

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: P893452

Luminaire Tested: 4MB-3SL-RNDU-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893452
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-3SL-RNDU-UNV-L850
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 5
Light Source: -
Ballast/Driver: -

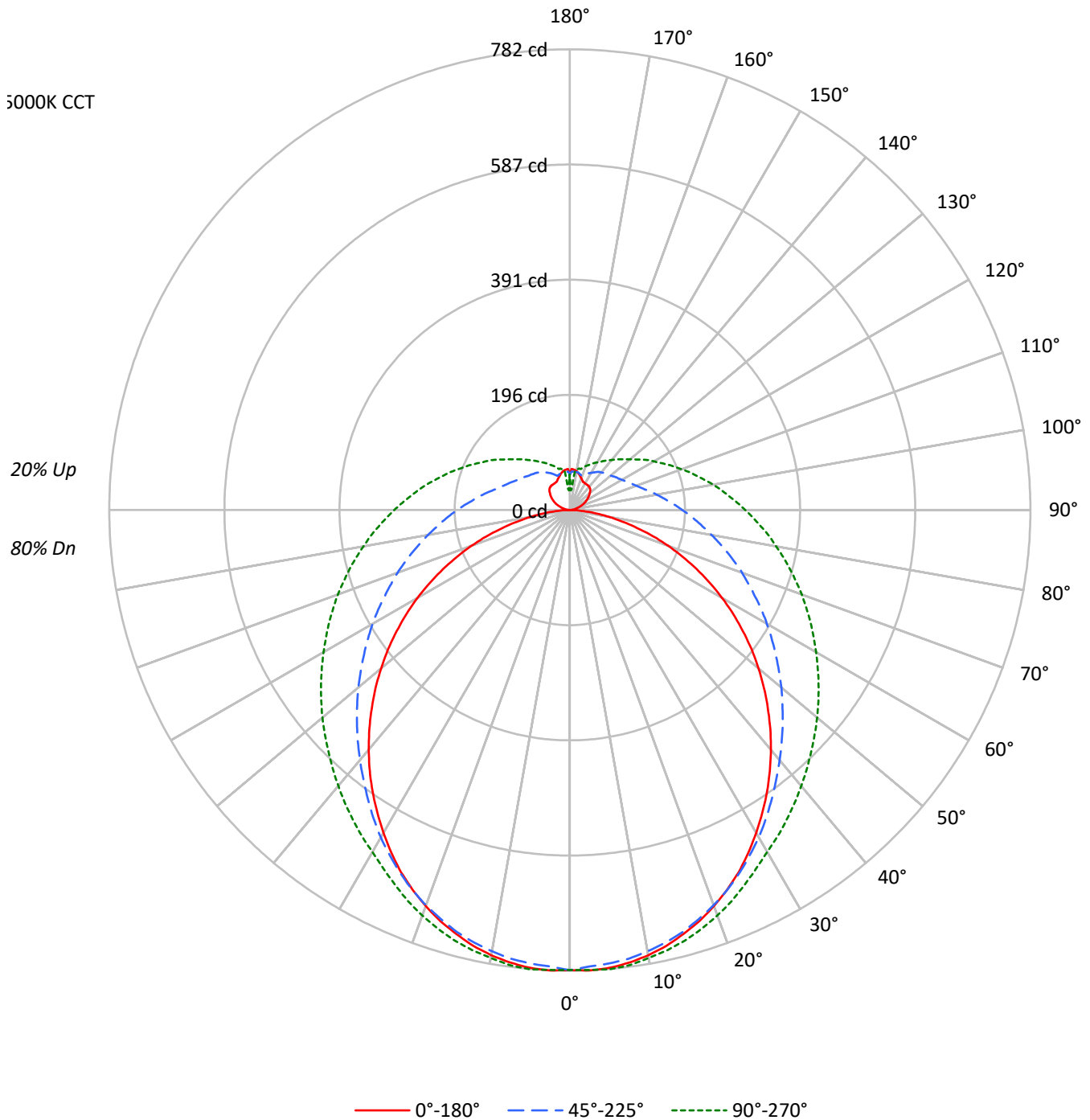
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3284.0 lumens
Efficiency: N/A
Efficacy: 155.6 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): 21.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893452
CATALOG NUMBER: 4MB-3SL-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
RCR																				
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80		
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	61		
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	49		
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	41		
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	34		
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	29		
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	26		
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	23		
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	20		
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	18		
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5555	5555	5555
5°	5545	5320	5332
10°	5494	5113	5085
15°	5412	4903	4858
20°	5315	4682	4624
25°	5198	4460	4390
30°	5047	4236	4182
35°	4892	4004	4029
40°	4726	3796	3890
45°	4546	3610	3767
50°	4357	3446	3672
55°	4141	3293	3588
60°	3896	3168	3526
65°	3598	3057	3490
70°	3230	2989	3479
75°	2734	2940	3494
80°	2136	2939	3549
85°	1364	3016	3665

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4546 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	2.2
10°-20°	210.6	6.4
20°-30°	316.2	9.6
30°-40°	380.3	11.6
40°-50°	402.9	12.3
50°-60°	388.0	11.8
60°-70°	343.4	10.5
70°-80°	281.7	8.6
80°-90°	218.6	6.7
90°-100°	169.6	5.2
100°-110°	134.4	4.1
110°-120°	107.1	3.3
120°-130°	85.1	2.6
130°-140°	66.4	2.0
140°-150°	48.9	1.5
150°-160°	32.3	1.0
160°-170°	18.6	0.6
170°-180°	6.0	0.2
0°-30°	600.8	18.3
0°-40°	981.0	29.9
0°-60°	1772.0	54.0
0°-90°	2615.6	79.6
90°-120°	411.1	12.5
90°-150°	611.5	18.6
90°-180°	668.0	20.3
0°-180°	3284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	780	781	773	778	782	74
