17.03	18.36	19.13
	3H	14.19	15.39	14.85	16.07	16.87	19.31	20.50	19.96	21.18	21.98
	4H	14.60	15.74	15.27	16.42	17.24	20.78	21.92	21.46	22.61	23.42
	6H	14.81	15.87	15.50	16.57	17.40	22.34	23.40	23.03	24.10	24.93
	8H	14.85	15.86	15.54	16.58	17.42	23.15	24.17	23.85	24.89	25.72
	12H	14.85	15.83	15.55	16.54	17.40	24.03	25.00	24.73	25.72	26.58
4H	2H	13.99	15.12	14.66	15.81	16.63	16.71	17.85	17.38	18.53	19.35
	3H	15.63	16.60	16.32	17.33	18.16	19.86	20.84	20.55	21.56	22.39
	4H	16.20	17.10	16.90	17.82	18.68	21.51	22.41	22.21	23.13	24.00
	6H	16.54	17.34	17.26	18.09	18.95	23.28	24.08	24.00	24.83	25.69
	8H	16.61	17.36	17.34	18.11	18.99	24.21	24.97	24.94	25.71	26.60
	12H	16.64	17.32	17.39	18.09	18.98	25.24	25.92	25.98	26.69	27.58
8H	4H	17.28	18.03	18.01	18.78	19.66	21.68	22.43	22.41	23.18	24.07
	6H	17.89	18.53	18.65	19.32	20.20	23.63	24.28	24.39	25.06	25.95
	8H	18.09	18.67	18.85	19.45	20.35	24.72	25.30	25.48	26.08	26.98
	12H	18.20	18.72	18.97	19.50	20.45	25.93	26.45	26.70	27.23	28.19
12H	4H	17.64	18.32	18.38	19.09	19.98	21.68	22.36	22.43	23.13	24.02
	6H	18.41	18.99	19.18	19.78	20.68	23.67	24.24	24.43	25.03	25.93
	8H	18.74	19.26	19.51	20.04	21.00	24.81	25.33	25.58	26.11	27.06