

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: P893340

Luminaire Tested: 4MB-2SL-RNDU-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893340
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-2SL-RNDU-UNV-L850
Description: 2000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 5
Light Source: -
Ballast/Driver: -

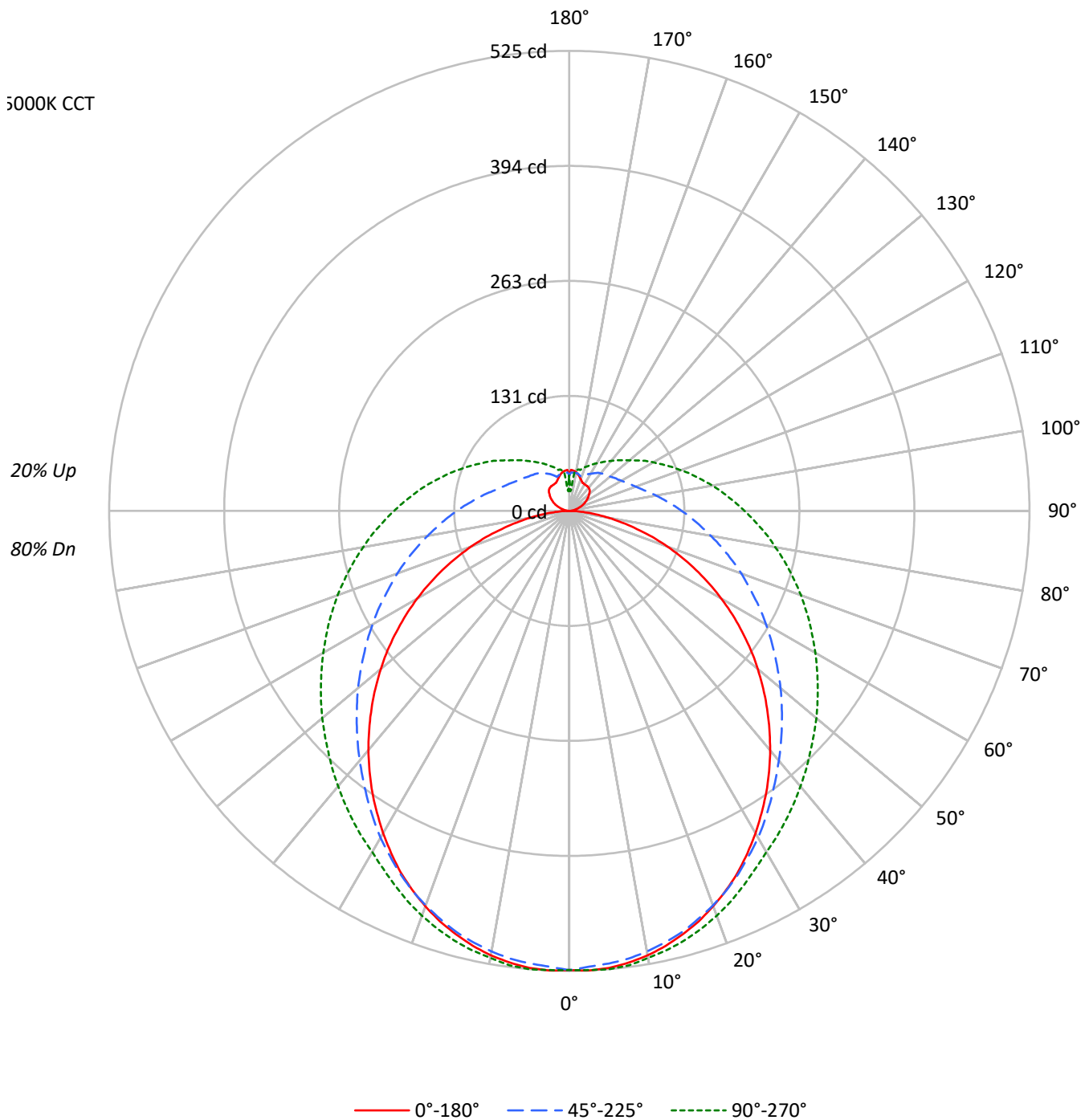
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2204.0 lumens
Efficiency: N/A
Efficacy: 159.7 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): 13.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.92
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 4MB-2SL-RNDU-UNV-L850

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°	3728	3728	3728
5°	3722	3571	3578
10°	3687	3431	3413
15°	3633	3291	3260
20°	3567	3142	3103
25°	3488	2993	2946
30°	3388	2843	2807
35°	3284	2688	2704
40°	3172	2547	2611
45°	3051	2423	2528
50°	2925	2312	2464
55°	2779	2210	2408
60°	2615	2126	2366
65°	2414	2052	2342
70°	2168	2006	2335
75°	1835	1973	2346
80°	1434	1972	2382
85°	914	2024	2460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3051 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	2.2
10°-20°	141.4	6.4
20°-30°	212.2	9.6
30°-40°	255.2	11.6
40°-50°	270.4	12.3
50°-60°	260.4	11.8
60°-70°	230.5	10.5
70°-80°	189.0	8.6
80°-90°	146.7	6.7
90°-100°	113.9	5.2
100°-110°	90.2	4.1
110°-120°	71.9	3.3
120°-130°	57.1	2.6
130°-140°	44.6	2.0
140°-150°	32.8	1.5
150°-160°	21.7	1.0
160°-170°	12.5	0.6
170°-180°	4.0	0.2
0°-30°	403.2	18.3
0°-40°	658.4	29.9
0°-60°	1189.2	54.0
0°-90°	1755.4	79.6
90°-120°	275.9	12.5
90°-150°	410.4	18.6
90°-180°	449.0	20.4
0°-180°	2204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	524	524	518	522	525	50
15°	500	501	498	505	508	141
25°	455	457	457	468	471	209
35°	392	397	401	422	431	245
45°	319	327	343	375	389	246
55°	241	253	286	329	346	215
65°	160	182	233	282	303	158
75°	80	120	186	238	260	85
85°	18	72	145	198	219	21
90°	0	57	128	180	200	1
95°	2	47	113	162	182	3
105°	9	38	89	133	150	10
115°	18	36	74	108	123	18
125°	26	38	65	89	100	23
135°	33	40	58	75	82	25
145°	35	40	53	64	68	22
155°	35	41	45	55	58	17
165°	42	44	43	43	48	12
