

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: P893568

Luminaire Tested: 4MB-4SL-RNDU-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893568
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-L950
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 5
Light Source: -
Ballast/Driver: -

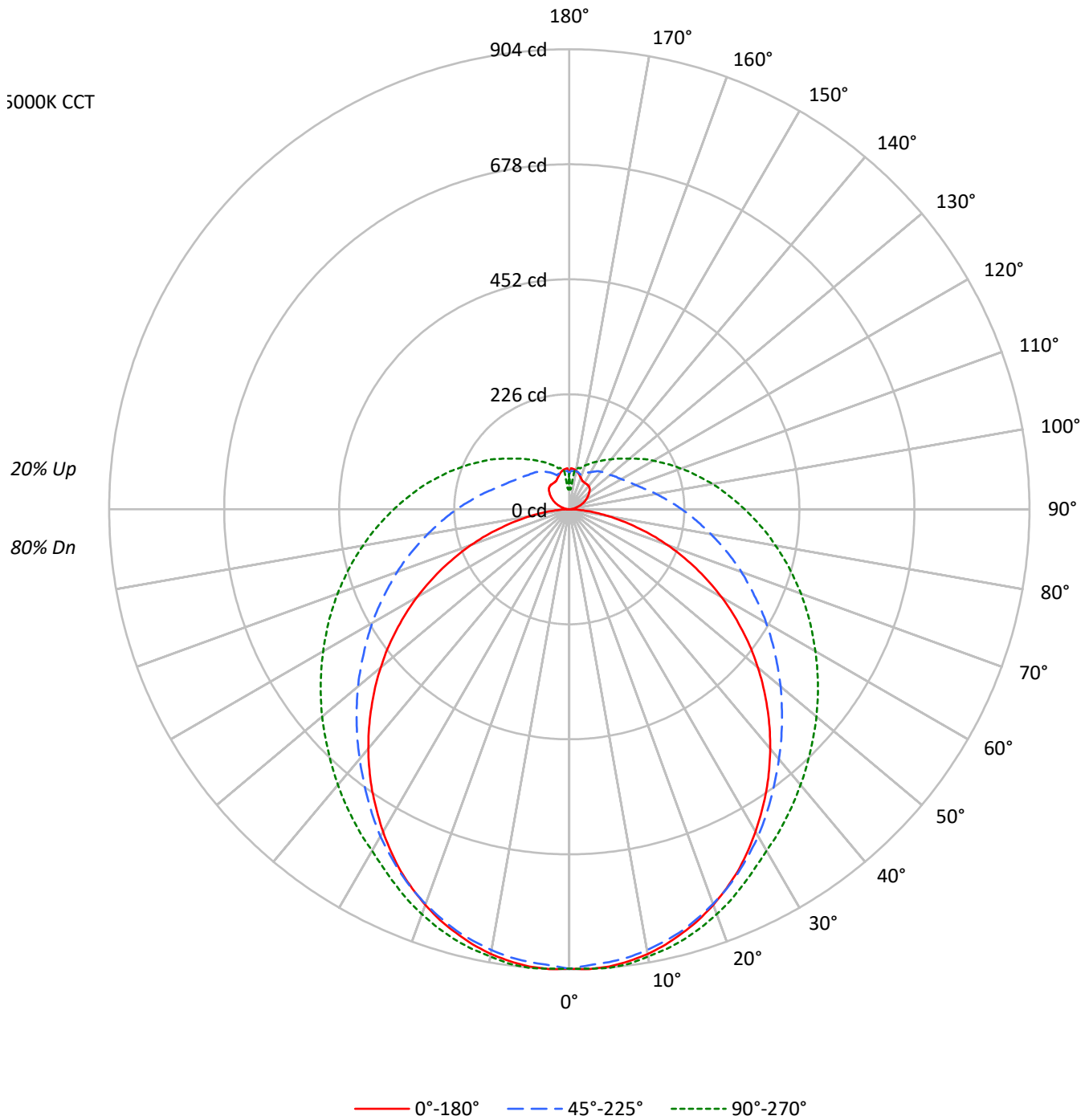
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3797.0 lumens
Efficiency: N/A
Efficacy: 127.4 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: P893568
CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L950

