

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: P893444

Luminaire Tested: 4MB-3SL-RND-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893444
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-L850
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

Summary

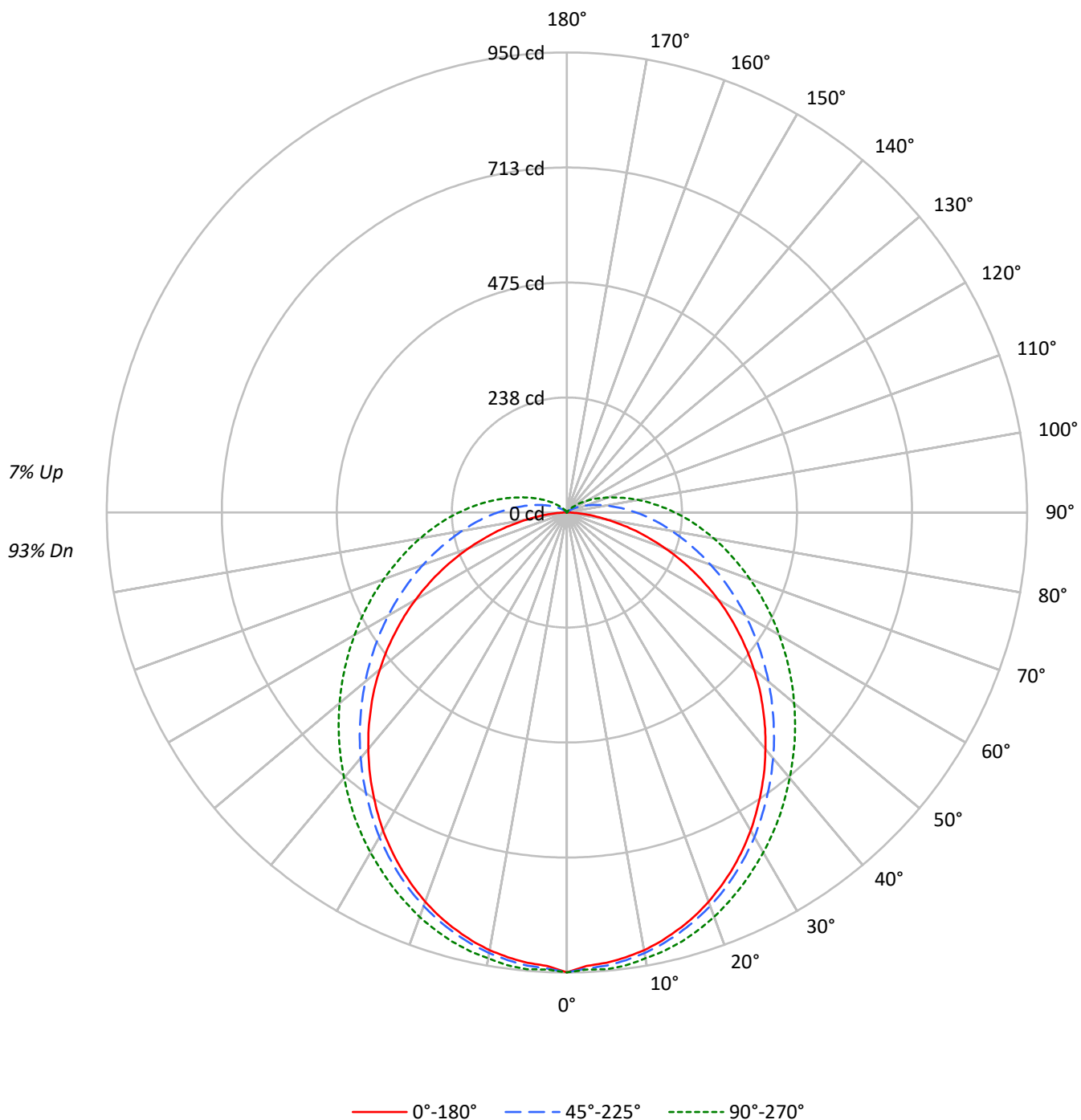
Lumens per Lamp: N/A
Luminaire Lumens: 3143.9 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): 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-RND-UNV-L850

Luminous Intensity Polar Plot



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CATALOG NUMBER: 4MB-3SL-RND-UNV-L850

