

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: P893284

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-2SL-FLT-UNV-L850
Description: 2000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

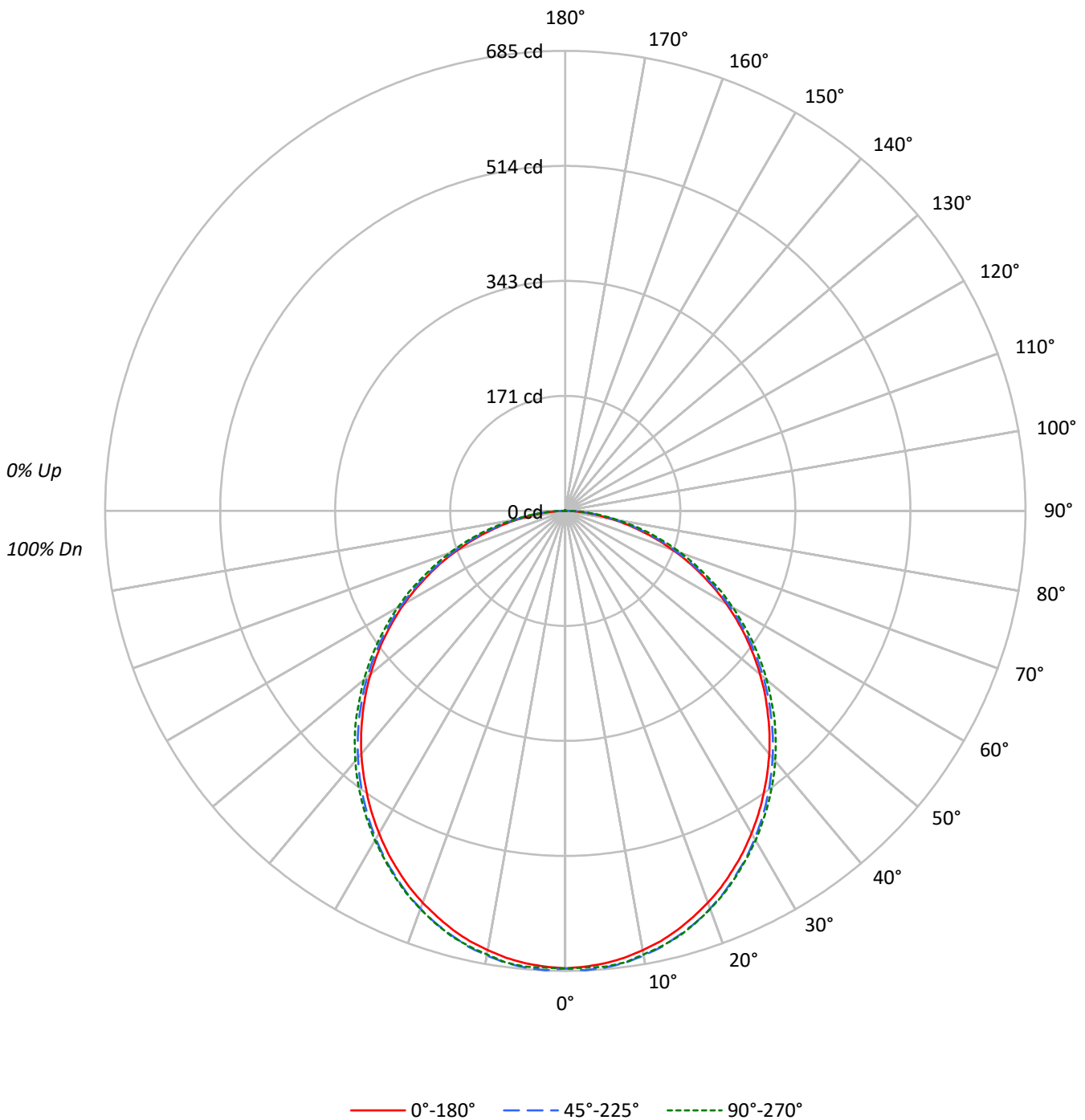
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: 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

TEST NUMBER: P893284
CATALOG NUMBER: 4MB-2SL-FLT-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P893284
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L850

