

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: P893567

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

Issue Date: 11/11/2024

**Test Information**

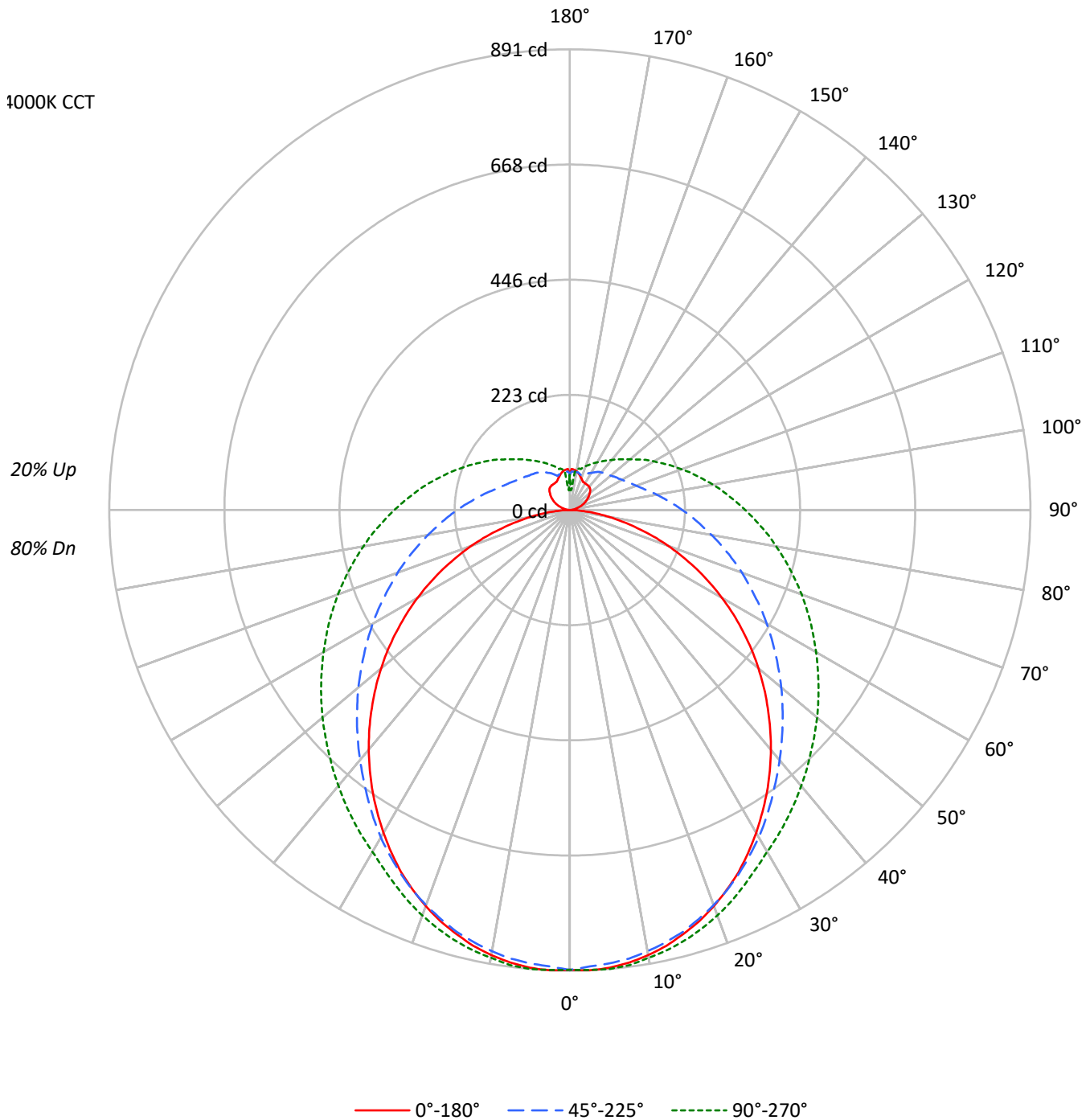
Test Method: LM-79-2019  
Report Number: P893567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-4SL-RNDU-UNV-L940  
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 90CRI, 4  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3741.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 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<sub>in</sub>): 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: P893567  
CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L940

