

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: P893406

Luminaire Tested: 4MB-3SL-FLTU-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-3SL-FLTU-UNV-L935
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 350
Light Source: -
Ballast/Driver: -

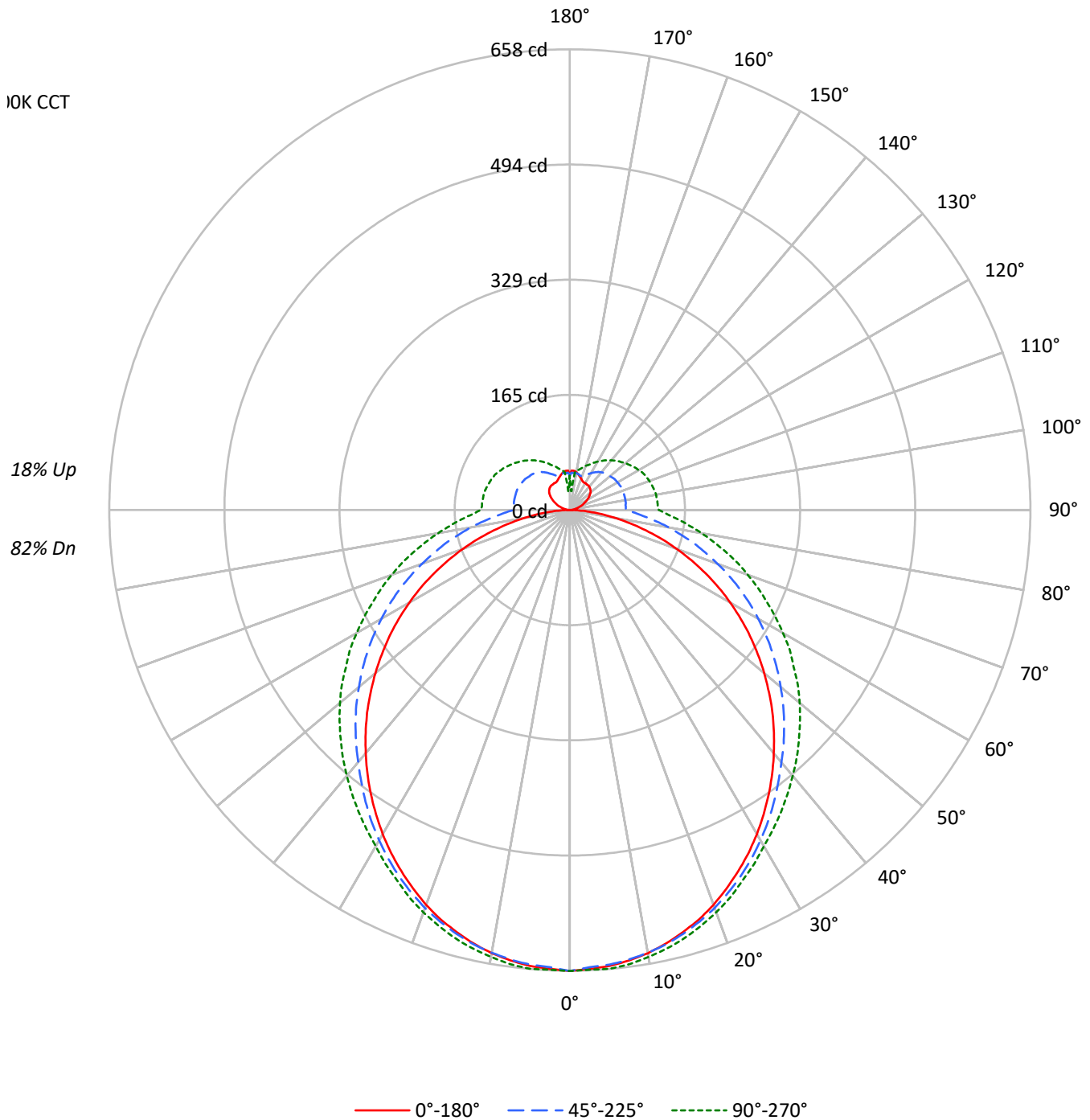
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2489.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 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_{in}): 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

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CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L935

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4685	4685	4685
5°	4647	4489	4483
10°	4601	4316	4270
15°	4534	4144	4066
20°	4459	3967	3860
25°	4364	3783	3650
30°	4262	3594	3460
35°	4151	3406	3303
40°	4034	3220	3152
45°	3915	3058	3010
50°	3778	2890	2871
55°	3630	2725	2715
60°	3452	2550	2568
65°	3239	2364	2402
70°	2963	2160	2247
75°	2585	1951	2079
80°	2088	1728	1907
85°	1445	1501	1750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3915 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	2.5
10°-20°	177.6	7.1
20°-30°	266.8	10.7
30°-40°	320.4	12.9
40°-50°	336.9	13.5
50°-60°	316.5	12.7
60°-70°	263.2	10.6
70°-80°	187.8	7.5
80°-90°	111.8	4.5
90°-100°	80.9	3.3
100°-110°	79.8	3.2
110°-120°	75.0	3.0
120°-130°	66.5	2.7
130°-140°	55.1	2.2
140°-150°	41.2	1.7
150°-160°	27.1	1.1
160°-170°	15.4	0.6
170°-180°	4.9	0.2
0°-30°	506.6	20.4
0°-40°	827.0	33.2
0°-60°	1480.3	59.5
0°-90°	2043.1	82.1
90°-120°	235.8	9.5
90°-150°	398.5	16.0
90°-180°	446.0	17.9
0°-180°	2489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	654	661	652	654	658	62
15°	624	634	626	631	633	176
25°	569	580	577	583	584	262
35°	495	507	509	521	526	310
45°	410	421	433	455	463	316
55°	314	327	353	382	390	281
65°	214	232	268	302	310	212
75°	112	138	183	219	230	119
85°	28	62	108	144	156	31
90°	0	36	80	115	127	2
95°	3	37	80	114	126	3
105°	11	42	81	112	123	12
115°	22	45	80	108	118	22
125°	34	48	78	101	109	30
135°	42	50	73	92	99	32
145°	44	49	66	82	87	28
155°	44	50	56	69	73	21
165°	51	54	52	53	61	14
175°	56	56	53	45	27	5