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		0
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°	6423	6423	6423
5°	6412	6152	6165
10°	6352	5912	5879
15°	6258	5669	5616
20°	6146	5413	5346
25°	6010	5156	5075
30°	5836	4897	4836
35°	5656	4629	4658
40°	5464	4389	4498
45°	5256	4174	4355
50°	5039	3984	4245
55°	4789	3807	4148
60°	4505	3662	4076
65°	4161	3535	4036
70°	3734	3456	4022
75°	3160	3399	4040
80°	2471	3398	4104
85°	1578	3488	4239

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5256 cd/sqm



TEST NUMBER: P893568
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	2.2
10°-20°	243.5	6.4
20°-30°	365.6	9.6
30°-40°	439.7	11.6
40°-50°	465.9	12.3
50°-60°	448.6	11.8
60°-70°	397.0	10.5
70°-80°	325.7	8.6
80°-90°	252.7	6.7
90°-100°	196.1	5.2
100°-110°	155.4	4.1
110°-120°	123.8	3.3
120°-130°	98.3	2.6
130°-140°	76.8	2.0
140°-150°	56.5	1.5
150°-160°	37.4	1.0
160°-170°	21.5	0.6
170°-180°	6.9	0.2
0°-30°	694.6	18.3
0°-40°	1134.3	29.9
0°-60°	2048.8	54.0
0°-90°	3024.2	79.6
90°-120°	475.3	12.5
90°-150°	707.0	18.6
90°-180°	773.0	20.4
0°-180°	3797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	903	903	903	903	903	
5°	902	903	893	900	904	86
15°	862	862	857	870	874	243
25°	784	787	787	806	812	361
35°	675	684	691	728	742	422
45°	550	563	591	647	670	424
55°	415	436	493	566	596	371
65°	275	313	401	485	521	272
75°	137	206	320	410	448	147
85°	31	124	250	341	377	35
90°	1	98	221	309	344	2
95°	4	81	195	279	314	5
105°	16	65	154	228	258	17
115°	31	63	128	186	211	30
125°	45	65	112	154	173	40
135°	57	70	100	129	141	43
145°	60	69	91	111	118	38
155°	61	71	78	94	100	29
165°	72	76	74	74	83	20
175°	80	79	76	63	42	8
180°	70	70	70	70	70	



