

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: P894998

Luminaire Tested: 8TMB-4SL-FLTU-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894998
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: 8TMB-4SL-FLTU-UNV-L835
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 350
Light Source: -
Ballast/Driver: -

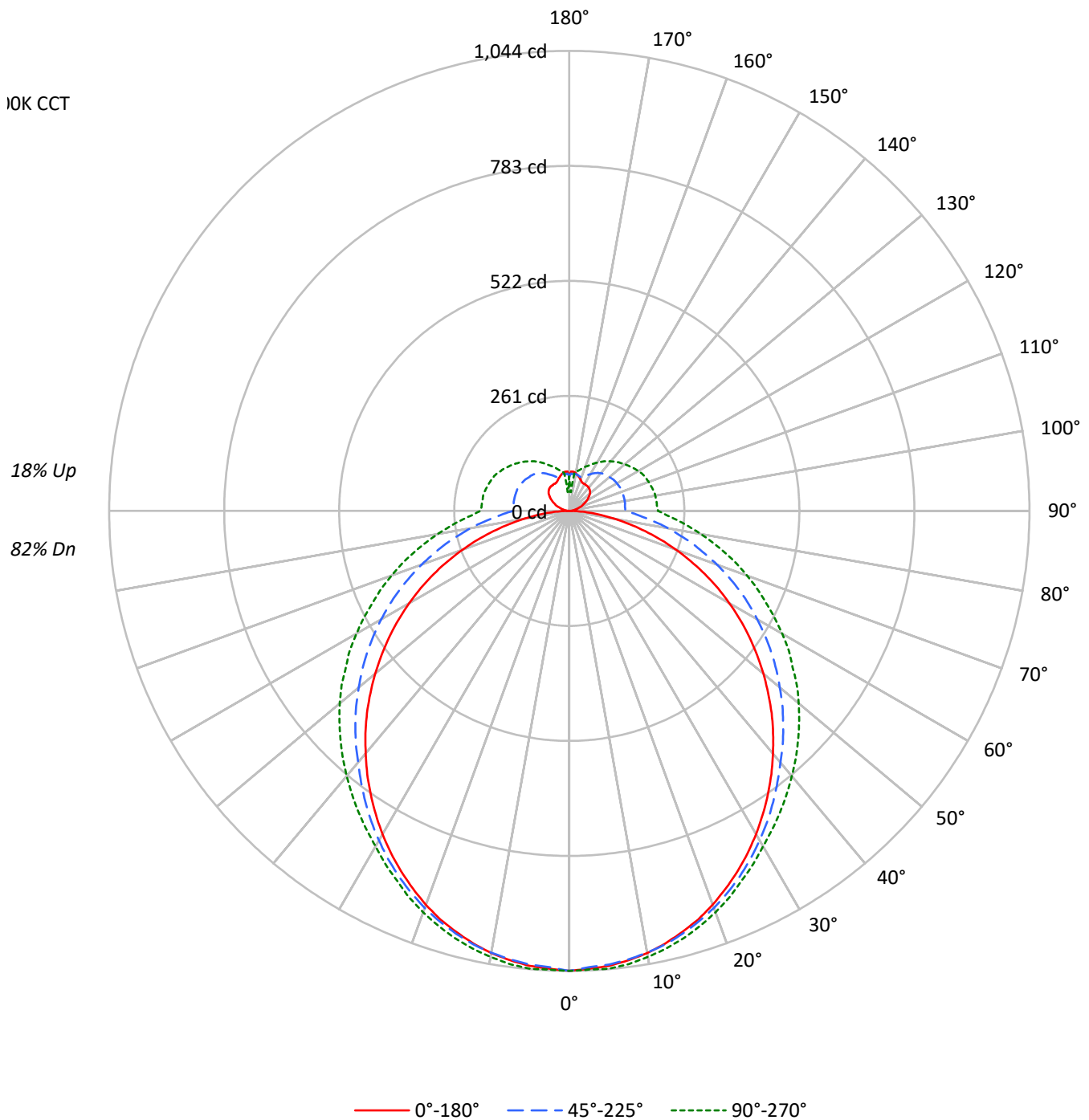
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3946.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
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			
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
RCR																				
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	82	
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	66	
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	54	
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	45	
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	38	
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	32	
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	28	
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	25	
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	22	
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	20	
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	18	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3704	3704	3704
5°	3682	3554	3544
10°	3655	3423	3376
15°	3609	3291	3215
20°	3558	3155	3052
25°	3492	3012	2886
30°	3420	2866	2736
35°	3341	2720	2611
40°	3257	2575	2492
45°	3174	2449	2379
50°	3077	2319	2270
55°	2973	2191	2147
60°	2847	2053	2030
65°	2698	1908	1899
70°	2500	1748	1776
75°	2227	1585	1644
80°	1867	1410	1508
85°	1405	1232	1384

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3174 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	2.5
10°-20°	281.5	7.1
20°-30°	423.0	10.7
30°-40°	507.9	12.9
40°-50°	534.0	13.5
50°-60°	501.8	12.7
60°-70°	417.2	10.6
70°-80°	297.7	7.5
80°-90°	177.2	4.5
90°-100°	128.3	3.3
100°-110°	126.6	3.2
110°-120°	118.9	3.0
120°-130°	105.4	2.7
130°-140°	87.3	2.2
140°-150°	65.4	1.7
150°-160°	43.0	1.1
160°-170°	24.4	0.6
170°-180°	7.8	0.2
0°-30°	803.2	20.4
0°-40°	1311.1	33.2
0°-60°	2346.9	59.5
0°-90°	3239.1	82.1
90°-120°	373.8	9.5
90°-150°	631.8	16.0
90°-180°	707.0	17.9
0°-180°	3946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1036	1048	1033	1036	1043	98
