

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: P893293

Luminaire Tested: 4MB-2SL-FLTU-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-2SL-FLTU-UNV-L930
Description: 2000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 300
Light Source: -
Ballast/Driver: -

Summary

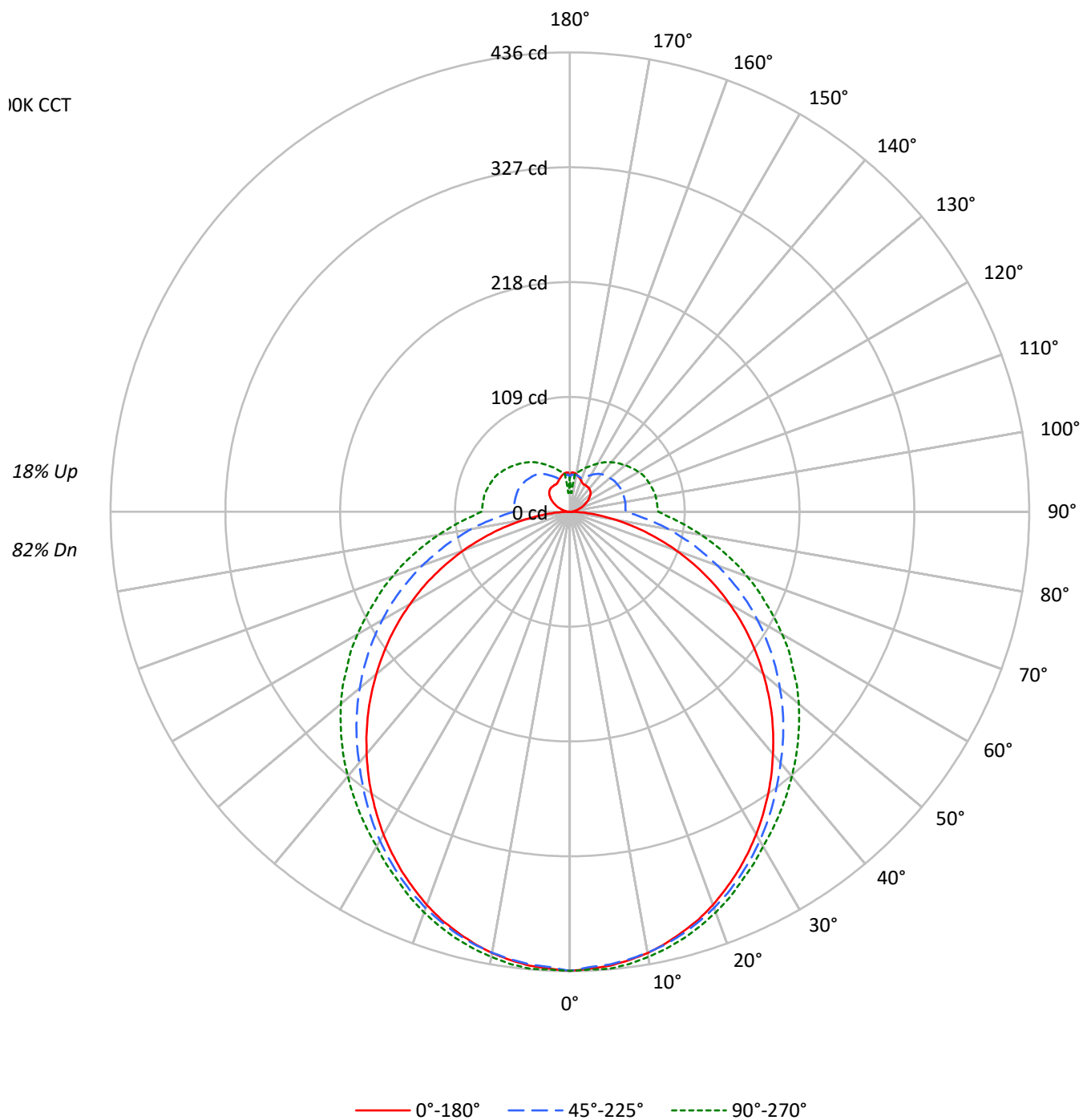
Lumens per Lamp: N/A
Luminaire Lumens: 1647.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 13.8
Input Voltage (V): 120
Input Current (Ain): 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

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3100	3100	3100
5°	3075	2970	2967
10°	3045	2856	2826
15°	3000	2742	2691
20°	2950	2625	2554
25°	2888	2503	2415
30°	2821	2379	2289
35°	2747	2254	2185
40°	2669	2131	2086
45°	2590	2024	1992
50°	2499	1913	1900
55°	2402	1803	1797
60°	2285	1687	1699
65°	2143	1563	1589
70°	1961	1429	1486
75°	1711	1290	1376
80°	1384	1144	1262
85°	955	993	1158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2590 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	2.5
10°-20°	117.5	7.1
20°-30°	176.5	10.7
30°-40°	212.0	12.9
40°-50°	222.9	13.5
50°-60°	209.4	12.7
60°-70°	174.1	10.6
70°-80°	124.3	7.5
80°-90°	74.0	4.5
90°-100°	53.6	3.3
100°-110°	52.8	3.2
110°-120°	49.6	3.0
120°-130°	44.0	2.7
130°-140°	36.4	2.2
140°-150°	27.3	1.7
150°-160°	17.9	1.1
160°-170°	10.2	0.6
170°-180°	3.2	0.2
0°-30°	335.2	20.4
0°-40°	547.2	33.2
0°-60°	979.6	59.5
0°-90°	1351.9	82.1
90°-120°	156.0	9.5
90°-150°	263.7	16.0
90°-180°	295.0	17.9
0°-180°	1647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	432	438	431	432	435	41
15°	413	419	415	417	419	117
25°	377	384	382	386	386	174
35°	328	335	337	345	348	205
45°	271	278	286	301	306	209
55°	208	216	234	253	258	186
65°	142	153	177	200	205	140
75°	74	91	121	145	152	79
85°	19	41	71	95	103	20
90°	0	24	53	76	84	1
95°	2	25	53	75	83	2
105°	8	28	53	74	82	8
115°	15	30	53	71	78	15
125°	22	32	51	67	72	20
135°	28	33	48	61	65	21
145°	29	33	44	54	57	18
155°	29	33	37	46	48	14
165°	34	36	35	35	41	10
175°	37	37	35	30	18	4
180°	33	33	33	33	33	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7
