

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: P893679

Luminaire Tested: 4MB-5SL-RNDU-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893679
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-5SL-RNDU-UNV-L940
Description: 5000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 4
Light Source: -
Ballast/Driver: -

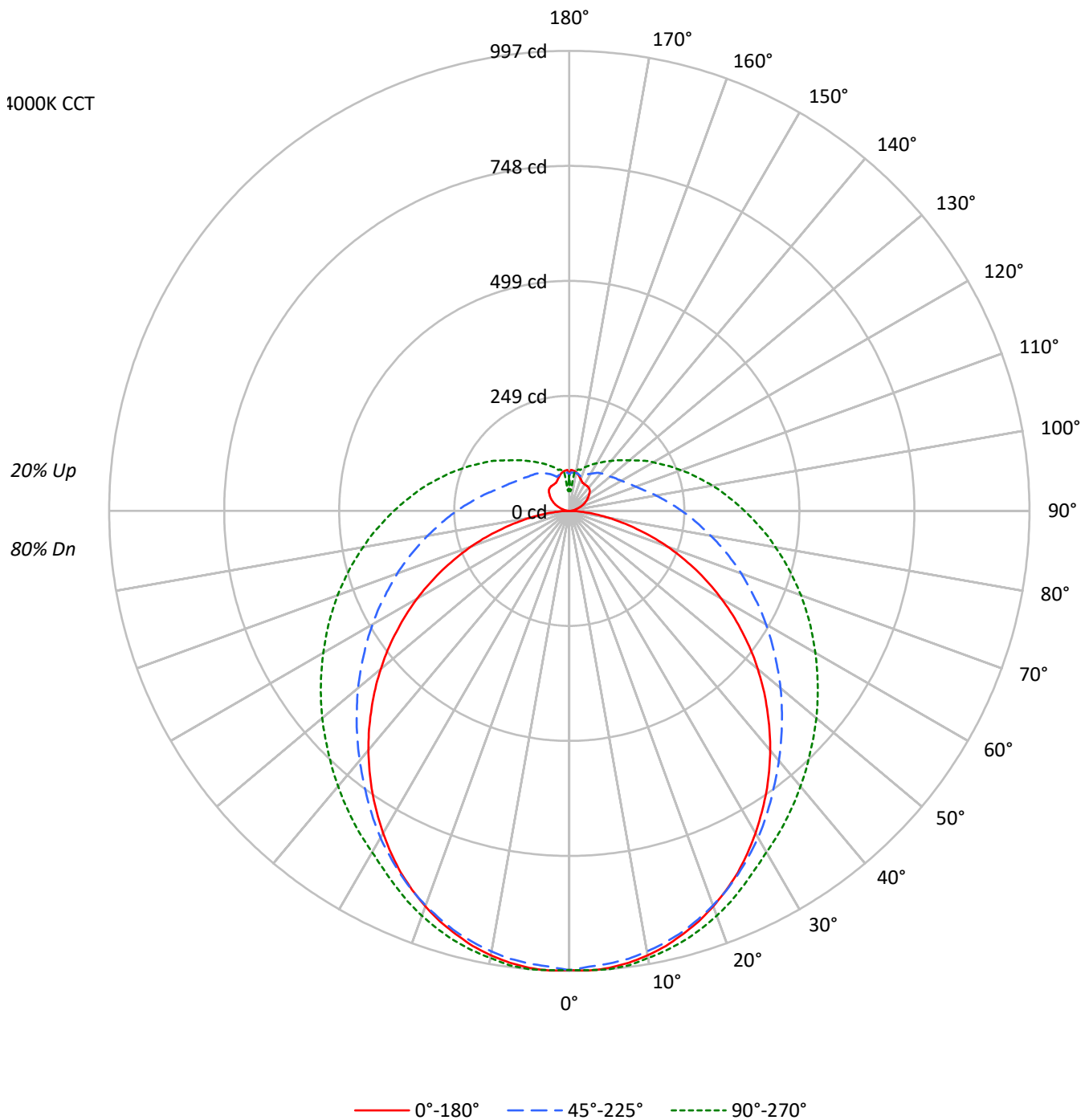
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186.0 lumens
Efficiency: N/A
Efficacy: 119.6 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): 35
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 9.55
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°	7081	7081	7081
5°	7069	6782	6796
10°	7003	6518	6482
15°	6899	6250	6192
20°	6775	5968	5894
25°	6626	5684	5596
30°	6434	5399	5331
35°	6236	5104	5136
40°	6024	4838	4958
45°	5794	4602	4801
50°	5554	4392	4679
55°	5279	4197	4573
60°	4967	4038	4494
65°	4586	3897	4449
70°	4116	3811	4435
75°	3484	3748	4455
80°	2723	3746	4525
85°	1742	3845	4672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5794 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	2.2
10°-20°	268.5	6.4
20°-30°	403.1	9.6
30°-40°	484.7	11.6
40°-50°	513.6	12.3
50°-60°	494.6	11.8
60°-70°	437.7	10.5
70°-80°	359.0	8.6
80°-90°	278.6	6.7
90°-100°	216.2	5.2
100°-110°	171.3	4.1
110°-120°	136.5	3.3
120°-130°	108.4	2.6
130°-140°	84.7	2.0
140°-150°	62.3	1.5
150°-160°	41.2	1.0
160°-170°	23.7	0.6
170°-180°	7.6	0.2
0°-30°	765.8	18.3
0°-40°	1250.5	29.9
0°-60°	2258.7	54.0
0°-90°	3334.0	79.6
90°-120°	524.1	12.5
90°-150°	779.5	18.6
90°-180°	852.0	20.4
0°-180°	4186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	994	995	985	992	997	94
15°	950	951	945	959	964	268
25°	865	867	867	889	895	398
35°	744	754	762	802	818	465
45°	606	620	652	713	739	468
55°	457	480	544	624	657	409
65°	303	345	442	535	575	300
75°	152	227	352	452	493	162
85°	34	137	276	376	416	39
90°	1	108	243	341	380	3
95°	5	89	215	308	346	5
105°	17	72	170	252	285	18
115°	34	69	141	206	233	33
125°	49	72	123	170	190	44
135°	62	77	111	142	155	48
145°	66	76	100	122	130	42
155°	67	79	86	104	110	32
165°	80	84	81	81	92	22
175°	88	87	83	69	46	8
180°	77	77	77	77	77	



TEST NUMBER: P893679
