

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: P893566

Luminaire Tested: 4MB-4SL-RNDU-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893566
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-L935
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 5
Light Source: -
Ballast/Driver: -

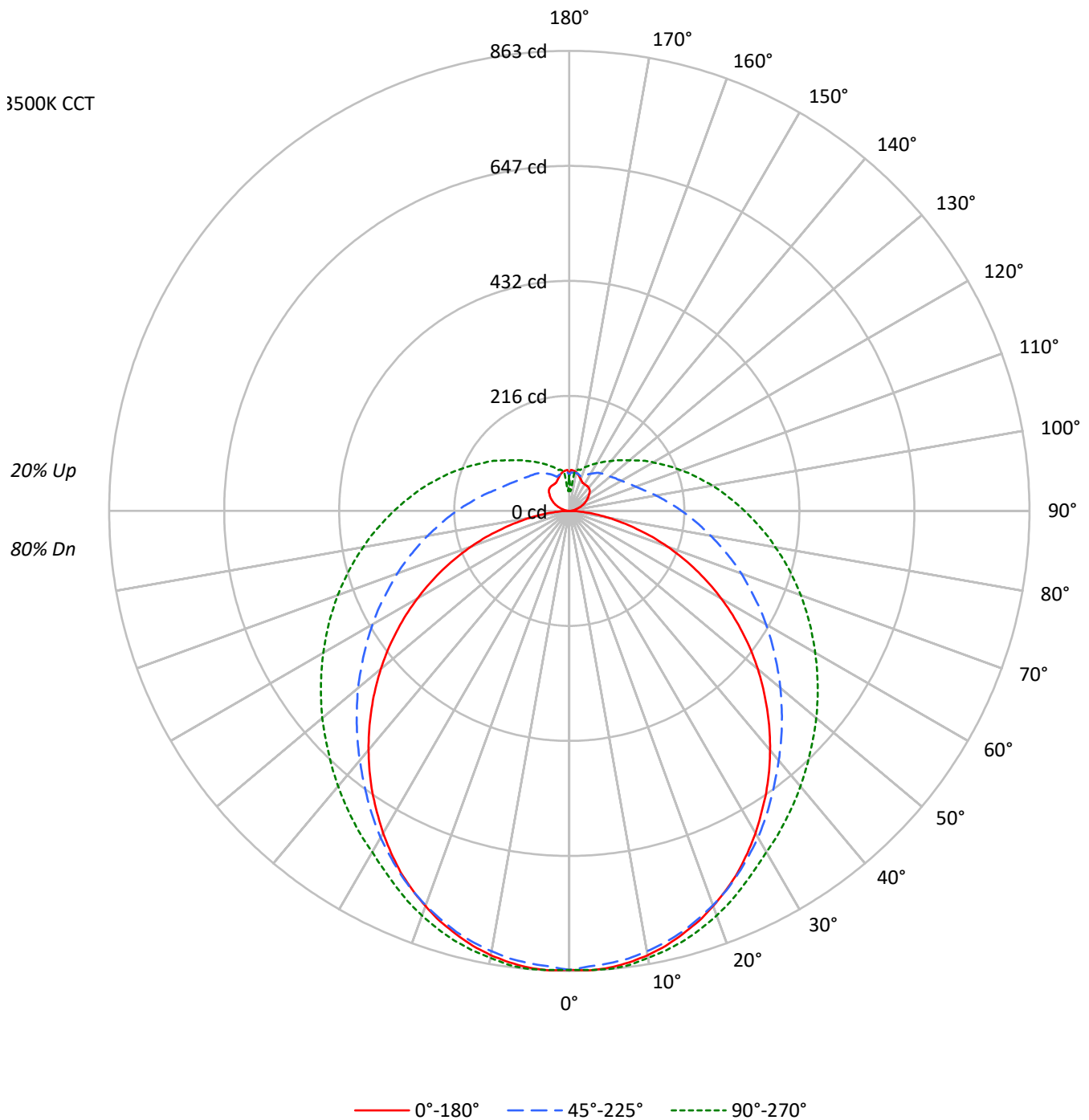
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3622.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

TEST NUMBER: P893566
CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L935

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°	6127	6127	6127
5°	6116	5868	5880
10°	6059	5639	5609
15°	5970	5408	5357
20°	5862	5164	5100
25°	5733	4918	4842
30°	5567	4671	4613
35°	5396	4416	4444
40°	5212	4186	4290
45°	5014	3982	4154
50°	4806	3800	4049
55°	4567	3632	3957
60°	4298	3494	3888
65°	3969	3372	3849
70°	3561	3297	3837
75°	3015	3242	3854
80°	2357	3242	3915
85°	1507	3326	4043

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5014 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	2.2
10°-20°	232.3	6.4
20°-30°	348.8	9.6
30°-40°	419.4	11.6
40°-50°	444.4	12.3
50°-60°	428.0	11.8
60°-70°	378.7	10.5
70°-80°	310.7	8.6
80°-90°	241.1	6.7
90°-100°	187.1	5.2
100°-110°	148.2	4.1
110°-120°	118.1	3.3
120°-130°	93.8	2.6
130°-140°	73.3	2.0
140°-150°	53.9	1.5
150°-160°	35.7	1.0
160°-170°	20.5	0.6
170°-180°	6.6	0.2
0°-30°	662.6	18.3
0°-40°	1082.0	29.9
0°-60°	1954.3	54.0
0°-90°	2884.8	79.6
90°-120°	453.4	12.5
90°-150°	674.4	18.6
90°-180°	737.0	20.3
0°-180°	3622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	860	861	852	859	863	82
15°	822	823	818	830	834	232
25°	748	750	750	769	774	344
35°	644	652	660	694	708	403
45°	524	537	564	617	639	405
55°	396	415	470	540	569	354
65°	262	298	383	463	497	260
75°	131	197	305	391	427	140
85°	30	119	238	325	360	34
90°	1	93	211	295	329	2
95°	4	77	186	266	299	4
105°	15	62	147	218	247	16
115°	30	60	122	178	202	29
125°	43	62	106	147	165	38
135°	54	66	96	123	134	41
145°	57	66	87	106	112	36
155°	58	68	75	90	95	27
165°	69	73	70	70	80	19
175°	76	75	72	60	40	7
180°	66	66	66	66	66	



TEST NUMBER: P893566