15°	989	1005	993	1000	1004	279
25°	903	920	915	924	926	416
35°	786	804	806	826	834	491
45°	649	667	686	722	734	500
55°	498	519	560	605	619	445
65°	339	367	425	478	492	336
75°	178	218	291	347	365	189
85°	45	98	171	228	247	49
90°	0	56	127	182	201	3
95°	5	59	127	180	199	5
105°	18	66	128	178	195	19
115°	35	72	127	171	188	35
125°	53	76	123	160	172	48
135°	66	80	116	146	156	51
145°	70	78	105	130	137	44
155°	70	79	89	110	116	33
165°	81	86	83	84	97	23
175°	90	89	84	72	43	8
180°	78	78	78	78	78	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8
2.5°	1040.0	1042.8	1043.8	1053.3	1049.5	1053.3	1046.6	1039.0	1037.1	1041.9	1036.2
5°	1036.2	1039.0	1040.0	1049.5	1045.7	1048.5	1042.8	1035.2	1033.3	1039.0	1033.3
7.5°	1028.5	1031.4	1032.3	1042.8	1038.1	1041.9	1035.2	1027.6	1026.6	1032.3	1026.6
10°	1019.0	1021.9	1022.8	1032.3	1028.5	1032.3	1025.7	1018.0	1017.1	1023.8	1018.0
12.5°	1005.7	1008.5	1010.4	1020.0	1015.2	1020.0	1012.3	1004.7	1005.7	1011.4	1007.6
15°	989.4	993.3	994.2	1003.7	999.9	1004.7	997.1	989.4	991.4	997.1	993.3
17.5°	972.3	976.1	977.1	985.6	981.8	987.5	979.0	972.3	974.2	979.9	977.1
20°	951.3	955.1	957.0	965.6	961.8	967.5	958.9	953.2	955.1	961.8	958.9
22.5°	927.5	933.2	934.2	943.7	938.9	944.6	936.1	931.3	934.2	940.8	938.0
25°	902.7	908.4	909.4	918.9	915.1	919.9	911.3	906.5	910.3	917.0	915.1
27.5°	876.0	881.7	883.6	892.2	888.4	894.1	884.6	881.7	885.5	892.2	890.3
30°	847.4	853.1	854.1	862.7	859.8	865.5	857.0	853.1	858.9	865.5	863.6
32.5°	816.9	822.6	825.5	833.1	830.3	835.0	827.4	825.5	830.3	836.9	836.0
35°	785.5	791.2	794.0	802.6	798.8	803.6	795.9	794.0	801.7	806.4	806.4
37.5°	753.0	758.8	761.6	770.2	765.4	771.2	763.5	762.6	771.2	775.9	775.9
40°	718.7	725.4	728.3	735.9	732.1	736.8	730.2	731.1	738.8	744.5	745.4
42.5°	684.4	691.1	693.9	702.5	697.8	702.5	696.8	697.8	706.3	712.1	716.8
45°	649.1	654.9	657.7	667.3	661.5	667.3	661.5	663.4	672.0	680.6	686.3
47.5°	612.0	617.7	622.5	630.1	625.3	630.1	626.3	629.1	639.6	648.2	655.8
50°	574.8	580.5	585.3	592.0	587.2	593.9	589.1	592.9	606.3	614.8	623.4
52.5°	536.7	541.4	549.1	552.9	549.1	556.7	552.9	558.6	571.9	582.4	592.0
55°	498.5	503.3	510.9	513.8	510.0	518.6	515.7	523.3	537.6	549.1	559.5
57.5°	459.5	464.2	470.9	473.8	470.9	480.4	479.5	488.1	502.4	514.7	526.2
60°	419.4	424.2	429.9	432.8	432.8	442.3	442.3	452.8	468.0	479.5	492.8