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2
2.5°	997.1	996.2	998.1	1000.0	1005.6	998.1	1001.9	991.4	992.4	993.3	988.6
5°	994.3	991.4	994.3	996.2	1000.9	995.2	999.0	987.7	988.6	990.5	984.8
7.5°	987.7	984.8	986.7	988.6	993.3	987.7	992.4	981.0	982.9	983.9	979.1
10°	978.2	974.4	976.3	979.1	982.9	978.2	982.0	971.6	972.5	974.4	969.7
12.5°	965.9	962.1	964.0	965.9	970.6	965.9	969.7	959.2	961.1	963.0	958.3
15°	949.8	946.0	947.9	949.8	953.6	950.7	954.5	944.1	946.0	949.8	945.0
17.5°	932.7	927.0	928.9	931.8	935.6	933.7	936.5	928.0	928.9	932.7	928.0
20°	911.9	906.2	908.1	911.0	914.7	913.8	915.7	908.1	910.0	914.7	910.0
22.5°	889.2	883.5	885.4	889.2	892.0	892.0	893.0	887.3	889.2	893.9	890.1
25°	864.6	858.9	860.8	864.6	867.4	867.4	869.3	863.6	866.4	871.2	867.4
27.5°	836.1	833.3	833.3	837.1	839.0	840.9	841.8	837.1	840.9	845.6	842.8
30°	806.8	803.0	804.9	809.6	809.6	813.4	813.4	809.6	814.4	820.0	818.2
32.5°	775.5	772.7	773.6	779.3	779.3	784.1	783.1	781.2	786.0	792.6	790.7
35°	744.3	741.4	742.4	748.1	748.1	753.8	751.9	751.9	756.6	764.2	762.3
37.5°	711.1	709.3	710.2	715.9	715.9	721.6	719.7	720.6	726.3	734.8	733.9
40°	677.1	675.2	677.1	681.8	683.7	688.4	686.5	688.4	696.0	703.6	706.4
42.5°	642.0	641.1	643.0	647.7	649.6	654.3	653.4	656.2	663.8	675.2	679.0
45°	606.0	606.0	607.9	612.7	614.6	620.2	619.3	623.1	632.6	644.9	651.5
47.5°	570.1	571.0	571.9	577.6	577.6	587.1	584.3	589.9	602.3	616.5	624.0
50°	533.1	535.0	536.0	540.7	542.6	551.1	549.2	558.7	571.9	587.1	597.5
52.5°	496.2	498.1	500.0	503.8	505.7	516.1	514.2	526.5	542.6	558.7	570.1
55°	457.4	461.2	462.1	466.8	469.7	480.1	480.1	494.3	511.3	529.3	543.5
57.5°	419.5	423.3	424.2	429.9	433.7	446.0	447.9	464.0	482.9	500.9	518.0
60°	380.7	385.4	386.3	392.0	398.7	411.9	414.8	432.7	453.6	472.5	492.4
62.5°	341.8	346.6	348.5	354.2	364.6	377.8	382.6	403.4	425.2	446.0	467.8
65°	303.0	307.8	310.6	318.2	330.5	344.7	351.3	373.1	397.7	419.5	442.2
67.5°	264.2	269.9	273.7	283.1	299.2	314.4	321.0	345.6	371.2	394.9	418.5
70°	226.3	232.0	236.7	249.0	268.0	283.1	291.7	318.2	344.7	370.3	396.8
72.5°	189.4	195.1	201.7	216.8	237.7	254.7	264.2	291.7	321.0	346.6	374.0
75°	151.5	158.1	165.7	186.5	210.2	227.3	237.7	267.0	297.3	322.9	352.3