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	862.8	862.0	863.6	865.2	870.1	863.6	866.9	857.9	858.7	859.5	855.4
5°	860.3	857.9	860.3	862.0	866.1	861.1	864.4	854.6	855.4	857.0	852.1
7.5°	854.6	852.1	853.8	855.4	859.5	854.6	858.7	848.8	850.5	851.3	847.2
10°	846.4	843.1	844.7	847.2	850.5	846.4	849.7	840.7	841.5	843.1	839.0
12.5°	835.7	832.5	834.1	835.7	839.8	835.7	839.0	830.0	831.6	833.3	829.2
15°	821.8	818.5	820.2	821.8	825.1	822.6	825.9	816.9	818.5	821.8	817.7
17.5°	807.1	802.1	803.8	806.2	809.5	807.9	810.3	803.0	803.8	807.1	803.0
20°	789.0	784.1	785.8	788.2	791.5	790.7	792.3	785.8	787.4	791.5	787.4
22.5°	769.4	764.5	766.1	769.4	771.8	771.8	772.6	767.7	769.4	773.5	770.2
25°	748.1	743.1	744.8	748.1	750.5	750.5	752.2	747.2	749.7	753.8	750.5
27.5°	723.5	721.0	721.0	724.3	725.9	727.6	728.4	724.3	727.6	731.7	729.2
30°	698.1	694.8	696.4	700.5	700.5	703.8	703.8	700.5	704.6	709.6	707.9
32.5°	671.0	668.6	669.4	674.3	674.3	678.4	677.6	676.0	680.1	685.8	684.2
35°	644.0	641.6	642.4	647.3	647.3	652.2	650.6	650.6	654.7	661.2	659.6
37.5°	615.3	613.7	614.5	619.4	619.4	624.3	622.7	623.5	628.4	635.8	635.0
40°	585.8	584.2	585.8	589.9	591.6	595.7	594.0	595.7	602.2	608.8	611.2
42.5°	555.5	554.7	556.3	560.4	562.1	566.2	565.4	567.8	574.4	584.2	587.5
45°	524.4	524.4	526.0	530.1	531.8	536.7	535.9	539.1	547.3	558.0	563.7
47.5°	493.2	494.1	494.9	499.8	499.8	508.0	505.5	510.5	521.1	533.4	540.0
50°	461.3	462.9	463.8	467.8	469.5	476.9	475.2	483.4	494.9	508.0	517.0
52.5°	429.3	431.0	432.6	435.9	437.5	446.5	444.9	455.6	469.5	483.4	493.2
55°	395.7	399.0	399.8	403.9	406.4	415.4	415.4	427.7	442.4	458.0	470.3
57.5°	363.0	366.2	367.1	372.0	375.3	385.9	387.6	401.5	417.9	433.4	448.2
60°	329.4	333.5	334.3	339.2	344.9	356.4	358.9	374.4	392.5	408.9	426.1
62.5°	295.8	299.9	301.5	306.4	315.4	326.9	331.0	349.0	367.9	385.9	404.8
65°	262.2	266.3	268.7	275.3	286.0	298.2	304.0	322.8	344.1	363.0	382.6
67.5°	228.6	233.5	236.8	245.0	258.9	272.0	277.8	299.1	321.2	341.7	362.2
70°	195.8	200.7	204.8	215.5	231.9	245.0	252.4	275.3	298.2	320.4	343.3
72.5°	163.9	168.8	174.5	187.6	205.7	220.4	228.6	252.4	277.8	299.9	323.6
75°	131.1	136.8	143.4	161.4	181.9	196.6	205.7	231.1	257.3	279.4	304.8
77.5°	101.6	107.3	117.2	135.2	158.1	174.5	184.4	211.4	238.4	260.6	286.8