180°	49	49	49	49	49	



TEST NUMBER: P893406

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4
2.5°	656.0	657.8	658.4	664.4	662.0	664.4	660.2	655.4	654.2	657.2	653.6
5°	653.6	655.4	656.0	662.0	659.6	661.4	657.8	653.0	651.8	655.4	651.8
7.5°	648.8	650.6	651.2	657.8	654.8	657.2	653.0	648.2	647.6	651.2	647.6
10°	642.7	644.6	645.2	651.2	648.8	651.2	647.0	642.1	641.5	645.8	642.1
12.5°	634.3	636.1	637.3	643.4	640.3	643.4	638.5	633.7	634.3	637.9	635.5
15°	624.1	626.5	627.1	633.1	630.7	633.7	628.9	624.1	625.3	628.9	626.5
17.5°	613.3	615.7	616.3	621.7	619.3	622.9	617.5	613.3	614.5	618.1	616.3
20°	600.1	602.5	603.7	609.1	606.7	610.3	604.9	601.3	602.5	606.7	604.9
22.5°	585.0	588.6	589.2	595.3	592.2	595.9	590.4	587.4	589.2	593.4	591.6
25°	569.4	573.0	573.6	579.6	577.2	580.2	574.8	571.8	574.2	578.4	577.2
27.5°	552.6	556.2	557.4	562.8	560.4	564.0	558.0	556.2	558.6	562.8	561.6
30°	534.5	538.1	538.7	544.1	542.3	545.9	540.5	538.1	541.7	545.9	544.7
32.5°	515.3	518.9	520.7	525.5	523.7	526.7	521.9	520.7	523.7	527.9	527.3
35°	495.4	499.0	500.9	506.3	503.9	506.9	502.1	500.9	505.7	508.7	508.7
37.5°	475.0	478.6	480.4	485.8	482.8	486.4	481.6	481.0	486.4	489.4	489.4
40°	453.4	457.6	459.4	464.2	461.8	464.8	460.6	461.2	466.0	469.6	470.2
42.5°	431.7	435.9	437.7	443.1	440.1	443.1	439.5	440.1	445.5	449.1	452.1
45°	409.5	413.1	414.9	420.9	417.3	420.9	417.3	418.5	423.9	429.3	432.9
47.5°	386.0	389.6	392.6	397.4	394.4	397.4	395.0	396.8	403.4	408.9	413.7
50°	362.6	366.2	369.2	373.4	370.4	374.6	371.6	374.0	382.4	387.8	393.2
52.5°	338.5	341.5	346.3	348.7	346.3	351.1	348.7	352.3	360.8	367.4	373.4
55°	314.5	317.5	322.3	324.1	321.7	327.1	325.3	330.1	339.1	346.3	352.9
57.5°	289.8	292.8	297.0	298.8	297.0	303.0	302.4	307.8	316.9	324.7	331.9
60°	264.6	267.6	271.2	273.0	273.0	279.0	279.0	285.6	295.2	302.4	310.9
62.5°	239.9	241.7	245.3	247.7	249.5	255.5	255.5	262.8	273.0	281.4	289.8
65°	214.0	215.9	218.9	221.9	224.9	231.5	232.1	239.9	250.1	258.5	268.2
67.5°	188.2	190.0	193.0	196.6	200.8	207.4	208.6	217.1	227.9	237.5	246.5
70°	162.9	163.5	167.2	172.0	176.8	183.4	185.2	194.2	205.6	215.3	224.9
72.5°	137.7	138.3	141.9	147.9	153.3	160.5	162.9	172.6	184.0	193.6	203.2
