

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: P893514

Luminaire Tested: 4MB-4SL-FLTU-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893514
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-4SL-FLTU-UNV-L835
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 350
Light Source: -
Ballast/Driver: -

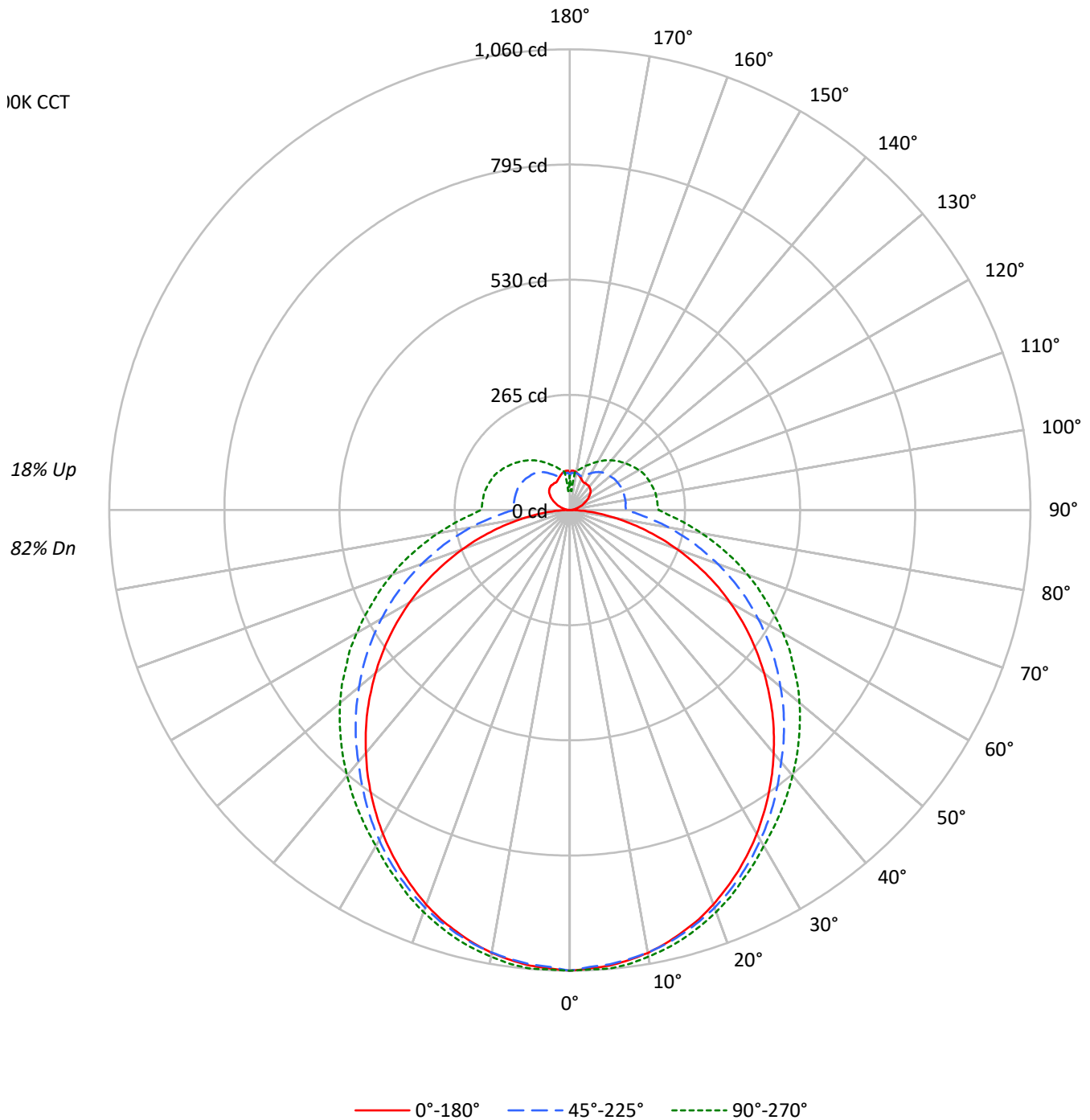
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4007.0 lumens
Efficiency: N/A
Efficacy: 134.5 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): 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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CATALOG NUMBER: 4MB-4SL-FLTU-UNV-L835

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°	7541	7541	7541
5°	7481	7226	7218
10°	7408	6949	6875
15°	7298	6671	6547
20°	7177	6387	6214
25°	7025	6089	5877
30°	6862	5787	5570
35°	6683	5483	5317
40°	6493	5184	5075
45°	6303	4923	4845
50°	6081	4653	4622
55°	5842	4388	4372
60°	5557	4104	4135
65°	5216	3805	3866
70°	4770	3476	3617
75°	4162	3140	3347
80°	3365	2781	3070
85°	2324	2418	2818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6303 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	2.5
10°-20°	285.9	7.1
20°-30°	429.5	10.7
30°-40°	515.7	12.9
40°-50°	542.3	13.5
50°-60°	509.5	12.7
60°-70°	423.7	10.6
70°-80°	302.3	7.5
80°-90°	180.0	4.5
90°-100°	130.3	3.3
100°-110°	128.5	3.2
110°-120°	120.7	3.0
120°-130°	107.0	2.7
130°-140°	88.7	2.2
140°-150°	66.4	1.7
150°-160°	43.6	1.1
160°-170°	24.8	0.6
170°-180°	7.9	0.2
0°-30°	815.6	20.4
0°-40°	1331.3	33.2
0°-60°	2383.2	59.5
0°-90°	3289.1	82.1
90°-120°	379.6	9.5
90°-150°	641.6	16.0
90°-180°	718.0	17.9
0°-180°	4007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1052	1065	1049	1052	1059	100
15°	1005	1020	1009	1015	1019	283
25°	917	934	929	938	940	422
35°	798	816	819	839	847	499
45°	659	678	697	733	745	508
55°	506	527	568	615	628	452
65°	345	373	432	486	500	341
75°	181	222	295	352	371	192
85°	46	100	173	231	251	50
90°	0	57	129	185	204	3
95°	5	60	129	183	202	6
105°	18	67	130	181	198	20
115°	36	73	129	173	191	36
125°	54	77	125	163	175	48
135°	67	81	118	148	159	51
145°	71	79	106	132	139	44
155°	72	80	90	111	118	33
165°	82	87	84	85	99	23
175°	91	90	85	73	44	9
180°	79	79	79	79	79	



