

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: P893289

Luminaire Tested: 4MB-2SL-FLTU-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893289
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-2SL-FLTU-UNV-L830
Description: 2000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 300
Light Source: -
Ballast/Driver: -

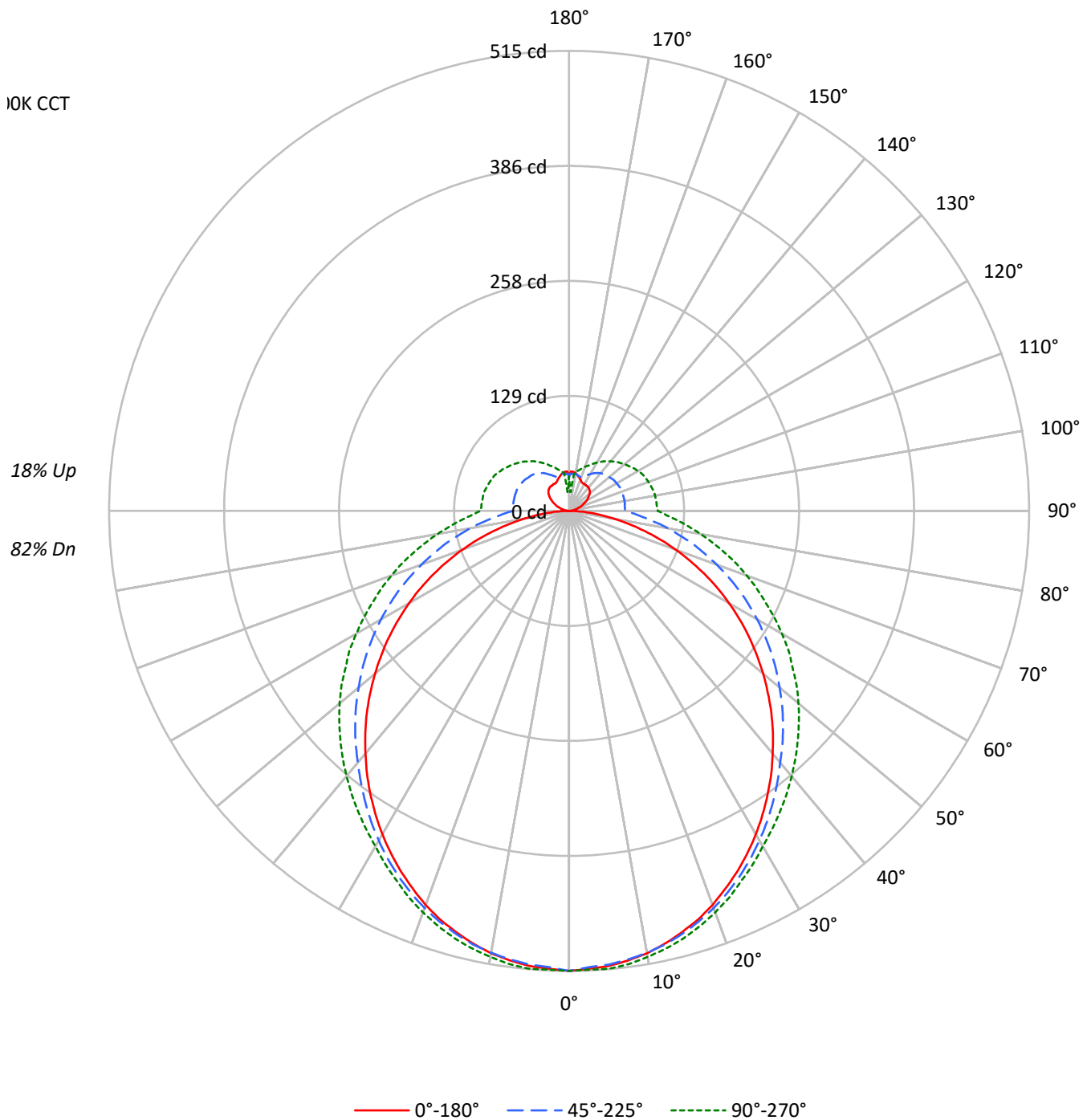
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1947.0 lumens
Efficiency: N/A
Efficacy: 141.1 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): 13.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.92
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				
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°	3664	3664	3664
5°	3635	3511	3507
10°	3599	3376	3340
15°	3546	3241	3181
20°	3488	3103	3019
25°	3413	2959	2856
30°	3334	2812	2706
35°	3248	2664	2583
40°	3155	2519	2466
45°	3063	2392	2354
50°	2955	2261	2245
55°	2839	2132	2124
60°	2699	1994	2008
65°	2534	1849	1879
70°	2319	1689	1757
75°	2024	1527	1626
80°	1633	1352	1492
85°	1129	1175	1369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3063 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	2.5
10°-20°	138.9	7.1
20°-30°	208.7	10.7
30°-40°	250.6	12.9
40°-50°	263.5	13.5
50°-60°	247.6	12.7
60°-70°	205.9	10.6
70°-80°	146.9	7.5
80°-90°	87.4	4.5
90°-100°	63.3	3.3
100°-110°	62.5	3.2
110°-120°	58.7	3.0
120°-130°	52.0	2.7
130°-140°	43.1	2.2
140°-150°	32.2	1.7
150°-160°	21.2	1.1
160°-170°	12.0	0.6
170°-180°	3.8	0.2
0°-30°	396.3	20.4
0°-40°	646.9	33.2
0°-60°	1158.0	59.5
0°-90°	1598.2	82.1
90°-120°	184.4	9.5
90°-150°	311.7	16.0
90°-180°	349.0	17.9
0°-180°	1947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	515	515	515	515	515	
5°	511	517	510	511	514	49
15°	488	496	490	493	495	138
25°	445	454	452	456	457	205
35°	388	396	398	408	412	242
45°	320	329	339	356	362	247
55°	246	256	276	299	305	220
65°	167	181	210	236	243	166
75°	88	108	144	171	180	93
85°	22	48	84	112	122	24
90°	0	28	63	90	99	2
95°	2	29	63	89	98	3
105°	9	32	63	88	96	10
115°	17	35	63	84	93	17
125°	26	38	61	79	85	24
135°	32	40	57	72	77	25
145°	34	39	52	64	68	22
155°	35	39	44	54	57	16
