

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: P893442

Luminaire Tested: 4MB-3SL-RND-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-3SL-RND-UNV-L835
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

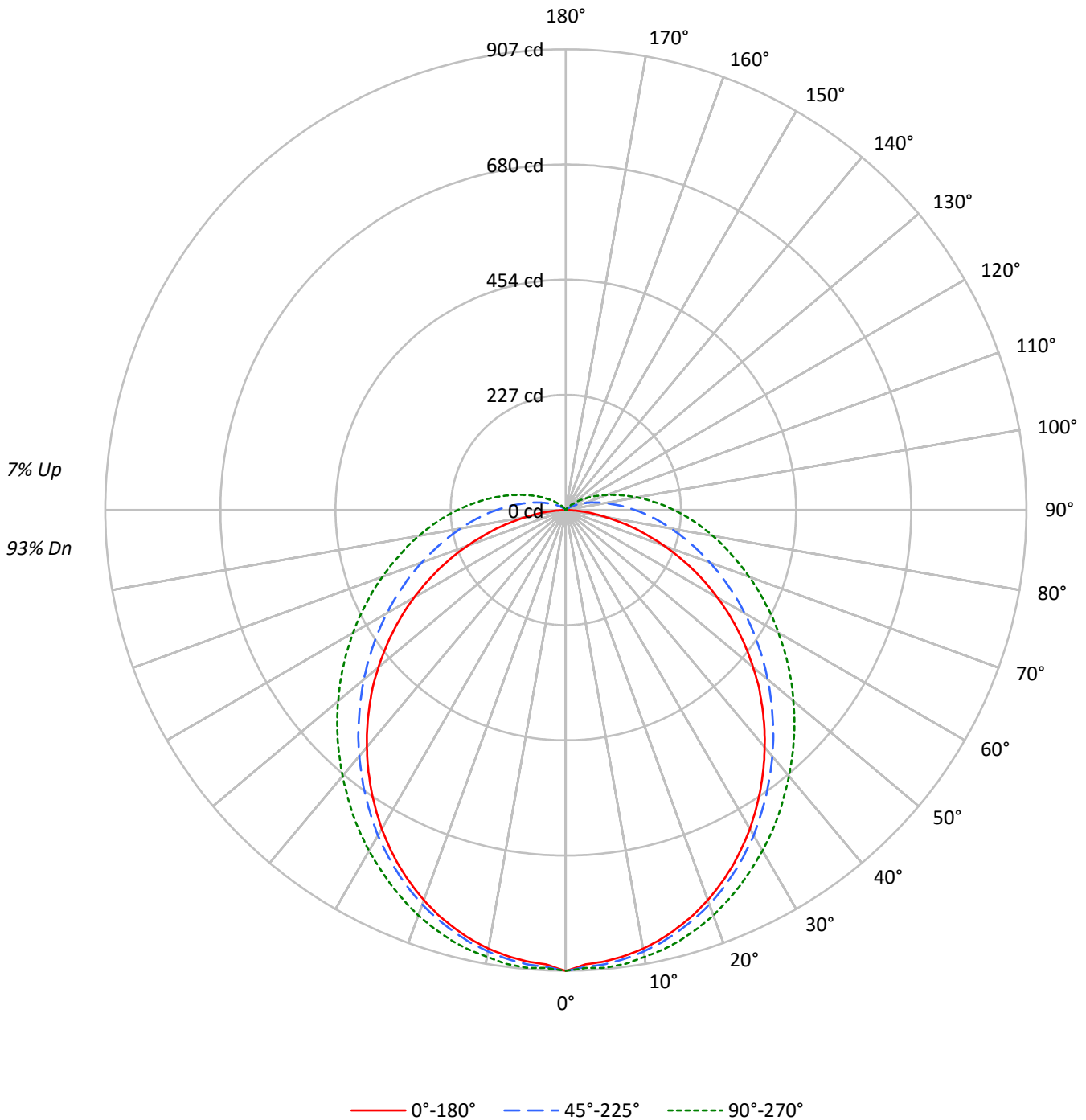
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3004.0 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: 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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76	76	76	76	74
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	43
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24	24	24	24	23
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6456	6456	6456
5°	6369	6410	6461
10°	6335	6377	6453
15°	6271	6323	6454
20°	6188	6258	6430
25°	6082	6171	6393
30°	5956	6079	6365
35°	5810	5970	6352
40°	5658	5876	6351
45°	5501	5794	6394
50°	5329	5745	6476
55°	5136	5733	6633
60°	4911	5790	6880
65°	4638	5941	7291
70°	4298	6278	7990
75°	3884	6988	9272
80°	3286	8613	12046
85°	2669	14025	20637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 37990 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	2.9
10°-20°	244.5	8.1
20°-30°	366.1	12.2
30°-40°	436.5	14.5
40°-50°	452.8	15.1
50°-60°	420.0	14.0
60°-70°	350.4	11.7
70°-80°	261.3	8.7
80°-90°	174.0	5.8
90°-100°	105.9	3.5
100°-110°	59.1	2.0
110°-120°	29.5	1.0
120°-130°	12.3	0.4
130°-140°	3.9	0.1
140°-150°	1.0	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	696.5	23.2
0°-40°	1133.0	37.7
0°-60°	2005.8	66.8
0°-90°	2791.4	92.9
90°-120°	194.6	6.5
90°-150°	211.8	7.0
90°-180°	213.0	7.1
0°-180°	3004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	892	912	898	902	905	85
15°	851	873	858	874	876	240
25°	775	795	786	808	814	357
35°	669	687	687	721	731	418
45°	547	561	576	621	636	422
55°	414	428	462	516	535	370
65°	276	298	353	412	433	273
75°	141	180	254	316	337	149
85°	33	90	172	231	253	37
90°	1	59	136	192	213	2
95°	0	36	105	158	176	0
105°	0	11	58	97	112	0
115°	1	3	27	55	65	1
125°	1	1	11	26	33	1
135°	1	1	3	9	12	1
145°	1	1	1	2	3	0
155°	1	1	1	1	1	1
165°	1	1	1	1	1	0
175°	1	1	1	1	0	0
180°	1	1	1	1	1	



TEST NUMBER: P893442

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4
2.5°	895.4	896.8	909.6	908.8	906.7	915.2	917.4	910.3	898.9	910.3	900.3
5°	891.8	893.2	906.0	905.3	903.2	912.4	913.1	906.7	895.4	906.7	897.5
7.5°	885.4	886.8	899.6	898.9	897.5	906.7	906.0	901.0	889.0	901.0	891.1
10°	876.9	877.6	891.1	889.7	889.0	898.2	896.1	891.8	879.7	891.8	882.6
12.5°	865.5	866.2	879.7	878.3	878.3	886.8	884.0	880.4	868.4	879.7	871.9