62.5°	380.3	383.2	388.9	392.7	395.6	405.1	405.1	416.6	432.8	446.1	459.5
65°	339.3	342.2	347.0	351.7	356.5	367.0	367.9	380.3	396.5	409.9	425.1
67.5°	298.4	301.2	306.0	311.7	318.4	328.9	330.8	344.1	361.3	376.5	390.8
70°	258.3	259.3	265.0	272.6	280.2	290.7	293.6	307.9	326.0	341.3	356.5
72.5°	218.3	219.2	225.0	234.5	243.1	254.5	258.3	273.6	291.7	306.9	322.2
75°	178.3	179.2	186.8	198.3	207.8	218.3	223.1	239.3	257.4	273.6	290.7
77.5°	140.1	142.0	149.7	161.1	172.5	184.9	189.7	205.9	225.9	241.2	257.4
80°	104.9	106.8	115.3	127.7	140.1	151.6	157.3	173.5	194.5	209.7	227.8
82.5°	72.4	75.3	85.8	99.1	111.5	123.9	129.6	144.9	164.0	181.1	198.3
85°	44.8	48.6	59.1	73.4	86.7	98.2	103.9	120.1	138.2	154.4	170.6
87.5°	21.0	26.7	37.2	51.5	65.8	75.3	82.0	98.2	115.3	131.5	147.8
90°	0.0	8.6	19.1	33.4	47.7	56.2	63.9	79.1	96.3	111.5	126.8
92.5°	1.9	9.5	21.0	34.3	48.6	57.2	64.8	80.1	96.3	111.5	126.8
95°	4.8	10.5	21.9	36.2	50.5	59.1	65.8	81.0	97.2	112.5	126.8
97.5°	8.6	13.3	24.8	38.1	52.4	60.1	67.7	82.9	98.2	113.4	127.7
100°	11.4	15.3	26.7	40.0	54.3	62.0	69.6	83.9	99.1	114.4	127.7
102.5°	14.3	19.1	29.6	41.9	56.2	63.9	70.5	84.8	100.1	114.4	127.7
105°	18.1	21.9	31.5	44.8	58.1	65.8	72.4	86.7	101.0	115.3	127.7
107.5°	21.9	24.8	34.3	46.7	60.1	66.7	73.4	87.7	102.0	115.3	127.7
110°	26.7	28.6	37.2	48.6	61.0	68.6	75.3	88.7	102.0	115.3	127.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	31.5	31.5	40.0	50.5	62.9	69.6	76.3	89.6	102.9	115.3	127.7
115°	35.3	36.2	42.9	52.4	64.8	71.5	77.2	89.6	102.9	115.3	126.8
117.5°	40.0	40.0	46.7	54.3	65.8	72.4	79.1	90.6	102.9	114.4	125.8
120°	44.8	43.8	49.6	57.2	67.7	73.4	80.1	91.5	102.9	114.4	124.9
122.5°	49.6	47.7	51.5	59.1	68.6	75.3	80.1	91.5	102.9	113.4	123.9
125°	53.4	51.5	54.3	62.0	70.5	76.3	81.0	91.5	102.9	112.5	123.0
127.5°	57.2	55.3	58.1	63.9	71.5	76.3	82.0	91.5	102.9	111.5	121.1
130°	61.0	58.1	62.0	65.8	73.4	77.2	82.0	91.5	102.0	110.6	119.2
132.5°	63.9	61.0	64.8	67.7	74.4	78.2	82.9	91.5	101.0	109.6	118.2
135°	65.8	62.9	67.7	69.6	76.3	80.1	83.9	91.5	100.1	108.7	116.3
137.5°	67.7	63.9	69.6	71.5	77.2	81.0	83.9	90.6	99.1	106.8	114.4
140°	68.6	65.8	71.5	73.4	76.3	80.1	83.9	89.6	97.2	104.9	111.5
142.5°	69.6	65.8	72.4	74.4	76.3	79.1	82.9	87.7	95.3	102.0	108.7
145°	69.6	66.7	72.4	74.4	76.3	78.2	81.0	86.7	92.5	98.2	104.9