175°	46	46	44	36	24	4
180°	40	40	40	40	40	



TEST NUMBER: P893340
 CATALOG NUMBER: 4MB-2SL-RNDU-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0
2.5°	525.0	524.5	525.5	526.5	529.5	525.5	527.5	522.0	522.5	523.0	520.5
5°	523.5	522.0	523.5	524.5	527.0	524.0	526.0	520.0	520.5	521.5	518.5
7.5°	520.0	518.5	519.5	520.5	523.0	520.0	522.5	516.5	517.5	518.0	515.5
10°	515.0	513.0	514.0	515.5	517.5	515.0	517.0	511.5	512.0	513.0	510.5
12.5°	508.5	506.6	507.6	508.5	511.0	508.5	510.5	505.1	506.1	507.1	504.6
15°	500.1	498.1	499.1	500.1	502.1	500.6	502.6	497.1	498.1	500.1	497.6
17.5°	491.1	488.1	489.1	490.6	492.6	491.6	493.1	488.6	489.1	491.1	488.6
20°	480.1	477.1	478.1	479.6	481.6	481.1	482.1	478.1	479.1	481.6	479.1
22.5°	468.2	465.2	466.2	468.2	469.7	469.7	470.2	467.2	468.2	470.7	468.7
25°	455.2	452.2	453.2	455.2	456.7	456.7	457.7	454.7	456.2	458.7	456.7
27.5°	440.2	438.7	438.7	440.7	441.7	442.7	443.2	440.7	442.7	445.2	443.7
30°	424.8	422.8	423.8	426.3	426.3	428.3	428.3	426.3	428.8	431.8	430.8
32.5°	408.3	406.8	407.3	410.3	410.3	412.8	412.3	411.3	413.8	417.3	416.3
35°	391.9	390.4	390.9	393.9	393.9	396.9	395.9	395.9	398.4	402.4	401.4
37.5°	374.4	373.4	373.9	376.9	376.9	379.9	378.9	379.4	382.4	386.9	386.4
40°	356.5	355.5	356.5	359.0	360.0	362.5	361.5	362.5	366.5	370.4	371.9
42.5°	338.0	337.5	338.5	341.0	342.0	344.5	344.0	345.5	349.5	355.5	357.5
45°	319.1	319.1	320.1	322.6	323.6	326.6	326.1	328.1	333.0	339.5	343.0
47.5°	300.1	300.6	301.1	304.1	304.1	309.1	307.6	310.6	317.1	324.6	328.6
50°	280.7	281.7	282.2	284.7	285.7	290.2	289.2	294.2	301.1	309.1	314.6
52.5°	261.3	262.3	263.2	265.2	266.2	271.7	270.7	277.2	285.7	294.2	300.1
55°	240.8	242.8	243.3	245.8	247.3	252.8	252.8	260.3	269.2	278.7	286.2
57.5°	220.9	222.9	223.4	226.4	228.3	234.8	235.8	244.3	254.3	263.7	272.7
60°	200.4	202.9	203.4	206.4	209.9	216.9	218.4	227.8	238.8	248.8	259.3
62.5°	180.0	182.5	183.5	186.5	192.0	198.9	201.4	212.4	223.9	234.8	246.3
65°	159.5	162.0	163.5	167.5	174.0	181.5	185.0	196.4	209.4	220.9	232.8
67.5°	139.1	142.1	144.1	149.1	157.6	165.5	169.0	182.0	195.4	207.9	220.4
70°	119.2	122.2	124.6	131.1	141.1	149.1	153.6	167.5	181.5	194.9	208.9
