

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: P893558

Luminaire Tested: 4MB-4SL-RND-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893558
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-4SL-RND-UNV-L935
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

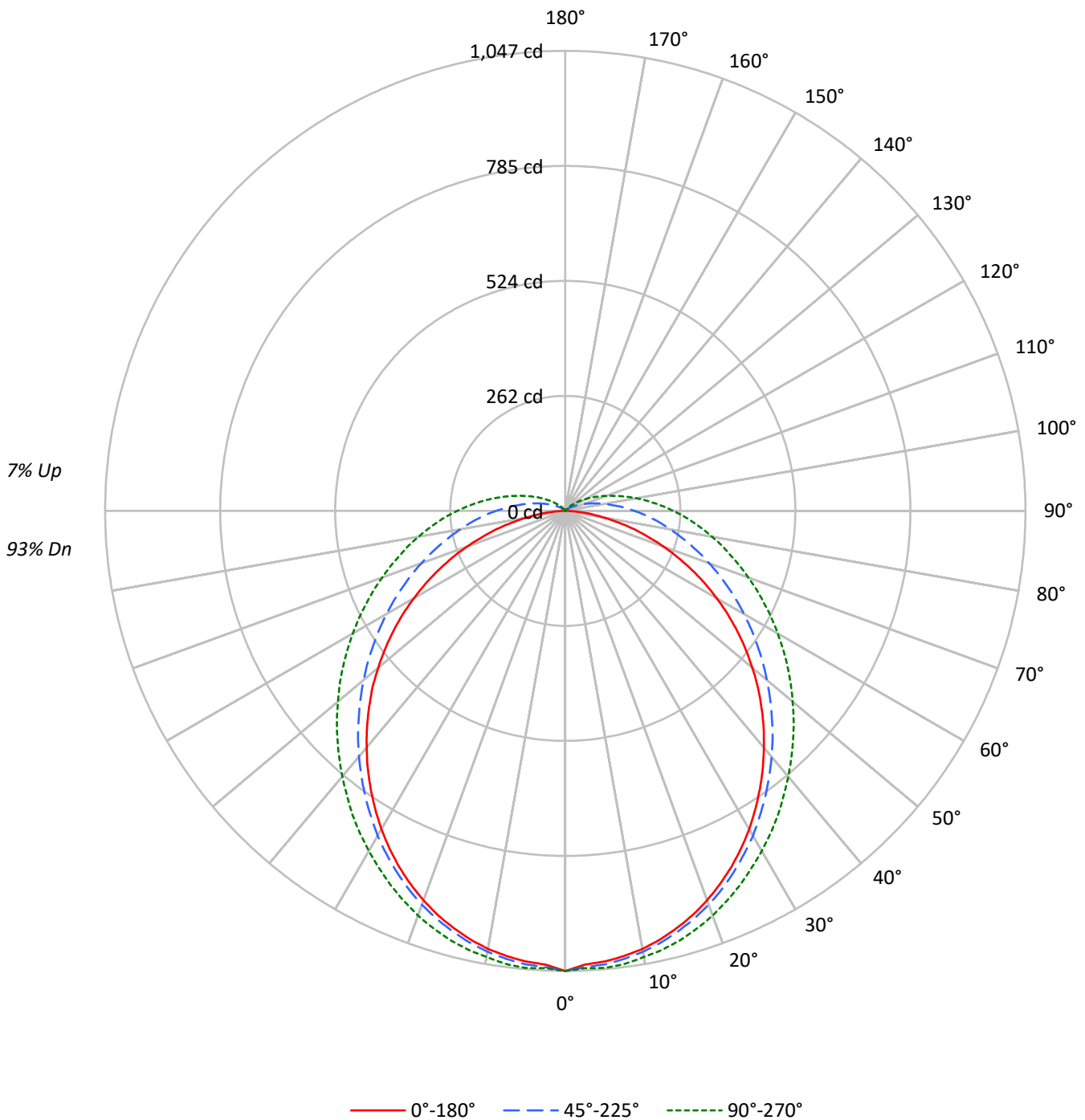
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3467.0 lumens
Efficiency: N/A
Efficacy: 116.3 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): 29.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.5
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°	7452	7452	7452
5°	7351	7398	7456
10°	7312	7359	7448
15°	7238	7297	7448
20°	7142	7223	7421
25°	7018	7122	7379
30°	6874	7015	7345
35°	6705	6890	7332
40°	6530	6782	7330
45°	6349	6687	7380
50°	6150	6630	7474
55°	5927	6618	7655
60°	5668	6682	7942
65°	5354	6857	8416
70°	4961	7246	9222
75°	4484	8066	10702
80°	3794	9940	13902
85°	3078	16188	23813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 43845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	2.9
10°-20°	282.2	8.1
20°-30°	422.6	12.2
30°-40°	503.8	14.5
40°-50°	522.5	15.1
50°-60°	484.8	14.0
60°-70°	404.4	11.7
70°-80°	301.5	8.7
80°-90°	200.8	5.8
90°-100°	122.2	3.5
100°-110°	68.2	2.0
110°-120°	34.1	1.0
120°-130°	14.3	0.4
130°-140°	4.5	0.1
140°-150°	1.1	0.0
150°-160°	0.5	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	803.8	23.2
0°-40°	1307.6	37.7
0°-60°	2314.9	66.8
0°-90°	3221.6	92.9
90°-120°	224.6	6.5
90°-150°	244.4	7.0
90°-180°	245.0	7.1
0°-180°	3467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1029	1053	1036	1042	1044	98
15°	983	1008	991	1009	1011	277
25°	894	918	907	933	940	412
35°	772	792	793	833	844	483
45°	631	647	665	717	733	487
55°	478	494	534	596	617	427
65°	318	343	407	476	500	315
75°	163	208	293	365	389	172
85°	38	103	198	266	292	42
90°	2	68	157	222	246	3
95°	0	42	121	182	203	0
105°	0	13	66	112	130	0
115°	1	3	31	63	75	1
125°	1	1	12	30	38	1
135°	1	1	3	11	14	1
145°	1	1	1	2	3	1
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°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1033.4	1035.0	1049.7	1048.9	1046.5	1056.3	1058.8	1050.6	1037.5	1050.6	1039.1
5°	1029.3	1030.9	1045.7	1044.8	1042.4	1053.0	1053.8	1046.5	1033.4	1046.5	1035.8
7.5°	1021.9	1023.5	1038.3	1037.5	1035.8	1046.5	1045.7	1039.9	1026.0	1039.9	1028.4
10°	1012.1	1012.9	1028.4	1026.8	1026.0	1036.6	1034.2	1029.3	1015.3	1029.3	1018.6