75°	112.4	113.0	117.8	125.1	131.1	137.7	140.7	150.9	162.3	172.6	183.4
77.5°	88.4	89.6	94.4	101.6	108.8	116.6	119.7	129.9	142.5	152.1	162.3
80°	66.1	67.3	72.8	80.6	88.4	95.6	99.2	109.4	122.7	132.3	143.7
82.5°	45.7	47.5	54.1	62.5	70.3	78.2	81.8	91.4	103.4	114.2	125.1
85°	28.3	30.7	37.3	46.3	54.7	61.9	65.5	75.8	87.2	97.4	107.6
87.5°	13.2	16.8	23.4	32.5	41.5	47.5	51.7	61.9	72.8	83.0	93.2
90°	0.0	5.4	12.0	21.0	30.1	35.5	40.3	49.9	60.7	70.3	80.0
92.5°	1.2	6.0	13.2	21.6	30.7	36.1	40.9	50.5	60.7	70.3	80.0
95°	3.0	6.6	13.8	22.8	31.9	37.3	41.5	51.1	61.3	70.9	80.0
97.5°	5.4	8.4	15.6	24.1	33.1	37.9	42.7	52.3	61.9	71.6	80.6
100°	7.2	9.6	16.8	25.3	34.3	39.1	43.9	52.9	62.5	72.2	80.6
102.5°	9.0	12.0	18.6	26.5	35.5	40.3	44.5	53.5	63.1	72.2	80.6
105°	11.4	13.8	19.8	28.3	36.7	41.5	45.7	54.7	63.7	72.8	80.6
107.5°	13.8	15.6	21.6	29.5	37.9	42.1	46.3	55.3	64.3	72.8	80.6
110°	16.8	18.0	23.4	30.7	38.5	43.3	47.5	55.9	64.3	72.8	80.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	19.8	19.8	25.3	31.9	39.7	43.9	48.1	56.5	64.9	72.8	80.6
115°	22.2	22.8	27.1	33.1	40.9	45.1	48.7	56.5	64.9	72.8	80.0
117.5°	25.3	25.3	29.5	34.3	41.5	45.7	49.9	57.1	64.9	72.2	79.4
120°	28.3	27.7	31.3	36.1	42.7	46.3	50.5	57.7	64.9	72.2	78.8
122.5°	31.3	30.1	32.5	37.3	43.3	47.5	50.5	57.7	64.9	71.6	78.2
125°	33.7	32.5	34.3	39.1	44.5	48.1	51.1	57.7	64.9	70.9	77.6
127.5°	36.1	34.9	36.7	40.3	45.1	48.1	51.7	57.7	64.9	70.3	76.4
130°	38.5	36.7	39.1	41.5	46.3	48.7	51.7	57.7	64.3	69.7	75.2
132.5°	40.3	38.5	40.9	42.7	46.9	49.3	52.3	57.7	63.7	69.1	74.6
135°	41.5	39.7	42.7	43.9	48.1	50.5	52.9	57.7	63.1	68.5	73.4
137.5°	42.7	40.3	43.9	45.1	48.7	51.1	52.9	57.1	62.5	67.3	72.2
140°	43.3	41.5	45.1	46.3	48.1	50.5	52.9	56.5	61.3	66.1	70.3
142.5°	43.9	41.5	45.7	46.9	48.1	49.9	52.3	55.3	60.1	64.3	68.5
145°	43.9	42.1	45.7	46.9	48.1	49.3	51.1	54.7	58.3	61.9	66.1
147.5°	43.9	42.7	46.3	47.5	48.7	48.7	49.9	53.5	56.5	60.1	63.7
150°	44.5	42.7	46.3	47.5	49.3	49.3	49.9	51.7	55.3	57.7	60.7
152.5°	43.9	43.3	45.7	48.1	49.3	49.9	49.9	50.5	53.5	55.9	58.3
155°	44.5	44.5	46.3	49.3	49.9	49.9	50.5	49.9	51.1	53.5	55.9
157.5°	45.7	46.9	46.9	49.9	51.1	51.1	51.7	51.1	50.5	51.1	53.5
