

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: P893562

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-4SL-RNDU-UNV-L835
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 5
Light Source: -
Ballast/Driver: -

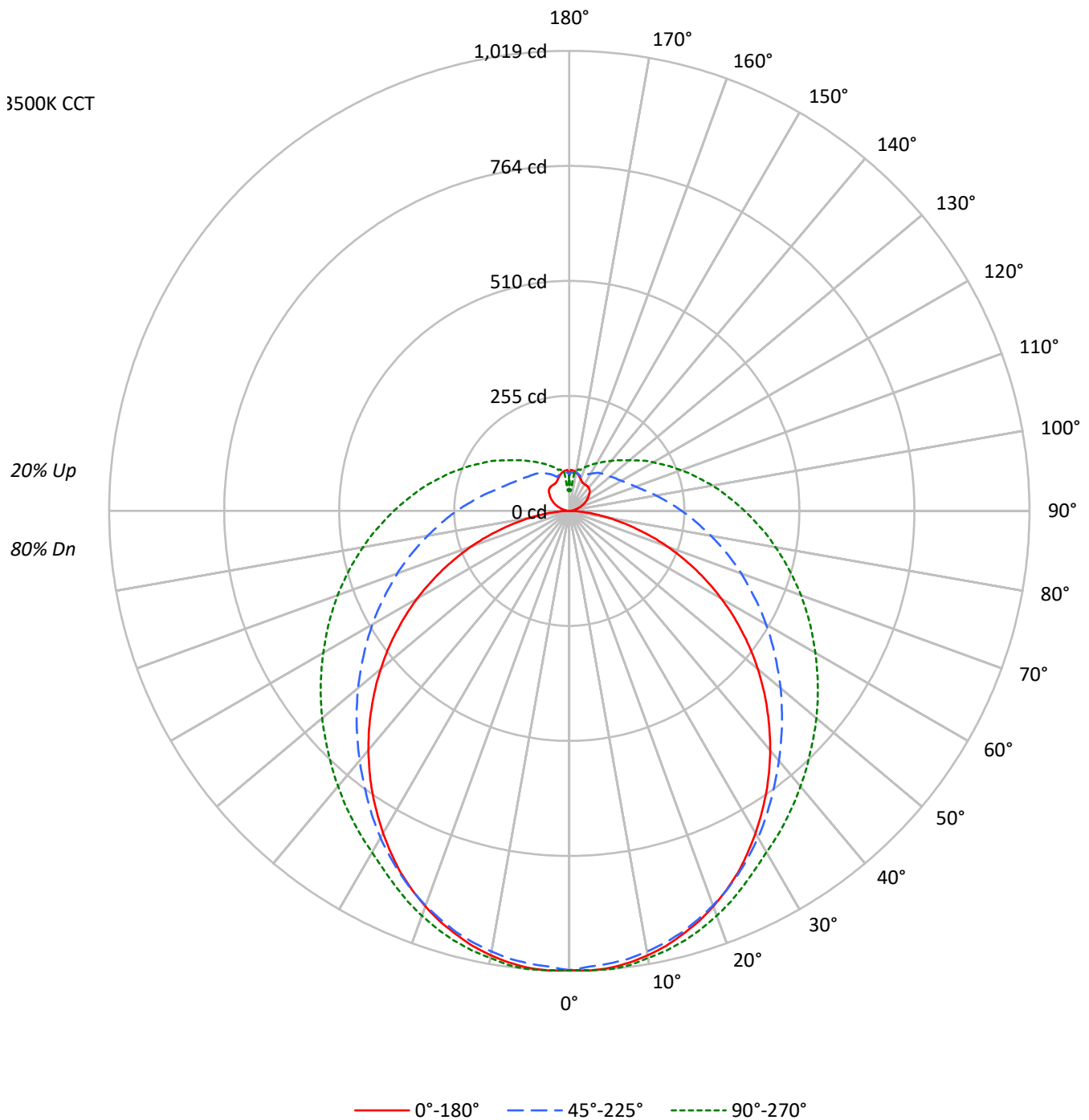
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4279.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 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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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	83	83	83	80
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	65	65	65	61
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	53	53	53	49
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	44	44	44	41
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	37	37	37	34
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	32	32	32	29
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	28	28	28	26
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	25	25	25	23
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	22	22	22	20
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7238	7238	7238
5°	7226	6933	6947
10°	7158	6663	6626
15°	7053	6389	6329
20°	6926	6101	6025
25°	6773	5811	5720
30°	6577	5518	5449
35°	6374	5217	5250
40°	6158	4945	5068
45°	5923	4704	4908
50°	5678	4490	4784
55°	5396	4291	4675
60°	5077	4127	4594
65°	4689	3984	4548
70°	4207	3895	4533
75°	3562	3831	4553
80°	2783	3830	4626
85°	1777	3930	4776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5923 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	2.2
10°-20°	274.5	6.4
20°-30°	412.1	9.6
30°-40°	495.5	11.6
40°-50°	525.0	12.3
50°-60°	505.6	11.8
60°-70°	447.4	10.5
70°-80°	367.0	8.6
80°-90°	284.8	6.7
90°-100°	221.0	5.2
100°-110°	175.1	4.1
110°-120°	139.5	3.3
120°-130°	110.8	2.6
130°-140°	86.5	2.0
140°-150°	63.7	1.5
150°-160°	42.1	1.0
160°-170°	24.2	0.6
170°-180°	7.8	0.2
0°-30°	782.8	18.3
0°-40°	1278.3	29.9
0°-60°	2308.8	54.0
0°-90°	3408.1	79.6
90°-120°	535.7	12.5
90°-150°	796.8	18.6
90°-180°	871.0	20.4
0°-180°	4279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1016	1017	1007	1014	1019	96
15°	971	972	966	981	985	274
25°	884	887	887	909	915	407
35°	761	770	779	820	836	476
45°	620	634	666	729	755	478
55°	468	491	556	638	672	418