80°	74.6	80.3	93.4	113.1	136.8	152.4	164.7	192.5	220.4	243.3	269.6
82.5°	50.8	56.5	72.1	93.4	118.8	134.4	145.8	175.3	203.2	227.0	253.2
85°	29.5	37.7	54.1	77.0	103.2	118.8	130.3	160.6	187.6	211.4	238.4
87.5°	13.1	22.9	41.0	63.9	90.1	104.9	117.2	145.0	173.7	197.5	224.5
90°	0.8	13.1	32.0	54.1	79.5	93.4	104.9	132.7	159.8	184.4	210.6
92.5°	1.6	9.0	26.2	46.7	70.5	84.4	95.9	122.1	147.5	172.9	198.3
95°	4.1	9.0	22.9	41.8	63.9	77.0	87.7	113.1	136.8	161.4	186.0
97.5°	6.6	9.8	22.1	39.3	59.0	71.3	81.1	104.9	128.6	150.8	175.3
100°	9.0	12.3	22.1	37.7	55.7	67.2	76.2	98.3	120.4	140.9	165.5
102.5°	11.5	14.7	23.8	37.7	54.1	63.9	72.9	93.4	113.9	132.7	155.7
105°	14.7	17.2	25.4	37.7	52.4	62.3	69.6	88.5	108.2	126.2	146.7
107.5°	18.0	19.7	27.0	38.5	52.4	60.6	68.0	85.2	103.2	119.6	139.3
110°	22.1	22.9	29.5	40.1	52.4	59.8	66.4	82.8	99.1	114.7	132.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	25.4	25.4	32.0	41.8	52.4	59.8	65.5	80.3	95.9	109.8	127.0
115°	29.5	29.5	34.4	43.4	53.3	59.8	65.5	79.5	93.4	105.7	122.1
117.5°	32.8	32.8	37.7	45.1	54.9	60.6	65.5	77.8	90.9	102.4	117.2
120°	36.1	36.1	39.3	46.7	55.7	61.5	65.5	77.0	88.5	100.0	113.1
122.5°	39.3	39.3	41.8	49.2	56.5	61.5	65.5	76.2	86.9	96.7	109.0
125°	42.6	42.6	44.2	50.8	58.2	62.3	66.4	76.2	86.0	94.2	106.5
127.5°	45.9	45.1	47.5	53.3	59.0	63.1	67.2	76.2	84.4	92.6	103.2
130°	48.3	47.5	50.8	54.9	60.6	63.9	67.2	75.4	83.6	90.9	100.0
132.5°	51.6	50.0	54.1	55.7	62.3	65.5	68.0	75.4	82.8	89.3	98.3
135°	54.1	52.4	56.5	58.2	63.1	66.4	68.8	75.4	81.9	88.5	95.9
137.5°	55.7	54.9	59.0	60.6	63.9	67.2	69.6	75.4	81.1	86.9	94.2
140°	56.5	55.7	59.0	62.3	63.9	67.2	68.8	74.6	80.3	85.2	91.8
142.5°	57.4	57.4	59.8	63.1	63.9	66.4	68.8	73.7	78.7	82.8	90.1
145°	57.4	57.4	59.8	63.9	64.7	65.5	67.2	72.1	76.2	80.3	86.9
147.5°	57.4	57.4	60.6	63.9	65.5	66.4	65.5	70.5	74.6	77.8	83.6
150°	57.4	57.4	60.6	63.9	66.4	67.2	66.4	68.8	72.1	75.4	80.3
152.5°	58.2	58.2	60.6	63.9	66.4	67.2	67.2	67.2	69.6	72.9	77.8
155°	58.2	59.0	60.6	65.5	67.2	68.0	68.0	68.0	67.2	70.5	74.6
157.5°	60.6	61.5	62.3	66.4	68.0	68.8	68.8	68.8	68.0	67.2	71.3
160°	63.1	63.9	64.7	68.0	69.6	70.5	70.5	70.5	68.8	68.0	68.0