12.5°	998.9	999.8	1015.3	1013.7	1013.7	1023.5	1020.2	1016.1	1002.2	1015.3	1006.3
15°	982.6	983.4	998.1	997.3	997.3	1008.0	1003.0	999.8	986.6	1000.6	990.7
17.5°	964.5	963.7	979.3	977.6	979.3	989.1	982.6	980.9	968.6	981.7	973.5
20°	943.2	943.2	957.1	956.3	958.8	967.8	959.6	960.4	948.1	962.1	953.9
22.5°	919.5	918.6	932.6	932.6	935.0	944.0	935.0	937.5	925.2	938.3	931.7
25°	894.0	892.4	906.3	906.3	910.4	917.8	908.0	911.3	899.8	912.9	907.2
27.5°	866.2	863.7	877.7	878.5	881.8	889.1	878.5	883.4	872.7	885.0	880.9
30°	836.7	834.2	848.2	849.0	853.1	858.8	848.2	854.7	844.9	857.2	853.9
32.5°	804.7	803.1	816.2	817.8	821.9	826.0	816.2	822.8	814.6	826.9	823.6
35°	771.9	770.3	782.6	785.1	789.2	792.4	781.8	790.8	783.4	794.9	793.3
37.5°	738.3	735.9	749.0	750.6	755.6	757.2	747.4	758.0	751.5	762.9	762.1
40°	703.1	700.7	713.8	715.4	720.3	720.3	712.1	723.6	718.7	729.3	730.2
42.5°	667.9	665.4	676.9	680.2	684.3	684.3	676.1	688.4	685.1	695.7	698.2
45°	631.0	628.5	639.2	642.5	647.4	647.4	639.2	653.1	650.7	661.3	664.6
47.5°	594.9	591.7	601.5	604.8	609.7	608.9	602.3	616.2	615.4	626.1	631.8
50°	555.6	553.1	563.0	566.3	572.0	570.4	565.4	580.2	580.2	590.8	599.0
52.5°	517.1	514.6	524.5	527.7	532.7	532.7	527.7	543.3	545.8	556.4	566.3
55°	477.8	474.5	484.3	487.6	493.3	494.1	490.0	505.6	510.5	522.8	533.5
57.5°	438.4	436.8	445.0	448.3	455.6	455.6	453.2	469.6	476.1	489.2	501.5
60°	398.3	396.6	404.0	408.1	416.3	417.9	416.3	433.5	442.5	455.6	469.6
62.5°	358.1	356.5	363.8	369.6	378.6	380.2	381.1	399.1	408.9	422.8	438.4
65°	318.0	316.3	323.7	330.2	340.9	343.4	345.8	364.7	376.1	390.9	407.3
67.5°	277.8	277.0	284.4	292.6	304.0	307.3	311.4	331.1	344.2	359.7	377.8
70°	238.5	237.6	245.0	254.9	268.8	272.9	277.8	297.5	313.9	330.2	348.3
72.5°	199.1	200.0	208.1	219.6	235.2	239.3	245.8	266.3	284.4	301.6	320.4
75°	163.1	163.1	172.1	185.2	202.4	208.1	215.5	236.8	255.7	273.7	293.4
77.5°	126.2	126.2	136.9	153.2	172.1	177.8	186.8	209.0	229.5	247.5	267.1
80°	92.6	94.2	106.5	122.9	142.6	150.0	160.6	182.7	204.9	222.9	242.6
82.5°	63.1	65.6	78.7	97.5	117.2	124.6	135.2	159.0	181.1	200.0	220.4
85°	37.7	41.8	55.7	74.6	95.1	103.3	114.7	136.9	159.0	177.8	198.3
87.5°	17.2	22.9	37.7	56.5	76.2	85.2	95.1	116.4	138.5	157.3	178.6
90°	1.6	9.8	24.6	41.0	59.8	68.0	77.9	98.3	119.6	136.9	157.3
92.5°	0.0	4.1	14.8	29.5	45.9	54.1	63.1	82.8	101.6	118.8	138.5
95°	0.0	1.6	8.2	20.5	34.4	41.8	50.0	68.0	86.9	103.3	121.3
