

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: P894999

Luminaire Tested: 8TMB-4SL-FLTU-UNV-L840

Issue Date: 11/11/2024

**Test Information**

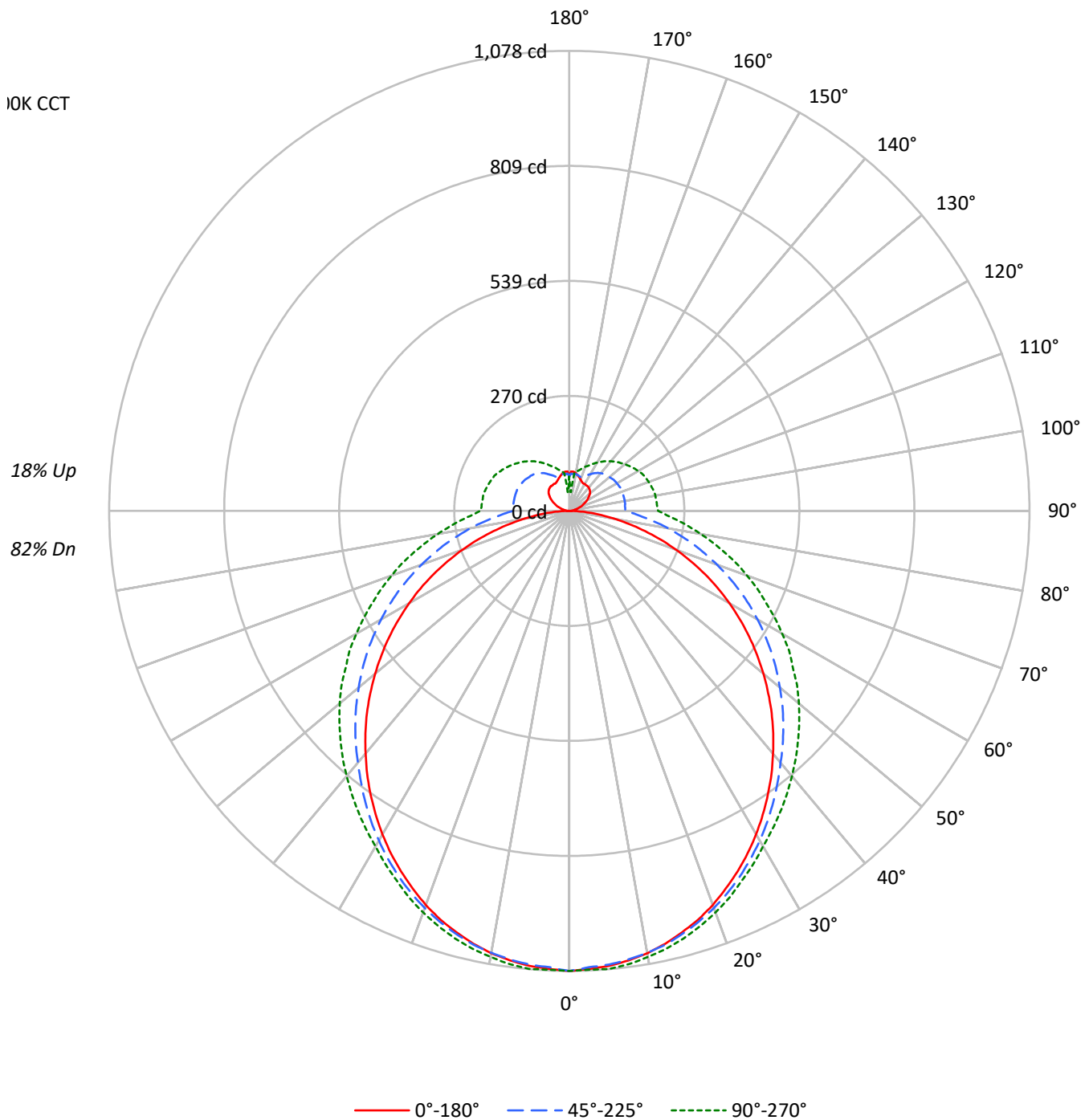
Test Method: LM-79-2019  
Report Number: P894999  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-4SL-FLTU-UNV-L840  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 400  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4076.0 lumens  
Efficiency: N/A  
Efficacy: 147.7 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<sub>in</sub>): 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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CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L840

### 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°	3826	3826	3826
5°	3803	3671	3661
10°	3775	3536	3487
15°	3728	3399	3321
20°	3676	3259	3152
25°	3606	3111	2981
30°	3533	2961	2825
35°	3451	2810	2697
40°	3365	2660	2574
45°	3279	2530	2458
50°	3178	2395	2344
55°	3071	2263	2218
60°	2941	2121	2097
65°	2787	1971	1961
70°	2583	1806	1835
75°	2300	1637	1698
80°	1927	1456	1558
85°	1452	1272	1429

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3279 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.9	2.5
10°-20°	290.8	7.1
20°-30°	436.9	10.7
30°-40°	524.6	12.9
40°-50°	551.6	13.5
50°-60°	518.3	12.7
60°-70°	431.0	10.6
70°-80°	307.5	7.5
80°-90°	183.1	4.5
90°-100°	132.5	3.3
100°-110°	130.7	3.2
110°-120°	122.8	3.0
120°-130°	108.8	2.7
130°-140°	90.2	2.2
140°-150°	67.5	1.7
150°-160°	44.4	1.1
160°-170°	25.2	0.6
170°-180°	8.0	0.2
0°-30°	829.6	20.4
0°-40°	1354.3	33.2
0°-60°	2424.2	59.5
0°-90°	3345.8	82.1
90°-120°	386.1	9.5
90°-150°	652.6	16.0
90°-180°	730.0	17.9
0°-180°	4076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1070	1083	1067	1070	1077	102
15°	1022	1038	1026	1033	1037	288
25°	932	950	945	954	956	430
35°	811	830	833	854	862	508
45°	670	689	709	745	758	517
55°	515	536	578	625	639	460
65°	350	379	439	494	508	347
75°	184	226	300	358	377	196
85°	46	101	176	235	255	51
90°	0	58	131	188	208	3
95°	5	61	131	186	206	6
105°	19	68	132	184	202	20
115°	36	74	131	176	194	36
125°	55	79	127	165	178	49
135°	68	83	120	151	162	52
145°	72	81	108	134	142	45
155°	73	82	92	113	120	34
165°	84	89	86	87	100	24