15°	851.3	852.0	864.8	864.1	864.1	873.3	869.1	866.2	854.9	867.0	858.4
17.5°	835.7	835.0	848.5	847.1	848.5	857.0	851.3	849.9	839.3	850.6	843.5
20°	817.3	817.3	829.3	828.6	830.7	838.6	831.5	832.2	821.5	833.6	826.5
22.5°	796.7	796.0	808.0	808.0	810.2	818.0	810.2	812.3	801.6	813.0	807.3
25°	774.7	773.2	785.3	785.3	788.9	795.2	786.7	789.6	779.6	791.0	786.0
27.5°	750.5	748.4	760.5	761.2	764.0	770.4	761.2	765.4	756.2	766.8	763.3
30°	724.9	722.8	734.9	735.6	739.2	744.1	734.9	740.6	732.1	742.7	739.9
32.5°	697.3	695.8	707.2	708.6	712.2	715.7	707.2	712.9	705.8	716.4	713.6
35°	668.9	667.4	678.1	680.2	683.8	686.6	677.4	685.2	678.8	688.7	687.3
37.5°	639.7	637.6	649.0	650.4	654.7	656.1	647.6	656.8	651.1	661.0	660.3
40°	609.2	607.1	618.4	619.9	624.1	624.1	617.0	627.0	622.7	631.9	632.6
42.5°	578.7	576.6	586.5	589.3	592.9	592.9	585.8	596.4	593.6	602.8	605.0
45°	546.7	544.6	553.8	556.7	560.9	560.9	553.8	565.9	563.8	573.0	575.8
47.5°	515.5	512.6	521.2	524.0	528.3	527.6	521.9	533.9	533.2	542.5	547.4
50°	481.4	479.3	487.8	490.6	495.6	494.2	489.9	502.7	502.7	511.9	519.0
52.5°	448.0	445.9	454.4	457.3	461.5	461.5	457.3	470.8	472.9	482.1	490.6
55°	414.0	411.1	419.6	422.5	427.4	428.2	424.6	438.1	442.4	453.0	462.2
57.5°	379.9	378.5	385.6	388.4	394.8	394.8	392.7	406.9	412.5	423.9	434.5
60°	345.1	343.7	350.0	353.6	360.7	362.1	360.7	375.6	383.4	394.8	406.9
62.5°	310.3	308.9	315.3	320.2	328.0	329.5	330.2	345.8	354.3	366.4	379.9
65°	275.5	274.1	280.5	286.1	295.4	297.5	299.6	316.0	325.9	338.7	352.9
67.5°	240.7	240.0	246.4	253.5	263.4	266.3	269.8	286.9	298.2	311.7	327.3
70°	206.6	205.9	212.3	220.8	232.9	236.4	240.7	257.7	271.9	286.1	301.8
72.5°	172.5	173.2	180.3	190.3	203.8	207.3	213.0	230.8	246.4	261.3	277.6
75°	141.3	141.3	149.1	160.5	175.4	180.3	186.7	205.2	221.5	237.2	254.2
77.5°	109.3	109.3	118.6	132.8	149.1	154.1	161.9	181.1	198.8	214.4	231.5
80°	80.2	81.7	92.3	106.5	123.5	129.9	139.2	158.3	177.5	193.1	210.2
82.5°	54.7	56.8	68.2	84.5	101.5	107.9	117.2	137.7	156.9	173.2	191.0
85°	32.7	36.2	48.3	64.6	82.4	89.5	99.4	118.6	137.7	154.1	171.8
87.5°	14.9	19.9	32.7	49.0	66.0	73.8	82.4	100.8	120.0	136.3	154.8
90°	1.4	8.5	21.3	35.5	51.8	58.9	67.5	85.2	103.7	118.6	136.3
92.5°	0.0	3.6	12.8	25.6	39.8	46.9	54.7	71.7	88.0	103.0	120.0
95°	0.0	1.4	7.1	17.8	29.8	36.2	43.3	58.9	75.3	89.5	105.1
97.5°	0.0	0.7	4.3	12.1	22.0	27.7	34.1	48.3	63.2	76.7	90.9
100°	0.0	0.7	2.1	7.8	16.3	20.6	27.0	39.1	52.5	64.6	78.8
102.5°	0.0	0.0	1.4	5.0	12.1	15.6	20.6	31.2	43.3	54.7	67.5