15°	745	746	741	752	756	210
25°	678	680	680	698	702	312
35°	584	591	598	629	642	365
45°	475	487	511	559	580	367
55°	359	377	426	490	516	321
65°	238	270	347	420	451	235
75°	119	178	276	354	387	127
85°	27	108	216	295	326	31
90°	1	85	191	267	298	2
95°	4	70	169	241	271	4
105°	13	56	133	198	224	14
115°	27	54	111	161	183	26
125°	39	56	97	133	149	34
135°	49	60	87	111	122	37
145°	52	59	79	96	102	33
155°	53	62	68	82	86	25
165°	62	66	64	64	72	17
175°	69	68	65	54	36	7
180°	60	60	60	60	60	



TEST NUMBER: P893452
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	780.8	780.8	780.8	780.8	780.8	780.8	780.8	780.8	780.8	780.8	780.8
2.5°	782.3	781.5	783.0	784.5	788.9	783.0	786.0	777.8	778.5	779.3	775.6
5°	780.0	777.8	780.0	781.5	785.2	780.8	783.7	774.8	775.6	777.1	772.6
7.5°	774.8	772.6	774.1	775.6	779.3	774.8	778.5	769.6	771.1	771.9	768.1
10°	767.4	764.4	765.9	768.1	771.1	767.4	770.4	762.2	762.9	764.4	760.7
12.5°	757.7	754.8	756.3	757.7	761.5	757.7	760.7	752.5	754.0	755.5	751.8
15°	745.1	742.1	743.6	745.1	748.1	745.9	748.8	740.7	742.1	745.1	741.4
17.5°	731.7	727.3	728.8	731.0	734.0	732.5	734.7	728.0	728.8	731.7	728.0
20°	715.4	710.9	712.4	714.7	717.6	716.9	718.4	712.4	713.9	717.6	713.9
22.5°	697.6	693.1	694.6	697.6	699.8	699.8	700.5	696.1	697.6	701.3	698.3
25°	678.3	673.8	675.3	678.3	680.5	680.5	682.0	677.5	679.7	683.5	680.5
27.5°	656.0	653.7	653.7	656.7	658.2	659.7	660.4	656.7	659.7	663.4	661.2
30°	632.9	630.0	631.5	635.2	635.2	638.1	638.1	635.2	638.9	643.3	641.9
32.5°	608.4	606.2	606.9	611.4	611.4	615.1	614.4	612.9	616.6	621.8	620.3
35°	583.9	581.7	582.4	586.9	586.9	591.3	589.9	589.9	593.6	599.5	598.0
37.5°	557.9	556.4	557.2	561.6	561.6	566.1	564.6	565.3	569.8	576.5	575.7
40°	531.2	529.7	531.2	534.9	536.4	540.1	538.6	540.1	546.0	552.0	554.2
42.5°	503.7	502.9	504.4	508.1	509.6	513.3	512.6	514.8	520.8	529.7	532.7
45°	475.4	475.4	476.9	480.6	482.1	486.6	485.8	488.8	496.2	505.9	511.1
47.5°	447.2	448.0	448.7	453.2	453.2	460.6	458.4	462.8	472.5	483.6	489.6
50°	418.2	419.7	420.5	424.2	425.7	432.4	430.9	438.3	448.7	460.6	468.8
52.5°	389.3	390.8	392.2	395.2	396.7	404.9	403.4	413.0	425.7	438.3	447.2
55°	358.8	361.8	362.5	366.2	368.5	376.6	376.6	387.8	401.2	415.3	426.4
57.5°	329.1	332.1	332.8	337.3	340.2	349.9	351.4	364.0	378.9	393.0	406.4