160°	47.5	48.7	48.7	50.5	52.3	52.3	52.9	52.3	51.7	51.1	51.1
162.5°	49.3	50.5	50.5	51.1	52.9	53.5	54.1	53.5	52.9	51.7	51.1
165°	51.1	52.3	52.3	52.3	53.5	54.1	54.7	54.1	54.1	52.9	52.3
167.5°	52.9	54.1	54.1	53.5	54.1	54.7	55.3	54.7	54.7	54.1	52.9
170°	54.7	55.9	55.9	54.7	55.3	55.3	55.9	55.3	55.3	54.1	53.5
172.5°	55.9	57.1	56.5	55.9	55.9	55.9	55.9	55.3	54.7	53.5	53.5
175°	56.5	57.7	57.7	56.5	55.9	55.9	56.5	55.3	54.7	54.1	52.9
177.5°	56.5	57.7	57.7	56.5	56.5	55.9	56.5	55.9	55.9	54.7	53.5
180°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4	658.4
2.5°	656.0	655.4	651.8	656.0	656.0	654.8	659.6	659.0	658.4	657.2
5°	653.6	653.0	649.4	653.6	653.6	653.0	657.8	658.4	659.0	657.8
7.5°	650.0	649.4	645.8	650.0	650.0	649.4	654.8	655.4	656.0	654.2
10°	644.6	644.0	640.3	644.6	645.2	644.6	648.8	649.4	650.6	648.2
12.5°	637.3	637.3	633.7	637.9	638.5	637.9	642.1	643.4	644.6	641.5
15°	628.3	628.9	625.9	630.1	630.7	630.7	634.9	635.5	637.3	633.1
17.5°	617.5	618.7	616.3	620.5	621.1	621.7	624.1	625.9	627.7	622.9
20°	606.1	606.7	604.9	608.5	609.7	609.1	612.1	614.5	616.3	611.5
22.5°	592.2	592.8	591.0	594.6	595.9	596.5	598.9	601.9	603.1	598.9
25°	576.6	579.0	577.8	581.4	582.6	582.6	585.0	588.0	589.8	583.8
27.5°	561.6	564.6	563.4	567.0	568.2	568.8	570.0	573.6	575.4	570.0
30°	544.7	548.4	547.8	551.4	552.6	552.0	554.4	558.0	560.4	554.4
32.5°	526.1	530.9	530.3	535.1	536.3	536.9	538.7	543.5	545.9	540.5
35°	508.1	513.5	514.1	519.5	521.3	521.9	524.3	529.1	531.5	526.1
37.5°	489.4	496.6	498.4	503.9	505.7	506.3	508.7	514.1	516.5	511.1
40°	471.4	479.8	482.2	487.0	488.8	490.6	492.4	497.8	500.9	495.4
42.5°	453.4	462.4	465.4	470.2	472.0	473.8	476.2	482.2	484.6	479.8
45°	434.7	444.3	447.9	452.8	455.2	457.0	459.4	464.8	467.8	463.0
47.5°	416.1	425.7	429.3	434.7	437.1	439.5	441.3	447.9	450.9	446.1
50°	396.2	407.1	411.3	416.1	419.7	421.5	423.9	429.9	432.9	428.7
52.5°	376.4	387.8	392.6	397.4	401.0	404.0	405.3	411.9	414.9	410.7
55°	355.9	367.4	372.8	378.2	381.8	385.4	386.6	393.2	396.2	390.2
57.5°	335.5	347.5	352.9	359.0	362.0	366.2	368.0	374.0	377.0	372.8
60°	315.1	326.5	333.1	338.5	342.7	346.3	347.5	354.1	357.2	351.7