175°	93	92	87	74	44	9
180°	81	81	81	81	81	



TEST NUMBER: P894999  
 CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2
2.5°	1074.2	1077.2	1078.2	1088.0	1084.1	1088.0	1081.1	1073.2	1071.3	1076.2	1070.3
5°	1070.3	1073.2	1074.2	1084.1	1080.1	1083.1	1077.2	1069.3	1067.3	1073.2	1067.3
7.5°	1062.4	1065.4	1066.4	1077.2	1072.3	1076.2	1069.3	1061.4	1060.4	1066.4	1060.4
10°	1052.6	1055.5	1056.5	1066.4	1062.4	1066.4	1059.5	1051.6	1050.6	1057.5	1051.6
12.5°	1038.8	1041.7	1043.7	1053.6	1048.6	1053.6	1045.7	1037.8	1038.8	1044.7	1040.8
15°	1022.0	1026.0	1027.0	1036.8	1032.9	1037.8	1029.9	1022.0	1024.0	1029.9	1026.0
17.5°	1004.3	1008.3	1009.2	1018.1	1014.2	1020.1	1011.2	1004.3	1006.3	1012.2	1009.2
20°	982.7	986.6	988.6	997.4	993.5	999.4	990.5	984.6	986.6	993.5	990.5
22.5°	958.0	964.0	964.9	974.8	969.9	975.8	966.9	962.0	964.9	971.8	968.9
25°	932.4	938.4	939.3	949.2	945.2	950.2	941.3	936.4	940.3	947.2	945.2
27.5°	904.9	910.8	912.8	921.6	917.7	923.6	913.7	910.8	914.7	921.6	919.6
30°	875.3	881.2	882.2	891.1	888.1	894.0	885.2	881.2	887.2	894.0	892.1
32.5°	843.8	849.7	852.7	860.6	857.6	862.5	854.7	852.7	857.6	864.5	863.5
35°	811.3	817.2	820.2	829.1	825.1	830.0	822.2	820.2	828.1	833.0	833.0
37.5°	777.9	783.8	786.7	795.6	790.7	796.6	788.7	787.7	796.6	801.5	801.5
40°	742.4	749.3	752.3	760.1	756.2	761.1	754.2	755.2	763.1	769.0	770.0
42.5°	707.0	713.9	716.8	725.7	720.7	725.7	719.8	720.7	729.6	735.5	740.4
45°	670.5	676.4	679.4	689.2	683.3	689.2	683.3	685.3	694.2	703.0	708.9
47.5°	632.1	638.0	643.0	650.8	645.9	650.8	646.9	649.9	660.7	669.5	677.4
50°	593.7	599.6	604.6	611.5	606.5	613.4	608.5	612.4	626.2	635.1	643.9
52.5°	554.3	559.3	567.1	571.1	567.1	575.0	571.1	577.0	590.8	601.6	611.5
55°	515.0	519.9	527.8	530.7	526.8	535.6	532.7	540.6	555.3	567.1	578.0
57.5°	474.6	479.5	486.4	489.4	486.4	496.3	495.3	504.1	518.9	531.7	543.5
60°	433.2	438.2	444.1	447.0	447.0	456.9	456.9	467.7	483.5	495.3	509.1
62.5°	392.9	395.8	401.7	405.7	408.6	418.5	418.5	430.3	447.0	460.8	474.6
65°	350.5	353.5	358.4	363.3	368.3	379.1	380.1	392.9	409.6	423.4	439.1
67.5°	308.2	311.1	316.1	322.0	328.9	339.7	341.7	355.5	373.2	388.9	403.7
70°	266.8	267.8	273.7	281.6	289.5	300.3	303.3	318.0	336.7	352.5	368.3
72.5°	225.5	226.5	232.4	242.2	251.1	262.9	266.8	282.6	301.3	317.1	332.8