147.5°	69.6	67.7	73.4	75.3	77.2	77.2	79.1	84.8	89.6	95.3	101.0
150°	70.5	67.7	73.4	75.3	78.2	78.2	79.1	82.0	87.7	91.5	96.3
152.5°	69.6	68.6	72.4	76.3	78.2	79.1	79.1	80.1	84.8	88.7	92.5
155°	70.5	70.5	73.4	78.2	79.1	79.1	80.1	79.1	81.0	84.8	88.7
157.5°	72.4	74.4	74.4	79.1	81.0	81.0	82.0	81.0	80.1	81.0	84.8
160°	75.3	77.2	77.2	80.1	82.9	82.9	83.9	82.9	82.0	81.0	81.0
162.5°	78.2	80.1	80.1	81.0	83.9	84.8	85.8	84.8	83.9	82.0	81.0
165°	81.0	82.9	82.9	82.9	84.8	85.8	86.7	85.8	85.8	83.9	82.9
167.5°	83.9	85.8	85.8	84.8	85.8	86.7	87.7	86.7	86.7	85.8	83.9
170°	86.7	88.7	88.7	86.7	87.7	87.7	88.7	87.7	87.7	85.8	84.8
172.5°	88.7	90.6	89.6	88.7	88.7	88.7	88.7	87.7	86.7	84.8	84.8
175°	89.6	91.5	91.5	89.6	88.7	88.7	89.6	87.7	86.7	85.8	83.9
177.5°	89.6	91.5	91.5	89.6	89.6	88.7	89.6	88.7	88.7	86.7	84.8
180°	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8
2.5°	1040.0	1039.0	1033.3	1040.0	1040.0	1038.1	1045.7	1044.7	1043.8	1041.9
5°	1036.2	1035.2	1029.5	1036.2	1036.2	1035.2	1042.8	1043.8	1044.7	1042.8
7.5°	1030.4	1029.5	1023.8	1030.4	1030.4	1029.5	1038.1	1039.0	1040.0	1037.1
10°	1021.9	1020.9	1015.2	1021.9	1022.8	1021.9	1028.5	1029.5	1031.4	1027.6
12.5°	1010.4	1010.4	1004.7	1011.4	1012.3	1011.4	1018.0	1020.0	1021.9	1017.1
15°	996.1	997.1	992.3	999.0	999.9	999.9	1006.6	1007.6	1010.4	1003.7
17.5°	979.0	980.9	977.1	983.7	984.7	985.6	989.4	992.3	995.2	987.5
20°	960.9	961.8	958.9	964.7	966.6	965.6	970.4	974.2	977.1	969.4
22.5°	938.9	939.9	937.0	942.7	944.6	945.6	949.4	954.2	956.1	949.4
25°	914.1	918.0	916.1	921.8	923.7	923.7	927.5	932.3	935.1	925.6
27.5°	890.3	895.1	893.2	898.9	900.8	901.8	903.7	909.4	912.2	903.7
30°	863.6	869.3	868.4	874.1	876.0	875.1	878.9	884.6	888.4	878.9
32.5°	834.1	841.7	840.7	848.4	850.3	851.2	854.1	861.7	865.5	857.0
35°	805.5	814.1	815.0	823.6	826.4	827.4	831.2	838.8	842.7	834.1
37.5°	775.9	787.4	790.2	798.8	801.7	802.6	806.4	815.0	818.8	810.2
40°	747.3	760.7	764.5	772.1	775.0	777.8	780.7	789.3	794.0	785.5
42.5°	718.7	733.0	737.8	745.4	748.3	751.1	755.0	764.5	768.3	760.7
45°	689.2	704.4	710.2	717.8	721.6	724.5	728.3	736.8	741.6	734.0
47.5°	659.6	674.9	680.6	689.2	693.0	696.8	699.7	710.2	714.9	707.3
50°	628.2	645.3	652.0	659.6	665.4	668.2	672.0	681.6	686.3	679.7
52.5°	596.7	614.8	622.5	630.1	635.8	640.6	642.5	653.0	657.7	651.1
55°	564.3	582.4	591.0	599.6	605.3	611.0	612.9	623.4	628.2	618.6