65°	310	352	452	547	588	307
75°	155	232	360	462	504	166
85°	35	140	282	384	425	40
90°	1	110	249	348	388	3
95°	5	91	220	315	353	5
105°	17	74	173	258	291	19
115°	35	71	144	210	238	34
125°	50	74	126	173	195	45
135°	64	78	113	145	159	49
145°	68	77	103	125	133	43
155°	69	80	88	106	112	32
165°	81	86	83	83	94	23
175°	90	89	85	71	47	8
180°	78	78	78	78	78	



TEST NUMBER: P893562
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3
2.5°	1019.3	1018.3	1020.2	1022.2	1028.0	1020.2	1024.1	1013.5	1014.4	1015.4	1010.6
5°	1016.4	1013.5	1016.4	1018.3	1023.1	1017.3	1021.2	1009.6	1010.6	1012.5	1006.7
7.5°	1009.6	1006.7	1008.6	1010.6	1015.4	1009.6	1014.4	1002.8	1004.8	1005.7	1000.9
10°	999.9	996.0	998.0	1000.9	1004.8	999.9	1003.8	993.1	994.1	996.0	991.2
12.5°	987.3	983.5	985.4	987.3	992.2	987.3	991.2	980.6	982.5	984.4	979.6
15°	970.9	967.0	968.9	970.9	974.7	971.8	975.7	965.1	967.0	970.9	966.0
17.5°	953.5	947.6	949.6	952.5	956.4	954.4	957.3	948.6	949.6	953.5	948.6
20°	932.2	926.3	928.3	931.2	935.1	934.1	936.0	928.3	930.2	935.1	930.2
22.5°	908.9	903.1	905.1	908.9	911.8	911.8	912.8	907.0	908.9	913.8	909.9
25°	883.8	878.0	879.9	883.8	886.7	886.7	888.6	882.8	885.7	890.5	886.7
27.5°	854.7	851.8	851.8	855.7	857.6	859.6	860.5	855.7	859.6	864.4	861.5
30°	824.7	820.8	822.8	827.6	827.6	831.5	831.5	827.6	832.5	838.3	836.3
32.5°	792.8	789.9	790.8	796.6	796.6	801.5	800.5	798.6	803.4	810.2	808.3
35°	760.8	757.9	758.9	764.7	764.7	770.5	768.6	768.6	773.4	781.2	779.2
37.5°	726.9	725.0	726.0	731.8	731.8	737.6	735.7	736.6	742.4	751.1	750.2
40°	692.1	690.2	692.1	696.9	698.9	703.7	701.8	703.7	711.5	719.2	722.1
42.5°	656.3	655.3	657.3	662.1	664.0	668.9	667.9	670.8	678.5	690.2	694.0
45°	619.5	619.5	621.4	626.3	628.2	634.0	633.1	636.9	646.6	659.2	666.0
47.5°	582.7	583.7	584.7	590.5	590.5	600.1	597.2	603.0	615.6	630.2	637.9
50°	545.0	546.9	547.9	552.7	554.6	563.4	561.4	571.1	584.7	600.1	610.8
52.5°	507.2	509.2	511.1	515.0	516.9	527.5	525.6	538.2	554.6	571.1	582.7
55°	467.5	471.4	472.4	477.2	480.1	490.8	490.8	505.3	522.7	541.1	555.6
57.5°	428.8	432.7	433.7	439.5	443.3	455.9	457.9	474.3	493.7	512.1	529.5
60°	389.1	394.0	394.9	400.7	407.5	421.1	424.0	442.4	463.7	483.0	503.3
62.5°	349.4	354.3	356.2	362.0	372.7	386.2	391.1	412.4	434.6	455.9	478.2
65°	309.8	314.6	317.5	325.2	337.8	352.3	359.1	381.4	406.5	428.8	452.0