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83				83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69				69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58				58
4	82	70	62	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4847	4847	4847
5°	4830	4876	4865
10°	4799	4856	4846
15°	4757	4820	4827
20°	4701	4772	4776
25°	4632	4706	4717
30°	4556	4634	4654
35°	4470	4548	4587
40°	4387	4460	4516
45°	4290	4361	4435
50°	4190	4256	4334
55°	4076	4138	4225
60°	3946	4010	4101
65°	3769	3845	3946
70°	3549	3651	3817
75°	3263	3401	3620
80°	2880	3106	3270
85°	2482	2849	3053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4435 cd/sqm



TEST NUMBER: P893284
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	3.4
10°-20°	183.6	9.7
20°-30°	275.1	14.5
30°-40°	327.4	17.3
40°-50°	335.9	17.8
50°-60°	300.9	15.9
60°-70°	228.7	12.1
70°-80°	132.9	7.0
80°-90°	39.9	2.1
90°-100°	1.0	0.1
100°-110°	0.2	0.0
110°-120°	0.0	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	523.2	27.7
0°-40°	850.5	45.0
0°-60°	1487.4	78.7
0°-90°	1888.9	99.9
90°-120°	1.1	0.1
90°-150°	1.7	0.1
90°-180°	2.0	0.1
0°-180°	1891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	676	688	683	679	681	64
15°	646	658	654	653	655	182
25°	590	603	599	598	601	272
35°	515	527	524	525	528	322
45°	426	437	433	437	441	329
55°	329	337	334	338	341	294
65°	224	229	228	232	234	222
75°	119	123	124	128	132	126
85°	30	33	35	37	37	33
90°	0	2	2	4	3	2
95°	0	0	0	1	2	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	1	1	1	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P893284
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2
2.5°	679.2	678.2	679.2	678.7	683.7	689.7	688.7	684.2	679.2	680.7	684.7
5°	676.2	675.7	677.2	676.2	681.2	687.7	685.7	681.7	677.2	678.7	682.7
7.5°	671.2	671.2	673.2	672.2	676.7	683.2	681.2	677.7	673.2	674.7	678.7
10°	664.3	664.8	667.2	665.8	669.7	676.7	674.7	671.2	667.2	668.2	672.2
12.5°	656.3	656.3	659.3	657.8	661.8	668.2	665.8	663.3	659.3	660.3	664.8
15°	645.8	646.3	649.8	648.3	651.8	658.3	655.8	653.8	650.3	650.8	654.3
17.5°	633.8	635.3	638.8	637.3	640.8	647.3	644.3	642.3	639.3	639.8	643.3
20°	620.9	622.4	625.9	624.9	627.4	633.8	630.8	629.8	626.9	627.4	630.3
22.5°	606.4	607.9	611.9	610.9	613.4	619.9	616.4	615.9	612.9	613.4	615.9
25°	590.0	591.9	596.4	595.4	597.4	603.4	600.4	599.4	597.4	597.4	599.4
27.5°	573.0	575.0	580.0	578.5	580.0	586.5	583.0	582.5	580.5	580.5	582.5
30°	554.5	556.5	562.0	560.5	562.0	567.5	564.0	564.5	562.5	562.5	564.0
32.5°	535.1	536.6	542.6	541.6	542.6	548.1	544.6	545.1	543.1	543.6	544.1
35°	514.6	516.1	522.6	521.6	522.1	527.1	524.6	524.6	523.1	522.6	523.6
37.5°	493.7	495.2	503.2	500.7	500.7	505.7	503.7	503.7	502.2	501.7	502.2
40°	472.3	473.3	481.7	479.2	478.7	483.2	481.7	481.7	480.7	479.7	480.2
42.5°	449.8	451.3	459.8	457.8	455.8	460.8	459.3	459.8	458.3	457.3	457.3
45°	426.4	427.9	436.4	435.4	432.4	436.9	435.4	436.4	434.4	433.4	433.4
47.5°	402.9	404.9	412.9	411.4	408.4	412.9	411.4	412.4	410.4	409.4	409.4
50°	378.5	380.5	389.0	386.5	383.5	388.0	387.0	387.5	386.0	385.0	384.5
52.5°	353.6	356.1	364.0	361.1	358.6	362.5	362.0	362.5	360.6	360.1	359.6
55°	328.6	331.1	338.6	335.1	333.1	336.6	335.6	336.6	334.6	334.1	333.6
57.5°	302.7	305.2	312.2	308.7	307.2	310.2	309.7	310.2	308.7	308.2	307.7
60°	277.3	279.3	285.7	282.3	280.8	283.8	282.8	284.3	282.3	282.3	281.8
62.5°	250.3	252.8	259.3	255.3	254.3	256.8	255.8	257.3	256.3	255.3	254.8
65°	223.9	225.4	231.4	227.9	226.4	229.4	228.9	229.9	228.4	228.9	228.4
67.5°	197.5	198.5	204.5	200.5	199.5	202.5	203.0	202.5	201.5	202.0	201.5
70°	170.6	171.5	176.5	173.0	172.5	175.0	176.0	175.5	174.5	175.0	175.5
72.5°	144.6	145.1	149.6	146.6	146.1	149.1	149.1	149.1	149.1	149.1	150.1
75°	118.7	119.2	123.2	120.7	120.2	123.2	123.2	123.2	123.2	124.2	123.7
77.5°	93.8	93.3	97.2	95.7	94.8	97.7	97.7	98.2	99.2	100.2	98.7
80°	70.3	69.8	72.8	70.8	70.8	73.8	73.3	73.8	74.8	75.3	75.8
82.5°	49.4	48.4	50.9	50.4	49.9	52.4	52.9	52.4	53.9	54.4	54.4
85°	30.4	30.4	31.9	30.9	30.9	32.9	32.9	33.4	34.4	34.9	34.9
87.5°	14.5	14.0	15.5	15.0	14.5	16.0	16.0	16.5	17.0	17.5	17.0
90°	0.5	0.5	1.0	1.0	1.0	2.0	2.0	2.0	2.5	2.5	2.0
92.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
95°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