162.5°	65.5	67.2	67.2	68.8	70.5	71.3	71.3	72.1	70.5	69.6	68.8
165°	68.8	69.6	69.6	70.5	72.1	72.9	72.1	72.9	72.1	71.3	70.5
167.5°	71.3	72.1	72.1	72.9	72.9	73.7	73.7	73.7	72.9	72.1	72.1
170°	73.7	74.6	74.6	74.6	74.6	74.6	74.6	74.6	73.7	72.1	72.1
172.5°	75.4	76.2	76.2	75.4	75.4	75.4	75.4	74.6	72.9	72.1	72.1
175°	76.2	77.0	77.0	76.2	75.4	75.4	75.4	74.6	72.9	72.1	72.1
177.5°	77.0	77.8	77.0	77.0	75.4	75.4	75.4	75.4	73.7	72.9	72.1
180°	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	860.3	850.5	857.0	857.9	861.1	857.9	860.3	857.9	864.4	862.0
5°	857.0	848.0	853.8	854.6	858.7	854.6	858.7	857.0	865.2	862.8
7.5°	851.3	843.9	848.8	849.7	854.6	850.5	854.6	852.9	862.8	859.5
10°	843.1	837.4	842.3	843.1	848.0	843.9	847.2	845.6	856.2	851.3
12.5°	834.1	829.2	833.3	834.1	839.8	835.7	839.8	838.2	848.8	843.9
15°	821.0	818.5	822.6	824.3	830.0	826.7	830.8	829.2	840.7	834.1
17.5°	807.9	806.2	810.3	812.0	818.5	814.4	818.5	816.9	828.4	821.8
20°	791.5	790.7	794.8	797.2	803.0	798.9	803.8	802.1	814.4	807.9
22.5°	774.3	774.3	777.6	780.0	785.8	782.5	787.4	786.6	798.9	792.3
25°	755.4	756.3	759.5	762.8	769.4	766.9	771.0	771.0	782.5	774.3
27.5°	734.1	738.2	740.7	744.8	750.5	748.1	752.2	753.0	764.5	756.3
30°	712.0	717.8	720.2	725.1	730.0	730.0	734.1	735.8	747.2	739.1
32.5°	689.1	695.6	698.9	705.5	712.0	712.0	717.8	720.2	731.7	724.3
35°	666.1	675.1	679.2	687.4	694.0	694.8	700.5	703.8	715.3	707.9
37.5°	644.0	655.5	659.6	669.4	675.1	676.8	683.3	687.4	698.1	691.5
40°	621.1	635.0	639.9	650.6	655.5	658.8	665.3	670.2	680.1	674.3
42.5°	598.9	614.5	619.4	630.9	636.6	639.9	646.5	653.0	662.9	657.1
45°	576.8	594.0	599.8	612.1	617.0	621.9	629.3	635.0	644.0	639.1
47.5°	555.5	573.5	579.3	592.4	598.1	603.9	610.4	618.6	626.8	621.9
50°	533.4	552.2	559.6	573.5	578.5	585.0	593.2	600.6	608.8	604.7
52.5°	512.1	531.8	539.1	553.9	559.6	566.2	574.4	582.6	589.9	586.7
55°	489.2	510.5	518.6	534.2	540.0	546.5	555.5	564.5	571.1	568.6
57.5°	467.8	490.0	498.2	515.4	520.3	528.5	537.5	547.3	553.1	550.6
60°	446.5	468.7	478.5	495.7	501.4	509.6	518.6	529.3	534.2	532.6
62.5°	425.2	448.2	458.8	476.9	481.8	490.8	501.4	510.5	515.4	514.6
65°	405.6	427.7	440.0	458.0	462.9	472.8	482.6	492.4	497.3	497.3