165°	40	42	41	41	48	11
175°	44	44	41	35	21	4
180°	39	39	39	39	39	



TEST NUMBER: P893289
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
2.5°	513.1	514.5	515.0	519.7	517.8	519.7	516.4	512.7	511.7	514.1	511.3
5°	511.3	512.7	513.1	517.8	516.0	517.4	514.5	510.8	509.8	512.7	509.8
7.5°	507.5	508.9	509.4	514.5	512.2	514.1	510.8	507.0	506.5	509.4	506.5
10°	502.8	504.2	504.7	509.4	507.5	509.4	506.1	502.3	501.8	505.1	502.3
12.5°	496.2	497.6	498.6	503.3	500.9	503.3	499.5	495.7	496.2	499.0	497.1
15°	488.2	490.1	490.6	495.3	493.4	495.7	492.0	488.2	489.1	492.0	490.1
17.5°	479.7	481.6	482.1	486.3	484.4	487.3	483.0	479.7	480.7	483.5	482.1
20°	469.4	471.3	472.2	476.4	474.6	477.4	473.2	470.3	471.3	474.6	473.2
22.5°	457.6	460.5	460.9	465.6	463.3	466.1	461.9	459.5	460.9	464.2	462.8
25°	445.4	448.2	448.7	453.4	451.5	453.9	449.6	447.3	449.2	452.5	451.5
27.5°	432.2	435.1	436.0	440.2	438.4	441.2	436.5	435.1	436.9	440.2	439.3
30°	418.1	420.9	421.4	425.7	424.2	427.1	422.8	420.9	423.8	427.1	426.1
32.5°	403.1	405.9	407.3	411.1	409.7	412.0	408.2	407.3	409.7	413.0	412.5
35°	387.6	390.4	391.8	396.0	394.1	396.5	392.7	391.8	395.5	397.9	397.9
37.5°	371.6	374.4	375.8	380.0	377.7	380.5	376.7	376.3	380.5	382.9	382.9
40°	354.6	357.9	359.3	363.1	361.2	363.6	360.3	360.7	364.5	367.3	367.8
42.5°	337.7	341.0	342.4	346.6	344.3	346.6	343.8	344.3	348.5	351.3	353.7
45°	320.3	323.1	324.5	329.2	326.4	329.2	326.4	327.4	331.6	335.8	338.6
47.5°	302.0	304.8	307.1	310.9	308.5	310.9	309.0	310.4	315.6	319.8	323.6
50°	283.6	286.4	288.8	292.1	289.7	293.0	290.7	292.5	299.1	303.4	307.6
52.5°	264.8	267.1	270.9	272.8	270.9	274.7	272.8	275.6	282.2	287.4	292.1
55°	246.0	248.3	252.1	253.5	251.6	255.9	254.5	258.2	265.3	270.9	276.1
57.5°	226.7	229.1	232.3	233.8	232.3	237.0	236.6	240.8	247.9	254.0	259.6
60°	206.9	209.3	212.1	213.5	213.5	218.2	218.2	223.4	230.9	236.6	243.2
62.5°	187.7	189.1	191.9	193.8	195.2	199.9	199.9	205.5	213.5	220.1	226.7
65°	167.4	168.8	171.2	173.6	175.9	181.1	181.5	187.7	195.7	202.2	209.8
67.5°	147.2	148.6	151.0	153.8	157.1	162.3	163.2	169.8	178.3	185.8	192.8
70°	127.5	127.9	130.8	134.5	138.3	143.5	144.9	151.9	160.9	168.4	175.9
