

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: P895407

Luminaire Tested: 8TMB-SC3-FLTU-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895407
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-SC3-FLTU-UNV-CC83-LOW-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

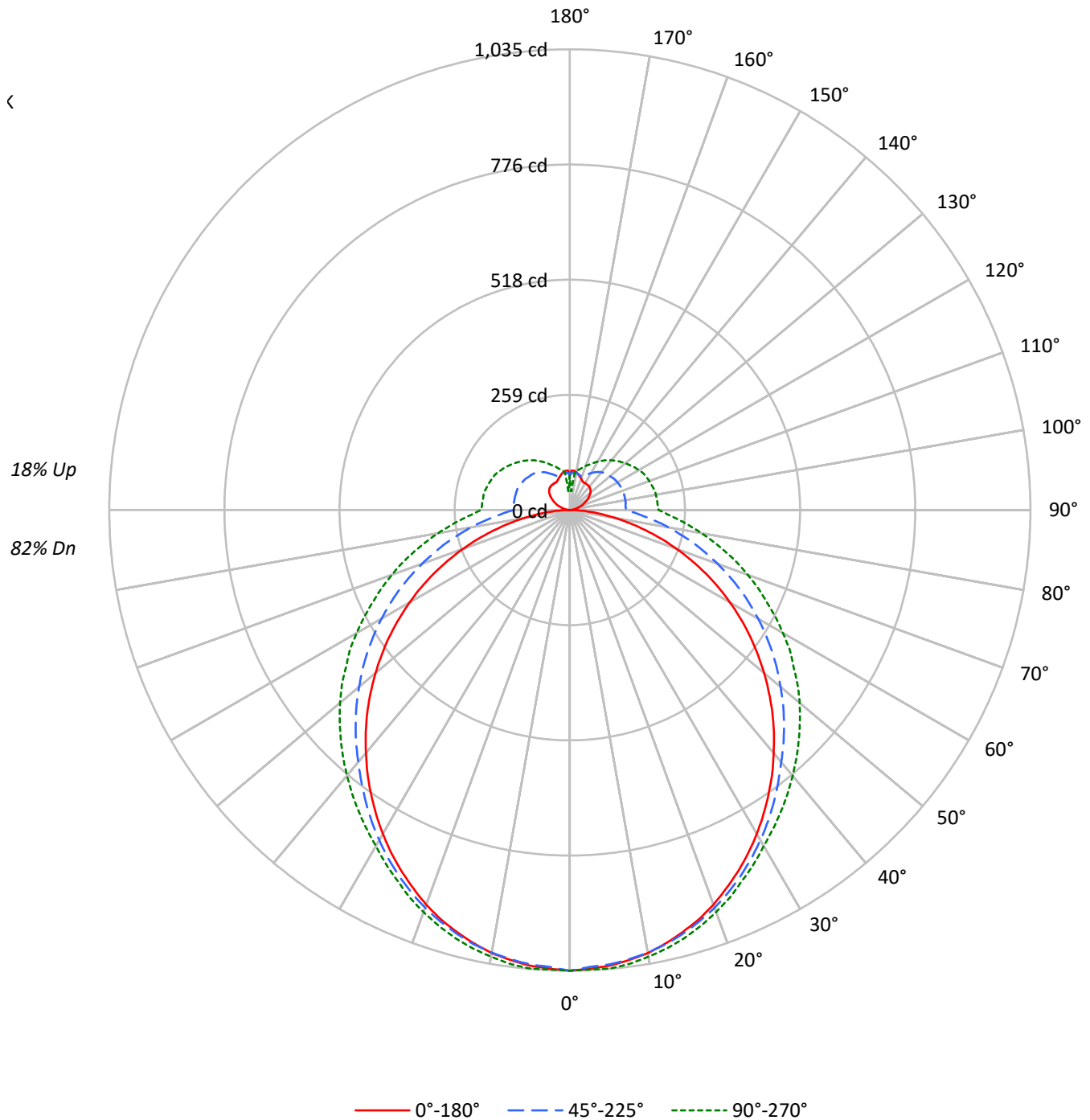
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3913.0 lumens
Efficiency: N/A
Efficacy: 116.8 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): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	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°	3673	3673	3673
5°	3651	3524	3515
10°	3624	3394	3348
15°	3579	3263	3188
20°	3529	3128	3026
25°	3462	2987	2862
30°	3392	2843	2712
35°	3313	2697	2589
40°	3230	2554	2471
45°	3148	2429	2359
50°	3051	2300	2251
55°	2948	2173	2129
60°	2824	2036	2013
65°	2675	1892	1883
70°	2480	1734	1761
75°	2209	1572	1630
80°	1851	1398	1495
85°	1392	1221	1372

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3148 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	2.5
10°-20°	279.2	7.1
20°-30°	419.4	10.7
30°-40°	503.6	12.9
40°-50°	529.6	13.5
50°-60°	497.6	12.7
60°-70°	413.8	10.6
70°-80°	295.2	7.5
80°-90°	175.7	4.5
90°-100°	127.2	3.3
100°-110°	125.5	3.2
110°-120°	117.9	3.0
120°-130°	104.5	2.7
130°-140°	86.6	2.2
140°-150°	64.8	1.7
150°-160°	42.6	1.1
160°-170°	24.2	0.6
170°-180°	7.7	0.2
0°-30°	796.5	20.4
0°-40°	1300.1	33.2
0°-60°	2327.3	59.5
0°-90°	3212.0	82.1
90°-120°	370.7	9.5
90°-150°	626.5	16.0
90°-180°	701.0	17.9
0°-180°	3913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1028	1040	1025	1028	1034	98
15°	981	996	985	992	995	277
25°	895	912	907	916	918	412
35°	779	797	800	820	827	487
45°	644	662	681	716	728	496
55°	494	514	555	600	614	442
65°	336	364	422	474	488	333
75°	177	216	288	344	362	188
85°	44	97	169	226	245	49
90°	0	56	126	180	199	3
95°	5	59	126	179	198	5
105°	18	65	127	177	194	19
115°	35	71	126	169	186	35
125°	53	76	122	159	171	47
135°	65	79	115	145	155	50
145°	69	78	104	129	136	43
155°	70	78	88	109	115	33
165°	80	85	82	83	96	23
175°	89	88	83	71	42	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°	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1