TEST NUMBER: P893514
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9
2.5°	1056.0	1059.0	1059.9	1069.6	1065.7	1069.6	1062.8	1055.1	1053.1	1058.0	1052.2
5°	1052.2	1055.1	1056.0	1065.7	1061.9	1064.8	1059.0	1051.2	1049.3	1055.1	1049.3
7.5°	1044.4	1047.3	1048.3	1059.0	1054.1	1058.0	1051.2	1043.5	1042.5	1048.3	1042.5
10°	1034.8	1037.7	1038.6	1048.3	1044.4	1048.3	1041.5	1033.8	1032.8	1039.6	1033.8
12.5°	1021.2	1024.1	1026.0	1035.7	1030.9	1035.7	1028.0	1020.2	1021.2	1027.0	1023.1
15°	1004.7	1008.6	1009.6	1019.3	1015.4	1020.2	1012.5	1004.7	1006.7	1012.5	1008.6
17.5°	987.3	991.2	992.2	1000.9	997.0	1002.8	994.1	987.3	989.3	995.1	992.2
20°	966.0	969.9	971.8	980.5	976.7	982.5	973.8	968.0	969.9	976.7	973.8
22.5°	941.8	947.6	948.6	958.3	953.4	959.3	950.5	945.7	948.6	955.4	952.5
25°	916.7	922.5	923.4	933.1	929.2	934.1	925.4	920.5	924.4	931.2	929.2
27.5°	889.6	895.4	897.3	906.0	902.1	907.9	898.3	895.4	899.2	906.0	904.1
30°	860.5	866.3	867.3	876.0	873.1	878.9	870.2	866.3	872.1	878.9	877.0
32.5°	829.5	835.4	838.3	846.0	843.1	847.9	840.2	838.3	843.1	849.9	848.9
35°	797.6	803.4	806.3	815.0	811.2	816.0	808.2	806.3	814.1	818.9	818.9
37.5°	764.7	770.5	773.4	782.1	777.3	783.1	775.3	774.4	783.1	787.9	787.9
40°	729.8	736.6	739.5	747.3	743.4	748.2	741.5	742.4	750.2	756.0	756.9
42.5°	695.0	701.8	704.7	713.4	708.5	713.4	707.6	708.5	717.3	723.1	727.9
45°	659.2	665.0	667.9	677.6	671.8	677.6	671.8	673.7	682.4	691.1	696.9
47.5°	621.4	627.2	632.1	639.8	635.0	639.8	636.0	638.9	649.5	658.2	666.0
50°	583.7	589.5	594.3	601.1	596.3	603.0	598.2	602.1	615.6	624.3	633.0
52.5°	545.0	549.8	557.5	561.4	557.5	565.3	561.4	567.2	580.8	591.4	601.1
55°	506.2	511.1	518.8	521.7	517.9	526.6	523.7	531.4	545.9	557.5	568.2
57.5°	466.6	471.4	478.2	481.1	478.2	487.9	486.9	495.6	510.1	522.7	534.3
60°	425.9	430.7	436.6	439.5	439.5	449.1	449.1	459.8	475.3	486.9	500.4
62.5°	386.2	389.1	394.9	398.8	401.7	411.4	411.4	423.0	439.5	453.0	466.6
65°	344.6	347.5	352.3	357.2	362.0	372.7	373.6	386.2	402.7	416.2	431.7
67.5°	303.0	305.9	310.7	316.5	323.3	333.9	335.9	349.4	366.9	382.3	396.9
70°	262.3	263.3	269.1	276.8	284.6	295.2	298.1	312.7	331.0	346.5	362.0
72.5°	221.7	222.6	228.4	238.1	246.8	258.4	262.3	277.8	296.2	311.7	327.2