97.5°	0.0	0.8	4.9	13.9	25.4	32.0	39.3	55.7	72.9	88.5	104.9
100°	0.0	0.8	2.5	9.0	18.8	23.8	31.1	45.1	60.6	74.6	91.0
102.5°	0.0	0.0	1.6	5.7	13.9	18.0	23.8	36.1	50.0	63.1	77.9
105°	0.0	0.0	0.8	4.1	9.8	13.1	18.0	28.7	41.0	52.4	66.4
107.5°	0.0	0.0	0.8	2.5	6.6	9.8	13.9	22.1	32.8	43.4	55.7
110°	0.8	0.8	0.8	1.6	4.9	7.4	9.8	17.2	27.0	36.1	46.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.8	0.8	0.8	0.8	3.3	4.9	7.4	13.1	21.3	28.7	38.5
115°	0.8	0.8	0.8	0.8	2.5	3.3	4.9	9.8	16.4	22.9	31.1
117.5°	0.8	0.8	0.8	0.8	1.6	2.5	3.3	7.4	12.3	18.0	25.4
120°	0.8	0.8	0.8	0.8	0.8	1.6	2.5	4.9	9.8	13.9	20.5
122.5°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	4.1	7.4	10.7	15.6
125°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.5	4.9	8.2	12.3
127.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.5	3.3	5.7	9.0
130°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.5	4.1	6.6
132.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.5	3.3	4.9
135°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.5	3.3
137.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.5
140°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
142.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
145°	0.8	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
150°	0.8	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
155°	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8
157.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8
160°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8
162.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8
165°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8
167.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8
170°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
172.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
177.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1042.4	1044.8	1047.3	1040.7	1044.8	1052.2	1054.7	1044.8	1048.1	1041.6
5°	1039.1	1040.7	1044.0	1035.8	1041.6	1048.1	1052.2	1044.0	1048.9	1044.0
7.5°	1032.5	1034.2	1038.3	1030.1	1037.5	1043.2	1048.1	1039.9	1044.8	1039.9
10°	1022.7	1025.2	1030.9	1021.1	1030.1	1035.0	1039.9	1030.9	1035.8	1030.9
12.5°	1010.4	1014.5	1019.4	1010.4	1019.4	1023.5	1030.1	1021.1	1026.8	1022.7
15°	995.7	999.8	1006.3	997.3	1008.8	1012.1	1018.6	1009.6	1015.3	1011.2
17.5°	978.5	983.4	991.6	980.9	994.0	996.5	1003.0	994.8	1000.6	996.5