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	76
2	95	86	78	72	92	83	77	71	79	73	68	74	70	65	70	66	63
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27
9	54	40	32	26	52	39	31	26	38	31	25	36	30	25	35	29	24
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6757	6757	6757
5°	6667	6709	6761
10°	6631	6674	6754
15°	6563	6618	6755
20°	6476	6549	6730
25°	6365	6458	6692
30°	6233	6361	6661
35°	6080	6248	6648
40°	5922	6150	6646
45°	5758	6064	6692
50°	5577	6013	6778
55°	5374	6001	6942
60°	5140	6059	7202
65°	4854	6217	7632
70°	4500	6570	8363
75°	4066	7312	9704
80°	3442	9014	12608
85°	2792	14678	21601

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 39751 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	2.9
10°-20°	255.9	8.1
20°-30°	383.2	12.2
30°-40°	456.9	14.5
40°-50°	473.9	15.1
50°-60°	439.6	14.0
60°-70°	366.7	11.7
70°-80°	273.4	8.7
80°-90°	182.1	5.8
90°-100°	110.8	3.5
100°-110°	61.9	2.0
110°-120°	30.9	1.0
120°-130°	12.9	0.4
130°-140°	4.1	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°	728.9	23.2
0°-40°	1185.8	37.7
0°-60°	2099.3	66.8
0°-90°	2921.5	92.9
90°-120°	203.6	6.5
90°-150°	221.6	7.0
90°-180°	222.0	7.1
0°-180°	3143.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	933	955	939	944	947	89
15°	891	914	898	915	917	251
25°	811	832	823	846	852	373
35°	700	719	719	755	765	438
45°	572	587	603	650	665	442
55°	433	448	484	540	560	387
65°	288	311	369	432	453	285
75°	148	189	266	331	353	156
85°	34	94	180	242	265	38
90°	2	62	143	201	223	3
95°	0	38	110	165	184	0
105°	0	12	60	102	117	0
115°	1	3	28	57	68	1
125°	1	1	11	28	34	1
135°	1	1	3	10	13	1
145°	1	1	1	2	3	0
155°	2	2	1	1	1	1
165°	2	2	1	1	1	0
175°	2	2	2	1	0	0
180°	2	2	2	2	2	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7
2.5°	937.1	938.6	951.9	951.2	949.0	957.9	960.1	952.7	940.8	952.7	942.3
5°	933.4	934.9	948.2	947.5	945.3	954.9	955.7	949.0	937.1	949.0	939.3
7.5°	926.7	928.2	941.5	940.8	939.3	949.0	948.2	943.0	930.4	943.0	932.6
10°	917.8	918.5	932.6	931.1	930.4	940.1	937.8	933.4	920.7	933.4	923.7
12.5°	905.9	906.6	920.7	919.3	919.3	928.2	925.2	921.5	908.8	920.7	912.6
15°	891.0	891.8	905.1	904.4	904.4	914.0	909.6	906.6	894.7	907.4	898.4
17.5°	874.7	873.9	888.0	886.6	888.0	897.0	891.0	889.5	878.4	890.3	882.8
20°	855.3	855.3	868.0	867.2	869.5	877.6	870.2	870.9	859.8	872.4	865.0
22.5°	833.8	833.0	845.7	845.7	847.9	856.1	847.9	850.1	839.0	850.9	844.9