72.5°	99.7	102.7	106.2	114.2	125.1	134.1	139.1	153.6	169.0	182.5	196.9
75°	79.8	83.3	87.3	98.2	110.7	119.7	125.1	140.6	156.6	170.0	185.5
77.5°	61.8	65.3	71.3	82.3	96.2	106.2	112.2	128.6	145.1	158.5	174.5
80°	45.4	48.9	56.8	68.8	83.3	92.7	100.2	117.2	134.1	148.1	164.0
82.5°	30.9	34.4	43.9	56.8	72.3	81.8	88.7	106.7	123.6	138.1	154.1
85°	17.9	22.9	32.9	46.9	62.8	72.3	79.3	97.7	114.2	128.6	145.1
87.5°	8.0	14.0	24.9	38.9	54.8	63.8	71.3	88.2	105.7	120.2	136.6
90°	0.5	8.0	19.4	32.9	48.4	56.8	63.8	80.8	97.2	112.2	128.1
92.5°	1.0	5.5	16.0	28.4	42.9	51.4	58.3	74.3	89.7	105.2	120.7
95°	2.5	5.5	14.0	25.4	38.9	46.9	53.3	68.8	83.3	98.2	113.2
97.5°	4.0	6.0	13.5	23.9	35.9	43.4	49.4	63.8	78.3	91.7	106.7
100°	5.5	7.5	13.5	22.9	33.9	40.9	46.4	59.8	73.3	85.8	100.7
102.5°	7.0	9.0	14.5	22.9	32.9	38.9	44.4	56.8	69.3	80.8	94.7
105°	9.0	10.5	15.5	22.9	31.9	37.9	42.4	53.8	65.8	76.8	89.2
107.5°	11.0	12.0	16.5	23.4	31.9	36.9	41.4	51.9	62.8	72.8	84.8
110°	13.5	14.0	17.9	24.4	31.9	36.4	40.4	50.4	60.3	69.8	80.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	15.5	15.5	19.4	25.4	31.9	36.4	39.9	48.9	58.3	66.8	77.3
115°	17.9	17.9	20.9	26.4	32.4	36.4	39.9	48.4	56.8	64.3	74.3
117.5°	19.9	19.9	22.9	27.4	33.4	36.9	39.9	47.4	55.3	62.3	71.3
120°	21.9	21.9	23.9	28.4	33.9	37.4	39.9	46.9	53.8	60.8	68.8
122.5°	23.9	23.9	25.4	29.9	34.4	37.4	39.9	46.4	52.8	58.8	66.3
125°	25.9	25.9	26.9	30.9	35.4	37.9	40.4	46.4	52.4	57.3	64.8
127.5°	27.9	27.4	28.9	32.4	35.9	38.4	40.9	46.4	51.4	56.3	62.8
130°	29.4	28.9	30.9	33.4	36.9	38.9	40.9	45.9	50.9	55.3	60.8
132.5°	31.4	30.4	32.9	33.9	37.9	39.9	41.4	45.9	50.4	54.3	59.8
135°	32.9	31.9	34.4	35.4	38.4	40.4	41.9	45.9	49.9	53.8	58.3
137.5°	33.9	33.4	35.9	36.9	38.9	40.9	42.4	45.9	49.4	52.8	57.3
140°	34.4	33.9	35.9	37.9	38.9	40.9	41.9	45.4	48.9	51.9	55.8
142.5°	34.9	34.9	36.4	38.4	38.9	40.4	41.9	44.9	47.9	50.4	54.8
145°	34.9	34.9	36.4	38.9	39.4	39.9	40.9	43.9	46.4	48.9	52.8
147.5°	34.9	34.9	36.9	38.9	39.9	40.4	39.9	42.9	45.4	47.4	50.9
150°	34.9	34.9	36.9	38.9	40.4	40.9	40.4	41.9	43.9	45.9	48.9
152.5°	35.4	35.4	36.9	38.9	40.4	40.9	40.9	40.9	42.4	44.4	47.4
155°	35.4	35.9	36.9	39.9	40.9	41.4	41.4	41.4	40.9	42.9	45.4
157.5°	36.9	37.4	37.9	40.4	41.4	41.9	41.9	41.9	41.4	40.9	43.4