75°	181.0	182.0	189.7	201.3	211.0	221.7	226.5	243.0	261.3	277.8	295.2
77.5°	142.3	144.2	152.0	163.6	175.2	187.8	192.6	209.1	229.4	244.9	261.3
80°	106.5	108.4	117.1	129.7	142.3	153.9	159.7	176.2	197.5	213.0	231.3
82.5°	73.6	76.5	87.1	100.7	113.3	125.8	131.6	147.1	166.5	183.9	201.3
85°	45.5	49.4	60.0	74.5	88.1	99.7	105.5	122.0	140.4	156.8	173.3
87.5°	21.3	27.1	37.8	52.3	66.8	76.5	83.2	99.7	117.1	133.6	150.0
90°	0.0	8.7	19.4	33.9	48.4	57.1	64.9	80.3	97.8	113.3	128.7
92.5°	1.9	9.7	21.3	34.8	49.4	58.1	65.8	81.3	97.8	113.3	128.7
95°	4.8	10.6	22.3	36.8	51.3	60.0	66.8	82.3	98.7	114.2	128.7
97.5°	8.7	13.6	25.2	38.7	53.2	61.0	68.7	84.2	99.7	115.2	129.7
100°	11.6	15.5	27.1	40.7	55.2	62.9	70.7	85.2	100.7	116.2	129.7
102.5°	14.5	19.4	30.0	42.6	57.1	64.9	71.6	86.1	101.6	116.2	129.7
105°	18.4	22.3	31.9	45.5	59.0	66.8	73.6	88.1	102.6	117.1	129.7
107.5°	22.3	25.2	34.8	47.4	61.0	67.8	74.5	89.1	103.6	117.1	129.7
110°	27.1	29.0	37.8	49.4	61.9	69.7	76.5	90.0	103.6	117.1	129.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	31.9	31.9	40.7	51.3	63.9	70.7	77.4	91.0	104.5	117.1	129.7
115°	35.8	36.8	43.6	53.2	65.8	72.6	78.4	91.0	104.5	117.1	128.7
117.5°	40.7	40.7	47.4	55.2	66.8	73.6	80.3	92.0	104.5	116.2	127.8
120°	45.5	44.5	50.3	58.1	68.7	74.5	81.3	92.9	104.5	116.2	126.8
122.5°	50.3	48.4	52.3	60.0	69.7	76.5	81.3	92.9	104.5	115.2	125.8
125°	54.2	52.3	55.2	62.9	71.6	77.4	82.3	92.9	104.5	114.2	124.9
127.5°	58.1	56.1	59.0	64.9	72.6	77.4	83.2	92.9	104.5	113.3	122.9
130°	61.9	59.0	62.9	66.8	74.5	78.4	83.2	92.9	103.6	112.3	121.0
132.5°	64.9	61.9	65.8	68.7	75.5	79.4	84.2	92.9	102.6	111.3	120.0
135°	66.8	63.9	68.7	70.7	77.4	81.3	85.2	92.9	101.6	110.3	118.1
137.5°	68.7	64.9	70.7	72.6	78.4	82.3	85.2	92.0	100.7	108.4	116.2
140°	69.7	66.8	72.6	74.5	77.4	81.3	85.2	91.0	98.7	106.5	113.3
142.5°	70.7	66.8	73.6	75.5	77.4	80.3	84.2	89.1	96.8	103.6	110.3
145°	70.7	67.8	73.6	75.5	77.4	79.4	82.3	88.1	93.9	99.7	106.5
147.5°	70.7	68.7	74.5	76.5	78.4	78.4	80.3	86.1	91.0	96.8	102.6
150°	71.6	68.7	74.5	76.5	79.4	79.4	80.3	83.2	89.1	92.9	97.8
152.5°	70.7	69.7	73.6	77.4	79.4	80.3	80.3	81.3	86.1	90.0	93.9
155°	71.6	71.6	74.5	79.4	80.3	80.3	81.3	80.3	82.3	86.1	90.0
157.5°	73.6	75.5	75.5	80.3	82.3	82.3	83.2	82.3	81.3	82.3	86.1