2.5°	434.1	435.3	435.7	439.6	438.0	439.6	436.9	433.7	432.9	434.9	432.5
5°	432.5	433.7	434.1	438.0	436.5	437.6	435.3	432.1	431.3	433.7	431.3
7.5°	429.3	430.5	430.9	435.3	433.3	434.9	432.1	428.9	428.5	430.9	428.5
10°	425.3	426.5	426.9	430.9	429.3	430.9	428.1	424.9	424.5	427.3	424.9
12.5°	419.7	420.9	421.7	425.7	423.7	425.7	422.5	419.3	419.7	422.1	420.5
15°	413.0	414.6	415.0	418.9	417.4	419.3	416.2	413.0	413.8	416.2	414.6
17.5°	405.8	407.4	407.8	411.4	409.8	412.2	408.6	405.8	406.6	409.0	407.8
20°	397.1	398.7	399.5	403.0	401.4	403.8	400.2	397.9	398.7	401.4	400.2
22.5°	387.1	389.5	389.9	393.9	391.9	394.3	390.7	388.7	389.9	392.7	391.5
25°	376.8	379.2	379.6	383.5	381.9	383.9	380.4	378.4	380.0	382.7	381.9
27.5°	365.6	368.0	368.8	372.4	370.8	373.2	369.2	368.0	369.6	372.4	371.6
30°	353.7	356.1	356.5	360.1	358.9	361.3	357.7	356.1	358.5	361.3	360.5
32.5°	341.0	343.4	344.5	347.7	346.5	348.5	345.3	344.5	346.5	349.3	348.9
35°	327.8	330.2	331.4	335.0	333.4	335.4	332.2	331.4	334.6	336.6	336.6
37.5°	314.3	316.7	317.9	321.5	319.5	321.9	318.7	318.3	321.9	323.9	323.9
40°	300.0	302.8	304.0	307.1	305.6	307.5	304.8	305.2	308.3	310.7	311.1
42.5°	285.7	288.5	289.6	293.2	291.2	293.2	290.8	291.2	294.8	297.2	299.2
45°	270.9	273.3	274.5	278.5	276.1	278.5	276.1	276.9	280.5	284.1	286.5
47.5°	255.4	257.8	259.8	263.0	261.0	263.0	261.4	262.6	267.0	270.5	273.7
50°	239.9	242.3	244.3	247.1	245.1	247.9	245.9	247.5	253.0	256.6	260.2
52.5°	224.0	226.0	229.2	230.8	229.2	232.4	230.8	233.1	238.7	243.1	247.1
55°	208.1	210.1	213.3	214.4	212.9	216.4	215.2	218.4	224.4	229.2	233.5
57.5°	191.8	193.8	196.5	197.7	196.5	200.5	200.1	203.7	209.7	214.8	219.6
60°	175.1	177.0	179.4	180.6	180.6	184.6	184.6	189.0	195.4	200.1	205.7
62.5°	158.7	159.9	162.3	163.9	165.1	169.1	169.1	173.9	180.6	186.2	191.8
65°	141.6	142.8	144.8	146.8	148.8	153.2	153.6	158.7	165.5	171.1	177.4
67.5°	124.5	125.7	127.7	130.1	132.9	137.3	138.1	143.6	150.8	157.2	163.1
70°	107.8	108.2	110.6	113.8	117.0	121.3	122.5	128.5	136.1	142.4	148.8
72.5°	91.1	91.5	93.9	97.9	101.5	106.2	107.8	114.2	121.7	128.1	134.5
75°	74.4	74.8	78.0	82.8	86.7	91.1	93.1	99.9	107.4	114.2	121.3