2.5°	1031.3	1034.1	1035.1	1044.5	1040.7	1044.5	1037.9	1030.3	1028.4	1033.2	1027.5
5°	1027.5	1030.3	1031.3	1040.7	1036.9	1039.8	1034.1	1026.5	1024.7	1030.3	1024.7
7.5°	1019.9	1022.8	1023.7	1034.1	1029.4	1033.2	1026.5	1019.0	1018.0	1023.7	1018.0
10°	1010.5	1013.3	1014.3	1023.7	1019.9	1023.7	1017.1	1009.5	1008.6	1015.2	1009.5
12.5°	997.2	1000.1	1002.0	1011.4	1006.7	1011.4	1003.9	996.3	997.2	1002.9	999.1
15°	981.2	985.0	985.9	995.4	991.6	996.3	988.7	981.2	983.1	988.7	985.0
17.5°	964.2	967.9	968.9	977.4	973.6	979.3	970.8	964.2	966.1	971.7	968.9
20°	943.4	947.1	949.0	957.5	953.8	959.4	950.9	945.3	947.1	953.8	950.9
22.5°	919.7	925.4	926.4	935.8	931.1	936.7	928.2	923.5	926.4	933.0	930.1
25°	895.2	900.8	901.8	911.2	907.4	912.2	903.7	898.9	902.7	909.3	907.4
27.5°	868.7	874.4	876.3	884.8	881.0	886.6	877.2	874.4	878.1	884.8	882.9
30°	840.3	846.0	846.9	855.5	852.6	858.3	849.8	846.0	851.7	858.3	856.4
32.5°	810.1	815.8	818.6	826.2	823.3	828.0	820.5	818.6	823.3	829.9	829.0
35°	778.9	784.6	787.4	795.9	792.1	796.9	789.3	787.4	795.0	799.7	799.7
37.5°	746.8	752.4	755.3	763.8	759.0	764.7	757.1	756.2	764.7	769.4	769.4
40°	712.7	719.3	722.2	729.7	726.0	730.7	724.1	725.0	732.6	738.2	739.2
42.5°	678.7	685.3	688.1	696.7	691.9	696.7	691.0	691.9	700.4	706.1	710.8
45°	643.7	649.4	652.2	661.7	656.0	661.7	656.0	657.9	666.4	674.9	680.6
47.5°	606.9	612.5	617.3	624.8	620.1	624.8	621.0	623.9	634.3	642.8	650.3
50°	570.0	575.7	580.4	587.0	582.3	588.9	584.2	587.9	601.2	609.7	618.2
52.5°	532.2	536.9	544.5	548.2	544.5	552.0	548.2	553.9	567.2	577.6	587.0
55°	494.4	499.1	506.7	509.5	505.7	514.2	511.4	518.9	533.1	544.5	554.9
57.5°	455.6	460.3	467.0	469.8	467.0	476.4	475.5	484.0	498.1	510.4	521.8
60°	415.9	420.6	426.3	429.1	429.1	438.6	438.6	449.0	464.1	475.5	488.7
62.5°	377.2	380.0	385.7	389.4	392.3	401.7	401.7	413.1	429.1	442.4	455.6
65°	336.5	339.3	344.1	348.8	353.5	363.9	364.9	377.2	393.2	406.5	421.6
67.5°	295.9	298.7	303.4	309.1	315.7	326.1	328.0	341.2	358.3	373.4	387.6
70°	256.2	257.1	262.8	270.3	277.9	288.3	291.1	305.3	323.3	338.4	353.5
72.5°	216.5	217.4	223.1	232.5	241.0	252.4	256.2	271.3	289.2	304.4	319.5
75°	176.8	177.7	185.3	196.6	206.1	216.5	221.2	237.3	255.2	271.3	288.3