160°	76.5	78.4	78.4	81.3	84.2	84.2	85.2	84.2	83.2	82.3	82.3
162.5°	79.4	81.3	81.3	82.3	85.2	86.1	87.1	86.1	85.2	83.2	82.3
165°	82.3	84.2	84.2	84.2	86.1	87.1	88.1	87.1	87.1	85.2	84.2
167.5°	85.2	87.1	87.1	86.1	87.1	88.1	89.1	88.1	88.1	87.1	85.2
170°	88.1	90.0	90.0	88.1	89.1	89.1	90.0	89.1	89.1	87.1	86.1
172.5°	90.0	92.0	91.0	90.0	90.0	90.0	90.0	89.1	88.1	86.1	86.1
175°	91.0	92.9	92.9	91.0	90.0	90.0	91.0	89.1	88.1	87.1	85.2
177.5°	91.0	92.9	92.9	91.0	91.0	90.0	91.0	90.0	90.0	88.1	86.1
180°	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9
2.5°	1056.0	1055.1	1049.3	1056.0	1056.0	1054.1	1061.9	1060.9	1059.9	1058.0
5°	1052.2	1051.2	1045.4	1052.2	1052.2	1051.2	1059.0	1059.9	1060.9	1059.0
7.5°	1046.4	1045.4	1039.6	1046.4	1046.4	1045.4	1054.1	1055.1	1056.0	1053.1
10°	1037.7	1036.7	1030.9	1037.7	1038.6	1037.7	1044.4	1045.4	1047.3	1043.5
12.5°	1026.0	1026.0	1020.2	1027.0	1028.0	1027.0	1033.8	1035.7	1037.7	1032.8
15°	1011.5	1012.5	1007.6	1014.4	1015.4	1015.4	1022.2	1023.1	1026.0	1019.3
17.5°	994.1	996.0	992.2	998.9	999.9	1000.9	1004.7	1007.6	1010.6	1002.8
20°	975.7	976.7	973.8	979.6	981.5	980.5	985.4	989.3	992.2	984.4
22.5°	953.4	954.4	951.5	957.3	959.3	960.2	964.1	968.9	970.9	964.1
25°	928.3	932.1	930.2	936.0	938.0	938.0	941.8	946.7	949.6	939.9
27.5°	904.1	908.9	907.0	912.8	914.7	915.7	917.6	923.4	926.3	917.6
30°	877.0	882.8	881.8	887.6	889.6	888.6	892.5	898.3	902.1	892.5
32.5°	847.0	854.7	853.7	861.5	863.4	864.4	867.3	875.0	878.9	870.2
35°	817.9	826.6	827.6	836.3	839.2	840.2	844.1	851.8	855.7	847.0
37.5°	787.9	799.5	802.4	811.2	814.1	815.0	818.9	827.6	831.5	822.8
40°	758.9	772.4	776.3	784.0	787.0	789.9	792.8	801.5	806.3	797.6
42.5°	729.8	744.4	749.2	756.9	759.9	762.8	766.6	776.3	780.2	772.4
45°	699.8	715.3	721.1	728.9	732.7	735.7	739.5	748.2	753.1	745.3
47.5°	669.8	685.3	691.1	699.8	703.7	707.6	710.5	721.1	726.0	718.2
50°	637.9	655.3	662.1	669.8	675.6	678.5	682.4	692.1	696.9	690.2
52.5°	605.9	624.3	632.1	639.8	645.6	650.5	652.4	663.1	667.9	661.1
55°	573.0	591.4	600.1	608.8	614.7	620.5	622.4	633.0	637.9	628.2
57.5°	540.1	559.5	568.2	577.9	582.7	589.5	592.4	602.1	606.9	600.1
60°	507.2	525.6	536.3	545.0	551.7	557.5	559.5	570.1	575.0	566.3