60°	298.6	302.4	303.1	307.6	312.8	323.2	325.4	339.5	355.8	370.7	386.3
62.5°	268.2	271.9	273.4	277.8	286.0	296.4	300.1	316.5	333.6	349.9	367.0
65°	237.7	241.4	243.7	249.6	259.3	270.4	275.6	292.7	312.0	329.1	346.9
67.5°	207.3	211.7	214.7	222.1	234.8	246.6	251.8	271.2	291.2	309.8	328.4
70°	177.6	182.0	185.7	195.4	210.2	222.1	228.8	249.6	270.4	290.5	311.3
72.5°	148.6	153.0	158.2	170.1	186.5	199.8	207.3	228.8	251.8	271.9	293.4
75°	118.9	124.1	130.0	146.3	164.9	178.3	186.5	209.5	233.3	253.3	276.4
77.5°	92.1	97.3	106.2	122.6	143.4	158.2	167.1	191.7	216.2	236.2	260.0
80°	67.6	72.8	84.7	102.5	124.1	138.2	149.3	174.6	199.8	220.6	244.4
82.5°	46.1	51.3	65.4	84.7	107.7	121.8	132.2	159.0	184.2	205.8	229.6
85°	26.7	34.2	49.0	69.8	93.6	107.7	118.1	145.6	170.1	191.7	216.2
87.5°	11.9	20.8	37.1	57.9	81.7	95.1	106.2	131.5	157.5	179.0	203.6
90°	0.7	11.9	29.0	49.0	72.1	84.7	95.1	120.3	144.9	167.1	190.9
92.5°	1.5	8.2	23.8	42.3	63.9	76.5	86.9	110.7	133.7	156.7	179.8
95°	3.7	8.2	20.8	37.9	57.9	69.8	79.5	102.5	124.1	146.3	168.6
97.5°	5.9	8.9	20.1	35.7	53.5	64.6	73.5	95.1	116.6	136.7	159.0
100°	8.2	11.1	20.1	34.2	50.5	60.9	69.1	89.1	109.2	127.8	150.1
102.5°	10.4	13.4	21.5	34.2	49.0	57.9	66.1	84.7	103.3	120.3	141.1
105°	13.4	15.6	23.0	34.2	47.5	56.5	63.1	80.2	98.1	114.4	133.0
107.5°	16.3	17.8	24.5	34.9	47.5	55.0	61.7	77.3	93.6	108.5	126.3
110°	20.1	20.8	26.7	36.4	47.5	54.2	60.2	75.0	89.9	104.0	120.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	23.0	23.0	29.0	37.9	47.5	54.2	59.4	72.8	86.9	99.5	115.1
115°	26.7	26.7	31.2	39.4	48.3	54.2	59.4	72.1	84.7	95.8	110.7
117.5°	29.7	29.7	34.2	40.9	49.8	55.0	59.4	70.6	82.5	92.9	106.2
120°	32.7	32.7	35.7	42.3	50.5	55.7	59.4	69.8	80.2	90.6	102.5
122.5°	35.7	35.7	37.9	44.6	51.3	55.7	59.4	69.1	78.7	87.7	98.8
125°	38.6	38.6	40.1	46.1	52.7	56.5	60.2	69.1	78.0	85.4	96.6
127.5°	41.6	40.9	43.1	48.3	53.5	57.2	60.9	69.1	76.5	83.9	93.6
130°	43.8	43.1	46.1	49.8	55.0	57.9	60.9	68.3	75.8	82.5	90.6
132.5°	46.8	45.3	49.0	50.5	56.5	59.4	61.7	68.3	75.0	81.0	89.1
135°	49.0	47.5	51.3	52.7	57.2	60.2	62.4	68.3	74.3	80.2	86.9
137.5°	50.5	49.8	53.5	55.0	57.9	60.9	63.1	68.3	73.5	78.7	85.4
140°	51.3	50.5	53.5	56.5	57.9	60.9	62.4	67.6	72.8	77.3	83.2
142.5°	52.0	52.0	54.2	57.2	57.9	60.2	62.4	66.9	71.3	75.0	81.7
145°	52.0	52.0	54.2	57.9	58.7	59.4	60.9	65.4	69.1	72.8	78.7