77.5°	58.5	59.3	62.5	67.2	72.0	77.2	79.2	85.9	94.3	100.7	107.4
80°	43.8	44.6	48.1	53.3	58.5	63.3	65.6	72.4	81.2	87.5	95.1
82.5°	30.2	31.4	35.8	41.4	46.5	51.7	54.1	60.5	68.4	75.6	82.8
85°	18.7	20.3	24.7	30.6	36.2	41.0	43.4	50.1	57.7	64.5	71.2
87.5°	8.8	11.1	15.5	21.5	27.5	31.4	34.2	41.0	48.1	54.9	61.7
90°	0.0	3.6	8.0	13.9	19.9	23.5	26.7	33.0	40.2	46.5	52.9
92.5°	0.8	4.0	8.8	14.3	20.3	23.9	27.1	33.4	40.2	46.5	52.9
95°	2.0	4.4	9.2	15.1	21.1	24.7	27.5	33.8	40.6	46.9	52.9
97.5°	3.6	5.6	10.3	15.9	21.9	25.1	28.2	34.6	41.0	47.3	53.3
100°	4.8	6.4	11.1	16.7	22.7	25.9	29.0	35.0	41.4	47.7	53.3
102.5°	6.0	8.0	12.3	17.5	23.5	26.7	29.4	35.4	41.8	47.7	53.3
105°	7.6	9.2	13.1	18.7	24.3	27.5	30.2	36.2	42.2	48.1	53.3
107.5°	9.2	10.3	14.3	19.5	25.1	27.9	30.6	36.6	42.6	48.1	53.3
110°	11.1	11.9	15.5	20.3	25.5	28.6	31.4	37.0	42.6	48.1	53.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	13.1	13.1	16.7	21.1	26.3	29.0	31.8	37.4	43.0	48.1	53.3
115°	14.7	15.1	17.9	21.9	27.1	29.8	32.2	37.4	43.0	48.1	52.9
117.5°	16.7	16.7	19.5	22.7	27.5	30.2	33.0	37.8	43.0	47.7	52.5
120°	18.7	18.3	20.7	23.9	28.2	30.6	33.4	38.2	43.0	47.7	52.1
122.5°	20.7	19.9	21.5	24.7	28.6	31.4	33.4	38.2	43.0	47.3	51.7
125°	22.3	21.5	22.7	25.9	29.4	31.8	33.8	38.2	43.0	46.9	51.3
127.5°	23.9	23.1	24.3	26.7	29.8	31.8	34.2	38.2	43.0	46.5	50.5
130°	25.5	24.3	25.9	27.5	30.6	32.2	34.2	38.2	42.6	46.2	49.7
132.5°	26.7	25.5	27.1	28.2	31.0	32.6	34.6	38.2	42.2	45.8	49.3
135°	27.5	26.3	28.2	29.0	31.8	33.4	35.0	38.2	41.8	45.4	48.5
137.5°	28.2	26.7	29.0	29.8	32.2	33.8	35.0	37.8	41.4	44.6	47.7
140°	28.6	27.5	29.8	30.6	31.8	33.4	35.0	37.4	40.6	43.8	46.5
142.5°	29.0	27.5	30.2	31.0	31.8	33.0	34.6	36.6	39.8	42.6	45.4
145°	29.0	27.9	30.2	31.0	31.8	32.6	33.8	36.2	38.6	41.0	43.8
147.5°	29.0	28.2	30.6	31.4	32.2	32.2	33.0	35.4	37.4	39.8	42.2
150°	29.4	28.2	30.6	31.4	32.6	32.6	33.0	34.2	36.6	38.2	40.2
152.5°	29.0	28.6	30.2	31.8	32.6	33.0	33.0	33.4	35.4	37.0	38.6
155°	29.4	29.4	30.6	32.6	33.0	33.0	33.4	33.0	33.8	35.4	37.0
157.5°	30.2	31.0	31.0	33.0	33.8	33.8	34.2	33.8	33.4	33.8	35.4
160°	31.4	32.2	32.2	33.4	34.6	34.6	35.0	34.6	34.2	33.8	33.8