160°	38.4	38.9	39.4	41.4	42.4	42.9	42.9	42.9	41.9	41.4	41.4
162.5°	39.9	40.9	40.9	41.9	42.9	43.4	43.4	43.9	42.9	42.4	41.9
165°	41.9	42.4	42.4	42.9	43.9	44.4	43.9	44.4	43.9	43.4	42.9
167.5°	43.4	43.9	43.9	44.4	44.4	44.9	44.9	44.9	44.4	43.9	43.9
170°	44.9	45.4	45.4	45.4	45.4	45.4	45.4	45.4	44.9	43.9	43.9
172.5°	45.9	46.4	46.4	45.9	45.9	45.9	45.9	45.4	44.4	43.9	43.9
175°	46.4	46.9	46.9	46.4	45.9	45.9	45.9	45.4	44.4	43.9	43.9
177.5°	46.9	47.4	46.9	46.9	45.9	45.9	45.9	45.9	44.9	44.4	43.9
180°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0	524.0
2.5°	523.5	517.5	521.5	522.0	524.0	522.0	523.5	522.0	526.0	524.5
5°	521.5	516.0	519.5	520.0	522.5	520.0	522.5	521.5	526.5	525.0
7.5°	518.0	513.5	516.5	517.0	520.0	517.5	520.0	519.0	525.0	523.0
10°	513.0	509.5	512.5	513.0	516.0	513.5	515.5	514.5	521.0	518.0
12.5°	507.6	504.6	507.1	507.6	511.0	508.5	511.0	510.0	516.5	513.5
15°	499.6	498.1	500.6	501.6	505.1	503.1	505.6	504.6	511.5	507.6
17.5°	491.6	490.6	493.1	494.1	498.1	495.6	498.1	497.1	504.1	500.1
20°	481.6	481.1	483.6	485.1	488.6	486.1	489.1	488.1	495.6	491.6
22.5°	471.2	471.2	473.1	474.6	478.1	476.1	479.1	478.6	486.1	482.1
25°	459.7	460.2	462.2	464.2	468.2	466.7	469.2	469.2	476.1	471.2
27.5°	446.7	449.2	450.7	453.2	456.7	455.2	457.7	458.2	465.2	460.2
30°	433.3	436.8	438.2	441.2	444.2	444.2	446.7	447.7	454.7	449.7
32.5°	419.3	423.3	425.3	429.3	433.3	433.3	436.8	438.2	445.2	440.7
35°	405.3	410.8	413.3	418.3	422.3	422.8	426.3	428.3	435.3	430.8
37.5°	391.9	398.9	401.4	407.3	410.8	411.8	415.8	418.3	424.8	420.8
40°	377.9	386.4	389.4	395.9	398.9	400.9	404.8	407.8	413.8	410.3
42.5°	364.5	373.9	376.9	383.9	387.4	389.4	393.4	397.4	403.3	399.9
45°	351.0	361.5	365.0	372.4	375.4	378.4	382.9	386.4	391.9	388.9
47.5°	338.0	349.0	352.5	360.5	364.0	367.5	371.4	376.4	381.4	378.4
50°	324.6	336.0	340.5	349.0	352.0	356.0	361.0	365.5	370.4	367.9
52.5°	311.6	323.6	328.1	337.0	340.5	344.5	349.5	354.5	359.0	357.0
55°	297.7	310.6	315.6	325.1	328.6	332.6	338.0	343.5	347.5	346.0
57.5°	284.7	298.1	303.1	313.6	316.6	321.6	327.1	333.0	336.5	335.0
60°	271.7	285.2	291.2	301.6	305.1	310.1	315.6	322.1	325.1	324.1