75°	184.1	185.1	193.0	204.8	214.6	225.5	230.4	247.1	265.9	282.6	300.3
77.5°	144.7	146.7	154.6	166.4	178.2	191.0	195.9	212.7	233.4	249.1	265.9
80°	108.3	110.3	119.1	131.9	144.7	156.6	162.5	179.2	200.9	216.6	235.3
82.5°	74.8	77.8	88.6	102.4	115.2	128.0	133.9	149.7	169.4	187.1	204.8
85°	46.3	50.2	61.0	75.8	89.6	101.4	107.3	124.1	142.8	159.5	176.2
87.5°	21.7	27.6	38.4	53.2	67.9	77.8	84.7	101.4	119.1	135.9	152.6
90°	0.0	8.9	19.7	34.5	49.2	58.1	66.0	81.7	99.4	115.2	131.0
92.5°	2.0	9.8	21.7	35.4	50.2	59.1	67.0	82.7	99.4	115.2	131.0
95°	4.9	10.8	22.6	37.4	52.2	61.0	67.9	83.7	100.4	116.2	131.0
97.5°	8.9	13.8	25.6	39.4	54.2	62.0	69.9	85.7	101.4	117.2	131.9
100°	11.8	15.8	27.6	41.4	56.1	64.0	71.9	86.6	102.4	118.2	131.9
102.5°	14.8	19.7	30.5	43.3	58.1	66.0	72.9	87.6	103.4	118.2	131.9
105°	18.7	22.6	32.5	46.3	60.1	67.9	74.8	89.6	104.4	119.1	131.9
107.5°	22.6	25.6	35.4	48.2	62.0	68.9	75.8	90.6	105.4	119.1	131.9
110°	27.6	29.5	38.4	50.2	63.0	70.9	77.8	91.6	105.4	119.1	131.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	32.5	32.5	41.4	52.2	65.0	71.9	78.8	92.6	106.3	119.1	131.9
115°	36.4	37.4	44.3	54.2	67.0	73.8	79.8	92.6	106.3	119.1	131.0
117.5°	41.4	41.4	48.2	56.1	67.9	74.8	81.7	93.5	106.3	118.2	130.0
120°	46.3	45.3	51.2	59.1	69.9	75.8	82.7	94.5	106.3	118.2	129.0
122.5°	51.2	49.2	53.2	61.0	70.9	77.8	82.7	94.5	106.3	117.2	128.0
125°	55.1	53.2	56.1	64.0	72.9	78.8	83.7	94.5	106.3	116.2	127.0
127.5°	59.1	57.1	60.1	66.0	73.8	78.8	84.7	94.5	106.3	115.2	125.0
130°	63.0	60.1	64.0	67.9	75.8	79.8	84.7	94.5	105.4	114.2	123.1
132.5°	66.0	63.0	67.0	69.9	76.8	80.7	85.7	94.5	104.4	113.2	122.1
135°	67.9	65.0	69.9	71.9	78.8	82.7	86.6	94.5	103.4	112.2	120.1
137.5°	69.9	66.0	71.9	73.8	79.8	83.7	86.6	93.5	102.4	110.3	118.2
140°	70.9	67.9	73.8	75.8	78.8	82.7	86.6	92.6	100.4	108.3	115.2
142.5°	71.9	67.9	74.8	76.8	78.8	81.7	85.7	90.6	98.5	105.4	112.2
145°	71.9	68.9	74.8	76.8	78.8	80.7	83.7	89.6	95.5	101.4	108.3
147.5°	71.9	69.9	75.8	77.8	79.8	79.8	81.7	87.6	92.6	98.5	104.4
150°	72.9	69.9	75.8	77.8	80.7	80.7	81.7	84.7	90.6	94.5	99.4
152.5°	71.9	70.9	74.8	78.8	80.7	81.7	81.7	82.7	87.6	91.6	95.5
155°	72.9	72.9	75.8	80.7	81.7	81.7	82.7	81.7	83.7	87.6	91.6
157.5°	74.8	76.8	76.8	81.7	83.7	83.7	84.7	83.7	82.7	83.7	87.6