162.5°	32.6	33.4	33.4	33.8	35.0	35.4	35.8	35.4	35.0	34.2	33.8
165°	33.8	34.6	34.6	34.6	35.4	35.8	36.2	35.8	35.8	35.0	34.6
167.5°	35.0	35.8	35.8	35.4	35.8	36.2	36.6	36.2	36.2	35.8	35.0
170°	36.2	37.0	37.0	36.2	36.6	36.6	37.0	36.6	36.6	35.8	35.4
172.5°	37.0	37.8	37.4	37.0	37.0	37.0	37.0	36.6	36.2	35.4	35.4
175°	37.4	38.2	38.2	37.4	37.0	37.0	37.4	36.6	36.2	35.8	35.0
177.5°	37.4	38.2	38.2	37.4	37.4	37.0	37.4	37.0	37.0	36.2	35.4
180°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7
2.5°	434.1	433.7	431.3	434.1	434.1	433.3	436.5	436.1	435.7	434.9
5°	432.5	432.1	429.7	432.5	432.5	432.1	435.3	435.7	436.1	435.3
7.5°	430.1	429.7	427.3	430.1	430.1	429.7	433.3	433.7	434.1	432.9
10°	426.5	426.1	423.7	426.5	426.9	426.5	429.3	429.7	430.5	428.9
12.5°	421.7	421.7	419.3	422.1	422.5	422.1	424.9	425.7	426.5	424.5
15°	415.8	416.2	414.2	417.0	417.4	417.4	420.1	420.5	421.7	418.9
17.5°	408.6	409.4	407.8	410.6	411.0	411.4	413.0	414.2	415.4	412.2
20°	401.0	401.4	400.2	402.6	403.4	403.0	405.0	406.6	407.8	404.6
22.5°	391.9	392.3	391.1	393.5	394.3	394.7	396.3	398.3	399.1	396.3
25°	381.6	383.1	382.3	384.7	385.5	385.5	387.1	389.1	390.3	386.3
27.5°	371.6	373.6	372.8	375.2	376.0	376.4	377.2	379.6	380.8	377.2
30°	360.5	362.9	362.5	364.8	365.6	365.2	366.8	369.2	370.8	366.8
32.5°	348.1	351.3	350.9	354.1	354.9	355.3	356.5	359.7	361.3	357.7
35°	336.2	339.8	340.2	343.8	344.9	345.3	346.9	350.1	351.7	348.1
37.5°	323.9	328.6	329.8	333.4	334.6	335.0	336.6	340.2	341.8	338.2
40°	311.9	317.5	319.1	322.3	323.5	324.7	325.8	329.4	331.4	327.8
42.5°	300.0	306.0	307.9	311.1	312.3	313.5	315.1	319.1	320.7	317.5
45°	287.7	294.0	296.4	299.6	301.2	302.4	304.0	307.5	309.5	306.4
47.5°	275.3	281.7	284.1	287.7	289.2	290.8	292.0	296.4	298.4	295.2
50°	262.2	269.4	272.1	275.3	277.7	278.9	280.5	284.5	286.5	283.7
52.5°	249.1	256.6	259.8	263.0	265.4	267.4	268.2	272.5	274.5	271.7
55°	235.5	243.1	246.7	250.3	252.6	255.0	255.8	260.2	262.2	258.2
57.5°	222.0	230.0	233.5	237.5	239.5	242.3	243.5	247.5	249.5	246.7
60°	208.5	216.0	220.4	224.0	226.8	229.2	230.0	234.3	236.3	232.7
62.5°	194.6	202.5	206.9	210.9	213.3	216.0	217.2	221.2	222.8	219.2