### Luminous Intensity Polar Plot





TEST NUMBER: P893567  
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L940

**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°	6328	6328	6328
5°	6318	6061	6073
10°	6258	5825	5793
15°	6166	5586	5533
20°	6055	5334	5267
25°	5921	5080	5000
30°	5750	4825	4764
35°	5573	4561	4590
40°	5384	4324	4432
45°	5179	4113	4291
50°	4964	3925	4182
55°	4717	3752	4087
60°	4439	3609	4016
65°	4099	3483	3976
70°	3679	3405	3963
75°	3114	3349	3981
80°	2433	3348	4044
85°	1558	3436	4176

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5179 cd/sqm



TEST NUMBER: P893567  
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L940

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	2.2
10°-20°	239.9	6.4
20°-30°	360.3	9.6
30°-40°	433.2	11.6
40°-50°	459.0	12.3
50°-60°	442.0	11.8
60°-70°	391.2	10.5
70°-80°	320.9	8.6
80°-90°	249.0	6.7
90°-100°	193.2	5.2
100°-110°	153.1	4.1
110°-120°	122.0	3.3
120°-130°	96.9	2.6
130°-140°	75.7	2.0
140°-150°	55.7	1.5
150°-160°	36.8	1.0
160°-170°	21.2	0.6
170°-180°	6.8	0.2
0°-30°	684.4	18.3
0°-40°	1117.6	29.9
0°-60°	2018.5	54.0
0°-90°	2979.6	79.6
90°-120°	468.3	12.5
90°-150°	696.6	18.6
90°-180°	761.0	20.3
0°-180°	3741.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	889	889	880	887	891	84
15°	849	850	845	857	862	239
25°	773	775	775	795	800	355
35°	665	674	681	717	731	416
45°	542	554	582	637	660	418
55°	409	429	486	558	587	366
65°	271	308	395	478	514	268
75°	135	203	315	404	441	145
85°	30	123	246	336	372	35
90°	1	96	218	305	339	2
95°	4	80	192	275	309	4
105°	15	64	152	225	255	16
115°	30	62	126	184	208	30
125°	44	64	110	152	170	39
135°	56	68	99	127	139	43
145°	59	68	90	109	116	37
155°	60	70	77	93	98	28
165°	71	75	73	73	82	20
175°	79	78	74	62	42	7
180°	68	68	68	68	68	