TEST NUMBER: P893284
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L850

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
132.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
135°	0.0	0.5	0.5	0.5	0.5	0.0	0.5	0.0	0.0	0.0	0.5
137.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
140°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
142.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
145°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
147.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
170°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
172.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
175°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	1.0
177.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P893284
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L850

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2	681.2
2.5°	678.7	675.2	673.7	674.7	681.7	674.7	682.2	684.7	675.7	680.7
5°	676.7	673.2	671.2	672.2	679.2	672.7	680.7	683.7	676.2	681.2
7.5°	672.7	668.7	667.7	669.2	675.2	669.7	677.7	680.7	673.2	678.2
10°	666.7	663.3	662.3	663.8	669.2	663.8	670.7	673.2	666.3	670.7
12.5°	659.3	655.8	654.8	656.8	661.8	656.8	663.8	666.3	659.3	663.8
15°	649.8	646.3	645.8	648.8	653.3	648.8	655.8	657.8	650.8	655.3
17.5°	638.3	634.8	635.3	638.8	642.3	638.3	644.8	646.8	640.3	643.8
20°	625.9	621.9	622.9	625.9	628.8	624.9	631.3	633.3	627.4	630.8
22.5°	611.4	607.4	608.4	611.9	613.9	610.4	616.4	618.4	613.4	616.9
25°	595.4	591.9	593.4	596.9	598.4	595.4	600.9	602.4	597.9	600.9
27.5°	579.5	575.5	577.5	581.0	582.0	579.0	584.5	585.5	581.0	584.0
30°	561.5	557.5	560.0	564.0	564.0	562.0	566.5	567.5	564.0	566.5
32.5°	541.6	538.6	541.6	545.1	544.6	543.1	547.6	548.6	545.6	547.6
35°	521.6	519.1	522.1	525.6	525.1	523.6	528.1	528.6	526.1	528.1
37.5°	501.2	499.2	502.2	505.2	504.2	503.2	507.2	507.2	505.7	507.7
40°	480.2	478.2	480.7	484.2	482.2	482.2	484.7	485.7	484.2	486.2
42.5°	458.3	456.3	459.3	462.3	460.3	459.8	462.8	463.3	462.3	463.8
45°	435.4	433.4	436.4	438.8	436.9	436.9	439.3	439.3	438.8	440.8
47.5°	411.9	410.4	412.9	415.4	413.4	414.9	414.9	414.9	415.9	415.4
50°	388.0	386.5	388.5	391.5	389.0	389.5	390.5	390.5	391.0	391.5
52.5°	363.0	361.1	363.0	366.5	363.0	364.5	365.0	365.5	367.0	366.0
55°	338.1	336.1	338.1	341.1	337.6	339.6	339.6	340.1	341.6	340.6
57.5°	312.2	310.2	313.2	315.2	311.7	313.7	313.7	314.7	315.7	314.2
60°	286.2	284.8	285.7	289.2	285.7	287.7	287.7	287.7	289.7	288.2
62.5°	259.8	258.8	259.8	262.8	259.3	261.3	260.8	261.3	263.3	262.8
65°	232.9	231.9	232.9	235.9	232.4	234.4	234.4	234.9	236.4	234.4
67.5°	206.5	205.0	206.5	209.0	206.0	207.5	207.5	207.5	209.9	209.0
70°	179.5	178.5	179.5	182.0	179.5	180.5	180.5	180.5	183.0	183.5
72.5°	153.1	153.1	154.1	156.1	154.1	156.1	154.6	153.6	157.1	157.6
75°	127.2	127.7	128.2	130.2	128.2	130.2	129.2	128.2	131.2	131.7
77.5°	103.2	103.2	103.7	105.2	103.7	105.2	104.2	104.2	106.2	105.7
80°	78.8	78.8	79.3	80.8	79.3	80.8	79.8	79.8	81.8	79.8
82.5°	57.3	57.3	57.3	58.8	57.8	58.8	58.3	57.3	59.8	57.8
85°	36.9	37.4	37.4	37.9	37.4	37.9	37.9	37.4	38.9	37.4
87.5°	19.0	19.0	19.0	19.4	19.0	19.0	19.4	19.0	19.9	19.4
90°	3.5	3.0	3.0	4.0	3.5	3.5	4.0	3.0	3.5	3.0
92.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
102.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
105°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5