57.5°	531.9	551.0	559.5	569.1	573.8	580.5	583.4	592.9	597.7	591.0
60°	499.5	517.6	528.1	536.7	543.3	549.1	551.0	561.5	566.2	557.6
62.5°	466.1	485.2	495.7	505.2	510.9	517.6	520.5	530.0	533.8	525.2
65°	431.8	450.9	462.3	470.9	478.5	484.2	486.1	496.6	500.4	491.9
67.5°	397.5	416.6	429.0	438.5	445.2	451.8	453.7	464.2	468.0	461.4
70°	364.1	383.2	395.6	407.0	411.8	418.5	421.3	430.9	434.7	429.0
72.5°	330.8	349.8	363.2	374.6	379.4	386.1	389.9	397.5	403.2	398.4
75°	298.4	317.4	330.8	342.2	347.0	353.6	357.5	365.1	368.9	365.1
77.5°	266.9	286.0	298.4	309.8	315.5	321.2	325.1	332.7	337.4	333.6
80°	236.4	255.5	267.9	278.3	284.1	289.8	293.6	302.2	306.0	303.1
82.5°	207.8	225.9	239.3	249.7	255.5	261.2	265.0	272.6	277.4	273.6
85°	182.1	200.2	212.6	223.1	227.8	233.5	237.4	245.0	248.8	246.9
87.5°	157.3	173.5	187.8	198.3	203.0	208.8	213.5	219.2	224.0	221.1
90°	138.2	152.5	165.9	176.3	182.1	187.8	193.5	199.2	203.0	201.1
92.5°	139.2	152.5	164.9	174.4	180.2	185.9	191.6	198.3	201.1	199.2
95°	139.2	152.5	164.9	174.4	180.2	185.9	191.6	198.3	201.1	199.2
97.5°	139.2	152.5	164.9	174.4	180.2	185.9	191.6	198.3	201.1	198.3
100°	139.2	152.5	164.9	174.4	180.2	184.9	190.6	197.3	200.2	198.3
102.5°	139.2	152.5	164.0	173.5	179.2	184.0	189.7	196.4	199.2	197.3
105°	139.2	151.6	164.0	172.5	178.3	183.0	188.7	194.5	197.3	195.4
107.5°	138.2	150.6	162.0	171.6	176.3	181.1	186.8	192.6	195.4	193.5
110°	138.2	149.7	161.1	169.7	174.4	179.2	184.9	190.6	193.5	191.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	137.3	148.7	160.1	167.8	172.5	177.3	182.1	188.7	191.6	189.7
115°	136.3	147.8	158.2	165.9	170.6	174.4	180.2	186.8	188.7	187.8
117.5°	135.4	145.8	156.3	164.0	168.7	172.5	177.3	183.0	185.9	184.9
120°	134.4	143.9	154.4	161.1	165.9	169.7	173.5	179.2	182.1	180.2
122.5°	132.5	142.0	152.5	159.2	163.0	166.8	170.6	175.4	178.3	177.3
125°	130.6	140.1	149.7	156.3	160.1	163.0	166.8	171.6	173.5	172.5
127.5°	128.7	138.2	146.8	152.5	157.3	160.1	163.0	167.8	169.7	168.7
130°	126.8	135.4	143.9	149.7	153.5	156.3	159.2	164.0	164.9	164.9
132.5°	124.9	132.5	141.1	146.8	150.6	152.5	155.4	159.2	161.1	160.1
135°	123.0	129.6	138.2	143.0	145.8	148.7	151.6	155.4	156.3	156.3
137.5°	120.1	126.8	134.4	139.2	142.0	143.9	146.8	150.6	151.6	151.6
140°	117.2	123.9	130.6	134.4	138.2	140.1	142.0	145.8	146.8	146.8