147.5°	52.0	52.0	55.0	57.9	59.4	60.2	59.4	63.9	67.6	70.6	75.8
150°	52.0	52.0	55.0	57.9	60.2	60.9	60.2	62.4	65.4	68.3	72.8
152.5°	52.7	52.7	55.0	57.9	60.2	60.9	60.9	60.9	63.1	66.1	70.6
155°	52.7	53.5	55.0	59.4	60.9	61.7	61.7	61.7	60.9	63.9	67.6
157.5°	55.0	55.7	56.5	60.2	61.7	62.4	62.4	62.4	61.7	60.9	64.6
160°	57.2	57.9	58.7	61.7	63.1	63.9	63.9	63.9	62.4	61.7	61.7
162.5°	59.4	60.9	60.9	62.4	63.9	64.6	64.6	65.4	63.9	63.1	62.4
165°	62.4	63.1	63.1	63.9	65.4	66.1	65.4	66.1	65.4	64.6	63.9
167.5°	64.6	65.4	65.4	66.1	66.1	66.9	66.9	66.9	66.1	65.4	65.4
170°	66.9	67.6	67.6	67.6	67.6	67.6	67.6	67.6	66.9	65.4	65.4
172.5°	68.3	69.1	69.1	68.3	68.3	68.3	68.3	67.6	66.1	65.4	65.4
175°	69.1	69.8	69.8	69.1	68.3	68.3	68.3	67.6	66.1	65.4	65.4
177.5°	69.8	70.6	69.8	69.8	68.3	68.3	68.3	68.3	66.9	66.1	65.4
180°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	780.8	780.8	780.8	780.8	780.8	780.8	780.8	780.8	780.8	780.8
2.5°	780.0	771.1	777.1	777.8	780.8	777.8	780.0	777.8	783.7	781.5
5°	777.1	768.9	774.1	774.8	778.5	774.8	778.5	777.1	784.5	782.3
7.5°	771.9	765.2	769.6	770.4	774.8	771.1	774.8	773.3	782.3	779.3
10°	764.4	759.2	763.7	764.4	768.9	765.2	768.1	766.7	776.3	771.9
12.5°	756.3	751.8	755.5	756.3	761.5	757.7	761.5	760.0	769.6	765.2
15°	744.4	742.1	745.9	747.3	752.5	749.6	753.3	751.8	762.2	756.3
17.5°	732.5	731.0	734.7	736.2	742.1	738.4	742.1	740.7	751.1	745.1
20°	717.6	716.9	720.6	722.8	728.0	724.3	728.8	727.3	738.4	732.5
22.5°	702.0	702.0	705.0	707.2	712.4	709.5	713.9	713.2	724.3	718.4
25°	684.9	685.7	688.7	691.6	697.6	695.3	699.1	699.1	709.5	702.0
27.5°	665.6	669.3	671.6	675.3	680.5	678.3	682.0	682.7	693.1	685.7
30°	645.6	650.8	653.0	657.5	661.9	661.9	665.6	667.1	677.5	670.1
32.5°	624.8	630.7	633.7	639.6	645.6	645.6	650.8	653.0	663.4	656.7
35°	604.0	612.1	615.9	623.3	629.2	630.0	635.2	638.1	648.5	641.9
37.5°	583.9	594.3	598.0	606.9	612.1	613.6	619.6	623.3	632.9	627.0
40°	563.1	575.7	580.2	589.9	594.3	597.3	603.2	607.7	616.6	611.4
42.5°	543.1	557.2	561.6	572.0	577.2	580.2	586.1	592.1	601.0	595.8
45°	523.0	538.6	543.8	554.9	559.4	563.9	570.5	575.7	583.9	579.5
47.5°	503.7	520.0	525.2	537.1	542.3	547.5	553.5	560.9	568.3	563.9
50°	483.6	500.7	507.4	520.0	524.5	530.4	537.9	544.5	552.0	548.3
52.5°	464.3	482.1	488.8	502.2	507.4	513.3	520.8	528.2	534.9	531.9