77.5°	117.4	124.0	135.4	156.2	182.8	201.7	213.1	244.3	275.6	301.1	331.4
80°	86.2	92.8	108.0	130.7	158.1	176.1	190.3	222.5	254.7	281.2	311.5
82.5°	58.7	65.3	83.3	108.0	137.3	155.3	168.6	202.6	234.8	262.3	292.6
85°	34.1	43.6	62.5	89.0	119.3	137.3	150.6	185.6	216.8	244.3	275.6
87.5°	15.2	26.5	47.3	73.9	104.2	121.2	135.4	167.6	200.8	228.2	259.5
90°	0.9	15.2	36.9	62.5	91.9	108.0	121.2	153.4	184.7	213.1	243.4
92.5°	1.9	10.4	30.3	54.0	81.4	97.5	110.8	141.1	170.4	199.8	229.2
95°	4.7	10.4	26.5	48.3	73.9	89.0	101.3	130.7	158.1	186.5	215.0
97.5°	7.6	11.4	25.6	45.5	68.2	82.4	93.7	121.2	148.7	174.2	202.6
100°	10.4	14.2	25.6	43.6	64.4	77.6	88.1	113.6	139.2	162.9	191.3
102.5°	13.3	17.0	27.5	43.6	62.5	73.9	84.3	108.0	131.6	153.4	179.9
105°	17.0	19.9	29.4	43.6	60.6	72.0	80.5	102.3	125.0	145.8	169.5
107.5°	20.8	22.7	31.2	44.5	60.6	70.1	78.6	98.5	119.3	138.3	161.0
110°	25.6	26.5	34.1	46.4	60.6	69.1	76.7	95.6	114.6	132.6	153.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	29.4	29.4	36.9	48.3	60.6	69.1	75.8	92.8	110.8	126.9	146.8
115°	34.1	34.1	39.8	50.2	61.6	69.1	75.8	91.9	108.0	122.2	141.1
117.5°	37.9	37.9	43.6	52.1	63.4	70.1	75.8	90.0	105.1	118.4	135.4
120°	41.7	41.7	45.5	54.0	64.4	71.0	75.8	89.0	102.3	115.5	130.7
122.5°	45.5	45.5	48.3	56.8	65.3	71.0	75.8	88.1	100.4	111.7	125.9
125°	49.2	49.2	51.1	58.7	67.2	72.0	76.7	88.1	99.4	108.9	123.1
127.5°	53.0	52.1	54.9	61.6	68.2	72.9	77.6	88.1	97.5	107.0	119.3
130°	55.9	54.9	58.7	63.4	70.1	73.9	77.6	87.1	96.6	105.1	115.5
132.5°	59.7	57.8	62.5	64.4	72.0	75.8	78.6	87.1	95.6	103.2	113.6
135°	62.5	60.6	65.3	67.2	72.9	76.7	79.5	87.1	94.7	102.3	110.8
137.5°	64.4	63.4	68.2	70.1	73.9	77.6	80.5	87.1	93.7	100.4	108.9
140°	65.3	64.4	68.2	72.0	73.9	77.6	79.5	86.2	92.8	98.5	106.1
142.5°	66.3	66.3	69.1	72.9	73.9	76.7	79.5	85.2	90.9	95.6	104.2
145°	66.3	66.3	69.1	73.9	74.8	75.8	77.6	83.3	88.1	92.8	100.4
147.5°	66.3	66.3	70.1	73.9	75.8	76.7	75.8	81.4	86.2	90.0	96.6
150°	66.3	66.3	70.1	73.9	76.7	77.6	76.7	79.5	83.3	87.1	92.8
152.5°	67.2	67.2	70.1	73.9	76.7	77.6	77.6	77.6	80.5	84.3	90.0
155°	67.2	68.2	70.1	75.8	77.6	78.6	78.6	78.6	77.6	81.4	86.2
157.5°	70.1	71.0	72.0	76.7	78.6	79.5	79.5	79.5	78.6	77.6	82.4
160°	72.9	73.9	74.8	78.6	80.5	81.4	81.4	81.4	79.5	78.6	78.6