TEST NUMBER: P893567  
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L940

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4
2.5°	891.1	890.3	892.0	893.7	898.7	892.0	895.4	886.0	886.9	887.7	883.5
5°	888.6	886.0	888.6	890.3	894.5	889.4	892.8	882.7	883.5	885.2	880.1
7.5°	882.7	880.1	881.8	883.5	887.7	882.7	886.9	876.7	878.4	879.3	875.0
10°	874.2	870.8	872.5	875.0	878.4	874.2	877.6	868.3	869.1	870.8	866.6
12.5°	863.2	859.8	861.5	863.2	867.4	863.2	866.6	857.3	859.0	860.7	856.4
15°	848.8	845.4	847.1	848.8	852.2	849.7	853.0	843.7	845.4	848.8	844.6
17.5°	833.6	828.5	830.2	832.7	836.1	834.4	837.0	829.3	830.2	833.6	829.3
20°	815.0	809.9	811.6	814.1	817.5	816.6	818.3	811.6	813.3	817.5	813.3
22.5°	794.6	789.6	791.3	794.6	797.2	797.2	798.0	793.0	794.6	798.9	795.5
25°	772.6	767.6	769.3	772.6	775.2	775.2	776.9	771.8	774.3	778.6	775.2
27.5°	747.3	744.7	744.7	748.1	749.8	751.5	752.3	748.1	751.5	755.7	753.2
30°	721.0	717.6	719.3	723.6	723.6	726.9	726.9	723.6	727.8	732.9	731.2
32.5°	693.1	690.6	691.4	696.5	696.5	700.7	699.9	698.2	702.4	708.3	706.6
35°	665.2	662.6	663.5	668.6	668.6	673.6	671.9	671.9	676.2	682.9	681.2
37.5°	635.5	633.9	634.7	639.8	639.8	644.9	643.2	644.0	649.1	656.7	655.9
40°	605.1	603.4	605.1	609.3	611.0	615.2	613.5	615.2	622.0	628.8	631.3
42.5°	573.8	572.9	574.6	578.8	580.5	584.8	583.9	586.5	593.2	603.4	606.8
45°	541.6	541.6	543.3	547.5	549.2	554.3	553.5	556.8	565.3	576.3	582.2
47.5°	509.5	510.3	511.1	516.2	516.2	524.7	522.1	527.2	538.2	550.9	557.7
50°	476.4	478.1	479.0	483.2	484.9	492.5	490.8	499.3	511.1	524.7	534.0
52.5°	443.4	445.1	446.8	450.2	451.9	461.2	459.5	470.5	484.9	499.3	509.5
55°	408.7	412.1	413.0	417.2	419.7	429.1	429.1	441.8	457.0	473.1	485.8
57.5°	374.9	378.3	379.1	384.2	387.6	398.6	400.3	414.7	431.6	447.7	462.9
60°	340.2	344.4	345.3	350.4	356.3	368.1	370.7	386.7	405.4	422.3	440.1
62.5°	305.5	309.7	311.4	316.5	325.8	337.7	341.9	360.5	380.0	398.6	418.1
65°	270.8	275.0	277.6	284.3	295.3	308.0	314.0	333.4	355.4	374.9	395.2
67.5°	236.1	241.2	244.6	253.0	267.4	281.0	286.9	308.9	331.7	352.9	374.1
70°	202.3	207.3	211.6	222.6	239.5	253.0	260.7	284.3	308.0	330.9	354.6
72.5°	169.3	174.3	180.3	193.8	212.4	227.6	236.1	260.7	286.9	309.7	334.3
75°	135.4	141.3	148.1	166.7	187.9	203.1	212.4	238.6	265.7	288.6	314.8
77.5°	104.9	110.9	121.0	139.6	163.3	180.3	190.4	218.3	246.3	269.1	296.2
80°	77.0	82.9	96.5	116.8	141.3	157.4	170.1	198.9	227.6	251.3	278.4
82.5°	52.5	58.4	74.5	96.5	122.7	138.8	150.6	181.1	209.9	234.4	261.5
85°	30.5	38.9	55.9	79.5	106.6	122.7	134.6	165.9	193.8	218.3	246.3
87.5°	13.5	23.7	42.3	66.0	93.1	108.3	121.0	149.8	179.4	204.0	231.9
90°	0.8	13.5	33.0	55.9	82.1	96.5	108.3	137.1	165.0	190.4	217.5
92.5°	1.7	9.3	27.1	48.2	72.8	87.2	99.0	126.1	152.3	178.6	204.8
95°	4.2	9.3	23.7	43.2	66.0	79.5	90.6	116.8	141.3	166.7	192.1
97.5°	6.8	10.2	22.8	40.6	60.9	73.6	83.8	108.3	132.9	155.7	181.1
100°	9.3	12.7	22.8	38.9	57.5	69.4	78.7	101.6	124.4	145.6	170.9
102.5°	11.8	15.2	24.5	38.9	55.9	66.0	75.3	96.5	117.6	137.1	160.8
105°	15.2	17.8	26.2	38.9	54.2	64.3	71.9	91.4	111.7	130.3	151.5
107.5°	18.6	20.3	27.9	39.8	54.2	62.6	70.2	88.0	106.6	123.6	143.9
110°	22.8	23.7	30.5	41.5	54.2	61.8	68.5	85.5	102.4	118.5	137.1