72.5°	107.7	108.2	111.0	115.7	119.9	125.6	127.5	135.0	143.9	151.4	159.0
75°	88.0	88.4	92.2	97.8	102.5	107.7	110.1	118.1	127.0	135.0	143.5
77.5°	69.1	70.1	73.8	79.5	85.1	91.2	93.6	101.6	111.5	119.0	127.0
80°	51.7	52.7	56.9	63.0	69.1	74.8	77.6	85.6	95.9	103.5	112.4
82.5°	35.7	37.2	42.3	48.9	55.0	61.1	64.0	71.5	80.9	89.4	97.8
85°	22.1	24.0	29.2	36.2	42.8	48.4	51.3	59.3	68.2	76.2	84.2
87.5°	10.3	13.2	18.3	25.4	32.5	37.2	40.4	48.4	56.9	64.9	72.9
90°	0.0	4.2	9.4	16.5	23.5	27.7	31.5	39.0	47.5	55.0	62.6
92.5°	0.9	4.7	10.3	16.9	24.0	28.2	32.0	39.5	47.5	55.0	62.6
95°	2.4	5.2	10.8	17.9	24.9	29.2	32.5	40.0	48.0	55.5	62.6
97.5°	4.2	6.6	12.2	18.8	25.9	29.6	33.4	40.9	48.4	56.0	63.0
100°	5.6	7.5	13.2	19.8	26.8	30.6	34.3	41.4	48.9	56.4	63.0
102.5°	7.1	9.4	14.6	20.7	27.7	31.5	34.8	41.9	49.4	56.4	63.0
105°	8.9	10.8	15.5	22.1	28.7	32.5	35.7	42.8	49.9	56.9	63.0
107.5°	10.8	12.2	16.9	23.0	29.6	32.9	36.2	43.3	50.3	56.9	63.0
110°	13.2	14.1	18.3	24.0	30.1	33.9	37.2	43.7	50.3	56.9	63.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	15.5	15.5	19.8	24.9	31.0	34.3	37.6	44.2	50.8	56.9	63.0
115°	17.4	17.9	21.2	25.9	32.0	35.3	38.1	44.2	50.8	56.9	62.6
117.5°	19.8	19.8	23.0	26.8	32.5	35.7	39.0	44.7	50.8	56.4	62.1
120°	22.1	21.6	24.5	28.2	33.4	36.2	39.5	45.2	50.8	56.4	61.6
122.5°	24.5	23.5	25.4	29.2	33.9	37.2	39.5	45.2	50.8	56.0	61.1
125°	26.3	25.4	26.8	30.6	34.8	37.6	40.0	45.2	50.8	55.5	60.7
127.5°	28.2	27.3	28.7	31.5	35.3	37.6	40.4	45.2	50.8	55.0	59.7
130°	30.1	28.7	30.6	32.5	36.2	38.1	40.4	45.2	50.3	54.6	58.8
132.5°	31.5	30.1	32.0	33.4	36.7	38.6	40.9	45.2	49.9	54.1	58.3
135°	32.5	31.0	33.4	34.3	37.6	39.5	41.4	45.2	49.4	53.6	57.4
137.5°	33.4	31.5	34.3	35.3	38.1	40.0	41.4	44.7	48.9	52.7	56.4
140°	33.9	32.5	35.3	36.2	37.6	39.5	41.4	44.2	48.0	51.7	55.0
142.5°	34.3	32.5	35.7	36.7	37.6	39.0	40.9	43.3	47.0	50.3	53.6
145°	34.3	32.9	35.7	36.7	37.6	38.6	40.0	42.8	45.6	48.4	51.7
147.5°	34.3	33.4	36.2	37.2	38.1	38.1	39.0	41.9	44.2	47.0	49.9
150°	34.8	33.4	36.2	37.2	38.6	38.6	39.0	40.4	43.3	45.2	47.5
152.5°	34.3	33.9	35.7	37.6	38.6	39.0	39.0	39.5	41.9	43.7	45.6
155°	34.8	34.8	36.2	38.6	39.0	39.0	39.5	39.0	40.0	41.9	43.7