TEST NUMBER: P893568
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7
2.5°	904.5	903.6	905.3	907.0	912.2	905.3	908.8	899.3	900.2	901.0	896.7
5°	901.9	899.3	901.9	903.6	907.9	902.7	906.2	895.9	896.7	898.4	893.3
7.5°	895.9	893.3	895.0	896.7	901.0	895.9	900.2	889.9	891.6	892.4	888.1
10°	887.3	883.8	885.6	888.1	891.6	887.3	890.7	881.3	882.1	883.8	879.6
12.5°	876.1	872.7	874.4	876.1	880.4	876.1	879.6	870.1	871.8	873.5	869.2
15°	861.5	858.1	859.8	861.5	864.9	862.4	865.8	856.4	858.1	861.5	857.2
17.5°	846.1	840.9	842.6	845.2	848.6	846.9	849.5	841.8	842.6	846.1	841.8
20°	827.2	822.0	823.7	826.3	829.7	828.9	830.6	823.7	825.4	829.7	825.4
22.5°	806.5	801.4	803.1	806.5	809.1	809.1	810.0	804.8	806.5	810.8	807.4
25°	784.2	779.1	780.8	784.2	786.8	786.8	788.5	783.4	785.9	790.2	786.8
27.5°	758.4	755.9	755.9	759.3	761.0	762.7	763.6	759.3	762.7	767.0	764.5
30°	731.8	728.4	730.1	734.4	734.4	737.8	737.8	734.4	738.7	743.8	742.1
32.5°	703.5	700.9	701.8	706.9	706.9	711.2	710.3	708.6	712.9	718.9	717.2
35°	675.1	672.5	673.4	678.6	678.6	683.7	682.0	682.0	686.3	693.2	691.4
37.5°	645.1	643.3	644.2	649.4	649.4	654.5	652.8	653.7	658.8	666.5	665.7
40°	614.1	612.4	614.1	618.4	620.2	624.4	622.7	624.4	631.3	638.2	640.8
42.5°	582.4	581.5	583.2	587.5	589.2	593.5	592.7	595.2	602.1	612.4	615.9
45°	549.7	549.7	551.4	555.7	557.5	562.6	561.7	565.2	573.8	584.9	590.9
47.5°	517.1	517.9	518.8	524.0	524.0	532.5	530.0	535.1	546.3	559.2	566.0
50°	483.6	485.3	486.2	490.5	492.2	499.9	498.2	506.8	518.8	532.5	542.0
52.5°	450.1	451.8	453.5	457.0	458.7	468.1	466.4	477.6	492.2	506.8	517.1
55°	414.9	418.3	419.2	423.5	426.0	435.5	435.5	448.4	463.8	480.1	493.0
57.5°	380.5	383.9	384.8	390.0	393.4	404.6	406.3	420.9	438.1	454.4	469.8
60°	345.3	349.6	350.4	355.6	361.6	373.6	376.2	392.5	411.4	428.6	446.6
62.5°	310.1	314.4	316.1	321.2	330.7	342.7	347.0	365.9	385.7	404.6	424.3
65°	274.9	279.2	281.7	288.6	299.8	312.7	318.7	338.4	360.8	380.5	401.1
67.5°	239.6	244.8	248.2	256.8	271.4	285.2	291.2	313.5	336.7	358.2	379.7
70°	205.3	210.4	214.7	225.9	243.1	256.8	264.6	288.6	312.7	335.8	359.9
72.5°	171.8	176.9	183.0	196.7	215.6	231.1	239.6	264.6	291.2	314.4	339.3
75°	137.4	143.4	150.3	169.2	190.7	206.1	215.6	242.2	269.7	292.9	319.5
77.5°	106.5	112.5	122.8	141.7	165.8	183.0	193.3	221.6	250.0	273.1	300.6
80°	78.2	84.2	97.9	118.5	143.4	159.8	172.6	201.9	231.1	255.1	282.6
82.5°	53.3	59.3	75.6	97.9	124.5	140.9	152.9	183.8	213.0	237.9	265.4
85°	30.9	39.5	56.7	80.7	108.2	124.5	136.6	168.4	196.7	221.6	250.0
87.5°	13.7	24.1	42.9	67.0	94.5	109.9	122.8	152.0	182.1	207.0	235.3
90°	0.9	13.7	33.5	56.7	83.3	97.9	109.9	139.1	167.5	193.3	220.7
92.5°	1.7	9.4	27.5	49.0	73.9	88.5	100.5	128.0	154.6	181.2	207.9
95°	4.3	9.4	24.1	43.8	67.0	80.7	91.9	118.5	143.4	169.2	195.0
97.5°	6.9	10.3	23.2	41.2	61.8	74.7	85.0	109.9	134.9	158.0	183.8
100°	9.4	12.9	23.2	39.5	58.4	70.4	79.9	103.1	126.3	147.7	173.5
102.5°	12.0	15.5	24.9	39.5	56.7	67.0	76.4	97.9	119.4	139.1	163.2
105°	15.5	18.0	26.6	39.5	55.0	65.3	73.0	92.8	113.4	132.3	153.7
107.5°	18.9	20.6	28.3	40.4	55.0	63.6	71.3	89.3	108.2	125.4	146.0
110°	23.2	24.1	30.9	42.1	55.0	62.7	69.6	86.8	103.9	120.3	139.1