105°	0.0	0.0	0.7	3.6	8.5	11.4	15.6	24.9	35.5	45.4	57.5
107.5°	0.0	0.0	0.7	2.1	5.7	8.5	12.1	19.2	28.4	37.6	48.3
110°	0.7	0.7	0.7	1.4	4.3	6.4	8.5	14.9	23.4	31.2	40.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.7	0.7	0.7	0.7	2.8	4.3	6.4	11.4	18.5	24.9	33.4
115°	0.7	0.7	0.7	0.7	2.1	2.8	4.3	8.5	14.2	19.9	27.0
117.5°	0.7	0.7	0.7	0.7	1.4	2.1	2.8	6.4	10.7	15.6	22.0
120°	0.7	0.7	0.7	0.7	0.7	1.4	2.1	4.3	8.5	12.1	17.8
122.5°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	3.6	6.4	9.2	13.5
125°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	4.3	7.1	10.7
127.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8	5.0	7.8
130°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	3.6	5.7
132.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8	4.3
135°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8
137.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1
140°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
142.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
145°	0.7	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147.5°	0.7	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
150°	0.7	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
152.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7
155°	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7
157.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7
160°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7
162.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7
165°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7
167.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7
170°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
172.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7
175°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
177.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4	907.4
2.5°	903.2	905.3	907.4	901.7	905.3	911.7	913.8	905.3	908.1	902.5
5°	900.3	901.7	904.6	897.5	902.5	908.1	911.7	904.6	908.8	904.6
7.5°	894.6	896.1	899.6	892.5	898.9	903.9	908.1	901.0	905.3	901.0
10°	886.1	888.3	893.2	884.7	892.5	896.8	901.0	893.2	897.5	893.2
12.5°	875.5	879.0	883.3	875.5	883.3	886.8	892.5	884.7	889.7	886.1
15°	862.7	866.2	871.9	864.1	874.1	876.9	882.6	874.8	879.7	876.2
17.5°	847.8	852.0	859.1	849.9	861.3	863.4	869.1	862.0	867.0	863.4
20°	830.7	835.0	842.1	833.6	844.9	846.4	852.8	846.4	851.3	849.2
22.5°	810.9	815.8	822.9	815.1	827.2	827.2	835.0	828.6	834.3	832.2
25°	790.3	796.0	803.8	795.2	808.0	808.0	816.5	810.2	815.8	814.4