142.5°	114.4	120.1	126.8	130.6	134.4	135.4	138.2	141.1	142.0	142.0
145°	110.6	117.2	123.0	126.8	129.6	130.6	133.5	136.3	136.3	137.3
147.5°	105.8	111.5	119.2	122.0	124.9	125.8	128.7	130.6	131.5	131.5
150°	101.0	106.8	113.4	118.2	121.1	122.0	123.0	125.8	125.8	126.8
152.5°	96.3	101.0	107.7	112.5	116.3	117.2	118.2	120.1	120.1	121.1
155°	91.5	95.3	101.0	105.8	109.6	111.5	113.4	115.3	115.3	116.3
157.5°	87.7	91.5	96.3	100.1	102.9	105.8	108.7	110.6	110.6	110.6
160°	82.9	85.8	90.6	93.4	97.2	99.1	103.9	105.8	105.8	106.8
162.5°	80.1	81.0	83.9	86.7	89.6	91.5	96.3	101.0	101.0	102.0
165°	81.0	80.1	81.0	82.0	83.9	84.8	87.7	94.4	96.3	97.2
167.5°	82.9	80.1	80.1	80.1	82.0	82.0	84.8	88.7	95.3	93.4
170°	82.9	80.1	78.2	78.2	79.1	78.2	80.1	82.9	86.7	90.6
172.5°	83.9	81.0	78.2	74.4	75.3	74.4	72.4	72.4	73.4	85.8
175°	82.9	81.0	77.2	72.4	71.5	68.6	62.9	58.1	55.3	42.9
177.5°	82.0	79.1	76.3	72.4	70.5	67.7	61.0	53.4	45.8	43.8
180°	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2



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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	12.26	13.58	12.87	14.21	14.93	14.89	16.21	15.50	16.84	17.56
	3H	13.66	14.86	14.29	15.50	16.26	17.35	18.55	17.98	19.19	19.95
	4H	14.09	15.23	14.74	15.88	16.65	18.52	19.65	19.16	20.31	21.08
	6H	14.32	15.38	14.99	16.05	16.83	19.70	20.75	20.36	21.42	22.20
	8H	14.37	15.38	15.04	16.07	16.85	20.29	21.30	20.96	21.99	22.77
	12H	14.38	15.35	15.06	16.03	16.84	20.92	21.89	21.60	22.57	23.39
4H	2H	13.16	14.30	13.81	14.95	15.72	15.23	16.37	15.88	17.02	17.79
	3H	14.78	15.75	15.44	16.44	17.23	17.89	18.86	18.56	19.55	20.34
	4H	15.34	16.22	16.02	16.92	17.74	19.21	20.09	19.89	20.79	21.61
	6H	15.67	16.45	16.37	17.17	18.00	20.56	21.34	21.26	22.06	22.89
	8H	15.75	16.48	16.45	17.20	18.04	21.25	21.98	21.95	22.70	23.54
	12H	15.78	16.44	16.50	17.19	18.03	22.00	22.67	22.73	23.41	24.26
8H	4H	16.00	16.73	16.70	17.45	18.29	19.36	20.09	20.06	20.81	21.65
	6H	16.50	17.12	17.24	17.88	18.72	20.85	21.47	21.58	22.23	23.07
	8H	16.66	17.21	17.40	17.97	18.83	21.66	22.22	22.41	22.98	23.84
	12H	16.75	17.24	17.50	17.99	18.91	22.57	23.07	23.32	23.82	24.74
12H	4H	16.17	16.83	16.89	17.58	18.42	19.35	20.01	20.07	20.75	21.60
	6H	16.77	17.32	17.51	18.09	18.94	20.87	21.42	21.61	22.19	23.04
	8H	17.00	17.50	17.75	18.25	19.17	21.73	22.22	22.48	22.98	23.89