20°	958.8	963.7	971.9	962.1	975.2	976.8	984.2	976.8	982.6	980.1
22.5°	935.8	941.6	949.8	940.8	954.7	954.7	963.7	956.3	962.9	960.4
25°	912.1	918.6	927.6	917.8	932.6	932.6	942.4	935.0	941.6	939.9
27.5°	886.7	894.0	904.7	894.9	909.6	908.8	918.6	912.1	919.5	917.0
30°	859.6	867.8	878.5	870.3	885.9	884.2	894.0	888.3	894.9	894.0
32.5°	830.1	839.1	852.3	843.2	858.8	857.2	869.5	862.9	871.1	869.5
35°	800.6	810.5	823.6	815.4	832.6	830.1	842.4	836.7	844.9	844.1
37.5°	770.3	781.0	794.1	787.5	803.9	801.4	814.6	809.6	818.7	816.2
40°	739.2	749.8	763.8	758.0	775.2	771.9	785.9	781.8	790.8	789.2
42.5°	708.0	719.5	733.4	730.2	746.5	743.3	757.2	753.9	762.9	761.3
45°	676.1	688.4	703.1	699.8	717.0	713.8	727.7	725.2	734.3	733.4
47.5°	644.1	657.2	672.0	670.3	686.7	683.4	698.2	695.7	704.7	704.7
50°	611.3	626.1	640.8	640.0	656.4	653.1	666.2	666.2	676.1	675.2
52.5°	578.5	594.1	609.7	609.7	626.1	622.8	637.6	636.7	646.6	646.6
55°	547.4	561.3	576.9	580.2	595.8	590.8	606.4	608.1	616.2	617.1
57.5°	516.3	531.0	546.6	550.7	565.4	562.2	576.9	578.5	586.7	587.6
60°	485.1	499.1	514.6	520.4	535.1	531.8	546.6	548.2	557.2	558.1
62.5°	454.0	467.9	485.1	490.9	504.8	502.3	517.9	519.5	527.7	529.4
65°	423.7	438.4	454.8	463.0	476.1	472.8	488.4	490.0	499.1	499.9
67.5°	394.2	408.9	425.3	434.3	446.6	445.0	459.7	463.0	470.4	472.0
70°	365.5	380.2	397.4	406.5	418.8	417.9	431.9	434.3	442.5	443.3
72.5°	337.6	352.4	369.6	380.2	390.9	390.1	404.0	407.3	415.5	416.3
75°	310.6	326.2	342.5	354.0	364.7	363.8	377.8	381.1	388.4	389.3
77.5°	285.2	300.7	318.0	329.4	338.4	339.3	351.6	354.8	362.2	364.7
80°	261.4	276.2	292.6	304.8	313.0	314.7	326.2	330.2	336.0	339.3
82.5°	238.5	253.2	269.6	281.1	289.3	290.9	301.6	306.5	312.2	314.7
85°	216.3	231.1	246.7	259.0	266.3	267.1	277.8	282.7	287.6	291.7
87.5°	195.0	209.8	224.5	237.6	244.2	245.8	255.7	260.6	264.7	268.8
90°	173.7	188.5	203.2	215.5	222.1	222.9	233.6	238.5	242.6	245.8
92.5°	154.1	168.8	183.6	195.9	201.6	203.2	212.2	218.0	221.3	224.5
95°	135.2	150.0	163.1	176.2	181.9	184.4	192.6	197.5	201.6	203.2
97.5°	118.8	131.9	144.2	157.3	162.3	164.7	172.9	178.6	181.9	183.6
100°	103.3	115.5	127.0	139.3	144.2	146.7	154.1	159.0	162.3	164.7
102.5°	89.3	100.8	111.4	122.9	127.8	129.5	136.0	140.9	144.2	146.7
105°	77.0	87.7	97.5	108.2	112.3	114.7	120.5	124.6	127.8	129.5
107.5°	65.6	76.2	84.4	94.2	98.3	100.0	105.7	110.6	113.1	113.9