77.5°	139.0	140.8	148.4	159.7	171.1	183.4	188.1	204.2	224.0	239.1	255.2
80°	104.0	105.9	114.4	126.7	139.0	150.3	156.0	172.0	192.8	208.0	225.9
82.5°	71.8	74.7	85.1	98.3	110.6	122.9	128.6	143.7	162.6	179.6	196.6
85°	44.4	48.2	58.6	72.8	86.0	97.4	103.0	119.1	137.1	153.1	169.2
87.5°	20.8	26.5	36.9	51.0	65.2	74.7	81.3	97.4	114.4	130.4	146.5
90°	0.0	8.5	18.9	33.1	47.3	55.8	63.3	78.5	95.5	110.6	125.7
92.5°	1.9	9.5	20.8	34.0	48.2	56.7	64.3	79.4	95.5	110.6	125.7
95°	4.7	10.4	21.7	35.9	50.1	58.6	65.2	80.3	96.4	111.5	125.7
97.5°	8.5	13.2	24.6	37.8	52.0	59.6	67.1	82.2	97.4	112.5	126.7
100°	11.3	15.1	26.5	39.7	53.9	61.4	69.0	83.2	98.3	113.4	126.7
102.5°	14.2	18.9	29.3	41.6	55.8	63.3	69.9	84.1	99.3	113.4	126.7
105°	18.0	21.7	31.2	44.4	57.7	65.2	71.8	86.0	100.2	114.4	126.7
107.5°	21.7	24.6	34.0	46.3	59.6	66.2	72.8	87.0	101.1	114.4	126.7
110°	26.5	28.4	36.9	48.2	60.5	68.1	74.7	87.9	101.1	114.4	126.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	31.2	31.2	39.7	50.1	62.4	69.0	75.6	88.9	102.1	114.4	126.7
115°	35.0	35.9	42.5	52.0	64.3	70.9	76.6	88.9	102.1	114.4	125.7
117.5°	39.7	39.7	46.3	53.9	65.2	71.8	78.5	89.8	102.1	113.4	124.8
120°	44.4	43.5	49.2	56.7	67.1	72.8	79.4	90.7	102.1	113.4	123.8
122.5°	49.2	47.3	51.0	58.6	68.1	74.7	79.4	90.7	102.1	112.5	122.9
125°	52.9	51.0	53.9	61.4	69.9	75.6	80.3	90.7	102.1	111.5	121.9
127.5°	56.7	54.8	57.7	63.3	70.9	75.6	81.3	90.7	102.1	110.6	120.0
130°	60.5	57.7	61.4	65.2	72.8	76.6	81.3	90.7	101.1	109.6	118.2
132.5°	63.3	60.5	64.3	67.1	73.7	77.5	82.2	90.7	100.2	108.7	117.2
135°	65.2	62.4	67.1	69.0	75.6	79.4	83.2	90.7	99.3	107.8	115.3
137.5°	67.1	63.3	69.0	70.9	76.6	80.3	83.2	89.8	98.3	105.9	113.4
140°	68.1	65.2	70.9	72.8	75.6	79.4	83.2	88.9	96.4	104.0	110.6
142.5°	69.0	65.2	71.8	73.7	75.6	78.5	82.2	87.0	94.5	101.1	107.8
145°	69.0	66.2	71.8	73.7	75.6	77.5	80.3	86.0	91.7	97.4	104.0
147.5°	69.0	67.1	72.8	74.7	76.6	76.6	78.5	84.1	88.9	94.5	100.2
150°	69.9	67.1	72.8	74.7	77.5	77.5	78.5	81.3	87.0	90.7	95.5
152.5°	69.0	68.1	71.8	75.6	77.5	78.5	78.5	79.4	84.1	87.9	91.7
155°	69.9	69.9	72.8	77.5	78.5	78.5	79.4	78.5	80.3	84.1	87.9
157.5°	71.8	73.7	73.7	78.5	80.3	80.3	81.3	80.3	79.4	80.3	84.1
160°	74.7	76.6	76.6	79.4	82.2	82.2	83.2	82.2	81.3	80.3	80.3