157.5°	35.7	36.7	36.7	39.0	40.0	40.0	40.4	40.0	39.5	40.0	41.9
160°	37.2	38.1	38.1	39.5	40.9	40.9	41.4	40.9	40.4	40.0	40.0
162.5°	38.6	39.5	39.5	40.0	41.4	41.9	42.3	41.9	41.4	40.4	40.0
165°	40.0	40.9	40.9	40.9	41.9	42.3	42.8	42.3	42.3	41.4	40.9
167.5°	41.4	42.3	42.3	41.9	42.3	42.8	43.3	42.8	42.8	42.3	41.4
170°	42.8	43.7	43.7	42.8	43.3	43.3	43.7	43.3	43.3	42.3	41.9
172.5°	43.7	44.7	44.2	43.7	43.7	43.7	43.7	43.3	42.8	41.9	41.9
175°	44.2	45.2	45.2	44.2	43.7	43.7	44.2	43.3	42.8	42.3	41.4
177.5°	44.2	45.2	45.2	44.2	44.2	43.7	44.2	43.7	43.7	42.8	41.9
180°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
2.5°	513.1	512.7	509.8	513.1	513.1	512.2	516.0	515.5	515.0	514.1
5°	511.3	510.8	508.0	511.3	511.3	510.8	514.5	515.0	515.5	514.5
7.5°	508.4	508.0	505.1	508.4	508.4	508.0	512.2	512.7	513.1	511.7
10°	504.2	503.7	500.9	504.2	504.7	504.2	507.5	508.0	508.9	507.0
12.5°	498.6	498.6	495.7	499.0	499.5	499.0	502.3	503.3	504.2	501.8
15°	491.5	492.0	489.6	492.9	493.4	493.4	496.7	497.1	498.6	495.3
17.5°	483.0	484.0	482.1	485.4	485.9	486.3	488.2	489.6	491.0	487.3
20°	474.1	474.6	473.2	476.0	476.9	476.4	478.8	480.7	482.1	478.3
22.5°	463.3	463.7	462.3	465.2	466.1	466.6	468.5	470.8	471.7	468.5
25°	451.0	452.9	452.0	454.8	455.8	455.8	457.6	460.0	461.4	456.7
27.5°	439.3	441.6	440.7	443.5	444.5	444.9	445.9	448.7	450.1	445.9
30°	426.1	428.9	428.5	431.3	432.2	431.8	433.6	436.5	438.4	433.6
32.5°	411.5	415.3	414.8	418.6	419.5	420.0	421.4	425.2	427.1	422.8
35°	397.4	401.7	402.1	406.4	407.8	408.2	410.1	413.9	415.8	411.5
37.5°	382.9	388.5	389.9	394.1	395.5	396.0	397.9	402.1	404.0	399.8
40°	368.7	375.3	377.2	381.0	382.4	383.8	385.2	389.4	391.8	387.6
42.5°	354.6	361.7	364.0	367.8	369.2	370.6	372.5	377.2	379.1	375.3
45°	340.1	347.6	350.4	354.2	356.0	357.5	359.3	363.6	365.9	362.2
47.5°	325.5	333.0	335.8	340.1	341.9	343.8	345.2	350.4	352.7	349.0
50°	309.9	318.4	321.7	325.5	328.3	329.7	331.6	336.3	338.6	335.3
52.5°	294.4	303.4	307.1	310.9	313.7	316.1	317.0	322.2	324.5	321.2
55°	278.4	287.4	291.6	295.8	298.7	301.5	302.4	307.6	309.9	305.2
57.5°	262.4	271.9	276.1	280.8	283.1	286.4	287.8	292.5	294.9	291.6
