

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: P893282

Luminaire Tested: 4MB-2SL-FLT-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893282
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-L835
Description: 2000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

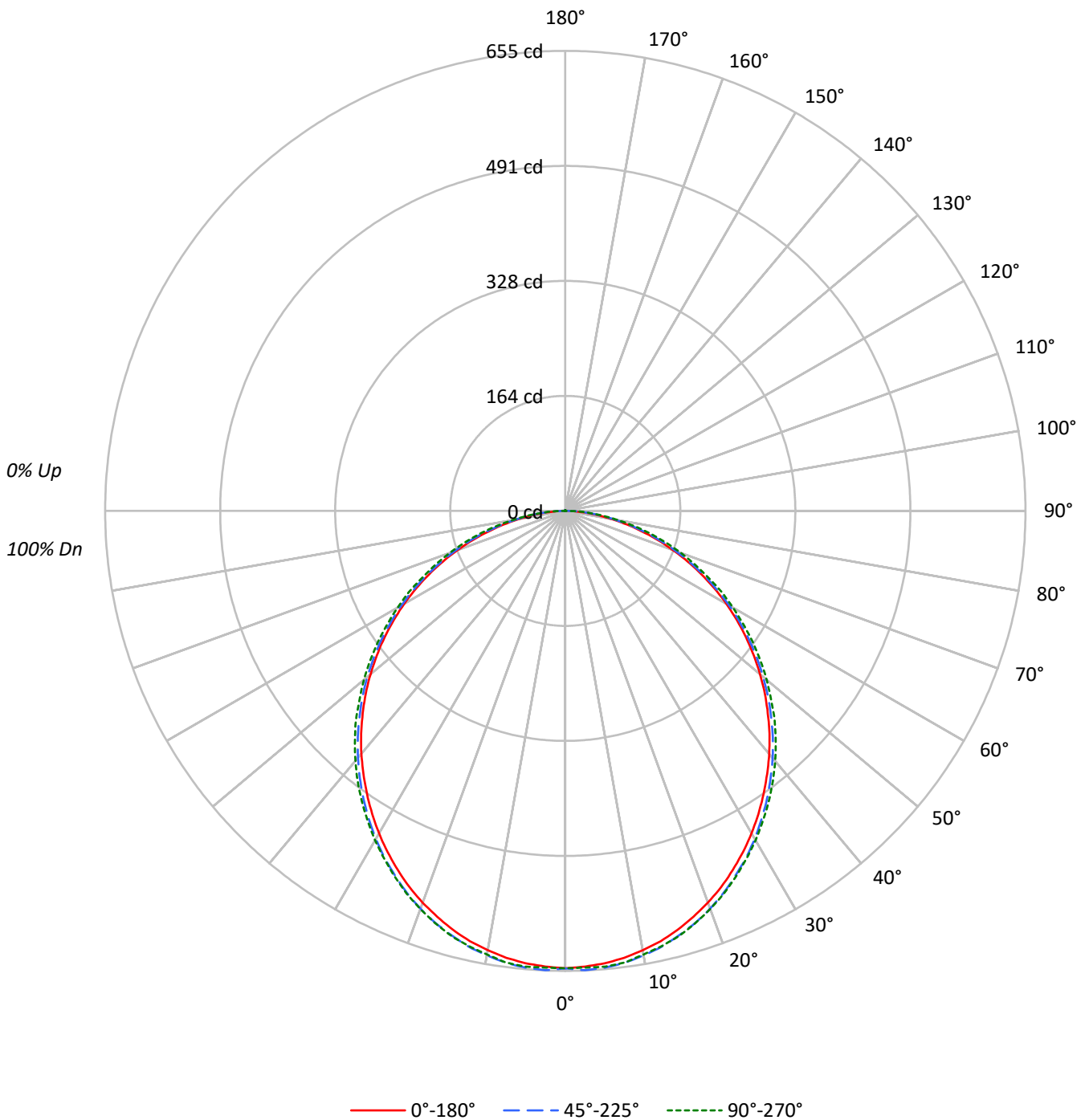
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1808.1 lumens
Efficiency: N/A
Efficacy: 131.0 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: P893282
CATALOG NUMBER: 4MB-2SL-FLT-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P893282