62.5°	294.0	306.0	312.7	318.7	322.3	326.5	328.3	334.3	336.7	331.3
65°	272.4	284.4	291.6	297.0	301.8	305.4	306.6	313.3	315.7	310.3
67.5°	250.7	262.8	270.6	276.6	280.8	285.0	286.2	292.8	295.2	291.0
70°	229.7	241.7	249.5	256.7	259.7	264.0	265.8	271.8	274.2	270.6
72.5°	208.6	220.7	229.1	236.3	239.3	243.5	245.9	250.7	254.3	251.3
75°	188.2	200.2	208.6	215.9	218.9	223.1	225.5	230.3	232.7	230.3
77.5°	168.4	180.4	188.2	195.4	199.0	202.6	205.0	209.8	212.8	210.4
80°	149.1	161.1	169.0	175.6	179.2	182.8	185.2	190.6	193.0	191.2
82.5°	131.1	142.5	150.9	157.5	161.1	164.7	167.2	172.0	175.0	172.6
85°	114.8	126.3	134.1	140.7	143.7	147.3	149.7	154.5	156.9	155.7
87.5°	99.2	109.4	118.4	125.1	128.1	131.7	134.7	138.3	141.3	139.5
90°	87.2	96.2	104.6	111.2	114.8	118.4	122.1	125.7	128.1	126.9
92.5°	87.8	96.2	104.0	110.0	113.6	117.2	120.9	125.1	126.9	125.7
95°	87.8	96.2	104.0	110.0	113.6	117.2	120.9	125.1	126.9	125.7
97.5°	87.8	96.2	104.0	110.0	113.6	117.2	120.9	125.1	126.9	125.1
100°	87.8	96.2	104.0	110.0	113.6	116.6	120.3	124.5	126.3	125.1
102.5°	87.8	96.2	103.4	109.4	113.0	116.0	119.7	123.9	125.7	124.5
105°	87.8	95.6	103.4	108.8	112.4	115.4	119.1	122.7	124.5	123.3
107.5°	87.2	95.0	102.2	108.2	111.2	114.2	117.8	121.5	123.3	122.1
110°	87.2	94.4	101.6	107.0	110.0	113.0	116.6	120.3	122.1	120.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	86.6	93.8	101.0	105.8	108.8	111.8	114.8	119.1	120.9	119.7
115°	86.0	93.2	99.8	104.6	107.6	110.0	113.6	117.8	119.1	118.4
117.5°	85.4	92.0	98.6	103.4	106.4	108.8	111.8	115.4	117.2	116.6
120°	84.8	90.8	97.4	101.6	104.6	107.0	109.4	113.0	114.8	113.6
122.5°	83.6	89.6	96.2	100.4	102.8	105.2	107.6	110.6	112.4	111.8
125°	82.4	88.4	94.4	98.6	101.0	102.8	105.2	108.2	109.4	108.8
127.5°	81.2	87.2	92.6	96.2	99.2	101.0	102.8	105.8	107.0	106.4
130°	80.0	85.4	90.8	94.4	96.8	98.6	100.4	103.4	104.0	104.0
132.5°	78.8	83.6	89.0	92.6	95.0	96.2	98.0	100.4	101.6	101.0
135°	77.6	81.8	87.2	90.2	92.0	93.8	95.6	98.0	98.6	98.6
137.5°	75.8	80.0	84.8	87.8	89.6	90.8	92.6	95.0	95.6	95.6
140°	74.0	78.2	82.4	84.8	87.2	88.4	89.6	92.0	92.6	92.6
142.5°	72.2	75.8	80.0	82.4	84.8	85.4	87.2	89.0	89.6	89.6
145°	69.7	74.0	77.6	80.0	81.8	82.4	84.2	86.0	86.0	86.6