60°	246.5	255.4	260.6	264.8	268.1	270.9	271.9	277.0	279.4	275.1
62.5°	230.0	239.4	244.6	249.3	252.1	255.4	256.8	261.5	263.4	259.2
65°	213.1	222.5	228.1	232.3	236.1	238.9	239.9	245.0	246.9	242.7
67.5°	196.1	205.5	211.6	216.4	219.6	222.9	223.9	229.1	230.9	227.6
70°	179.7	189.1	195.2	200.8	203.2	206.5	207.9	212.6	214.5	211.6
72.5°	163.2	172.6	179.2	184.8	187.2	190.5	192.4	196.1	199.0	196.6
75°	147.2	156.6	163.2	168.8	171.2	174.5	176.4	180.1	182.0	180.1
77.5°	131.7	141.1	147.2	152.9	155.7	158.5	160.4	164.1	166.5	164.6
80°	116.6	126.0	132.2	137.3	140.2	143.0	144.9	149.1	151.0	149.6
82.5°	102.5	111.5	118.1	123.2	126.0	128.9	130.8	134.5	136.9	135.0
85°	89.8	98.8	104.9	110.1	112.4	115.2	117.1	120.9	122.8	121.8
87.5°	77.6	85.6	92.7	97.8	100.2	103.0	105.4	108.2	110.5	109.1
90°	68.2	75.3	81.8	87.0	89.8	92.7	95.5	98.3	100.2	99.2
92.5°	68.7	75.3	81.4	86.1	88.9	91.7	94.5	97.8	99.2	98.3
95°	68.7	75.3	81.4	86.1	88.9	91.7	94.5	97.8	99.2	98.3
97.5°	68.7	75.3	81.4	86.1	88.9	91.7	94.5	97.8	99.2	97.8
100°	68.7	75.3	81.4	86.1	88.9	91.2	94.1	97.4	98.8	97.8
102.5°	68.7	75.3	80.9	85.6	88.4	90.8	93.6	96.9	98.3	97.4
105°	68.7	74.8	80.9	85.1	88.0	90.3	93.1	95.9	97.4	96.4
107.5°	68.2	74.3	80.0	84.7	87.0	89.4	92.2	95.0	96.4	95.5
110°	68.2	73.8	79.5	83.7	86.1	88.4	91.2	94.1	95.5	94.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	67.7	73.4	79.0	82.8	85.1	87.5	89.8	93.1	94.5	93.6
115°	67.3	72.9	78.1	81.8	84.2	86.1	88.9	92.2	93.1	92.7
117.5°	66.8	72.0	77.1	80.9	83.2	85.1	87.5	90.3	91.7	91.2
120°	66.3	71.0	76.2	79.5	81.8	83.7	85.6	88.4	89.8	88.9
122.5°	65.4	70.1	75.3	78.5	80.4	82.3	84.2	86.5	88.0	87.5
125°	64.4	69.1	73.8	77.1	79.0	80.4	82.3	84.7	85.6	85.1
127.5°	63.5	68.2	72.4	75.3	77.6	79.0	80.4	82.8	83.7	83.2
130°	62.6	66.8	71.0	73.8	75.7	77.1	78.5	80.9	81.4	81.4
132.5°	61.6	65.4	69.6	72.4	74.3	75.3	76.7	78.5	79.5	79.0
135°	60.7	64.0	68.2	70.5	72.0	73.4	74.8	76.7	77.1	77.1
137.5°	59.3	62.6	66.3	68.7	70.1	71.0	72.4	74.3	74.8	74.8
140°	57.9	61.1	64.4	66.3	68.2	69.1	70.1	72.0	72.4	72.4
142.5°	56.4	59.3	62.6	64.4	66.3	66.8	68.2	69.6	70.1	70.1
145°	54.6	57.9	60.7	62.6	64.0	64.4	65.8	67.3	67.3	67.7