162.5°	77.5	79.4	79.4	80.3	83.2	84.1	85.1	84.1	83.2	81.3	80.3
165°	80.3	82.2	82.2	82.2	84.1	85.1	86.0	85.1	85.1	83.2	82.2
167.5°	83.2	85.1	85.1	84.1	85.1	86.0	87.0	86.0	86.0	85.1	83.2
170°	86.0	87.9	87.9	86.0	87.0	87.0	87.9	87.0	87.0	85.1	84.1
172.5°	87.9	89.8	88.9	87.9	87.9	87.9	87.9	87.0	86.0	84.1	84.1
175°	88.9	90.7	90.7	88.9	87.9	87.9	88.9	87.0	86.0	85.1	83.2
177.5°	88.9	90.7	90.7	88.9	88.9	87.9	88.9	87.9	87.9	86.0	84.1
180°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1	1035.1
2.5°	1031.3	1030.3	1024.7	1031.3	1031.3	1029.4	1036.9	1036.0	1035.1	1033.2
5°	1027.5	1026.5	1020.9	1027.5	1027.5	1026.5	1034.1	1035.1	1036.0	1034.1
7.5°	1021.8	1020.9	1015.2	1021.8	1021.8	1020.9	1029.4	1030.3	1031.3	1028.4
10°	1013.3	1012.4	1006.7	1013.3	1014.3	1013.3	1019.9	1020.9	1022.8	1019.0
12.5°	1002.0	1002.0	996.3	1002.9	1003.9	1002.9	1009.5	1011.4	1013.3	1008.6
15°	987.8	988.7	984.0	990.6	991.6	991.6	998.2	999.1	1002.0	995.4
17.5°	970.8	972.7	968.9	975.5	976.4	977.4	981.2	984.0	986.8	979.3
20°	952.8	953.8	950.9	956.6	958.5	957.5	962.3	966.1	968.9	961.3
22.5°	931.1	932.0	929.2	934.9	936.7	937.7	941.5	946.2	948.1	941.5
25°	906.5	910.3	908.4	914.1	916.0	916.0	919.7	924.5	927.3	917.8
27.5°	882.9	887.6	885.7	891.4	893.3	894.2	896.1	901.8	904.6	896.1
30°	856.4	862.1	861.1	866.8	868.7	867.7	871.5	877.2	881.0	871.5
32.5°	827.1	834.7	833.7	841.3	843.2	844.1	846.9	854.5	858.3	849.8
35°	798.7	807.2	808.2	816.7	819.5	820.5	824.3	831.8	835.6	827.1
37.5°	769.4	780.8	783.6	792.1	795.0	795.9	799.7	808.2	812.0	803.5
40°	741.1	754.3	758.1	765.7	768.5	771.3	774.2	782.7	787.4	778.9
42.5°	712.7	726.9	731.6	739.2	742.0	744.9	748.6	758.1	761.9	754.3
45°	683.4	698.5	704.2	711.8	715.6	718.4	722.2	730.7	735.4	727.8
47.5°	654.1	669.2	674.9	683.4	687.2	691.0	693.8	704.2	708.9	701.4
50°	622.9	639.9	646.6	654.1	659.8	662.6	666.4	675.9	680.6	674.0
52.5°	591.7	609.7	617.3	624.8	630.5	635.2	637.1	647.5	652.2	645.6
55°	559.6	577.6	586.1	594.6	600.2	605.9	607.8	618.2	622.9	613.5
57.5°	527.5	546.4	554.9	564.3	569.0	575.7	578.5	587.9	592.7	586.1
60°	495.3	513.3	523.7	532.2	538.8	544.5	546.4	556.8	561.5	553.0
62.5°	462.2	481.1	491.5	501.0	506.7	513.3	516.1	525.6	529.3	520.8