147.5°	66.7	70.3	75.2	77.0	78.8	79.4	81.2	82.4	83.0	83.0
150°	63.7	67.3	71.6	74.6	76.4	77.0	77.6	79.4	79.4	80.0
152.5°	60.7	63.7	67.9	70.9	73.4	74.0	74.6	75.8	75.8	76.4
155°	57.7	60.1	63.7	66.7	69.1	70.3	71.6	72.8	72.8	73.4
157.5°	55.3	57.7	60.7	63.1	64.9	66.7	68.5	69.7	69.7	69.7
160°	52.3	54.1	57.1	58.9	61.3	62.5	65.5	66.7	66.7	67.3
162.5°	50.5	51.1	52.9	54.7	56.5	57.7	60.7	63.7	63.7	64.3
165°	51.1	50.5	51.1	51.7	52.9	53.5	55.3	59.5	60.7	61.3
167.5°	52.3	50.5	50.5	50.5	51.7	51.7	53.5	55.9	60.1	58.9
170°	52.3	50.5	49.3	49.3	49.9	49.3	50.5	52.3	54.7	57.1
172.5°	52.9	51.1	49.3	46.9	47.5	46.9	45.7	45.7	46.3	54.1
175°	52.3	51.1	48.7	45.7	45.1	43.3	39.7	36.7	34.9	27.1
177.5°	51.7	49.9	48.1	45.7	44.5	42.7	38.5	33.7	28.9	27.7
180°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3



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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	13.05	14.37	13.66	15.00	15.72	15.60	16.92	16.22	17.55	18.27
	3H	14.45	15.65	15.08	16.30	17.05	18.03	19.23	18.66	19.87	20.63
	4H	14.88	16.02	15.53	16.67	17.44	19.17	20.31	19.82	20.96	21.73
	6H	15.12	16.18	15.78	16.84	17.63	20.31	21.36	20.97	22.03	22.81
	8H	15.16	16.17	15.83	16.86	17.65	20.86	21.88	21.54	22.56	23.35
	12H	15.17	16.14	15.85	16.82	17.64	21.45	22.42	22.13	23.10	23.91
4H	2H	13.94	15.07	14.59	15.73	16.50	15.95	17.09	16.60	17.74	18.51
	3H	15.56	16.53	16.22	17.22	18.01	18.58	19.55	19.24	20.24	21.03
	4H	16.12	17.00	16.80	17.70	18.52	19.87	20.76	20.55	21.45	22.27
	6H	16.46	17.23	17.15	17.96	18.78	21.18	21.96	21.88	22.68	23.51
	8H	16.53	17.26	17.24	17.98	18.82	21.84	22.57	22.54	23.29	24.13
	12H	16.56	17.23	17.29	17.97	18.82	22.54	23.20	23.26	23.95	24.79
8H	4H	16.77	17.50	17.47	18.22	19.06	20.02	20.75	20.73	21.47	22.31
	6H	17.27	17.89	18.00	18.65	19.49	21.48	22.10	22.21	22.86	23.70
	8H	17.43	17.98	18.17	18.74	19.60	22.26	22.81	23.00	23.57	24.43
	12H	17.52	18.01	18.26	18.76	19.68	23.12	23.61	23.87	24.37	25.28
12H	4H	16.93	17.59	17.65	18.34	19.18	20.01	20.68	20.74	21.42	22.27
	6H	17.53	18.08	18.27	18.85	19.70	21.50	22.05	22.24	22.81	23.67
	8H	17.76	18.26	18.51	19.01	19.93	22.33	22.82	23.08	23.57	24.49