CATALOG NUMBER: 4MB-2SL-FLT-UNV-L835

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4634	4634	4634
5°	4617	4662	4652
10°	4588	4643	4633
15°	4548	4608	4615
20°	4495	4563	4567
25°	4428	4499	4510
30°	4356	4431	4450
35°	4274	4348	4385
40°	4194	4265	4318
45°	4102	4169	4241
50°	4006	4069	4143
55°	3898	3957	4040
60°	3772	3834	3922
65°	3604	3677	3773
70°	3393	3491	3651
75°	3120	3249	3461
80°	2753	2971	3126
85°	2376	2727	2923

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4241 cd/sqm



TEST NUMBER: P893282
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	3.4
10°-20°	175.5	9.7
20°-30°	263.1	14.5
30°-40°	313.0	17.3
40°-50°	321.2	17.8
50°-60°	287.7	15.9
60°-70°	218.6	12.1
70°-80°	127.1	7.0
80°-90°	38.1	2.1
90°-100°	0.9	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°	500.2	27.7
0°-40°	813.2	45.0
0°-60°	1422.1	78.7
0°-90°	1806.0	99.9
90°-120°	1.1	0.1
90°-150°	1.7	0.1
90°-180°	2.0	0.1
0°-180°	1808.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	651	651	651	651	651	
5°	646	658	653	649	651	61
15°	618	629	626	625	626	174
25°	564	577	573	572	574	260
35°	492	504	501	502	505	308
45°	408	418	414	418	422	315
55°	314	322	319	323	326	281
65°	214	219	218	222	224	212
75°	114	118	118	122	126	120
85°	29	32	33	36	36	32
90°	0	2	2	3	3	2
95°	0	0	0	1	1	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: P893282

CATALOG NUMBER: 4MB-2SL-FLT-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	651.3	651.3	651.3	651.3	651.3	651.3	651.3	651.3	651.3	651.3	651.3
2.5°	649.4	648.5	649.4	648.9	653.7	659.4	658.5	654.2	649.4	650.8	654.6
5°	646.5	646.1	647.5	646.5	651.3	657.5	655.6	651.8	647.5	648.9	652.7
7.5°	641.8	641.8	643.7	642.7	647.0	653.2	651.3	648.0	643.7	645.1	648.9
10°	635.1	635.6	638.0	636.5	640.3	647.0	645.1	641.8	638.0	638.9	642.7
12.5°	627.5	627.5	630.3	628.9	632.7	638.9	636.5	634.1	630.3	631.3	635.6
15°	617.5	617.9	621.3	619.8	623.2	629.4	627.0	625.1	621.7	622.2	625.6
17.5°	606.0	607.4	610.8	609.4	612.7	618.9	616.0	614.1	611.3	611.7	615.1
20°	593.6	595.0	598.4	597.4	599.8	606.0	603.2	602.2	599.3	599.8	602.7
22.5°	579.8	581.2	585.0	584.1	586.5	592.7	589.3	588.8	586.0	586.5	588.8
25°	564.1	566.0	570.3	569.3	571.2	576.9	574.1	573.1	571.2	571.2	573.1
27.5°	547.8	549.8	554.5	553.1	554.5	560.7	557.4	556.9	555.0	555.0	556.9
30°	530.2	532.1	537.4	535.9	537.4	542.6	539.3	539.7	537.8	537.8	539.3
32.5°	511.6	513.0	518.8	517.8	518.8	524.0	520.7	521.1	519.2	519.7	520.2
35°	492.1	493.5	499.7	498.7	499.2	504.0	501.6	501.6	500.2	499.7	500.6
37.5°	472.0	473.5	481.1	478.7	478.7	483.5	481.6	481.6	480.1	479.7	480.1
40°	451.5	452.5	460.6	458.2	457.7	462.0	460.6	460.6	459.6	458.7	459.2
42.5°	430.1	431.5	439.6	437.7	435.8	440.6	439.1	439.6	438.2	437.2	437.2
45°	407.7	409.1	417.2	416.2	413.4	417.7	416.2	417.2	415.3	414.3	414.3
47.5°	385.3	387.2	394.8	393.4	390.5	394.8	393.4	394.3	392.4	391.5	391.5
50°	361.9	363.8	371.9	369.5	366.7	371.0	370.0	370.5	369.0	368.1	367.6
52.5°	338.1	340.4	348.1	345.2	342.8	346.6	346.2	346.6	344.7	344.3	343.8
55°	314.2	316.6	323.7	320.4	318.5	321.8	320.9	321.8	319.9	319.5	319.0
57.5°	289.4	291.8	298.5	295.1	293.7	296.6	296.1	296.6	295.1	294.7	294.2
60°	265.1	267.0	273.2	269.9	268.4	271.3	270.3	271.8	269.9	269.9	269.4
62.5°	239.4	241.7	247.9	244.1	243.2	245.6	244.6	246.0	245.1	244.1	243.6
65°	214.1	215.5	221.2	217.9	216.5	219.3	218.9	219.8	218.4	218.9	218.4
67.5°	188.8	189.8	195.5	191.7	190.7	193.6	194.1	193.6	192.6	193.1	192.6
70°	163.1	164.0	168.8	165.5	165.0	167.4	168.3	167.8	166.9	167.4	167.8
72.5°	138.3	138.7	143.0	140.2	139.7	142.6	142.6	142.6	142.6	142.6	143.5
75°	113.5	114.0	117.8	115.4	114.9	117.8	117.8	117.8	117.8	118.7	118.2
77.5°	89.6	89.2	93.0	91.5	90.6	93.5	93.5	93.9	94.9	95.8	94.4
80°	67.2	66.8	69.6	67.7	67.7	70.6	70.1	70.6	71.5	72.0	72.5
82.5°	47.2	46.2	48.6	48.2	47.7	50.1	50.5	50.1	51.5	52.0	52.0
85°	29.1	29.1	30.5	29.6	29.6	31.5	31.5	31.9	32.9	33.4	33.4
87.5°	13.8	13.4	14.8	14.3	13.8	15.3	15.3	15.7	16.2	16.7	16.2
90°	0.5	0.5	1.0	1.0	1.0	1.9	1.9	1.9	2.4	2.4	1.9
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: P893282
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L835