162.5°	75.8	77.6	77.6	79.5	81.4	82.4	82.4	83.3	81.4	80.5	79.5
165°	79.5	80.5	80.5	81.4	83.3	84.3	83.3	84.3	83.3	82.4	81.4
167.5°	82.4	83.3	83.3	84.3	84.3	85.2	85.2	85.2	84.3	83.3	83.3
170°	85.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	85.2	83.3	83.3
172.5°	87.1	88.1	88.1	87.1	87.1	87.1	87.1	86.2	84.3	83.3	83.3
175°	88.1	89.0	89.0	88.1	87.1	87.1	87.1	86.2	84.3	83.3	83.3
177.5°	89.0	90.0	89.0	89.0	87.1	87.1	87.1	87.1	85.2	84.3	83.3
180°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2	995.2
2.5°	994.3	982.9	990.5	991.4	995.2	991.4	994.3	991.4	999.0	996.2
5°	990.5	980.1	986.7	987.7	992.4	987.7	992.4	990.5	1000.0	997.1
7.5°	983.9	975.3	981.0	982.0	987.7	982.9	987.7	985.8	997.1	993.3
10°	974.4	967.8	973.4	974.4	980.1	975.3	979.1	977.2	989.5	983.9
12.5°	964.0	958.3	963.0	964.0	970.6	965.9	970.6	968.7	981.0	975.3
15°	948.8	946.0	950.7	952.6	959.2	955.5	960.2	958.3	971.6	964.0
17.5°	933.7	931.8	936.5	938.4	946.0	941.3	946.0	944.1	957.4	949.8
20°	914.7	913.8	918.5	921.4	928.0	923.3	928.9	927.0	941.3	933.7
22.5°	894.9	894.9	898.6	901.5	908.1	904.3	910.0	909.1	923.3	915.7
25°	873.1	874.0	877.8	881.6	889.2	886.3	891.1	891.1	904.3	894.9
27.5°	848.5	853.2	856.0	860.8	867.4	864.6	869.3	870.2	883.5	874.0
30°	822.9	829.5	832.4	838.0	843.7	843.7	848.5	850.3	863.6	854.1
32.5°	796.4	803.9	807.7	815.3	822.9	822.9	829.5	832.4	845.6	837.1
35°	769.9	780.3	785.0	794.5	802.1	803.0	809.6	813.4	826.7	818.2
37.5°	744.3	757.5	762.3	773.6	780.3	782.2	789.7	794.5	806.8	799.2
40°	717.8	733.9	739.6	751.9	757.5	761.3	768.9	774.6	786.0	779.3
42.5°	692.2	710.2	715.9	729.1	735.8	739.6	747.1	754.7	766.1	759.4
45°	666.6	686.5	693.2	707.4	713.0	718.7	727.2	733.9	744.3	738.6
47.5°	642.0	662.9	669.5	684.6	691.3	697.9	705.5	714.9	724.4	718.7
50°	616.5	638.2	646.8	662.9	668.5	676.1	685.6	694.1	703.6	698.8
52.5°	591.8	614.6	623.1	640.1	646.8	654.3	663.8	673.3	681.8	678.0
55°	565.3	589.9	599.4	617.4	624.0	631.6	642.0	652.4	660.0	657.2
57.5°	540.7	566.3	575.7	595.6	601.3	610.8	621.2	632.6	639.2	636.3
60°	516.1	541.6	553.0	572.9	579.5	589.0	599.4	611.7	617.4	615.5
62.5°	491.5	518.0	530.3	551.1	556.8	567.2	579.5	589.9	595.6	594.7