TEST NUMBER: P893568
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L950

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	26.6	26.6	33.5	43.8	55.0	62.7	68.7	84.2	100.5	115.1	133.1
115°	30.9	30.9	36.1	45.5	55.8	62.7	68.7	83.3	97.9	110.8	128.0
117.5°	34.4	34.4	39.5	47.2	57.5	63.6	68.7	81.6	95.3	107.4	122.8
120°	37.8	37.8	41.2	49.0	58.4	64.4	68.7	80.7	92.8	104.8	118.5
122.5°	41.2	41.2	43.8	51.5	59.3	64.4	68.7	79.9	91.0	101.4	114.2
125°	44.7	44.7	46.4	53.3	61.0	65.3	69.6	79.9	90.2	98.8	111.7
127.5°	48.1	47.2	49.8	55.8	61.8	66.1	70.4	79.9	88.5	97.1	108.2
130°	50.7	49.8	53.3	57.5	63.6	67.0	70.4	79.0	87.6	95.3	104.8
132.5°	54.1	52.4	56.7	58.4	65.3	68.7	71.3	79.0	86.8	93.6	103.1
135°	56.7	55.0	59.3	61.0	66.1	69.6	72.2	79.0	85.9	92.8	100.5
137.5°	58.4	57.5	61.8	63.6	67.0	70.4	73.0	79.0	85.0	91.0	98.8
140°	59.3	58.4	61.8	65.3	67.0	70.4	72.2	78.2	84.2	89.3	96.2
142.5°	60.1	60.1	62.7	66.1	67.0	69.6	72.2	77.3	82.5	86.8	94.5
145°	60.1	60.1	62.7	67.0	67.9	68.7	70.4	75.6	79.9	84.2	91.0
147.5°	60.1	60.1	63.6	67.0	68.7	69.6	68.7	73.9	78.2	81.6	87.6
150°	60.1	60.1	63.6	67.0	69.6	70.4	69.6	72.2	75.6	79.0	84.2
152.5°	61.0	61.0	63.6	67.0	69.6	70.4	70.4	70.4	73.0	76.4	81.6
155°	61.0	61.8	63.6	68.7	70.4	71.3	71.3	71.3	70.4	73.9	78.2
157.5°	63.6	64.4	65.3	69.6	71.3	72.2	72.2	72.2	71.3	70.4	74.7
160°	66.1	67.0	67.9	71.3	73.0	73.9	73.9	73.9	72.2	71.3	71.3
162.5°	68.7	70.4	70.4	72.2	73.9	74.7	74.7	75.6	73.9	73.0	72.2
165°	72.2	73.0	73.0	73.9	75.6	76.4	75.6	76.4	75.6	74.7	73.9
167.5°	74.7	75.6	75.6	76.4	76.4	77.3	77.3	77.3	76.4	75.6	75.6
170°	77.3	78.2	78.2	78.2	78.2	78.2	78.2	78.2	77.3	75.6	75.6
172.5°	79.0	79.9	79.9	79.0	79.0	79.0	79.0	78.2	76.4	75.6	75.6
175°	79.9	80.7	80.7	79.9	79.0	79.0	79.0	78.2	76.4	75.6	75.6
177.5°	80.7	81.6	80.7	80.7	79.0	79.0	79.0	79.0	77.3	76.4	75.6
180°	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7
2.5°	901.9	891.6	898.4	899.3	902.7	899.3	901.9	899.3	906.2	903.6
5°	898.4	889.0	895.0	895.9	900.2	895.9	900.2	898.4	907.0	904.5
7.5°	892.4	884.7	889.9	890.7	895.9	891.6	895.9	894.2	904.5	901.0
10°	883.8	877.8	883.0	883.8	889.0	884.7	888.1	886.4	897.6	892.4
12.5°	874.4	869.2	873.5	874.4	880.4	876.1	880.4	878.7	889.9	884.7
15°	860.7	858.1	862.4	864.1	870.1	866.7	871.0	869.2	881.3	874.4
17.5°	846.9	845.2	849.5	851.2	858.1	853.8	858.1	856.4	868.4	861.5
20°	829.7	828.9	833.2	835.7	841.8	837.5	842.6	840.9	853.8	846.9