25°	810.8	809.3	821.9	821.9	825.6	832.3	823.4	826.4	816.0	827.8	822.6
27.5°	785.5	783.3	795.9	796.6	799.6	806.3	796.6	801.1	791.4	802.6	798.9
30°	758.7	756.5	769.1	769.9	773.6	778.8	769.1	775.1	766.2	777.3	774.3
32.5°	729.8	728.3	740.2	741.6	745.4	749.1	740.2	746.1	738.7	749.8	746.8
35°	700.0	698.5	709.7	711.9	715.6	718.6	708.9	717.1	710.4	720.8	719.3
37.5°	669.6	667.3	679.2	680.7	685.2	686.7	677.7	687.4	681.5	691.9	691.1
40°	637.6	635.4	647.3	648.8	653.2	653.2	645.8	656.2	651.7	661.4	662.1
42.5°	605.7	603.4	613.8	616.8	620.5	620.5	613.1	624.2	621.3	630.9	633.1
45°	572.2	570.0	579.6	582.6	587.1	587.1	579.6	592.3	590.0	599.7	602.7
47.5°	539.5	536.5	545.5	548.4	552.9	552.1	546.2	558.8	558.1	567.8	573.0
50°	503.8	501.6	510.5	513.5	518.7	517.2	512.8	526.1	526.1	535.8	543.2
52.5°	468.9	466.7	475.6	478.6	483.0	483.0	478.6	492.7	494.9	504.6	513.5
55°	433.2	430.3	439.2	442.2	447.4	448.1	444.4	458.5	463.0	474.1	483.8
57.5°	397.6	396.1	403.5	406.5	413.2	413.2	411.0	425.8	431.8	443.6	454.8
60°	361.2	359.7	366.4	370.1	377.5	379.0	377.5	393.1	401.3	413.2	425.8
62.5°	324.7	323.3	329.9	335.2	343.3	344.8	345.6	361.9	370.8	383.5	397.6
65°	288.3	286.8	293.5	299.5	309.1	311.4	313.6	330.7	341.1	354.5	369.3
67.5°	251.9	251.2	257.9	265.3	275.7	278.7	282.4	300.2	312.1	326.2	342.6
70°	216.3	215.5	222.2	231.1	243.7	247.5	251.9	269.8	284.6	299.5	315.8
72.5°	180.6	181.3	188.8	199.2	213.3	217.0	222.9	241.5	257.9	273.5	290.6
75°	147.9	147.9	156.1	167.9	183.6	188.8	195.4	214.8	231.9	248.2	266.0
77.5°	114.4	114.4	124.1	139.0	156.1	161.3	169.4	189.5	208.1	224.4	242.3
80°	84.0	85.5	96.6	111.5	129.3	136.0	145.7	165.7	185.8	202.1	220.0
82.5°	57.2	59.5	71.3	88.4	106.3	113.0	122.6	144.2	164.2	181.3	199.9
85°	34.2	37.9	50.5	67.6	86.2	93.6	104.0	124.1	144.2	161.3	179.8
87.5°	15.6	20.8	34.2	51.3	69.1	77.3	86.2	105.5	125.6	142.7	162.0
90°	1.5	8.9	22.3	37.2	54.2	61.7	70.6	89.2	108.5	124.1	142.7
92.5°	0.0	3.7	13.4	26.8	41.6	49.0	57.2	75.1	92.1	107.8	125.6
95°	0.0	1.5	7.4	18.6	31.2	37.9	45.3	61.7	78.8	93.6	110.0
97.5°	0.0	0.7	4.5	12.6	23.0	29.0	35.7	50.5	66.1	80.3	95.1
100°	0.0	0.7	2.2	8.2	17.1	21.6	28.2	40.9	55.0	67.6	82.5
102.5°	0.0	0.0	1.5	5.2	12.6	16.3	21.6	32.7	45.3	57.2	70.6
105°	0.0	0.0	0.7	3.7	8.9	11.9	16.3	26.0	37.2	47.6	60.2
107.5°	0.0	0.0	0.7	2.2	5.9	8.9	12.6	20.1	29.7	39.4	50.5
110°	0.7	0.7	0.7	1.5	4.5	6.7	8.9	15.6	24.5	32.7	42.4