65°	468.7	494.3	508.5	529.3	535.0	546.4	557.7	569.1	574.8	574.8
67.5°	445.1	472.5	486.7	508.5	513.2	525.5	537.9	549.2	554.0	554.0
70°	423.3	449.8	465.9	487.7	492.4	503.8	517.0	529.3	533.1	534.1
72.5°	401.5	428.0	445.1	467.8	472.5	483.9	496.2	509.5	512.3	513.2
75°	380.7	407.2	424.2	447.0	451.7	463.1	476.3	488.6	492.4	493.4
77.5°	359.8	386.3	405.3	427.1	431.8	443.2	456.4	468.7	471.6	473.5
80°	340.9	366.5	384.5	408.1	412.9	424.2	436.5	448.8	450.7	453.6
82.5°	322.0	347.5	366.5	389.2	393.9	405.3	417.6	429.9	431.8	435.6
85°	304.0	329.5	348.5	370.3	375.9	386.3	399.6	411.0	412.9	415.7
87.5°	287.9	311.5	331.4	352.3	357.9	368.4	381.6	393.0	393.9	397.7
90°	270.8	294.5	314.4	335.2	340.9	350.4	363.6	375.0	376.9	379.7
92.5°	256.6	278.4	299.2	319.1	323.9	334.3	346.6	357.9	359.8	362.7
95°	241.5	263.2	284.1	303.0	307.8	318.2	329.5	340.9	342.8	345.6
97.5°	228.2	249.0	268.9	287.9	292.6	302.1	314.4	324.8	326.7	330.5
100°	215.9	235.8	256.6	273.7	278.4	287.9	299.2	309.6	311.5	315.3
102.5°	204.5	223.5	243.4	259.5	265.1	273.7	285.0	294.5	296.4	299.2
105°	194.1	212.1	231.1	246.2	251.9	260.4	270.8	280.3	282.2	285.0
107.5°	183.7	200.8	218.7	233.9	238.6	246.2	256.6	266.1	268.0	271.8
110°	174.2	191.3	208.3	222.5	228.2	233.9	244.3	252.8	254.7	257.6



TEST NUMBER: P893679
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	165.7	180.9	197.9	211.2	215.9	222.5	231.1	239.6	241.5	245.3
115°	158.1	172.3	189.4	201.7	205.5	211.2	220.6	228.2	230.1	232.9
117.5°	151.5	163.8	179.0	191.3	196.0	200.8	209.3	215.9	218.7	220.6
120°	145.8	157.2	170.4	181.8	187.5	191.3	198.9	205.5	208.3	210.2
122.5°	140.1	150.6	162.9	173.3	178.0	180.9	189.4	195.1	197.9	200.8
125°	135.4	144.9	156.2	164.8	169.5	172.3	179.9	185.6	188.4	190.3
127.5°	130.7	139.2	150.6	157.2	161.9	163.8	170.4	176.1	179.0	179.9
130°	125.9	134.5	143.9	150.6	154.4	157.2	162.9	166.7	169.5	170.4
132.5°	122.2	129.7	138.3	144.9	148.7	149.6	155.3	159.1	161.9	162.9
135°	119.3	125.0	133.5	139.2	142.0	143.9	148.7	151.5	154.4	155.3
137.5°	115.5	121.2	128.8	132.6	136.4	137.3	142.0	144.9	147.7	148.7
140°	112.7	117.4	124.0	127.8	131.6	131.6	135.4	138.3	141.1	141.1
142.5°	109.8	114.6	120.3	124.0	126.9	126.9	130.7	132.6	135.4	135.4
145°	106.1	110.8	116.5	119.3	122.2	122.2	125.0	126.9	129.7	129.7