TEST NUMBER: P893567  
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L940

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	26.2	26.2	33.0	43.2	54.2	61.8	67.7	82.9	99.0	113.4	131.2
115°	30.5	30.5	35.5	44.9	55.0	61.8	67.7	82.1	96.5	109.2	126.1
117.5°	33.9	33.9	38.9	46.5	56.7	62.6	67.7	80.4	93.9	105.8	121.0
120°	37.2	37.2	40.6	48.2	57.5	63.5	67.7	79.5	91.4	103.2	116.8
122.5°	40.6	40.6	43.2	50.8	58.4	63.5	67.7	78.7	89.7	99.9	112.6
125°	44.0	44.0	45.7	52.5	60.1	64.3	68.5	78.7	88.9	97.3	110.0
127.5°	47.4	46.5	49.1	55.0	60.9	65.2	69.4	78.7	87.2	95.6	106.6
130°	49.9	49.1	52.5	56.7	62.6	66.0	69.4	77.9	86.3	93.9	103.2
132.5°	53.3	51.6	55.9	57.5	64.3	67.7	70.2	77.9	85.5	92.2	101.6
135°	55.9	54.2	58.4	60.1	65.2	68.5	71.1	77.9	84.6	91.4	99.0
137.5°	57.5	56.7	60.9	62.6	66.0	69.4	71.9	77.9	83.8	89.7	97.3
140°	58.4	57.5	60.9	64.3	66.0	69.4	71.1	77.0	82.9	88.0	94.8
142.5°	59.2	59.2	61.8	65.2	66.0	68.5	71.1	76.2	81.2	85.5	93.1
145°	59.2	59.2	61.8	66.0	66.9	67.7	69.4	74.5	78.7	82.9	89.7
147.5°	59.2	59.2	62.6	66.0	67.7	68.5	67.7	72.8	77.0	80.4	86.3
150°	59.2	59.2	62.6	66.0	68.5	69.4	68.5	71.1	74.5	77.9	82.9
152.5°	60.1	60.1	62.6	66.0	68.5	69.4	69.4	69.4	71.9	75.3	80.4
155°	60.1	60.9	62.6	67.7	69.4	70.2	70.2	70.2	69.4	72.8	77.0
157.5°	62.6	63.5	64.3	68.5	70.2	71.1	71.1	71.1	70.2	69.4	73.6
160°	65.2	66.0	66.9	70.2	71.9	72.8	72.8	72.8	71.1	70.2	70.2
162.5°	67.7	69.4	69.4	71.1	72.8	73.6	73.6	74.5	72.8	71.9	71.1
165°	71.1	71.9	71.9	72.8	74.5	75.3	74.5	75.3	74.5	73.6	72.8
167.5°	73.6	74.5	74.5	75.3	75.3	76.2	76.2	76.2	75.3	74.5	74.5
170°	76.2	77.0	77.0	77.0	77.0	77.0	77.0	77.0	76.2	74.5	74.5
172.5°	77.9	78.7	78.7	77.9	77.9	77.9	77.9	77.0	75.3	74.5	74.5
175°	78.7	79.5	79.5	78.7	77.9	77.9	77.9	77.0	75.3	74.5	74.5
177.5°	79.5	80.4	79.5	79.5	77.9	77.9	77.9	77.9	76.2	75.3	74.5
180°	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5