62.5°	473.3	492.7	503.3	513.0	518.8	525.6	528.5	538.2	542.1	533.3
65°	438.5	457.8	469.5	478.2	485.9	491.7	493.7	504.3	508.2	499.5
67.5°	403.6	423.0	435.6	445.3	452.0	458.8	460.8	471.4	475.3	468.5
70°	369.8	389.1	401.7	413.3	418.2	424.9	427.8	437.5	441.4	435.6
72.5°	335.9	355.2	368.8	380.4	385.2	392.0	395.9	403.6	409.4	404.6
75°	303.0	322.3	335.9	347.5	352.3	359.1	363.0	370.7	374.6	370.7
77.5°	271.0	290.4	303.0	314.6	320.4	326.2	330.1	337.8	342.7	338.8
80°	240.1	259.4	272.0	282.6	288.5	294.3	298.1	306.8	310.7	307.8
82.5°	211.0	229.4	243.0	253.6	259.4	265.2	269.1	276.8	281.7	277.8
85°	184.9	203.3	215.9	226.5	231.3	237.2	241.0	248.8	252.6	250.7
87.5°	159.7	176.2	190.7	201.3	206.2	212.0	216.8	222.6	227.5	224.6
90°	140.4	154.9	168.4	179.1	184.9	190.7	196.5	202.3	206.2	204.2
92.5°	141.3	154.9	167.5	177.1	182.9	188.8	194.6	201.3	204.2	202.3
95°	141.3	154.9	167.5	177.1	182.9	188.8	194.6	201.3	204.2	202.3
97.5°	141.3	154.9	167.5	177.1	182.9	188.8	194.6	201.3	204.2	201.3
100°	141.3	154.9	167.5	177.1	182.9	187.8	193.6	200.4	203.3	201.3
102.5°	141.3	154.9	166.5	176.2	182.0	186.8	192.6	199.4	202.3	200.4
105°	141.3	153.9	166.5	175.2	181.0	185.8	191.7	197.5	200.4	198.4
107.5°	140.4	152.9	164.6	174.2	179.1	183.9	189.7	195.5	198.4	196.5
110°	140.4	152.0	163.6	172.3	177.1	182.0	187.8	193.6	196.5	194.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	139.4	151.0	162.6	170.4	175.2	180.0	184.9	191.7	194.6	192.6
115°	138.4	150.0	160.7	168.4	173.3	177.1	182.9	189.7	191.7	190.7
117.5°	137.5	148.1	158.7	166.5	171.3	175.2	180.0	185.8	188.8	187.8
120°	136.5	146.2	156.8	163.6	168.4	172.3	176.2	182.0	184.9	182.9
122.5°	134.5	144.2	154.9	161.6	165.5	169.4	173.3	178.1	181.0	180.0
125°	132.6	142.3	152.0	158.7	162.6	165.5	169.4	174.2	176.2	175.2
127.5°	130.7	140.4	149.1	154.9	159.7	162.6	165.5	170.4	172.3	171.3
130°	128.7	137.5	146.2	152.0	155.8	158.7	161.6	166.5	167.5	167.5
132.5°	126.8	134.5	143.3	149.1	152.9	154.9	157.8	161.6	163.6	162.6
135°	124.9	131.6	140.4	145.2	148.1	151.0	153.9	157.8	158.7	158.7
137.5°	122.0	128.7	136.5	141.3	144.2	146.2	149.1	152.9	153.9	153.9
140°	119.1	125.8	132.6	136.5	140.4	142.3	144.2	148.1	149.1	149.1
142.5°	116.2	122.0	128.7	132.6	136.5	137.5	140.4	143.3	144.2	144.2