55°	443.5	462.8	470.2	484.4	489.6	495.5	503.7	511.9	517.8	515.6
57.5°	424.2	444.2	451.7	467.3	471.7	479.2	487.3	496.2	501.4	499.2
60°	404.9	424.9	433.8	449.4	454.6	462.1	470.2	479.9	484.4	482.9
62.5°	385.6	406.4	416.0	432.4	436.8	445.0	454.6	462.8	467.3	466.5
65°	367.7	387.8	398.9	415.3	419.7	428.6	437.6	446.5	450.9	450.9
67.5°	349.2	370.7	381.8	398.9	402.6	412.3	422.0	430.9	434.6	434.6
70°	332.1	352.9	365.5	382.6	386.3	395.2	405.6	415.3	418.2	419.0
72.5°	315.0	335.8	349.2	367.0	370.7	379.6	389.3	399.7	401.9	402.6
75°	298.6	319.4	332.8	350.6	354.4	363.3	373.7	383.3	386.3	387.0
77.5°	282.3	303.1	318.0	335.0	338.8	347.7	358.1	367.7	370.0	371.4
80°	267.4	287.5	301.6	320.2	323.9	332.8	342.5	352.1	353.6	355.8
82.5°	252.6	272.6	287.5	305.3	309.0	318.0	327.6	337.3	338.8	341.7
85°	238.5	258.5	273.4	290.5	294.9	303.1	313.5	322.4	323.9	326.1
87.5°	225.8	244.4	260.0	276.4	280.8	289.0	299.4	308.3	309.0	312.0
90°	212.5	231.0	246.6	263.0	267.4	274.9	285.3	294.2	295.7	297.9
92.5°	201.3	218.4	234.8	250.4	254.1	262.2	271.9	280.8	282.3	284.5
95°	189.4	206.5	222.9	237.7	241.4	249.6	258.5	267.4	268.9	271.2
97.5°	179.0	195.4	211.0	225.8	229.6	237.0	246.6	254.8	256.3	259.3
100°	169.4	185.0	201.3	214.7	218.4	225.8	234.8	242.9	244.4	247.4
102.5°	160.5	175.3	190.9	203.6	208.0	214.7	223.6	231.0	232.5	234.8
105°	152.3	166.4	181.3	193.2	197.6	204.3	212.5	219.9	221.4	223.6
107.5°	144.1	157.5	171.6	183.5	187.2	193.2	201.3	208.8	210.2	213.2
110°	136.7	150.1	163.4	174.6	179.0	183.5	191.7	198.4	199.8	202.1



TEST NUMBER: P893452
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	130.0	141.9	155.3	165.7	169.4	174.6	181.3	188.0	189.4	192.4
115°	124.1	135.2	148.6	158.2	161.2	165.7	173.1	179.0	180.5	182.8
117.5°	118.9	128.5	140.4	150.1	153.8	157.5	164.2	169.4	171.6	173.1
120°	114.4	123.3	133.7	142.6	147.1	150.1	156.0	161.2	163.4	164.9
122.5°	109.9	118.1	127.8	135.9	139.7	141.9	148.6	153.0	155.3	157.5
125°	106.2	113.7	122.6	129.3	133.0	135.2	141.1	145.6	147.8	149.3
127.5°	102.5	109.2	118.1	123.3	127.0	128.5	133.7	138.2	140.4	141.1
130°	98.8	105.5	112.9	118.1	121.1	123.3	127.8	130.7	133.0	133.7
132.5°	95.8	101.8	108.5	113.7	116.6	117.4	121.8	124.8	127.0	127.8
135°	93.6	98.1	104.7	109.2	111.4	112.9	116.6	118.9	121.1	121.8
137.5°	90.6	95.1	101.0	104.0	107.0	107.7	111.4	113.7	115.9	116.6