22.5°	811.7	811.7	815.1	817.7	823.7	820.3	825.4	824.6	837.5	830.6
25°	791.9	792.8	796.2	799.7	806.5	804.0	808.3	808.3	820.3	811.7
27.5°	769.6	773.9	776.5	780.8	786.8	784.2	788.5	789.4	801.4	792.8
30°	746.4	752.4	755.0	760.2	765.3	765.3	769.6	771.3	783.4	774.8
32.5°	722.4	729.2	732.7	739.5	746.4	746.4	752.4	755.0	767.0	759.3
35°	698.3	707.8	712.1	720.6	727.5	728.4	734.4	737.8	749.9	742.1
37.5°	675.1	687.1	691.4	701.8	707.8	709.5	716.4	720.6	731.8	724.9
40°	651.1	665.7	670.8	682.0	687.1	690.6	697.5	702.6	712.9	706.9
42.5°	627.9	644.2	649.4	661.4	667.4	670.8	677.7	684.6	694.9	688.9
45°	604.7	622.7	628.7	641.6	646.8	651.9	659.7	665.7	675.1	670.0
47.5°	582.4	601.3	607.3	621.0	627.0	633.0	639.9	648.5	657.1	651.9
50°	559.2	578.9	586.7	601.3	606.4	613.3	621.9	629.6	638.2	633.9
52.5°	536.8	557.5	565.2	580.6	586.7	593.5	602.1	610.7	618.4	615.0
55°	512.8	535.1	543.7	560.0	566.0	572.9	582.4	591.8	598.7	596.1
57.5°	490.5	513.6	522.2	540.3	545.4	554.0	563.5	573.8	579.8	577.2
60°	468.1	491.3	501.6	519.7	525.7	534.3	543.7	554.9	560.0	558.3
62.5°	445.8	469.8	481.0	499.9	505.1	514.5	525.7	535.1	540.3	539.4
65°	425.2	448.4	461.2	480.1	485.3	495.6	505.9	516.2	521.4	521.4
67.5°	403.7	428.6	441.5	461.2	465.5	476.7	487.9	498.2	502.5	502.5
70°	383.9	408.0	422.6	442.4	446.6	457.0	469.0	480.1	483.6	484.4
72.5°	364.2	388.2	403.7	424.3	428.6	438.9	450.1	462.1	464.7	465.5
75°	345.3	369.3	384.8	405.4	409.7	420.0	432.0	443.2	446.6	447.5
77.5°	326.4	350.4	367.6	387.4	391.7	402.0	414.0	425.2	427.8	429.5
80°	309.2	332.4	348.7	370.2	374.5	384.8	396.0	407.1	408.9	411.4
82.5°	292.0	315.2	332.4	353.0	357.3	367.6	378.8	390.0	391.7	395.1
85°	275.7	298.9	316.1	335.8	341.0	350.4	362.5	372.8	374.5	377.1
87.5°	261.1	282.6	300.6	319.5	324.7	334.1	346.2	356.5	357.3	360.8
90°	245.7	267.1	285.2	304.1	309.2	317.8	329.8	340.1	341.9	344.4
92.5°	232.8	252.5	271.4	289.5	293.8	303.2	314.4	324.7	326.4	329.0
95°	219.0	238.8	257.7	274.9	279.2	288.6	298.9	309.2	310.9	313.5
97.5°	207.0	225.9	243.9	261.1	265.4	274.0	285.2	294.6	296.3	299.8
100°	195.8	213.9	232.8	248.2	252.5	261.1	271.4	280.9	282.6	286.0
102.5°	185.5	202.7	220.7	235.3	240.5	248.2	258.5	267.1	268.8	271.4
105°	176.1	192.4	209.6	223.3	228.5	236.2	245.7	254.2	256.0	258.5
107.5°	166.6	182.1	198.4	212.2	216.5	223.3	232.8	241.4	243.1	246.5
110°	158.0	173.5	189.0	201.9	207.0	212.2	221.6	229.3	231.1	233.6