110°	55.7	64.7	72.9	81.1	86.0	87.7	92.6	96.7	99.2	100.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	46.7	54.9	62.3	69.7	73.8	75.4	80.3	84.4	86.0	86.9
115°	38.5	46.7	52.4	59.8	63.1	64.7	68.8	72.9	73.8	75.4
117.5°	31.1	38.5	44.3	50.0	53.3	54.9	58.2	61.5	63.1	63.9
120°	25.4	31.1	36.1	41.8	44.3	45.9	49.2	52.4	53.3	54.1
122.5°	20.5	25.4	29.5	34.4	36.9	38.5	41.0	43.4	44.3	45.1
125°	15.6	20.5	23.8	27.9	30.3	31.1	33.6	36.1	36.9	37.7
127.5°	12.3	15.6	18.8	22.1	23.8	24.6	27.0	28.7	29.5	30.3
130°	9.0	11.5	13.9	17.2	18.8	19.7	21.3	22.9	23.8	23.8
132.5°	6.6	9.0	10.7	13.1	13.9	14.8	16.4	18.0	18.0	18.8
135°	4.1	5.7	7.4	9.0	10.7	10.7	12.3	13.1	13.9	13.9
137.5°	3.3	4.1	4.9	6.6	7.4	8.2	8.2	9.8	9.8	9.8
140°	2.5	3.3	3.3	4.1	4.9	5.7	5.7	6.6	6.6	6.6
142.5°	1.6	2.5	2.5	3.3	3.3	4.1	4.1	4.1	4.9	4.9
145°	1.6	1.6	1.6	2.5	2.5	2.5	2.5	3.3	3.3	3.3
147.5°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	2.5	2.5	2.5
150°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
170°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
177.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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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	17.27	18.80	17.74	19.26	19.75	18.84	20.37	19.31	20.83	21.32
	3H	18.94	20.35	19.43	20.81	21.34	21.46	22.87	21.95	23.33	23.86
	4H	19.54	20.87	20.04	21.36	21.90	22.77	24.10	23.28	24.59	25.13
	6H	19.94	21.18	20.46	21.68	22.23	24.18	25.42	24.70	25.92	26.47
	8H	20.06	21.24	20.58	21.77	22.33	24.93	26.12	25.46	26.64	27.20
	12H	20.13	21.27	20.67	21.79	22.38	25.78	26.92	26.31	27.43	28.03
4H	2H	18.19	19.52	18.70	20.01	20.55	19.39	20.72	19.89	21.20	21.74
	3H	20.17	21.31	20.69	21.84	22.40	22.30	23.44	22.82	23.97	24.53
	4H	20.95	21.99	21.48	22.53	23.12	23.83	24.87	24.37	25.41	26.00
	6H	21.53	22.45	22.08	23.01	23.62	25.47	26.39	26.03	26.96	27.57
	8H	21.71	22.58	22.27	23.14	23.76	26.35	27.22	26.92	27.78	28.41
	12H	21.83	22.62	22.42	23.21	23.84	27.36	28.14	27.94	28.74	29.36
8H	4H	21.83	22.69	22.39	23.26	23.88	24.19	25.06	24.75	25.62	26.24
	6H	22.71	23.45	23.30	24.05	24.68	26.09	26.83	26.69	27.43	28.06
	8H	23.06	23.72	23.66	24.34	24.98	27.17	27.84	27.78	28.46	29.10
	12H	23.33	23.92	23.94	24.53	25.23	28.44	29.03	29.05	29.64	30.34
12H	4H	22.10	22.89	22.69	23.48	24.11	24.23	25.02	24.82	25.61	26.24
	6H	23.16	23.82	23.76	24.44	25.08	26.20	26.87	26.81	27.48	28.12
	8H	23.68	24.27	24.28	24.88	25.58	27.40	27.99	28.01	28.60	29.30