65°	428.2	447.1	458.4	467.0	474.5	480.2	482.1	492.5	496.3	487.8
67.5°	394.2	413.1	425.4	434.8	441.4	448.1	449.9	460.3	464.1	457.5
70°	361.1	380.0	392.3	403.6	408.4	415.0	417.8	427.3	431.0	425.4
72.5°	328.0	346.9	360.1	371.5	376.2	382.8	386.6	394.2	399.8	395.1
75°	295.9	314.8	328.0	339.3	344.1	350.7	354.5	362.0	365.8	362.0
77.5°	264.7	283.6	295.9	307.2	312.9	318.6	322.3	329.9	334.6	330.8
80°	234.4	253.3	265.6	276.0	281.7	287.4	291.1	299.6	303.4	300.6
82.5°	206.1	224.0	237.3	247.7	253.3	259.0	262.8	270.3	275.1	271.3
85°	180.5	198.5	210.8	221.2	225.9	231.6	235.4	242.9	246.7	244.8
87.5°	156.0	172.0	186.2	196.6	201.3	207.0	211.7	217.4	222.1	219.3
90°	137.1	151.2	164.5	174.9	180.5	186.2	191.9	197.6	201.3	199.4
92.5°	138.0	151.2	163.5	173.0	178.7	184.3	190.0	196.6	199.4	197.6
95°	138.0	151.2	163.5	173.0	178.7	184.3	190.0	196.6	199.4	197.6
97.5°	138.0	151.2	163.5	173.0	178.7	184.3	190.0	196.6	199.4	196.6
100°	138.0	151.2	163.5	173.0	178.7	183.4	189.1	195.7	198.5	196.6
102.5°	138.0	151.2	162.6	172.0	177.7	182.4	188.1	194.7	197.6	195.7
105°	138.0	150.3	162.6	171.1	176.8	181.5	187.2	192.8	195.7	193.8
107.5°	137.1	149.4	160.7	170.1	174.9	179.6	185.3	190.9	193.8	191.9
110°	137.1	148.4	159.7	168.3	173.0	177.7	183.4	189.1	191.9	190.0



TEST NUMBER: P895407

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	136.1	147.5	158.8	166.4	171.1	175.8	180.5	187.2	190.0	188.1
115°	135.2	146.5	156.9	164.5	169.2	173.0	178.7	185.3	187.2	186.2
117.5°	134.2	144.6	155.0	162.6	167.3	171.1	175.8	181.5	184.3	183.4
120°	133.3	142.7	153.1	159.7	164.5	168.3	172.0	177.7	180.5	178.7
122.5°	131.4	140.8	151.2	157.9	161.6	165.4	169.2	173.9	176.8	175.8
125°	129.5	139.0	148.4	155.0	158.8	161.6	165.4	170.1	172.0	171.1
127.5°	127.6	137.1	145.6	151.2	156.0	158.8	161.6	166.4	168.3	167.3
130°	125.7	134.2	142.7	148.4	152.2	155.0	157.9	162.6	163.5	163.5
132.5°	123.8	131.4	139.9	145.6	149.4	151.2	154.1	157.9	159.7	158.8
135°	121.9	128.6	137.1	141.8	144.6	147.5	150.3	154.1	155.0	155.0
137.5°	119.1	125.7	133.3	138.0	140.8	142.7	145.6	149.4	150.3	150.3
140°	116.3	122.9	129.5	133.3	137.1	139.0	140.8	144.6	145.6	145.6
142.5°	113.4	119.1	125.7	129.5	133.3	134.2	137.1	139.9	140.8	140.8
145°	109.6	116.3	121.9	125.7	128.6	129.5	132.3	135.2	135.2	136.1