TEST NUMBER: P893568
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L950

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	150.3	164.1	179.5	191.5	195.8	201.9	209.6	217.3	219.0	222.5
115°	143.4	156.3	171.8	183.0	186.4	191.5	200.1	207.0	208.7	211.3
117.5°	137.4	148.6	162.3	173.5	177.8	182.1	189.8	195.8	198.4	200.1
120°	132.3	142.6	154.6	164.9	170.1	173.5	180.4	186.4	189.0	190.7
122.5°	127.1	136.6	147.7	157.2	161.5	164.1	171.8	176.9	179.5	182.1
125°	122.8	131.4	141.7	149.5	153.7	156.3	163.2	168.4	170.9	172.6
127.5°	118.5	126.3	136.6	142.6	146.9	148.6	154.6	159.8	162.3	163.2
130°	114.2	122.0	130.6	136.6	140.0	142.6	147.7	151.2	153.7	154.6
132.5°	110.8	117.7	125.4	131.4	134.9	135.7	140.9	144.3	146.9	147.7
135°	108.2	113.4	121.1	126.3	128.8	130.6	134.9	137.4	140.0	140.9
137.5°	104.8	109.9	116.8	120.3	123.7	124.5	128.8	131.4	134.0	134.9
140°	102.2	106.5	112.5	116.0	119.4	119.4	122.8	125.4	128.0	128.0
142.5°	99.6	103.9	109.1	112.5	115.1	115.1	118.5	120.3	122.8	122.8
145°	96.2	100.5	105.6	108.2	110.8	110.8	113.4	115.1	117.7	117.7
147.5°	92.8	97.1	102.2	103.9	106.5	106.5	109.1	110.8	112.5	112.5
150°	88.5	91.9	97.9	100.5	103.1	103.1	104.8	106.5	108.2	108.2
152.5°	85.0	87.6	92.8	96.2	98.8	98.8	100.5	102.2	103.9	103.9
155°	80.7	83.3	87.6	91.9	94.5	95.3	97.1	97.9	99.6	99.6
157.5°	77.3	79.9	83.3	86.8	89.3	91.0	93.6	94.5	95.3	95.3
160°	73.0	74.7	78.2	81.6	84.2	85.9	90.2	91.0	91.9	91.9
162.5°	71.3	71.3	73.0	75.6	78.2	79.0	83.3	86.8	88.5	87.6
165°	72.2	71.3	71.3	72.2	73.9	74.7	77.3	82.5	84.2	83.3
167.5°	73.9	72.2	71.3	71.3	73.0	73.0	75.6	79.9	85.0	83.3
170°	73.9	71.3	69.6	69.6	70.4	70.4	72.2	74.7	79.9	80.7
172.5°	73.0	71.3	68.7	65.3	66.1	65.3	64.4	66.1	67.0	75.6
175°	73.9	71.3	68.7	64.4	62.7	60.1	55.8	52.4	51.5	42.1
177.5°	73.0	70.4	67.0	63.6	61.8	58.4	53.3	47.2	43.8	38.7
180°	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6



TEST NUMBER: P893568
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L950

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	13.39	14.70	14.03	15.37	16.14	16.94	18.25	17.58	18.91	19.68
	3H	14.74	15.94	15.40	16.61	17.42	19.86	21.05	20.51	21.73	22.53
	4H	15.14	16.28	15.82	16.97	17.78	21.33	22.47	22.00	23.16	23.97
	6H	15.36	16.42	16.05	17.12	17.95	22.89	23.95	23.58	24.65	25.48
	8H	15.40	16.41	16.09	17.13	17.96	23.70	24.72	24.39	25.43	26.27
	12H	15.40	16.38	16.10	17.09	17.95	24.58	25.55	25.28	26.26	27.13
4H	2H	14.53	15.67	15.21	16.36	17.17	17.26	18.40	17.93	19.08	19.90
	3H	16.18	17.15	16.86	17.88	18.71	20.41	21.38	21.10	22.11	22.94
	4H	16.75	17.65	17.45	18.37	19.23	22.06	22.96	22.76	23.68	24.54
	6H	17.09	17.88	17.81	18.63	19.50	23.83	24.63	24.55	25.38	26.24
	8H	17.16	17.91	17.89	18.66	19.54	24.76	25.51	25.49	26.26	27.15
	12H	17.19	17.87	17.94	18.64	19.53	25.79	26.47	26.53	27.24	28.13
8H	4H	17.83	18.58	18.56	19.33	20.21	22.23	22.98	22.96	23.73	24.61
	6H	18.44	19.08	19.20	19.87	20.75	24.18	24.82	24.94	25.61	26.50
	8H	18.64	19.22	19.40	20.00	20.90	25.27	25.84	26.03	26.63	27.53
	12H	18.75	19.27	19.52	20.05	21.00	26.48	27.00	27.25	27.78	28.74
12H	4H	18.19	18.87	18.93	19.64	20.53	22.23	22.91	22.97	23.68	24.57
	6H	18.96	19.54	19.73	20.33	21.23	24.21	24.79	24.98	25.58	26.48
	8H	19.29	19.81	20.06	20.59	21.54	25.36	25.88	26.13	26.66	27.61