65°	180.2	188.2	193.0	196.5	199.7	202.1	202.9	207.3	208.9	205.3
67.5°	165.9	173.9	179.0	183.0	185.8	188.6	189.4	193.8	195.4	192.6
70°	152.0	159.9	165.1	169.9	171.9	174.7	175.9	179.8	181.4	179.0
72.5°	138.1	146.0	151.6	156.4	158.3	161.1	162.7	165.9	168.3	166.3
75°	124.5	132.5	138.1	142.8	144.8	147.6	149.2	152.4	154.0	152.4
77.5°	111.4	119.4	124.5	129.3	131.7	134.1	135.7	138.9	140.8	139.3
80°	98.7	106.6	111.8	116.2	118.6	121.0	122.5	126.1	127.7	126.5
82.5°	86.7	94.3	99.9	104.2	106.6	109.0	110.6	113.8	115.8	114.2
85°	76.0	83.6	88.7	93.1	95.1	97.5	99.1	102.3	103.8	103.0
87.5°	65.6	72.4	78.4	82.8	84.7	87.1	89.1	91.5	93.5	92.3
90°	57.7	63.7	69.2	73.6	76.0	78.4	80.8	83.2	84.7	83.9
92.5°	58.1	63.7	68.8	72.8	75.2	77.6	80.0	82.8	83.9	83.2
95°	58.1	63.7	68.8	72.8	75.2	77.6	80.0	82.8	83.9	83.2
97.5°	58.1	63.7	68.8	72.8	75.2	77.6	80.0	82.8	83.9	82.8
100°	58.1	63.7	68.8	72.8	75.2	77.2	79.6	82.4	83.6	82.8
102.5°	58.1	63.7	68.4	72.4	74.8	76.8	79.2	82.0	83.2	82.4
105°	58.1	63.3	68.4	72.0	74.4	76.4	78.8	81.2	82.4	81.6
107.5°	57.7	62.9	67.6	71.6	73.6	75.6	78.0	80.4	81.6	80.8
110°	57.7	62.5	67.2	70.8	72.8	74.8	77.2	79.6	80.8	80.0

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CATALOG NUMBER: 4MB-2SL-FLTU-UNV-L930

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	57.3	62.1	66.8	70.0	72.0	74.0	76.0	78.8	80.0	79.2
115°	56.9	61.7	66.0	69.2	71.2	72.8	75.2	78.0	78.8	78.4
117.5°	56.5	60.9	65.2	68.4	70.4	72.0	74.0	76.4	77.6	77.2
120°	56.1	60.1	64.5	67.2	69.2	70.8	72.4	74.8	76.0	75.2
122.5°	55.3	59.3	63.7	66.4	68.0	69.6	71.2	73.2	74.4	74.0
125°	54.5	58.5	62.5	65.2	66.8	68.0	69.6	71.6	72.4	72.0
127.5°	53.7	57.7	61.3	63.7	65.6	66.8	68.0	70.0	70.8	70.4
130°	52.9	56.5	60.1	62.5	64.1	65.2	66.4	68.4	68.8	68.8
132.5°	52.1	55.3	58.9	61.3	62.9	63.7	64.9	66.4	67.2	66.8
135°	51.3	54.1	57.7	59.7	60.9	62.1	63.3	64.9	65.2	65.2
137.5°	50.1	52.9	56.1	58.1	59.3	60.1	61.3	62.9	63.3	63.3
140°	48.9	51.7	54.5	56.1	57.7	58.5	59.3	60.9	61.3	61.3
142.5°	47.7	50.1	52.9	54.5	56.1	56.5	57.7	58.9	59.3	59.3
145°	46.2	48.9	51.3	52.9	54.1	54.5	55.7	56.9	56.9	57.3
147.5°	44.2	46.5	49.7	50.9	52.1	52.5	53.7	54.5	54.9	54.9