TEST NUMBER: P893284
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L850

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.5	0.5	0.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0
140°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
142.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
145°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
147.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
150°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
155°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
157.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
160°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
162.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
165°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
167.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
170°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
172.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
175°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
177.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P893284
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L850

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	16.99	18.63	17.36	18.94	19.26	17.13	18.76	17.49	19.08	19.40
	3H	18.81	20.29	19.19	20.62	20.99	18.96	20.44	19.34	20.77	21.13
	4H	19.47	20.87	19.87	21.22	21.60	19.67	21.06	20.07	21.41	21.79
	6H	19.93	21.22	20.34	21.59	21.98	20.22	21.52	20.64	21.89	22.28
	8H	20.07	21.30	20.49	21.69	22.10	20.42	21.66	20.84	22.05	22.45
	12H	20.16	21.35	20.59	21.73	22.16	20.56	21.75	20.99	22.13	22.56
4H	2H	17.62	19.02	18.02	19.37	19.75	17.73	19.13	18.13	19.48	19.86
	3H	19.66	20.84	20.08	21.24	21.64	19.80	20.97	20.21	21.37	21.77
	4H	20.46	21.52	20.89	21.94	22.37	20.64	21.71	21.08	22.12	22.56
	6H	21.03	21.96	21.49	22.41	22.86	21.34	22.27	21.79	22.71	23.17
	8H	21.22	22.09	21.69	22.54	23.01	21.58	22.45	22.04	22.90	23.36
	12H	21.37	22.15	21.85	22.63	23.10	21.78	22.56	22.26	23.03	23.51
8H	4H	20.79	21.66	21.25	22.10	22.57	20.95	21.82	21.42	22.27	22.73
	6H	21.49	22.21	21.99	22.70	23.18	21.78	22.50	22.27	22.99	23.47
	8H	21.75	22.40	22.26	22.91	23.40	22.11	22.76	22.62	23.27	23.76
	12H	21.97	22.55	22.48	23.04	23.60	22.39	22.97	22.90	23.46	24.02
12H	4H	20.83	21.61	21.31	22.09	22.56	20.99	21.77	21.47	22.25	22.72
	6H	21.56	22.21	22.07	22.72	23.21	21.84	22.49	22.35	22.99	23.48
	8H	21.89	22.46	22.40	22.95	23.52	22.23	22.81	22.74	23.30	23.86