160°	77.8	79.8	79.8	82.7	85.7	85.7	86.6	85.7	84.7	83.7	83.7
162.5°	80.7	82.7	82.7	83.7	86.6	87.6	88.6	87.6	86.6	84.7	83.7
165°	83.7	85.7	85.7	85.7	87.6	88.6	89.6	88.6	88.6	86.6	85.7
167.5°	86.6	88.6	88.6	87.6	88.6	89.6	90.6	89.6	89.6	88.6	86.6
170°	89.6	91.6	91.6	89.6	90.6	90.6	91.6	90.6	90.6	88.6	87.6
172.5°	91.6	93.5	92.6	91.6	91.6	91.6	91.6	90.6	89.6	87.6	87.6
175°	92.6	94.5	94.5	92.6	91.6	91.6	92.6	90.6	89.6	88.6	86.6
177.5°	92.6	94.5	94.5	92.6	92.6	91.6	92.6	91.6	91.6	89.6	87.6
180°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2	1078.2
2.5°	1074.2	1073.2	1067.3	1074.2	1074.2	1072.3	1080.1	1079.2	1078.2	1076.2
5°	1070.3	1069.3	1063.4	1070.3	1070.3	1069.3	1077.2	1078.2	1079.2	1077.2
7.5°	1064.4	1063.4	1057.5	1064.4	1064.4	1063.4	1072.3	1073.2	1074.2	1071.3
10°	1055.5	1054.5	1048.6	1055.5	1056.5	1055.5	1062.4	1063.4	1065.4	1061.4
12.5°	1043.7	1043.7	1037.8	1044.7	1045.7	1044.7	1051.6	1053.6	1055.5	1050.6
15°	1028.9	1029.9	1025.0	1031.9	1032.9	1032.9	1039.8	1040.8	1043.7	1036.8
17.5°	1011.2	1013.2	1009.2	1016.1	1017.1	1018.1	1022.0	1025.0	1028.0	1020.1
20°	992.5	993.5	990.5	996.4	998.4	997.4	1002.4	1006.3	1009.2	1001.4
22.5°	969.9	970.8	967.9	973.8	975.8	976.8	980.7	985.6	987.6	980.7
25°	944.3	948.2	946.2	952.1	954.1	954.1	958.0	963.0	965.9	956.1
27.5°	919.6	924.6	922.6	928.5	930.5	931.5	933.4	939.3	942.3	933.4
30°	892.1	898.0	897.0	902.9	904.9	903.9	907.8	913.7	917.7	907.8
32.5°	861.6	869.4	868.4	876.3	878.3	879.3	882.2	890.1	894.0	885.2
35°	832.0	840.9	841.9	850.7	853.7	854.7	858.6	866.5	870.4	861.6
37.5°	801.5	813.3	816.3	825.1	828.1	829.1	833.0	841.9	845.8	836.9
40°	772.0	785.7	789.7	797.6	800.5	803.5	806.4	815.3	820.2	811.3
42.5°	742.4	757.2	762.1	770.0	772.9	775.9	779.8	789.7	793.6	785.7
45°	711.9	727.6	733.6	741.4	745.4	748.3	752.3	761.1	766.0	758.2
47.5°	681.4	697.1	703.0	711.9	715.8	719.8	722.7	733.6	738.5	730.6
50°	648.9	666.6	673.5	681.4	687.3	690.2	694.2	704.0	708.9	702.0
52.5°	616.4	635.1	643.0	650.8	656.7	661.7	663.6	674.5	679.4	672.5
55°	582.9	601.6	610.5	619.3	625.2	631.1	633.1	643.9	648.9	639.0
57.5°	549.4	569.1	578.0	587.8	592.7	599.6	602.6	612.4	617.4	610.5
60°	515.9	534.7	545.5	554.3	561.2	567.1	569.1	579.9	584.9	576.0
62.5°	481.5	501.2	512.0	521.9	527.8	534.7	537.6	547.5	551.4	542.5