67.5°	270.1	275.9	279.7	289.4	305.9	321.4	328.1	353.3	379.4	403.6	427.8
70°	231.3	237.2	242.0	254.6	273.9	289.4	298.1	325.2	352.3	378.5	405.6
72.5°	193.6	199.4	206.2	221.7	243.0	260.4	270.1	298.1	328.1	354.3	382.3
75°	154.9	161.7	169.4	190.7	214.9	232.3	243.0	273.0	303.9	330.1	360.1
77.5°	120.0	126.8	138.4	159.7	186.8	206.2	217.8	249.7	281.7	307.8	338.8
80°	88.1	94.9	110.3	133.6	161.7	180.0	194.6	227.5	260.4	287.5	318.5
82.5°	60.0	66.8	85.2	110.3	140.4	158.7	172.3	207.1	240.1	268.1	299.1
85°	34.8	44.5	63.9	91.0	122.0	140.4	153.9	189.7	221.7	249.7	281.7
87.5°	15.5	27.1	48.4	75.5	106.5	123.9	138.4	171.3	205.2	233.3	265.2
90°	1.0	15.5	37.8	63.9	93.9	110.3	123.9	156.8	188.8	217.8	248.8
92.5°	1.9	10.6	31.0	55.2	83.2	99.7	113.3	144.2	174.2	204.2	234.2
95°	4.8	10.6	27.1	49.4	75.5	91.0	103.6	133.6	161.7	190.7	219.7
97.5°	7.7	11.6	26.1	46.5	69.7	84.2	95.8	123.9	152.0	178.1	207.1
100°	10.6	14.5	26.1	44.5	65.8	79.4	90.0	116.2	142.3	166.5	195.5
102.5°	13.6	17.4	28.1	44.5	63.9	75.5	86.1	110.3	134.5	156.8	183.9
105°	17.4	20.3	30.0	44.5	62.0	73.6	82.3	104.5	127.8	149.1	173.3
107.5°	21.3	23.2	31.9	45.5	62.0	71.6	80.3	100.7	122.0	141.3	164.6
110°	26.1	27.1	34.8	47.4	62.0	70.7	78.4	97.8	117.1	135.5	156.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	30.0	30.0	37.8	49.4	62.0	70.7	77.4	94.9	113.3	129.7	150.0
115°	34.8	34.8	40.7	51.3	62.9	70.7	77.4	93.9	110.3	124.9	144.2
117.5°	38.7	38.7	44.5	53.2	64.9	71.6	77.4	92.0	107.4	121.0	138.4
120°	42.6	42.6	46.5	55.2	65.8	72.6	77.4	91.0	104.5	118.1	133.6
122.5°	46.5	46.5	49.4	58.1	66.8	72.6	77.4	90.0	102.6	114.2	128.7
125°	50.3	50.3	52.3	60.0	68.7	73.6	78.4	90.0	101.6	111.3	125.8
127.5°	54.2	53.2	56.1	62.9	69.7	74.5	79.4	90.0	99.7	109.4	122.0
130°	57.1	56.1	60.0	64.9	71.6	75.5	79.4	89.1	98.7	107.4	118.1
132.5°	61.0	59.0	63.9	65.8	73.6	77.4	80.3	89.1	97.8	105.5	116.2
135°	63.9	62.0	66.8	68.7	74.5	78.4	81.3	89.1	96.8	104.5	113.3
137.5°	65.8	64.9	69.7	71.6	75.5	79.4	82.3	89.1	95.8	102.6	111.3
140°	66.8	65.8	69.7	73.6	75.5	79.4	81.3	88.1	94.9	100.7	108.4
142.5°	67.8	67.8	70.7	74.5	75.5	78.4	81.3	87.1	92.9	97.8	106.5
145°	67.8	67.8	70.7	75.5	76.5	77.4	79.4	85.2	90.0	94.9	102.6
147.5°	67.8	67.8	71.6	75.5	77.4	78.4	77.4	83.2	88.1	92.0	98.7
150°	67.8	67.8	71.6	75.5	78.4	79.4	78.4	81.3	85.2	89.1	94.9