27.5°	768.3	774.7	783.9	775.4	788.1	787.4	796.0	790.3	796.7	794.5
30°	744.8	751.9	761.2	754.1	767.6	766.1	774.7	769.7	775.4	774.7
32.5°	719.3	727.1	738.4	730.6	744.1	742.7	753.4	747.7	754.8	753.4
35°	693.7	702.2	713.6	706.5	721.4	719.3	729.9	724.9	732.1	731.3
37.5°	667.4	676.7	688.0	682.3	696.5	694.4	705.8	701.5	709.3	707.2
40°	640.5	649.7	661.8	656.8	671.7	668.9	680.9	677.4	685.2	683.8
42.5°	613.5	623.4	635.5	632.6	646.8	644.0	656.1	653.2	661.0	659.6
45°	585.8	596.4	609.2	606.4	621.3	618.4	630.5	628.4	636.2	635.5
47.5°	558.1	569.5	582.2	580.8	595.0	592.2	605.0	602.8	610.6	610.6
50°	529.7	542.5	555.3	554.5	568.7	565.9	577.3	577.3	585.8	585.1
52.5°	501.3	514.8	528.3	528.3	542.5	539.6	552.4	551.7	560.2	560.2
55°	474.3	486.4	499.9	502.7	516.2	511.9	525.4	526.8	533.9	534.7
57.5°	447.3	460.1	473.6	477.1	489.9	487.1	499.9	501.3	508.4	509.1
60°	420.3	432.4	445.9	450.9	463.7	460.8	473.6	475.0	482.8	483.5
62.5°	393.4	405.4	420.3	425.3	437.4	435.3	448.7	450.2	457.3	458.7
65°	367.1	379.9	394.1	401.2	412.5	409.7	423.2	424.6	432.4	433.1
67.5°	341.5	354.3	368.5	376.3	387.0	385.6	398.3	401.2	407.6	409.0
70°	316.7	329.5	344.4	352.2	362.8	362.1	374.2	376.3	383.4	384.1
72.5°	292.5	305.3	320.2	329.5	338.7	338.0	350.0	352.9	360.0	360.7
75°	269.1	282.6	296.8	306.7	316.0	315.3	327.3	330.2	336.6	337.3
77.5°	247.1	260.6	275.5	285.4	293.2	294.0	304.6	307.4	313.8	316.0
80°	226.5	239.3	253.5	264.1	271.2	272.7	282.6	286.1	291.1	294.0
82.5°	206.6	219.4	233.6	243.5	250.6	252.1	261.3	265.6	270.5	272.7
85°	187.5	200.2	213.7	224.4	230.8	231.5	240.7	245.0	249.2	252.8
87.5°	169.0	181.8	194.6	205.9	211.6	213.0	221.5	225.8	229.3	232.9
90°	150.5	163.3	176.1	186.7	192.4	193.1	202.4	206.6	210.2	213.0
92.5°	133.5	146.3	159.0	169.7	174.7	176.1	183.9	188.9	191.7	194.6
95°	117.2	129.9	141.3	152.7	157.6	159.8	166.9	171.1	174.7	176.1
97.5°	103.0	114.3	125.0	136.3	140.6	142.7	149.8	154.8	157.6	159.0
100°	89.5	100.1	110.1	120.7	125.0	127.1	133.5	137.7	140.6	142.7
102.5°	77.4	87.3	96.6	106.5	110.8	112.2	117.9	122.1	125.0	127.1
105°	66.7	76.0	84.5	93.7	97.3	99.4	104.4	107.9	110.8	112.2
107.5°	56.8	66.0	73.1	81.7	85.2	86.6	91.6	95.9	98.0	98.7
110°	48.3	56.1	63.2	70.3	74.6	76.0	80.2	83.8	85.9	86.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	40.5	47.6	54.0	60.4	63.9	65.3	69.6	73.1	74.6	75.3
115°	33.4	40.5	45.4	51.8	54.7	56.1	59.6	63.2	63.9	65.3
117.5°	27.0	33.4	38.3	43.3	46.2	47.6	50.4	53.3	54.7	55.4
120°	22.0	27.0	31.2	36.2	38.3	39.8	42.6	45.4	46.2	46.9
122.5°	17.8	22.0	25.6	29.8	32.0	33.4	35.5	37.6	38.3	39.1