65°	446.0	465.7	477.5	486.4	494.3	500.2	502.2	513.0	516.9	508.1
67.5°	410.6	430.3	443.1	452.9	459.8	466.7	468.7	479.5	483.5	476.6
70°	376.1	395.8	408.6	420.4	425.4	432.3	435.2	445.1	449.0	443.1
72.5°	341.7	361.4	375.1	387.0	391.9	398.8	402.7	410.6	416.5	411.6
75°	308.2	327.9	341.7	353.5	358.4	365.3	369.2	377.1	381.1	377.1
77.5°	275.7	295.4	308.2	320.0	325.9	331.8	335.8	343.6	348.6	344.6
80°	244.2	263.9	276.7	287.5	293.4	299.3	303.3	312.1	316.1	313.1
82.5°	214.6	233.4	247.1	258.0	263.9	269.8	273.7	281.6	286.5	282.6
85°	188.1	206.8	219.6	230.4	235.3	241.2	245.2	253.1	257.0	255.0
87.5°	162.5	179.2	194.0	204.8	209.7	215.6	220.6	226.5	231.4	228.4
90°	142.8	157.5	171.3	182.2	188.1	194.0	199.9	205.8	209.7	207.8
92.5°	143.8	157.5	170.3	180.2	186.1	192.0	197.9	204.8	207.8	205.8
95°	143.8	157.5	170.3	180.2	186.1	192.0	197.9	204.8	207.8	205.8
97.5°	143.8	157.5	170.3	180.2	186.1	192.0	197.9	204.8	207.8	204.8
100°	143.8	157.5	170.3	180.2	186.1	191.0	196.9	203.8	206.8	204.8
102.5°	143.8	157.5	169.4	179.2	185.1	190.0	195.9	202.8	205.8	203.8
105°	143.8	156.6	169.4	178.2	184.1	189.0	195.0	200.9	203.8	201.8
107.5°	142.8	155.6	167.4	177.2	182.2	187.1	193.0	198.9	201.8	199.9
110°	142.8	154.6	166.4	175.3	180.2	185.1	191.0	196.9	199.9	197.9





TEST NUMBER: P894999  
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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	141.8	153.6	165.4	173.3	178.2	183.1	188.1	195.0	197.9	195.9
115°	140.8	152.6	163.4	171.3	176.2	180.2	186.1	193.0	195.0	194.0
117.5°	139.8	150.6	161.5	169.4	174.3	178.2	183.1	189.0	192.0	191.0
120°	138.8	148.7	159.5	166.4	171.3	175.3	179.2	185.1	188.1	186.1
122.5°	136.9	146.7	157.5	164.4	168.4	172.3	176.2	181.2	184.1	183.1
125°	134.9	144.7	154.6	161.5	165.4	168.4	172.3	177.2	179.2	178.2
127.5°	132.9	142.8	151.6	157.5	162.5	165.4	168.4	173.3	175.3	174.3
130°	131.0	139.8	148.7	154.6	158.5	161.5	164.4	169.4	170.3	170.3
132.5°	129.0	136.9	145.7	151.6	155.6	157.5	160.5	164.4	166.4	165.4
135°	127.0	133.9	142.8	147.7	150.6	153.6	156.6	160.5	161.5	161.5
137.5°	124.1	131.0	138.8	143.8	146.7	148.7	151.6	155.6	156.6	156.6
140°	121.1	128.0	134.9	138.8	142.8	144.7	146.7	150.6	151.6	151.6
142.5°	118.2	124.1	131.0	134.9	138.8	139.8	142.8	145.7	146.7	146.7