152.5°	68.7	68.7	71.6	75.5	78.4	79.4	79.4	79.4	82.3	86.1	92.0
155°	68.7	69.7	71.6	77.4	79.4	80.3	80.3	80.3	79.4	83.2	88.1
157.5°	71.6	72.6	73.6	78.4	80.3	81.3	81.3	81.3	80.3	79.4	84.2
160°	74.5	75.5	76.5	80.3	82.3	83.2	83.2	83.2	81.3	80.3	80.3
162.5°	77.4	79.4	79.4	81.3	83.2	84.2	84.2	85.2	83.2	82.3	81.3
165°	81.3	82.3	82.3	83.2	85.2	86.1	85.2	86.1	85.2	84.2	83.2
167.5°	84.2	85.2	85.2	86.1	86.1	87.1	87.1	87.1	86.1	85.2	85.2
170°	87.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	87.1	85.2	85.2
172.5°	89.1	90.0	90.0	89.1	89.1	89.1	89.1	88.1	86.1	85.2	85.2
175°	90.0	91.0	91.0	90.0	89.1	89.1	89.1	88.1	86.1	85.2	85.2
177.5°	91.0	92.0	91.0	91.0	89.1	89.1	89.1	89.1	87.1	86.1	85.2
180°	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3	1017.3
2.5°	1016.4	1004.8	1012.5	1013.5	1017.3	1013.5	1016.4	1013.5	1021.2	1018.3
5°	1012.5	1001.9	1008.6	1009.6	1014.4	1009.6	1014.4	1012.5	1022.2	1019.3
7.5°	1005.7	997.0	1002.8	1003.8	1009.6	1004.8	1009.6	1007.7	1019.3	1015.4
10°	996.0	989.3	995.1	996.0	1001.9	997.0	1000.9	998.9	1011.5	1005.7
12.5°	985.4	979.6	984.4	985.4	992.2	987.3	992.2	990.2	1002.8	997.0
15°	969.9	967.0	971.8	973.8	980.6	976.7	981.5	979.6	993.1	985.4
17.5°	954.4	952.5	957.3	959.3	967.0	962.2	967.0	965.1	978.6	970.9
20°	935.1	934.1	938.9	941.8	948.6	943.8	949.6	947.6	962.2	954.4
22.5°	914.7	914.7	918.6	921.5	928.3	924.4	930.2	929.3	943.8	936.0
25°	892.5	893.4	897.3	901.2	908.9	906.0	910.9	910.9	924.4	914.7
27.5°	867.3	872.1	875.0	879.9	886.7	883.8	888.6	889.6	903.1	893.4
30°	841.2	847.9	850.8	856.7	862.5	862.5	867.3	869.2	882.8	873.1
32.5°	814.1	821.8	825.7	833.4	841.2	841.2	847.9	850.8	864.4	855.7
35°	787.0	797.6	802.4	812.1	819.9	820.8	827.6	831.5	845.0	836.3
37.5°	760.8	774.4	779.2	790.8	797.6	799.5	807.3	812.1	824.7	817.0
40°	733.7	750.2	756.0	768.6	774.4	778.2	786.0	791.8	803.4	796.6
42.5°	707.6	726.0	731.8	745.3	752.1	756.0	763.7	771.5	783.1	776.3
45°	681.5	701.8	708.6	723.1	728.9	734.7	743.4	750.2	760.8	755.0
47.5°	656.3	677.6	684.4	699.8	706.6	713.4	721.1	730.8	740.5	734.7
50°	630.2	652.4	661.1	677.6	683.4	691.1	700.8	709.5	719.2	714.4
52.5°	605.0	628.2	636.9	654.3	661.1	668.9	678.5	688.2	696.9	693.1
55°	577.9	603.0	612.7	631.1	637.9	645.6	656.3	666.9	674.7	671.8
57.5°	552.7	578.8	588.5	608.9	614.7	624.3	635.0	646.6	653.4	650.5