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: P893282
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L835

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	651.3	651.3	651.3	651.3	651.3	651.3	651.3	651.3	651.3	651.3
2.5°	648.9	645.6	644.2	645.1	651.8	645.1	652.3	654.6	646.1	650.8
5°	647.0	643.7	641.8	642.7	649.4	643.2	650.8	653.7	646.5	651.3
7.5°	643.2	639.4	638.4	639.9	645.6	640.3	648.0	650.8	643.7	648.5
10°	637.5	634.1	633.2	634.6	639.9	634.6	641.3	643.7	637.0	641.3
12.5°	630.3	627.0	626.0	627.9	632.7	627.9	634.6	637.0	630.3	634.6
15°	621.3	617.9	617.5	620.3	624.6	620.3	627.0	628.9	622.2	626.5
17.5°	610.3	607.0	607.4	610.8	614.1	610.3	616.5	618.4	612.2	615.6
20°	598.4	594.6	595.5	598.4	601.2	597.4	603.6	605.5	599.8	603.2
22.5°	584.6	580.7	581.7	585.0	586.9	583.6	589.3	591.2	586.5	589.8
25°	569.3	566.0	567.4	570.7	572.2	569.3	574.5	576.0	571.7	574.5
27.5°	554.0	550.2	552.1	555.5	556.4	553.6	558.8	559.8	555.5	558.3
30°	536.9	533.1	535.4	539.3	539.3	537.4	541.6	542.6	539.3	541.6
32.5°	517.8	514.9	517.8	521.1	520.7	519.2	523.5	524.5	521.6	523.5
35°	498.7	496.4	499.2	502.5	502.1	500.6	504.9	505.4	503.0	504.9
37.5°	479.2	477.3	480.1	483.0	482.0	481.1	484.9	484.9	483.5	485.4
40°	459.2	457.3	459.6	463.0	461.1	461.1	463.5	464.4	463.0	464.9
42.5°	438.2	436.3	439.1	442.0	440.1	439.6	442.5	442.9	442.0	443.4
45°	416.2	414.3	417.2	419.6	417.7	417.7	420.1	420.1	419.6	421.5
47.5°	393.8	392.4	394.8	397.2	395.3	396.7	396.7	396.7	397.7	397.2
50°	371.0	369.5	371.4	374.3	371.9	372.4	373.3	373.3	373.8	374.3
52.5°	347.1	345.2	347.1	350.4	347.1	348.5	349.0	349.5	350.9	350.0
55°	323.3	321.4	323.3	326.1	322.8	324.7	324.7	325.2	326.6	325.7
57.5°	298.5	296.6	299.4	301.3	298.0	299.9	299.9	300.9	301.8	300.4
60°	273.7	272.3	273.2	276.5	273.2	275.1	275.1	275.1	277.0	275.6
62.5°	248.4	247.5	248.4	251.3	247.9	249.8	249.4	249.8	251.8	251.3
65°	222.7	221.7	222.7	225.5	222.2	224.1	224.1	224.6	226.0	224.1
67.5°	197.4	196.0	197.4	199.8	196.9	198.3	198.3	198.3	200.7	199.8
70°	171.6	170.7	171.6	174.0	171.6	172.6	172.6	172.6	175.0	175.5
72.5°	146.4	146.4	147.3	149.2	147.3	149.2	147.8	146.9	150.2	150.7
75°	121.6	122.1	122.5	124.4	122.5	124.4	123.5	122.5	125.4	125.9
77.5°	98.7	98.7	99.2	100.6	99.2	100.6	99.7	99.7	101.6	101.1
80°	75.3	75.3	75.8	77.2	75.8	77.2	76.3	76.3	78.2	76.3
82.5°	54.8	54.8	54.8	56.3	55.3	56.3	55.8	54.8	57.2	55.3
85°	35.3	35.8	35.8	36.2	35.8	36.2	36.2	35.8	37.2	35.8
87.5°	18.1	18.1	18.1	18.6	18.1	18.1	18.6	18.1	19.1	18.6
90°	3.3	2.9	2.9	3.8	3.3	3.3	3.8	2.9	3.3	2.9
92.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4
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: P893282
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L835