145°	112.3	119.1	124.9	128.7	131.6	132.6	135.5	138.4	138.4	139.4
147.5°	107.4	113.3	121.0	123.9	126.8	127.8	130.7	132.6	133.6	133.6
150°	102.6	108.4	115.2	120.0	122.9	123.9	124.9	127.8	127.8	128.7
152.5°	97.8	102.6	109.4	114.2	118.1	119.1	120.0	122.0	122.0	122.9
155°	92.9	96.8	102.6	107.4	111.3	113.3	115.2	117.1	117.1	118.1
157.5°	89.1	92.9	97.8	101.6	104.5	107.4	110.3	112.3	112.3	112.3
160°	84.2	87.1	92.0	94.9	98.7	100.7	105.5	107.4	107.4	108.4
162.5°	81.3	82.3	85.2	88.1	91.0	92.9	97.8	102.6	102.6	103.6
165°	82.3	81.3	82.3	83.2	85.2	86.1	89.1	95.8	97.8	98.7
167.5°	84.2	81.3	81.3	81.3	83.2	83.2	86.1	90.0	96.8	94.9
170°	84.2	81.3	79.4	79.4	80.3	79.4	81.3	84.2	88.1	92.0
172.5°	85.2	82.3	79.4	75.5	76.5	75.5	73.6	73.6	74.5	87.1
175°	84.2	82.3	78.4	73.6	72.6	69.7	63.9	59.0	56.1	43.6
177.5°	83.2	80.3	77.4	73.6	71.6	68.7	61.9	54.2	46.5	44.5
180°	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4



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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	14.70	16.02	15.32	16.66	17.38	17.25	18.57	17.87	19.21	19.93
	3H	16.11	17.31	16.74	17.95	18.71	19.68	20.88	20.31	21.52	22.28
	4H	16.54	17.67	17.18	18.33	19.10	20.82	21.96	21.47	22.62	23.38
	6H	16.77	17.83	17.44	18.50	19.28	21.96	23.02	22.62	23.68	24.47
	8H	16.82	17.83	17.49	18.52	19.30	22.52	23.53	23.19	24.22	25.01
	12H	16.83	17.80	17.51	18.48	19.29	23.10	24.07	23.78	24.75	25.57
4H	2H	15.59	16.73	16.24	17.38	18.15	17.60	18.74	18.25	19.40	20.16
	3H	17.22	18.18	17.88	18.88	19.66	20.23	21.20	20.90	21.89	22.68
	4H	17.77	18.66	18.45	19.35	20.17	21.52	22.41	22.20	23.11	23.92
	6H	18.11	18.89	18.81	19.61	20.44	22.84	23.61	23.53	24.34	25.16
	8H	18.19	18.92	18.89	19.64	20.48	23.49	24.22	24.20	24.94	25.78
	12H	18.22	18.88	18.94	19.62	20.47	24.19	24.86	24.92	25.60	26.45
8H	4H	18.42	19.15	19.12	19.87	20.71	21.68	22.41	22.38	23.13	23.97
	6H	18.92	19.54	19.66	20.30	21.15	23.13	23.75	23.87	24.51	25.35
	8H	19.08	19.64	19.82	20.40	21.25	23.91	24.47	24.66	25.23	26.09
	12H	19.17	19.66	19.92	20.42	21.33	24.77	25.27	25.52	26.02	26.94
12H	4H	18.58	19.25	19.31	19.99	20.84	21.67	22.33	22.39	23.07	23.92
	6H	19.18	19.74	19.93	20.50	21.36	23.15	23.71	23.89	24.47	25.33
	8H	19.42	19.91	20.16	20.66	21.58	23.98	24.48	24.73	25.23	26.14