60°	527.5	553.7	565.3	585.6	592.4	602.1	612.7	625.3	631.1	629.2
62.5°	502.4	529.5	542.1	563.4	569.2	579.8	592.4	603.0	608.9	607.9
65°	479.1	505.3	519.8	541.1	546.9	558.5	570.1	581.8	587.6	587.6
67.5°	454.9	483.0	497.5	519.8	524.6	537.2	549.8	561.4	566.3	566.3
70°	432.7	459.8	476.2	498.5	503.3	515.0	528.5	541.1	545.0	545.9
72.5°	410.4	437.5	454.9	478.2	483.0	494.6	507.2	520.8	523.7	524.6
75°	389.1	416.2	433.7	456.9	461.7	473.3	486.9	499.5	503.3	504.3
77.5°	367.8	394.9	414.3	436.6	441.4	453.0	466.6	479.1	482.1	484.0
80°	348.5	374.6	393.0	417.2	422.0	433.7	446.2	458.8	460.8	463.7
82.5°	329.1	355.2	374.6	397.8	402.7	414.3	426.9	439.5	441.4	445.3
85°	310.7	336.9	356.2	378.5	384.3	394.9	408.5	420.1	422.0	424.9
87.5°	294.3	318.5	338.8	360.1	365.9	376.5	390.1	401.7	402.7	406.5
90°	276.8	301.0	321.4	342.7	348.5	358.1	371.7	383.3	385.3	388.2
92.5°	262.3	284.6	305.9	326.2	331.0	341.7	354.3	365.9	367.8	370.7
95°	246.8	269.1	290.4	309.8	314.6	325.2	336.9	348.5	350.4	353.3
97.5°	233.3	254.6	274.9	294.3	299.1	308.8	321.4	332.0	334.0	337.8
100°	220.7	241.0	262.3	279.7	284.6	294.3	305.9	316.5	318.5	322.3
102.5°	209.1	228.4	248.8	265.2	271.0	279.7	291.4	301.0	303.0	305.9
105°	198.4	216.8	236.2	251.7	257.5	266.2	276.8	286.5	288.5	291.4
107.5°	187.8	205.2	223.6	239.1	243.9	251.7	262.3	272.0	273.9	277.8
110°	178.1	195.5	213.0	227.5	233.3	239.1	249.7	258.4	260.4	263.3



TEST NUMBER: P893562
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	169.4	184.9	202.3	215.9	220.7	227.5	236.2	244.9	246.8	250.7
115°	161.7	176.2	193.6	206.2	210.1	215.9	225.5	233.3	235.2	238.1
117.5°	154.9	167.5	182.9	195.5	200.4	205.2	213.9	220.7	223.6	225.5
120°	149.1	160.7	174.2	185.9	191.7	195.5	203.3	210.1	213.0	214.9
122.5°	143.3	153.9	166.5	177.1	182.0	184.9	193.6	199.4	202.3	205.2
125°	138.4	148.1	159.7	168.4	173.3	176.2	183.9	189.7	192.6	194.6
127.5°	133.6	142.3	153.9	160.7	165.5	167.5	174.2	180.0	182.9	183.9
130°	128.7	137.5	147.1	153.9	157.8	160.7	166.5	170.4	173.3	174.2
132.5°	124.9	132.6	141.3	148.1	152.0	152.9	158.7	162.6	165.5	166.5
135°	122.0	127.8	136.5	142.3	145.2	147.1	152.0	154.9	157.8	158.7
137.5°	118.1	123.9	131.6	135.5	139.4	140.4	145.2	148.1	151.0	152.0
140°	115.2	120.0	126.8	130.7	134.5	134.5	138.4	141.3	144.2	144.2