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: P893282
 CATALOG NUMBER: 4MB-2SL-FLT-UNV-L835

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	16.83	18.47	17.20	18.79	19.10	16.97	18.61	17.34	18.92	19.24
	3H	18.66	20.14	19.04	20.47	20.83	18.80	20.28	19.18	20.61	20.98
	4H	19.32	20.71	19.72	21.06	21.44	19.51	20.91	19.91	21.26	21.63
	6H	19.77	21.07	20.18	21.43	21.83	20.07	21.36	20.48	21.73	22.12
	8H	19.91	21.15	20.34	21.54	21.94	20.26	21.50	20.69	21.89	22.29
	12H	20.01	21.19	20.44	21.58	22.01	20.40	21.59	20.84	21.97	22.40
4H	2H	17.47	18.86	17.87	19.21	19.59	17.58	18.97	17.98	19.32	19.70
	3H	19.51	20.68	19.92	21.08	21.48	19.64	20.81	20.05	21.21	21.62
	4H	20.30	21.36	20.74	21.78	22.22	20.49	21.55	20.92	21.96	22.40
	6H	20.88	21.81	21.33	22.25	22.71	21.18	22.11	21.64	22.55	23.01
	8H	21.07	21.94	21.53	22.38	22.85	21.43	22.29	21.89	22.74	23.21
	12H	21.21	21.99	21.69	22.47	22.94	21.62	22.40	22.10	22.88	23.35
8H	4H	20.63	21.50	21.09	21.95	22.41	20.80	21.67	21.26	22.11	22.58
	6H	21.33	22.06	21.83	22.55	23.03	21.62	22.35	22.12	22.84	23.31
	8H	21.60	22.25	22.11	22.76	23.24	21.95	22.60	22.46	23.11	23.60
	12H	21.81	22.39	22.32	22.88	23.44	22.24	22.81	22.74	23.30	23.87
12H	4H	20.68	21.46	21.16	21.93	22.41	20.83	21.61	21.31	22.09	22.56
	6H	21.40	22.06	21.92	22.56	23.05	21.68	22.33	22.19	22.84	23.33
	8H	21.73	22.31	22.24	22.80	23.36	22.07	22.65	22.58	23.14	23.70