147.5°	104.9	110.6	118.2	121.0	123.8	124.8	127.6	129.5	130.4	130.4
150°	100.2	105.9	112.5	117.2	120.0	121.0	121.9	124.8	124.8	125.7
152.5°	95.5	100.2	106.8	111.5	115.3	116.3	117.2	119.1	119.1	120.0
155°	90.7	94.5	100.2	104.9	108.7	110.6	112.5	114.4	114.4	115.3
157.5°	87.0	90.7	95.5	99.3	102.1	104.9	107.8	109.6	109.6	109.6
160°	82.2	85.1	89.8	92.6	96.4	98.3	103.0	104.9	104.9	105.9
162.5°	79.4	80.3	83.2	86.0	88.9	90.7	95.5	100.2	100.2	101.1
165°	80.3	79.4	80.3	81.3	83.2	84.1	87.0	93.6	95.5	96.4
167.5°	82.2	79.4	79.4	79.4	81.3	81.3	84.1	87.9	94.5	92.6
170°	82.2	79.4	77.5	77.5	78.5	77.5	79.4	82.2	86.0	89.8
172.5°	83.2	80.3	77.5	73.7	74.7	73.7	71.8	71.8	72.8	85.1
175°	82.2	80.3	76.6	71.8	70.9	68.1	62.4	57.7	54.8	42.5
177.5°	81.3	78.5	75.6	71.8	69.9	67.1	60.5	52.9	45.4	43.5
180°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5



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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	12.23	13.55	12.84	14.18	14.90	14.86	16.18	15.47	16.81	17.53
	3H	13.63	14.83	14.26	15.47	16.23	17.32	18.52	17.95	19.16	19.92
	4H	14.06	15.20	14.71	15.85	16.62	18.49	19.62	19.13	20.28	21.05
	6H	14.29	15.35	14.96	16.02	16.80	19.67	20.72	20.33	21.39	22.17
	8H	14.34	15.35	15.01	16.04	16.82	20.26	21.27	20.93	21.96	22.74
	12H	14.35	15.32	15.03	16.00	16.81	20.89	21.86	21.57	22.54	23.36
4H	2H	13.13	14.27	13.78	14.92	15.69	15.20	16.34	15.85	16.99	17.76
	3H	14.75	15.72	15.42	16.41	17.20	17.86	18.83	18.53	19.52	20.31
	4H	15.31	16.19	15.99	16.89	17.71	19.18	20.07	19.86	20.76	21.58
	6H	15.64	16.42	16.34	17.14	17.97	20.53	21.31	21.23	22.03	22.86
	8H	15.72	16.45	16.42	17.17	18.01	21.22	21.95	21.92	22.67	23.51
	12H	15.75	16.41	16.48	17.16	18.00	21.97	22.64	22.70	23.38	24.23
8H	4H	15.97	16.70	16.67	17.42	18.26	19.33	20.06	20.03	20.78	21.62
	6H	16.47	17.09	17.21	17.85	18.69	20.82	21.44	21.56	22.20	23.04
	8H	16.63	17.18	17.37	17.95	18.80	21.63	22.19	22.38	22.95	23.81
	12H	16.72	17.21	17.47	17.97	18.88	22.54	23.04	23.29	23.79	24.71
12H	4H	16.14	16.80	16.87	17.55	18.39	19.32	19.98	20.04	20.72	21.57
	6H	16.74	17.30	17.48	18.06	18.91	20.84	21.39	21.58	22.16	23.01
	8H	16.97	17.47	17.72	18.22	19.14	21.70	22.19	22.45	22.95	23.86