147.5°	102.3	107.0	112.7	114.6	117.4	117.4	120.3	122.2	124.0	124.0
150°	97.5	101.3	108.0	110.8	113.6	113.6	115.5	117.4	119.3	119.3
152.5°	93.7	96.6	102.3	106.1	108.9	108.9	110.8	112.7	114.6	114.6
155°	89.0	91.9	96.6	101.3	104.2	105.1	107.0	108.0	109.8	109.8
157.5°	85.2	88.1	91.9	95.6	98.5	100.4	103.2	104.2	105.1	105.1
160°	80.5	82.4	86.2	90.0	92.8	94.7	99.4	100.4	101.3	101.3
162.5°	78.6	78.6	80.5	83.3	86.2	87.1	91.9	95.6	97.5	96.6
165°	79.5	78.6	78.6	79.5	81.4	82.4	85.2	90.9	92.8	91.9
167.5°	81.4	79.5	78.6	78.6	80.5	80.5	83.3	88.1	93.7	91.9
170°	81.4	78.6	76.7	76.7	77.6	77.6	79.5	82.4	88.1	89.0
172.5°	80.5	78.6	75.8	72.0	72.9	72.0	71.0	72.9	73.9	83.3
175°	81.4	78.6	75.8	71.0	69.1	66.3	61.6	57.8	56.8	46.4
177.5°	80.5	77.6	73.9	70.1	68.2	64.4	58.7	52.1	48.3	42.6
180°	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7



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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	13.73	15.04	14.37	15.71	16.48	17.28	18.59	17.92	19.25	20.02
	3H	15.08	16.28	15.73	16.95	17.76	20.19	21.39	20.85	22.07	22.87
	4H	15.48	16.62	16.16	17.31	18.12	21.67	22.81	22.34	23.50	24.31
	6H	15.70	16.76	16.39	17.46	18.29	23.23	24.29	23.91	24.99	25.82
	8H	15.73	16.75	16.43	17.47	18.30	24.04	25.05	24.73	25.77	26.61
	12H	15.74	16.71	16.44	17.43	18.29	24.92	25.89	25.62	26.60	27.47
4H	2H	14.87	16.01	15.55	16.70	17.51	17.60	18.74	18.27	19.42	20.24
	3H	16.52	17.49	17.20	18.22	19.05	20.75	21.72	21.43	22.45	23.28
	4H	17.08	17.99	17.79	18.71	19.57	22.40	23.30	23.10	24.02	24.88
	6H	17.43	18.22	18.15	18.97	19.84	24.17	24.96	24.89	25.71	26.58
	8H	17.50	18.25	18.23	19.00	19.88	25.10	25.85	25.83	26.60	27.48
	12H	17.53	18.21	18.27	18.98	19.87	26.12	26.81	26.87	27.58	28.47
8H	4H	18.17	18.92	18.90	19.67	20.55	22.57	23.32	23.30	24.07	24.95
	6H	18.78	19.42	19.54	20.21	21.09	24.52	25.16	25.28	25.95	26.83
	8H	18.98	19.56	19.74	20.34	21.24	25.60	26.18	26.37	26.97	27.87
	12H	19.09	19.61	19.86	20.39	21.34	26.82	27.34	27.59	28.12	29.07
12H	4H	18.52	19.21	19.27	19.98	20.87	22.57	23.25	23.31	24.02	24.91
	6H	19.30	19.88	20.07	20.67	21.57	24.55	25.13	25.32	25.92	26.82
	8H	19.63	20.15	20.40	20.93	21.88	25.70	26.22	26.47	27.00	27.95