145°	114.2	121.1	127.0	131.0	133.9	134.9	137.8	140.8	140.8	141.8
147.5°	109.3	115.2	123.1	126.0	129.0	130.0	132.9	134.9	135.9	135.9
150°	104.4	110.3	117.2	122.1	125.0	126.0	127.0	130.0	130.0	131.0
152.5°	99.4	104.4	111.3	116.2	120.1	121.1	122.1	124.1	124.1	125.0
155°	94.5	98.5	104.4	109.3	113.2	115.2	117.2	119.1	119.1	120.1
157.5°	90.6	94.5	99.4	103.4	106.3	109.3	112.2	114.2	114.2	114.2
160°	85.7	88.6	93.5	96.5	100.4	102.4	107.3	109.3	109.3	110.3
162.5°	82.7	83.7	86.6	89.6	92.6	94.5	99.4	104.4	104.4	105.4
165°	83.7	82.7	83.7	84.7	86.6	87.6	90.6	97.5	99.4	100.4
167.5°	85.7	82.7	82.7	82.7	84.7	84.7	87.6	91.6	98.5	96.5
170°	85.7	82.7	80.7	80.7	81.7	80.7	82.7	85.7	89.6	93.5
172.5°	86.6	83.7	80.7	76.8	77.8	76.8	74.8	74.8	75.8	88.6
175°	85.7	83.7	79.8	74.8	73.8	70.9	65.0	60.1	57.1	44.3
177.5°	84.7	81.7	78.8	74.8	72.9	69.9	63.0	55.1	47.3	45.3
180°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7



TEST NUMBER: P894999  
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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	12.37	13.69	12.98	14.32	15.04	15.00	16.32	15.61	16.95	17.67
	3H	13.77	14.97	14.40	15.61	16.37	17.46	18.66	18.09	19.30	20.06
	4H	14.20	15.34	14.85	15.99	16.76	18.63	19.77	19.28	20.42	21.19
	6H	14.44	15.49	15.10	16.16	16.94	19.81	20.87	20.47	21.53	22.32
	8H	14.48	15.49	15.15	16.18	16.97	20.40	21.41	21.07	22.10	22.89
	12H	14.49	15.46	15.17	16.14	16.96	21.03	22.00	21.71	22.68	23.50
4H	2H	13.27	14.41	13.92	15.06	15.83	15.34	16.48	15.99	17.13	17.90
	3H	14.89	15.86	15.56	16.55	17.34	18.01	18.97	18.67	19.66	20.45
	4H	15.45	16.33	16.13	17.03	17.85	19.32	20.21	20.00	20.90	21.72
	6H	15.79	16.56	16.48	17.29	18.11	20.67	21.45	21.37	22.17	23.00
	8H	15.86	16.59	16.56	17.31	18.15	21.36	22.09	22.07	22.81	23.65
	12H	15.89	16.56	16.62	17.30	18.14	22.12	22.78	22.84	23.52	24.37
8H	4H	16.11	16.84	16.81	17.56	18.40	19.47	20.20	20.17	20.92	21.76
	6H	16.62	17.23	17.35	17.99	18.84	20.96	21.58	21.70	22.34	23.18
	8H	16.77	17.33	17.51	18.09	18.94	21.77	22.33	22.52	23.09	23.95
	12H	16.86	17.35	17.61	18.11	19.02	22.68	23.18	23.43	23.93	24.85
12H	4H	16.28	16.95	17.01	17.69	18.54	19.46	20.12	20.18	20.87	21.71
	6H	16.88	17.44	17.63	18.20	19.06	20.98	21.54	21.72	22.30	23.16
	8H	17.12	17.61	17.86	18.36	19.28	21.84	22.34	22.59	23.09	24.00