67.5°	385.1	408.9	421.1	440.0	444.1	454.7	465.4	475.2	479.3	479.3
70°	366.2	389.2	403.1	422.0	426.1	435.9	447.4	458.0	461.3	462.1
72.5°	347.4	370.3	385.1	404.8	408.9	418.7	429.3	440.8	443.3	444.1
75°	329.4	352.3	367.1	386.7	390.8	400.7	412.1	422.8	426.1	426.9
77.5°	311.4	334.3	350.7	369.5	373.6	383.5	394.9	405.6	408.0	409.7
80°	295.0	317.1	332.7	353.1	357.2	367.1	377.7	388.4	390.0	392.5
82.5°	278.6	300.7	317.1	336.8	340.8	350.7	361.3	372.0	373.6	376.9
85°	263.0	285.1	301.5	320.4	325.3	334.3	345.8	355.6	357.2	359.7
87.5°	249.1	269.6	286.8	304.8	309.7	318.7	330.2	340.0	340.8	344.1
90°	234.3	254.8	272.0	290.0	295.0	303.2	314.6	324.5	326.1	328.6
92.5°	222.0	240.9	258.9	276.1	280.2	289.2	299.9	309.7	311.4	313.8
95°	208.9	227.8	245.8	262.2	266.3	275.3	285.1	295.0	296.6	299.1
97.5°	197.5	215.5	232.7	249.1	253.2	261.4	272.0	281.0	282.7	286.0
100°	186.8	204.0	222.0	236.8	240.9	249.1	258.9	267.9	269.6	272.8
102.5°	177.0	193.4	210.6	224.5	229.4	236.8	246.6	254.8	256.5	258.9
105°	168.0	183.5	199.9	213.0	217.9	225.3	234.3	242.5	244.2	246.6
107.5°	159.0	173.7	189.3	202.4	206.5	213.0	222.0	230.2	231.9	235.2
110°	150.8	165.5	180.3	192.5	197.5	202.4	211.4	218.8	220.4	222.9



TEST NUMBER: P893566
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	143.4	156.5	171.2	182.7	186.8	192.5	199.9	207.3	208.9	212.2
115°	136.8	149.1	163.9	174.5	177.8	182.7	190.9	197.5	199.1	201.6
117.5°	131.1	141.7	154.9	165.5	169.6	173.7	181.1	186.8	189.3	190.9
120°	126.2	136.0	147.5	157.3	162.2	165.5	172.1	177.8	180.3	181.9
122.5°	121.3	130.3	140.9	149.9	154.0	156.5	163.9	168.8	171.2	173.7
125°	117.2	125.4	135.2	142.6	146.7	149.1	155.7	160.6	163.1	164.7
127.5°	113.1	120.4	130.3	136.0	140.1	141.7	147.5	152.4	154.9	155.7
130°	109.0	116.3	124.5	130.3	133.6	136.0	140.9	144.2	146.7	147.5
132.5°	105.7	112.3	119.6	125.4	128.6	129.5	134.4	137.7	140.1	140.9
135°	103.2	108.2	115.5	120.4	122.9	124.5	128.6	131.1	133.6	134.4
137.5°	100.0	104.9	111.4	114.7	118.0	118.8	122.9	125.4	127.8	128.6
140°	97.5	101.6	107.3	110.6	113.9	113.9	117.2	119.6	122.1	122.1
142.5°	95.0	99.1	104.1	107.3	109.8	109.8	113.1	114.7	117.2	117.2
145°	91.8	95.9	100.8	103.2	105.7	105.7	108.2	109.8	112.3	112.3