140°	88.4	92.1	97.3	100.3	103.3	103.3	106.2	108.5	110.7	110.7
142.5°	86.2	89.9	94.3	97.3	99.5	99.5	102.5	104.0	106.2	106.2
145°	83.2	86.9	91.4	93.6	95.8	95.8	98.1	99.5	101.8	101.8
147.5°	80.2	83.9	88.4	89.9	92.1	92.1	94.3	95.8	97.3	97.3
150°	76.5	79.5	84.7	86.9	89.1	89.1	90.6	92.1	93.6	93.6
152.5°	73.5	75.8	80.2	83.2	85.4	85.4	86.9	88.4	89.9	89.9
155°	69.8	72.1	75.8	79.5	81.7	82.5	83.9	84.7	86.2	86.2
157.5°	66.9	69.1	72.1	75.0	77.3	78.7	81.0	81.7	82.5	82.5
160°	63.1	64.6	67.6	70.6	72.8	74.3	78.0	78.7	79.5	79.5
162.5°	61.7	61.7	63.1	65.4	67.6	68.3	72.1	75.0	76.5	75.8
165°	62.4	61.7	61.7	62.4	63.9	64.6	66.9	71.3	72.8	72.1
167.5°	63.9	62.4	61.7	61.7	63.1	63.1	65.4	69.1	73.5	72.1
170°	63.9	61.7	60.2	60.2	60.9	60.9	62.4	64.6	69.1	69.8
172.5°	63.1	61.7	59.4	56.5	57.2	56.5	55.7	57.2	57.9	65.4
175°	63.9	61.7	59.4	55.7	54.2	52.0	48.3	45.3	44.6	36.4
177.5°	63.1	60.9	57.9	55.0	53.5	50.5	46.1	40.9	37.9	33.4
180°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2



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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	12.89	14.20	13.53	14.86	15.63	16.43	17.74	17.08	18.41	19.18
	3H	14.24	15.44	14.89	16.11	16.91	19.35	20.55	20.01	21.22	22.03
	4H	14.64	15.78	15.31	16.47	17.28	20.83	21.97	21.50	22.65	23.47
	6H	14.86	15.92	15.54	16.62	17.45	22.38	23.45	23.07	24.14	24.97
	8H	14.89	15.91	15.59	16.63	17.46	23.19	24.21	23.89	24.93	25.76
	12H	14.89	15.87	15.60	16.58	17.45	24.07	25.05	24.78	25.76	26.62
4H	2H	14.03	15.17	14.70	15.86	16.67	16.75	17.89	17.43	18.58	19.39
	3H	15.67	16.65	16.36	17.37	18.21	19.90	20.88	20.59	21.60	22.44
	4H	16.24	17.14	16.95	17.87	18.73	21.55	22.45	22.26	23.18	24.04
	6H	16.58	17.38	17.30	18.13	19.00	23.32	24.12	24.05	24.87	25.74
	8H	16.66	17.41	17.38	18.15	19.04	24.26	25.01	24.99	25.76	26.64
	12H	16.68	17.37	17.43	18.14	19.03	25.28	25.97	26.03	26.74	27.63
8H	4H	17.33	18.08	18.05	18.83	19.71	21.73	22.48	22.45	23.23	24.11
	6H	17.94	18.58	18.69	19.36	20.25	23.68	24.32	24.43	25.11	25.99
	8H	18.13	18.71	18.90	19.50	20.40	24.76	25.34	25.53	26.13	27.03
	12H	18.25	18.76	19.02	19.54	20.50	25.98	26.50	26.75	27.28	28.23
12H	4H	17.68	18.37	18.43	19.14	20.03	21.72	22.41	22.47	23.18	24.07
	6H	18.46	19.04	19.22	19.83	20.72	23.71	24.29	24.47	25.08	25.98
	8H	18.79	19.31	19.56	20.08	21.04	24.86	25.37	25.63	26.15	27.11