125°	13.5	17.8	20.6	24.1	26.3	27.0	29.1	31.2	32.0	32.7
127.5°	10.7	13.5	16.3	19.2	20.6	21.3	23.4	24.9	25.6	26.3
130°	7.8	9.9	12.1	14.9	16.3	17.0	18.5	19.9	20.6	20.6
132.5°	5.7	7.8	9.2	11.4	12.1	12.8	14.2	15.6	15.6	16.3
135°	3.6	5.0	6.4	7.8	9.2	9.2	10.7	11.4	12.1	12.1
137.5°	2.8	3.6	4.3	5.7	6.4	7.1	7.1	8.5	8.5	8.5
140°	2.1	2.8	2.8	3.6	4.3	5.0	5.0	5.7	5.7	5.7
142.5°	1.4	2.1	2.1	2.8	2.8	3.6	3.6	3.6	4.3	4.3
145°	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.8	2.8	2.8
147.5°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1
150°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
155°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
157.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
160°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
162.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
165°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
167.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
170°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
172.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
175°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
177.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4



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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	16.77	18.30	17.24	18.76	19.25	18.34	19.87	18.81	20.33	20.82
	3H	18.44	19.85	18.93	20.31	20.84	20.96	22.37	21.45	22.83	23.36
	4H	19.04	20.37	19.55	20.86	21.40	22.28	23.61	22.78	24.09	24.63
	6H	19.44	20.68	19.96	21.18	21.73	23.68	24.92	24.20	25.42	25.97
	8H	19.56	20.75	20.09	21.27	21.83	24.43	25.62	24.96	26.14	26.70
	12H	19.63	20.77	20.17	21.29	21.88	25.28	26.42	25.82	26.94	27.53
4H	2H	17.70	19.03	18.20	19.51	20.05	18.89	20.22	19.40	20.71	21.25
	3H	19.67	20.81	20.19	21.34	21.90	21.81	22.94	22.32	23.47	24.03
	4H	20.45	21.49	20.99	22.03	22.62	23.33	24.37	23.87	24.91	25.51
	6H	21.03	21.95	21.59	22.51	23.12	24.97	25.89	25.53	26.46	27.07
	8H	21.21	22.08	21.77	22.64	23.27	25.86	26.72	26.42	27.29	27.91
	12H	21.34	22.12	21.92	22.72	23.34	26.86	27.65	27.44	28.24	28.87
8H	4H	21.33	22.20	21.89	22.76	23.38	23.69	24.56	24.25	25.12	25.74
	6H	22.21	22.95	22.80	23.55	24.18	25.59	26.33	26.19	26.94	27.56
	8H	22.56	23.22	23.16	23.84	24.48	26.68	27.34	27.28	27.96	28.60
	12H	22.83	23.42	23.44	24.03	24.74	27.94	28.54	28.55	29.14	29.85
12H	4H	21.61	22.39	22.19	22.99	23.61	23.73	24.52	24.32	25.11	25.74
	6H	22.66	23.33	23.27	23.94	24.58	25.70	26.37	26.31	26.99	27.63
	8H	23.18	23.77	23.79	24.38	25.08	26.90	27.49	27.51	28.10	28.81