150°	42.2	44.6	47.3	49.3	50.5	50.9	51.3	52.5	52.5	52.9
152.5°	40.2	42.2	45.0	46.9	48.5	48.9	49.3	50.1	50.1	50.5
155°	38.2	39.8	42.2	44.2	45.8	46.5	47.3	48.1	48.1	48.5
157.5°	36.6	38.2	40.2	41.8	43.0	44.2	45.4	46.2	46.2	46.2
160°	34.6	35.8	37.8	39.0	40.6	41.4	43.4	44.2	44.2	44.6
162.5°	33.4	33.8	35.0	36.2	37.4	38.2	40.2	42.2	42.2	42.6
165°	33.8	33.4	33.8	34.2	35.0	35.4	36.6	39.4	40.2	40.6
167.5°	34.6	33.4	33.4	33.4	34.2	34.2	35.4	37.0	39.8	39.0
170°	34.6	33.4	32.6	32.6	33.0	32.6	33.4	34.6	36.2	37.8
172.5°	35.0	33.8	32.6	31.0	31.4	31.0	30.2	30.2	30.6	35.8
175°	34.6	33.8	32.2	30.2	29.8	28.6	26.3	24.3	23.1	17.9
177.5°	34.2	33.0	31.8	30.2	29.4	28.2	25.5	22.3	19.1	18.3
180°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6

TEST NUMBER: P893293

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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	11.61	12.93	12.23	13.56	14.29	14.16	15.48	14.78	16.12	16.84
	3H	13.02	14.22	13.65	14.86	15.62	16.59	17.79	17.22	18.44	19.19
	4H	13.45	14.58	14.09	15.24	16.01	17.73	18.87	18.38	19.53	20.30
	6H	13.68	14.74	14.35	15.41	16.19	18.87	19.93	19.53	20.59	21.38
	8H	13.73	14.74	14.40	15.43	16.21	19.43	20.44	20.10	21.13	21.92
	12H	13.74	14.71	14.42	15.39	16.20	20.01	20.98	20.69	21.66	22.48
4H	2H	12.50	13.64	13.15	14.29	15.06	14.51	15.65	15.16	16.31	17.08
	3H	14.13	15.09	14.79	15.79	16.57	17.15	18.11	17.81	18.80	19.59
	4H	14.68	15.57	15.36	16.26	17.08	18.44	19.32	19.12	20.02	20.84
	6H	15.02	15.80	15.72	16.52	17.35	19.75	20.52	20.44	21.25	22.07
	8H	15.10	15.83	15.80	16.55	17.39	20.40	21.14	21.11	21.85	22.70
	12H	15.13	15.79	15.85	16.53	17.38	21.10	21.77	21.83	22.51	23.36
8H	4H	15.33	16.06	16.03	16.78	17.62	18.59	19.32	19.29	20.04	20.88
	6H	15.84	16.45	16.57	17.21	18.06	20.04	20.66	20.78	21.42	22.26
	8H	15.99	16.55	16.74	17.31	18.17	20.82	21.38	21.57	22.14	23.00
	12H	16.08	16.57	16.83	17.33	18.24	21.68	22.18	22.43	22.93	23.85
12H	4H	15.49	16.16	16.22	16.90	17.75	18.58	19.24	19.30	19.99	20.83
	6H	16.09	16.65	16.84	17.41	18.27	20.06	20.62	20.81	21.38	22.24
	8H	16.33	16.82	17.07	17.57	18.49	20.89	21.39	21.64	22.14	23.06