TEST NUMBER: P893567  
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L940

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4	889.4
2.5°	888.6	878.4	885.2	886.0	889.4	886.0	888.6	886.0	892.8	890.3
5°	885.2	875.9	881.8	882.7	886.9	882.7	886.9	885.2	893.7	891.1
7.5°	879.3	871.7	876.7	877.6	882.7	878.4	882.7	881.0	891.1	887.7
10°	870.8	864.9	870.0	870.8	875.9	871.7	875.0	873.3	884.4	879.3
12.5°	861.5	856.4	860.7	861.5	867.4	863.2	867.4	865.7	876.7	871.7
15°	848.0	845.4	849.7	851.3	857.3	853.9	858.1	856.4	868.3	861.5
17.5°	834.4	832.7	837.0	838.7	845.4	841.2	845.4	843.7	855.6	848.8
20°	817.5	816.6	820.9	823.4	829.3	825.1	830.2	828.5	841.2	834.4
22.5°	799.7	799.7	803.1	805.6	811.6	808.2	813.3	812.4	825.1	818.3
25°	780.3	781.1	784.5	787.9	794.6	792.1	796.3	796.3	808.2	799.7
27.5°	758.3	762.5	765.0	769.3	775.2	772.6	776.9	777.7	789.6	781.1
30°	735.4	741.3	743.9	748.9	754.0	754.0	758.3	759.9	771.8	763.3
32.5°	711.7	718.5	721.9	728.6	735.4	735.4	741.3	743.9	755.7	748.1
35°	688.0	697.3	701.6	710.0	716.8	717.6	723.6	726.9	738.8	731.2
37.5°	665.2	677.0	681.2	691.4	697.3	699.0	705.8	710.0	721.0	714.3
40°	641.5	655.9	660.9	671.9	677.0	680.4	687.2	692.2	702.4	696.5
42.5°	618.6	634.7	639.8	651.6	657.6	660.9	667.7	674.5	684.6	678.7
45°	595.8	613.5	619.5	632.2	637.2	642.3	649.9	655.9	665.2	660.1
47.5°	573.8	592.4	598.3	611.9	617.8	623.7	630.5	638.9	647.4	642.3
50°	550.9	570.4	578.0	592.4	597.5	604.2	612.7	620.3	628.8	624.5
52.5°	528.9	549.2	556.8	572.1	578.0	584.8	593.2	601.7	609.3	605.9
55°	505.2	527.2	535.7	551.8	557.7	564.5	573.8	583.1	589.8	587.3
57.5°	483.2	506.1	514.5	532.3	537.4	545.8	555.2	565.3	571.2	568.7
60°	461.2	484.1	494.2	512.0	517.9	526.4	535.7	546.7	551.8	550.1
62.5°	439.2	462.9	473.9	492.5	497.6	506.9	517.9	527.2	532.3	531.5
65°	418.9	441.8	454.4	473.1	478.1	488.3	498.5	508.6	513.7	513.7
67.5°	397.7	422.3	435.0	454.4	458.7	469.7	480.7	490.8	495.1	495.1
70°	378.3	402.0	416.4	435.8	440.1	450.2	462.1	473.1	476.4	477.3
72.5°	358.8	382.5	397.7	418.1	422.3	432.4	443.4	455.3	457.8	458.7
75°	340.2	363.9	379.1	399.4	403.7	413.8	425.7	436.7	440.1	440.9
77.5°	321.6	345.3	362.2	381.7	385.9	396.1	407.9	418.9	421.4	423.1
80°	304.7	327.5	343.6	364.7	369.0	379.1	390.1	401.1	402.8	405.4
82.5°	287.7	310.6	327.5	347.8	352.0	362.2	373.2	384.2	385.9	389.3
85°	271.7	294.5	311.4	330.9	336.0	345.3	357.1	367.3	369.0	371.5
87.5°	257.3	278.4	296.2	314.8	319.9	329.2	341.0	351.2	352.0	355.4
90°	242.0	263.2	281.0	299.6	304.7	313.1	325.0	335.1	336.8	339.4
92.5°	229.3	248.8	267.4	285.2	289.4	298.7	309.7	319.9	321.6	324.1
95°	215.8	235.3	253.9	270.8	275.0	284.3	294.5	304.7	306.3	308.9
97.5°	204.0	222.6	240.3	257.3	261.5	270.0	281.0	290.3	292.0	295.3
100°	192.9	210.7	229.3	244.6	248.8	257.3	267.4	276.7	278.4	281.8
102.5°	182.8	199.7	217.5	231.9	237.0	244.6	254.7	263.2	264.9	267.4
105°	173.5	189.6	206.5	220.0	225.1	232.7	242.0	250.5	252.2	254.7
107.5°	164.2	179.4	195.5	209.0	213.3	220.0	229.3	237.8	239.5	242.9
110°	155.7	170.9	186.2	198.9	204.0	209.0	218.3	226.0	227.6	230.2