147.5°	88.5	92.6	97.5	99.1	101.6	101.6	104.1	105.7	107.3	107.3
150°	84.4	87.7	93.4	95.9	98.3	98.3	100.0	101.6	103.2	103.2
152.5°	81.1	83.6	88.5	91.8	94.2	94.2	95.9	97.5	99.1	99.1
155°	77.0	79.5	83.6	87.7	90.1	90.9	92.6	93.4	95.0	95.0
157.5°	73.7	76.2	79.5	82.8	85.2	86.9	89.3	90.1	90.9	90.9
160°	69.6	71.3	74.6	77.8	80.3	81.9	86.0	86.9	87.7	87.7
162.5°	68.0	68.0	69.6	72.1	74.6	75.4	79.5	82.8	84.4	83.6
165°	68.8	68.0	68.0	68.8	70.5	71.3	73.7	78.7	80.3	79.5
167.5°	70.5	68.8	68.0	68.0	69.6	69.6	72.1	76.2	81.1	79.5
170°	70.5	68.0	66.4	66.4	67.2	67.2	68.8	71.3	76.2	77.0
172.5°	69.6	68.0	65.5	62.3	63.1	62.3	61.5	63.1	63.9	72.1
175°	70.5	68.0	65.5	61.5	59.8	57.4	53.3	50.0	49.2	40.1
177.5°	69.6	67.2	63.9	60.6	59.0	55.7	50.8	45.1	41.8	36.9
180°	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4



TEST NUMBER: P893566
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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	13.23	14.54	13.87	15.21	15.97	16.77	18.08	17.42	18.75	19.52
	3H	14.58	15.78	15.23	16.45	17.25	19.69	20.89	20.35	21.56	22.37
	4H	14.98	16.12	15.65	16.81	17.62	21.17	22.31	21.84	22.99	23.81
	6H	15.20	16.26	15.88	16.96	17.79	22.72	23.79	23.41	24.48	25.31
	8H	15.23	16.25	15.93	16.97	17.80	23.53	24.55	24.23	25.27	26.10
	12H	15.24	16.21	15.94	16.92	17.79	24.41	25.39	25.12	26.10	26.96
4H	2H	14.37	15.51	15.05	16.20	17.01	17.09	18.23	17.77	18.92	19.73
	3H	16.01	16.99	16.70	17.71	18.55	20.24	21.22	20.93	21.94	22.78
	4H	16.58	17.48	17.29	18.21	19.07	21.89	22.79	22.60	23.52	24.38
	6H	16.92	17.72	17.64	18.47	19.34	23.66	24.46	24.39	25.21	26.08
	8H	17.00	17.75	17.72	18.50	19.38	24.60	25.35	25.33	26.10	26.98
	12H	17.02	17.71	17.77	18.48	19.37	25.62	26.31	26.37	27.08	27.97
8H	4H	17.67	18.42	18.39	19.17	20.05	22.07	22.82	22.79	23.57	24.45
	6H	18.28	18.92	19.03	19.70	20.59	24.02	24.66	24.77	25.45	26.33
	8H	18.47	19.05	19.24	19.84	20.74	25.10	25.68	25.87	26.47	27.37
	12H	18.59	19.10	19.36	19.88	20.84	26.32	26.84	27.09	27.62	28.57
12H	4H	18.02	18.71	18.77	19.48	20.37	22.06	22.75	22.81	23.52	24.41
	6H	18.80	19.38	19.56	20.17	21.07	24.05	24.63	24.81	25.42	26.32
	8H	19.13	19.65	19.90	20.42	21.38	25.20	25.71	25.97	26.49	27.45