62.5°	258.8	272.7	279.2	290.2	293.2	298.6	305.1	310.6	313.6	313.1
65°	246.8	260.3	267.7	278.7	281.7	287.7	293.7	299.6	302.6	302.6
67.5°	234.3	248.8	256.3	267.7	270.2	276.7	283.2	289.2	291.7	291.7
70°	222.9	236.8	245.3	256.8	259.3	265.2	272.2	278.7	280.7	281.2
72.5°	211.4	225.4	234.3	246.3	248.8	254.8	261.3	268.2	269.7	270.2
75°	200.4	214.4	223.4	235.3	237.8	243.8	250.8	257.3	259.3	259.8
77.5°	189.5	203.4	213.4	224.9	227.4	233.3	240.3	246.8	248.3	249.3
80°	179.5	192.9	202.4	214.9	217.4	223.4	229.8	236.3	237.3	238.8
82.5°	169.5	183.0	192.9	204.9	207.4	213.4	219.9	226.4	227.4	229.3
85°	160.0	173.5	183.5	194.9	197.9	203.4	210.4	216.4	217.4	218.9
87.5°	151.6	164.0	174.5	185.5	188.5	193.9	200.9	206.9	207.4	209.4
90°	142.6	155.1	165.5	176.5	179.5	184.5	191.5	197.4	198.4	199.9
92.5°	135.1	146.6	157.6	168.0	170.5	176.0	182.5	188.5	189.5	191.0
95°	127.1	138.6	149.6	159.5	162.0	167.5	173.5	179.5	180.5	182.0
97.5°	120.2	131.1	141.6	151.6	154.1	159.0	165.5	171.0	172.0	174.0
100°	113.7	124.1	135.1	144.1	146.6	151.6	157.6	163.0	164.0	166.0
102.5°	107.7	117.7	128.1	136.6	139.6	144.1	150.1	155.1	156.1	157.6
105°	102.2	111.7	121.7	129.6	132.6	137.1	142.6	147.6	148.6	150.1
107.5°	96.7	105.7	115.2	123.1	125.6	129.6	135.1	140.1	141.1	143.1
110°	91.7	100.7	109.7	117.2	120.2	123.1	128.6	133.1	134.1	135.6



TEST NUMBER: P893340
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	87.3	95.2	104.2	111.2	113.7	117.2	121.7	126.1	127.1	129.1
115°	83.3	90.7	99.7	106.2	108.2	111.2	116.2	120.2	121.2	122.6
117.5°	79.8	86.3	94.2	100.7	103.2	105.7	110.2	113.7	115.2	116.2
120°	76.8	82.8	89.7	95.7	98.7	100.7	104.7	108.2	109.7	110.7
122.5°	73.8	79.3	85.8	91.2	93.7	95.2	99.7	102.7	104.2	105.7
125°	71.3	76.3	82.3	86.8	89.2	90.7	94.7	97.7	99.2	100.2
127.5°	68.8	73.3	79.3	82.8	85.3	86.3	89.7	92.7	94.2	94.7
130°	66.3	70.8	75.8	79.3	81.3	82.8	85.8	87.7	89.2	89.7
132.5°	64.3	68.3	72.8	76.3	78.3	78.8	81.8	83.8	85.3	85.8
135°	62.8	65.8	70.3	73.3	74.8	75.8	78.3	79.8	81.3	81.8
137.5°	60.8	63.8	67.8	69.8	71.8	72.3	74.8	76.3	77.8	78.3
140°	59.3	61.8	65.3	67.3	69.3	69.3	71.3	72.8	74.3	74.3
142.5°	57.8	60.3	63.3	65.3	66.8	66.8	68.8	69.8	71.3	71.3
145°	55.8	58.3	61.3	62.8	64.3	64.3	65.8	66.8	68.3	68.3