147.5°	52.2	55.0	58.8	60.2	61.6	62.1	63.5	64.4	64.9	64.9
150°	49.9	52.7	56.0	58.3	59.7	60.2	60.7	62.1	62.1	62.6
152.5°	47.5	49.9	53.1	55.5	57.4	57.9	58.3	59.3	59.3	59.7
155°	45.2	47.0	49.9	52.2	54.1	55.0	56.0	56.9	56.9	57.4
157.5°	43.3	45.2	47.5	49.4	50.8	52.2	53.6	54.6	54.6	54.6
160°	40.9	42.3	44.7	46.1	48.0	48.9	51.3	52.2	52.2	52.7
162.5°	39.5	40.0	41.4	42.8	44.2	45.2	47.5	49.9	49.9	50.3
165°	40.0	39.5	40.0	40.4	41.4	41.9	43.3	46.6	47.5	48.0
167.5°	40.9	39.5	39.5	39.5	40.4	40.4	41.9	43.7	47.0	46.1
170°	40.9	39.5	38.6	38.6	39.0	38.6	39.5	40.9	42.8	44.7
172.5°	41.4	40.0	38.6	36.7	37.2	36.7	35.7	35.7	36.2	42.3
175°	40.9	40.0	38.1	35.7	35.3	33.9	31.0	28.7	27.3	21.2
177.5°	40.4	39.0	37.6	35.7	34.8	33.4	30.1	26.3	22.6	21.6
180°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6



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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	12.19	13.51	12.81	14.15	14.87	14.74	16.06	15.36	16.70	17.42
	3H	13.60	14.80	14.23	15.44	16.20	17.17	18.37	17.80	19.02	19.77
	4H	14.03	15.17	14.68	15.82	16.59	18.31	19.45	18.96	20.11	20.88
	6H	14.27	15.32	14.93	15.99	16.77	19.45	20.51	20.11	21.17	21.96
	8H	14.31	15.32	14.98	16.01	16.80	20.01	21.02	20.68	21.71	22.50
	12H	14.32	15.29	15.00	15.97	16.79	20.59	21.56	21.27	22.24	23.06
4H	2H	13.08	14.22	13.73	14.88	15.65	15.09	16.23	15.74	16.89	17.66
	3H	14.71	15.68	15.37	16.37	17.16	17.73	18.69	18.39	19.39	20.17
	4H	15.26	16.15	15.94	16.85	17.66	19.02	19.90	19.70	20.60	21.42
	6H	15.60	16.38	16.30	17.10	17.93	20.33	21.11	21.03	21.83	22.65
	8H	15.68	16.41	16.38	17.13	17.97	20.99	21.72	21.69	22.44	23.28
	12H	15.71	16.37	16.43	17.12	17.96	21.69	22.35	22.41	23.09	23.94
8H	4H	15.91	16.64	16.62	17.36	18.20	19.17	19.90	19.87	20.62	21.46
	6H	16.42	17.04	17.15	17.79	18.64	20.62	21.24	21.36	22.00	22.85
	8H	16.57	17.13	17.32	17.89	18.75	21.40	21.96	22.15	22.72	23.58
	12H	16.66	17.16	17.41	17.91	18.83	22.27	22.76	23.01	23.51	24.43
12H	4H	16.08	16.74	16.80	17.48	18.33	19.16	19.82	19.88	20.57	21.41
	6H	16.67	17.23	17.42	17.99	18.85	20.64	21.20	21.39	21.96	22.82
	8H	16.91	17.40	17.66	18.16	19.07	21.47	21.97	22.22	22.72	23.64