TEST NUMBER: P893567  
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L940

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	148.1	161.6	176.9	188.7	192.9	198.9	206.5	214.1	215.8	219.2
115°	141.3	154.0	169.3	180.3	183.6	188.7	197.2	204.0	205.6	208.2
117.5°	135.4	146.4	159.9	170.9	175.2	179.4	187.0	192.9	195.5	197.2
120°	130.3	140.5	152.3	162.5	167.6	170.9	177.7	183.6	186.2	187.9
122.5°	125.2	134.6	145.6	154.9	159.1	161.6	169.3	174.3	176.9	179.4
125°	121.0	129.5	139.6	147.3	151.5	154.0	160.8	165.9	168.4	170.1
127.5°	116.8	124.4	134.6	140.5	144.7	146.4	152.3	157.4	159.9	160.8
130°	112.6	120.2	128.6	134.6	137.9	140.5	145.6	148.9	151.5	152.3
132.5°	109.2	115.9	123.6	129.5	132.9	133.7	138.8	142.2	144.7	145.6
135°	106.6	111.7	119.3	124.4	126.9	128.6	132.9	135.4	137.9	138.8
137.5°	103.2	108.3	115.1	118.5	121.9	122.7	126.9	129.5	132.0	132.9
140°	100.7	104.9	110.9	114.2	117.6	117.6	121.0	123.6	126.1	126.1
142.5°	98.2	102.4	107.5	110.9	113.4	113.4	116.8	118.5	121.0	121.0
145°	94.8	99.0	104.1	106.6	109.2	109.2	111.7	113.4	115.9	115.9
147.5°	91.4	95.6	100.7	102.4	104.9	104.9	107.5	109.2	110.9	110.9
150°	87.2	90.6	96.5	99.0	101.6	101.6	103.2	104.9	106.6	106.6
152.5°	83.8	86.3	91.4	94.8	97.3	97.3	99.0	100.7	102.4	102.4
155°	79.5	82.1	86.3	90.6	93.1	93.9	95.6	96.5	98.2	98.2
157.5°	76.2	78.7	82.1	85.5	88.0	89.7	92.2	93.1	93.9	93.9
160°	71.9	73.6	77.0	80.4	82.9	84.6	88.9	89.7	90.6	90.6
162.5°	70.2	70.2	71.9	74.5	77.0	77.9	82.1	85.5	87.2	86.3
165°	71.1	70.2	70.2	71.1	72.8	73.6	76.2	81.2	82.9	82.1
167.5°	72.8	71.1	70.2	70.2	71.9	71.9	74.5	78.7	83.8	82.1
170°	72.8	70.2	68.5	68.5	69.4	69.4	71.1	73.6	78.7	79.5
172.5°	71.9	70.2	67.7	64.3	65.2	64.3	63.5	65.2	66.0	74.5
175°	72.8	70.2	67.7	63.5	61.8	59.2	55.0	51.6	50.8	41.5
177.5°	71.9	69.4	66.0	62.6	60.9	57.5	52.5	46.5	43.2	38.1
180°	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5



TEST NUMBER: P893567  
 CATALOG NUMBER: 4MB-4SL-RNDU-UNV-L940

**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	13.34	14.65	13.98	15.32	16.09	16.89	18.20	17.53	18.86	19.63
	3H	14.69	15.89	15.34	16.56	17.37	19.80	21.00	20.46	21.68	22.48
	4H	15.09	16.23	15.77	16.92	17.73	21.28	22.42	21.95	23.11	23.92
	6H	15.31	16.37	16.00	17.07	17.90	22.84	23.90	23.52	24.60	25.43
	8H	15.34	16.36	16.04	17.08	17.91	23.65	24.66	24.34	25.38	26.21
	12H	15.35	16.32	16.05	17.04	17.90	24.53	25.50	25.23	26.21	27.08
4H	2H	14.48	15.62	15.16	16.31	17.12	17.21	18.35	17.88	19.03	19.85
	3H	16.13	17.10	16.81	17.82	18.66	20.36	21.33	21.04	22.06	22.89
	4H	16.69	17.60	17.40	18.32	19.18	22.01	22.91	22.71	23.63	24.49
	6H	17.04	17.83	17.76	18.58	19.45	23.78	24.57	24.50	25.32	26.19
	8H	17.11	17.86	17.84	18.61	19.49	24.71	25.46	25.44	26.21	27.09
	12H	17.14	17.82	17.88	18.59	19.48	25.73	26.42	26.48	27.19	28.08
8H	4H	17.78	18.53	18.51	19.28	20.16	22.18	22.93	22.91	23.68	24.56
	6H	18.39	19.03	19.14	19.82	20.70	24.13	24.77	24.89	25.56	26.44
	8H	18.59	19.17	19.35	19.95	20.85	25.21	25.79	25.98	26.58	27.48
	12H	18.70	19.22	19.47	20.00	20.95	26.43	26.95	27.20	27.73	28.68
12H	4H	18.13	18.82	18.88	19.59	20.48	22.18	22.86	22.92	23.63	24.52
	6H	18.91	19.49	19.68	20.28	21.18	24.16	24.74	24.93	25.53	26.43
	8H	19.24	19.76	20.01	20.54	21.49	25.31	25.83	26.08	26.61	27.56