147.5°	53.8	56.3	59.3	60.3	61.8	61.8	63.3	64.3	65.3	65.3
150°	51.4	53.3	56.8	58.3	59.8	59.8	60.8	61.8	62.8	62.8
152.5°	49.4	50.9	53.8	55.8	57.3	57.3	58.3	59.3	60.3	60.3
155°	46.9	48.4	50.9	53.3	54.8	55.3	56.3	56.8	57.8	57.8
157.5°	44.9	46.4	48.4	50.4	51.9	52.8	54.3	54.8	55.3	55.3
160°	42.4	43.4	45.4	47.4	48.9	49.9	52.4	52.8	53.3	53.3
162.5°	41.4	41.4	42.4	43.9	45.4	45.9	48.4	50.4	51.4	50.9
165°	41.9	41.4	41.4	41.9	42.9	43.4	44.9	47.9	48.9	48.4
167.5°	42.9	41.9	41.4	41.4	42.4	42.4	43.9	46.4	49.4	48.4
170°	42.9	41.4	40.4	40.4	40.9	40.9	41.9	43.4	46.4	46.9
172.5°	42.4	41.4	39.9	37.9	38.4	37.9	37.4	38.4	38.9	43.9
175°	42.9	41.4	39.9	37.4	36.4	34.9	32.4	30.4	29.9	24.4
177.5°	42.4	40.9	38.9	36.9	35.9	33.9	30.9	27.4	25.4	22.4
180°	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4



TEST NUMBER: P893340
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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	11.50	12.81	12.14	13.48	14.25	15.05	16.36	15.69	17.02	17.79
	3H	12.85	14.05	13.51	14.72	15.53	17.97	19.16	18.62	19.84	20.64
	4H	13.26	14.39	13.93	15.08	15.90	19.44	20.58	20.11	21.27	22.08
	6H	13.47	14.53	14.16	15.23	16.06	21.00	22.06	21.69	22.76	23.59
	8H	13.51	14.52	14.20	15.24	16.07	21.81	22.83	22.50	23.54	24.38
	12H	13.51	14.49	14.21	15.20	16.06	22.69	23.66	23.39	24.38	25.24
4H	2H	12.64	13.78	13.32	14.47	15.28	15.37	16.51	16.04	17.19	18.01
	3H	14.29	15.26	14.97	15.99	16.82	18.52	19.49	19.21	20.22	21.05
	4H	14.86	15.76	15.56	16.48	17.34	20.17	21.07	20.87	21.79	22.66
	6H	15.20	15.99	15.92	16.74	17.61	21.94	22.74	22.66	23.49	24.35
	8H	15.27	16.02	16.00	16.77	17.65	22.87	23.62	23.60	24.37	25.26
	12H	15.30	15.98	16.05	16.75	17.64	23.90	24.58	24.64	25.35	26.24
8H	4H	15.94	16.69	16.67	17.44	18.32	20.34	21.09	21.07	21.84	22.72
	6H	16.55	17.19	17.31	17.98	18.86	22.29	22.93	23.05	23.72	24.61
	8H	16.75	17.33	17.51	18.11	19.01	23.38	23.95	24.14	24.74	25.64
	12H	16.86	17.38	17.63	18.16	19.11	24.59	25.11	25.36	25.89	26.85
12H	4H	16.30	16.98	17.04	17.75	18.64	20.34	21.02	21.08	21.79	22.68
	6H	17.07	17.65	17.84	18.44	19.34	22.32	22.90	23.09	23.69	24.59
	8H	17.40	17.92	18.17	18.70	19.65	23.47	23.99	24.24	24.77	25.72