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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	3.0	4.5	6.7	11.9	19.3	26.0	34.9
115°	0.7	0.7	0.7	0.7	2.2	3.0	4.5	8.9	14.9	20.8	28.2
117.5°	0.7	0.7	0.7	0.7	1.5	2.2	3.0	6.7	11.1	16.3	23.0
120°	0.7	0.7	0.7	0.7	0.7	1.5	2.2	4.5	8.9	12.6	18.6
122.5°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	3.7	6.7	9.7	14.1
125°	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2	4.5	7.4	11.1
127.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2	3.0	5.2	8.2
130°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2	3.7	5.9
132.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2	3.0	4.5
135°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2	3.0
137.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	2.2
140°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5
142.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5
145°	0.7	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147.5°	0.7	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
150°	0.7	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
152.5°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7
155°	1.5	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7
157.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7
160°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7
162.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7
165°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.7	0.7
167.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.7
170°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
172.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.7
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
177.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7	949.7
2.5°	945.3	947.5	949.7	943.8	947.5	954.2	956.4	947.5	950.5	944.5
5°	942.3	943.8	946.7	939.3	944.5	950.5	954.2	946.7	951.2	946.7
7.5°	936.3	937.8	941.5	934.1	940.8	946.0	950.5	943.0	947.5	943.0
10°	927.4	929.7	934.9	925.9	934.1	938.6	943.0	934.9	939.3	934.9
12.5°	916.3	920.0	924.5	916.3	924.5	928.2	934.1	925.9	931.1	927.4
15°	902.9	906.6	912.6	904.4	914.8	917.8	923.7	915.5	920.7	917.0
17.5°	887.3	891.8	899.2	889.5	901.4	903.6	909.6	902.2	907.4	903.6
20°	869.5	873.9	881.4	872.4	884.3	885.8	892.5	885.8	891.0	888.8
22.5°	848.7	853.9	861.3	853.1	865.7	865.7	873.9	867.2	873.2	870.9
25°	827.1	833.0	841.2	832.3	845.7	845.7	854.6	847.9	853.9	852.4
27.5°	804.1	810.8	820.4	811.5	824.9	824.1	833.0	827.1	833.8	831.6
30°	779.5	787.0	796.6	789.2	803.3	801.8	810.8	805.6	811.5	810.8
32.5°	752.8	761.0	772.9	764.7	778.8	777.3	788.5	782.5	789.9	788.5
35°	726.0	735.0	746.8	739.4	755.0	752.8	763.9	758.7	766.2	765.4
37.5°	698.5	708.2	720.1	714.1	729.0	726.8	738.7	734.2	742.4	740.2
40°	670.3	680.0	692.6	687.4	703.0	700.0	712.7	708.9	717.1	715.6
42.5°	642.1	652.5	665.1	662.1	677.0	674.0	686.7	683.7	691.9	690.4
45°	613.1	624.2	637.6	634.6	650.2	647.3	659.9	657.7	665.8	665.1
47.5°	584.1	596.0	609.4	607.9	622.7	619.8	633.1	630.9	639.1	639.1
50°	554.4	567.8	581.1	580.4	595.2	592.3	604.2	604.2	613.1	612.3
52.5°	524.6	538.8	552.9	552.9	567.8	564.8	578.2	577.4	586.3	586.3
55°	496.4	509.0	523.2	526.1	540.3	535.8	549.9	551.4	558.8	559.6
57.5°	468.2	481.5	495.7	499.4	512.8	509.8	523.2	524.6	532.1	532.8
60°	439.9	452.6	466.7	471.9	485.3	482.3	495.7	497.2	505.3	506.1
62.5°	411.7	424.3	439.9	445.1	457.8	455.5	469.7	471.1	478.6	480.1
65°	384.2	397.6	412.4	419.9	431.8	428.8	442.9	444.4	452.6	453.3
67.5°	357.4	370.8	385.7	393.9	405.0	403.5	416.9	419.9	426.6	428.0
70°	331.4	344.8	360.4	368.6	379.7	379.0	391.6	393.9	401.3	402.0
72.5°	306.2	319.5	335.2	344.8	354.5	353.7	366.4	369.3	376.8	377.5
75°	281.6	295.8	310.6	321.0	330.7	329.9	342.6	345.6	352.2	353.0
77.5°	258.6	272.7	288.3	298.7	306.9	307.7	318.8	321.8	328.5	330.7
80°	237.1	250.4	265.3	276.4	283.9	285.4	295.8	299.5	304.7	307.7
82.5°	216.3	229.6	244.5	254.9	262.3	263.8	273.5	277.9	283.1	285.4
85°	196.2	209.6	223.7	234.8	241.5	242.3	251.9	256.4	260.8	264.6
87.5°	176.9	190.2	203.6	215.5	221.5	222.9	231.9	236.3	240.0	243.7
90°	157.5	170.9	184.3	195.4	201.4	202.1	211.8	216.3	220.0	222.9
92.5°	139.7	153.1	166.5	177.6	182.8	184.3	192.5	197.7	200.6	203.6
95°	122.6	136.0	147.9	159.8	165.0	167.2	174.6	179.1	182.8	184.3
97.5°	107.8	119.6	130.8	142.7	147.1	149.4	156.8	162.0	165.0	166.5
100°	93.6	104.8	115.2	126.3	130.8	133.0	139.7	144.2	147.1	149.4
102.5°	81.0	91.4	101.1	111.5	115.9	117.4	123.4	127.8	130.8	133.0
105°	69.9	79.5	88.4	98.1	101.8	104.0	109.2	113.0	115.9	117.4
107.5°	59.5	69.1	76.5	85.5	89.2	90.7	95.9	100.3	102.6	103.3
110°	50.5	58.7	66.1	73.6	78.0	79.5	84.0	87.7	89.9	90.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	42.4	49.8	56.5	63.2	66.9	68.4	72.8	76.5	78.0	78.8
115°	34.9	42.4	47.6	54.2	57.2	58.7	62.4	66.1	66.9	68.4
117.5°	28.2	34.9	40.1	45.3	48.3	49.8	52.8	55.7	57.2	58.0
120°	23.0	28.2	32.7	37.9	40.1	41.6	44.6	47.6	48.3	49.0
122.5°	18.6	23.0	26.8	31.2	33.4	34.9	37.2	39.4	40.1	40.9
125°	14.1	18.6	21.6	25.3	27.5	28.2	30.5	32.7	33.4	34.2
127.5°	11.1	14.1	17.1	20.1	21.6	22.3	24.5	26.0	26.8	27.5
130°	8.2	10.4	12.6	15.6	17.1	17.8	19.3	20.8	21.6	21.6
132.5°	5.9	8.2	9.7	11.9	12.6	13.4	14.9	16.3	16.3	17.1
135°	3.7	5.2	6.7	8.2	9.7	9.7	11.1	11.9	12.6	12.6
137.5°	3.0	3.7	4.5	5.9	6.7	7.4	7.4	8.9	8.9	8.9
140°	2.2	3.0	3.0	3.7	4.5	5.2	5.2	5.9	5.9	5.9
142.5°	1.5	2.2	2.2	3.0	3.0	3.7	3.7	3.7	4.5	4.5
145°	1.5	1.5	1.5	2.2	2.2	2.2	2.2	3.0	3.0	3.0
147.5°	0.7	0.7	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2
150°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