142.5°	112.3	117.1	122.9	126.8	129.7	129.7	133.6	135.5	138.4	138.4
145°	108.4	113.3	119.1	122.0	124.9	124.9	127.8	129.7	132.6	132.6
147.5°	104.5	109.4	115.2	117.1	120.0	120.0	122.9	124.9	126.8	126.8
150°	99.7	103.6	110.3	113.3	116.2	116.2	118.1	120.0	122.0	122.0
152.5°	95.8	98.7	104.5	108.4	111.3	111.3	113.3	115.2	117.1	117.1
155°	91.0	93.9	98.7	103.6	106.5	107.4	109.4	110.3	112.3	112.3
157.5°	87.1	90.0	93.9	97.8	100.7	102.6	105.5	106.5	107.4	107.4
160°	82.3	84.2	88.1	92.0	94.9	96.8	101.6	102.6	103.6	103.6
162.5°	80.3	80.3	82.3	85.2	88.1	89.1	93.9	97.8	99.7	98.7
165°	81.3	80.3	80.3	81.3	83.2	84.2	87.1	92.9	94.9	93.9
167.5°	83.2	81.3	80.3	80.3	82.3	82.3	85.2	90.0	95.8	93.9
170°	83.2	80.3	78.4	78.4	79.4	79.4	81.3	84.2	90.0	91.0
172.5°	82.3	80.3	77.4	73.6	74.5	73.6	72.6	74.5	75.5	85.2
175°	83.2	80.3	77.4	72.6	70.7	67.8	62.9	59.0	58.1	47.4
177.5°	82.3	79.4	75.5	71.6	69.7	65.8	60.0	53.2	49.4	43.6
180°	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4



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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	13.81	15.12	14.45	15.78	16.55	17.35	18.66	17.99	19.33	20.10
	3H	15.16	16.35	15.81	17.03	17.83	20.27	21.47	20.92	22.14	22.95
	4H	15.56	16.70	16.23	17.39	18.20	21.75	22.89	22.42	23.57	24.39
	6H	15.78	16.84	16.46	17.53	18.37	23.30	24.37	23.99	25.06	25.89
	8H	15.81	16.83	16.51	17.55	18.38	24.11	25.13	24.81	25.85	26.68
	12H	15.81	16.79	16.52	17.50	18.37	24.99	25.97	25.70	26.68	27.54
4H	2H	14.95	16.09	15.62	16.77	17.59	17.67	18.81	18.35	19.50	20.31
	3H	16.59	17.57	17.28	18.29	19.12	20.82	21.80	21.51	22.52	23.36
	4H	17.16	18.06	17.86	18.79	19.65	22.47	23.37	23.18	24.10	24.96
	6H	17.50	18.30	18.22	19.05	19.92	24.24	25.04	24.96	25.79	26.66
	8H	17.58	18.33	18.30	19.07	19.96	25.18	25.93	25.90	26.68	27.56
	12H	17.60	18.29	18.35	19.06	19.95	26.20	26.89	26.95	27.66	28.54
8H	4H	18.25	19.00	18.97	19.75	20.63	22.65	23.40	23.37	24.15	25.03
	6H	18.86	19.50	19.61	20.28	21.17	24.60	25.24	25.35	26.03	26.91
	8H	19.05	19.63	19.82	20.42	21.32	25.68	26.26	26.45	27.05	27.95
	12H	19.17	19.68	19.94	20.46	21.42	26.90	27.42	27.67	28.20	29.15
12H	4H	18.60	19.29	19.35	20.06	20.94	22.64	23.33	23.39	24.10	24.99
	6H	19.38	19.96	20.14	20.75	21.64	24.63	25.21	25.39	26.00	26.89
	8H	19.71	20.22	20.48	21.00	21.96	25.78	26.29	26.55	27.07	28.03