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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	16.93	18.46	17.40	18.92	19.41	18.50	20.03	18.97	20.49	20.98
	3H	18.60	20.01	19.09	20.47	21.00	21.12	22.53	21.61	22.99	23.52
	4H	19.20	20.53	19.70	21.02	21.56	22.43	23.76	22.94	24.25	24.79
	6H	19.60	20.84	20.12	21.34	21.89	23.84	25.08	24.36	25.58	26.13
	8H	19.72	20.90	20.24	21.43	21.99	24.59	25.78	25.12	26.30	26.86
	12H	19.79	20.93	20.33	21.45	22.04	25.44	26.58	25.97	27.09	27.69
4H	2H	17.85	19.18	18.36	19.67	20.21	19.05	20.38	19.55	20.86	21.40
	3H	19.83	20.97	20.35	21.50	22.06	21.96	23.10	22.48	23.63	24.19
	4H	20.61	21.65	21.15	22.19	22.78	23.49	24.53	24.03	25.07	25.66
	6H	21.19	22.11	21.75	22.67	23.28	25.13	26.05	25.69	26.62	27.23
	8H	21.37	22.24	21.93	22.80	23.42	26.01	26.88	26.58	27.44	28.07
	12H	21.50	22.28	22.08	22.88	23.50	27.02	27.80	27.60	28.40	29.02
8H	4H	21.49	22.35	22.05	22.92	23.54	23.85	24.72	24.41	25.28	25.90
	6H	22.37	23.11	22.96	23.71	24.34	25.75	26.49	26.35	27.09	27.72
	8H	22.72	23.38	23.32	24.00	24.64	26.83	27.50	27.44	28.12	28.76
	12H	22.99	23.58	23.60	24.19	24.89	28.10	28.69	28.71	29.30	30.01
12H	4H	21.76	22.55	22.35	23.15	23.77	23.89	24.68	24.48	25.27	25.90
	6H	22.82	23.48	23.42	24.10	24.74	25.86	26.53	26.47	27.14	27.78
	8H	23.34	23.93	23.94	24.54	25.24	27.06	27.65	27.67	28.26	28.96