

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: P894193

Luminaire Tested: 4MB-SC3-FLT-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894193
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-SC3-FLT-UNV-CC83-LOW-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 4000K CCT, LOW lum setting
Light Source: -
Ballast/Driver: -

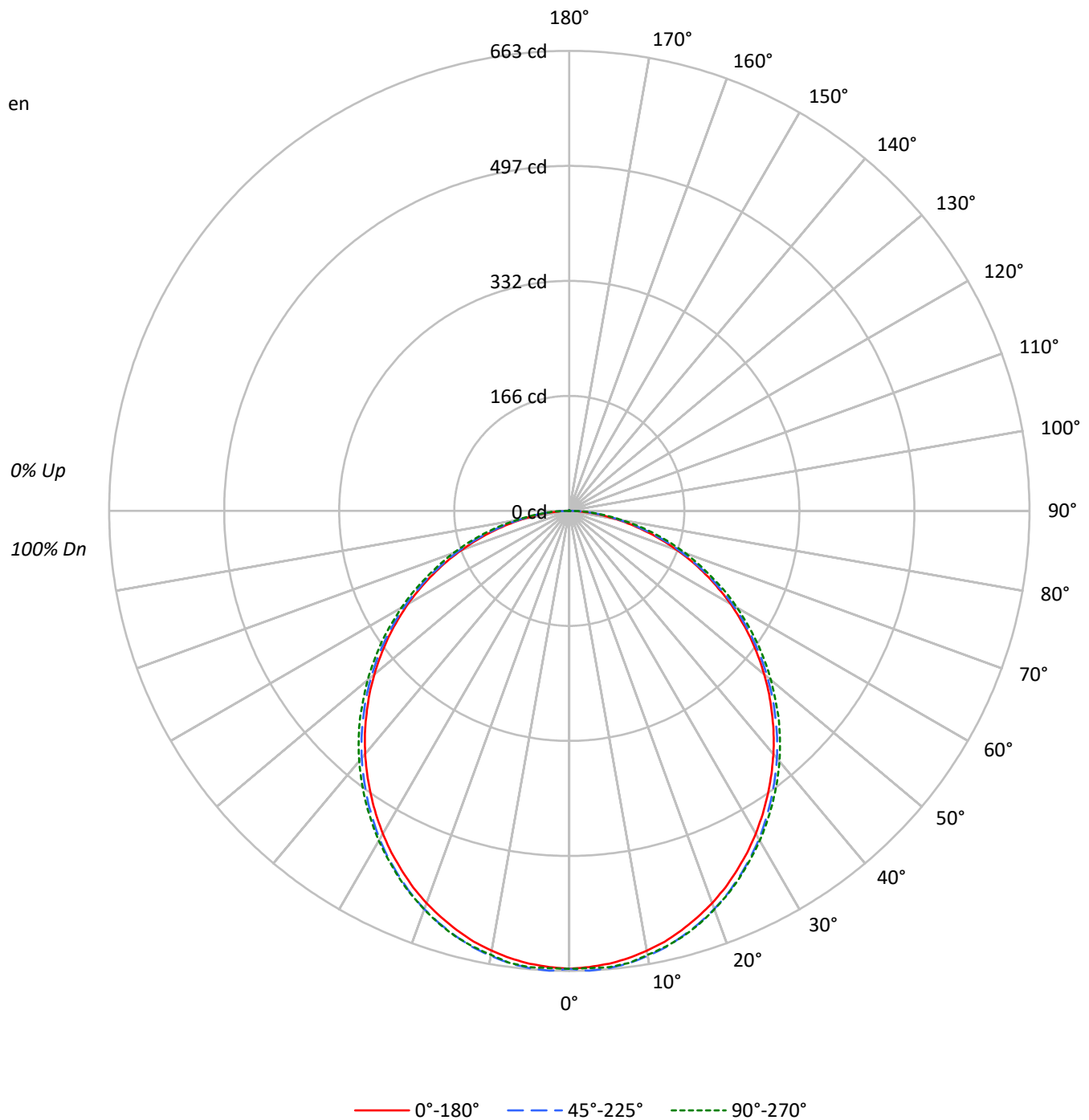
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1832.1 lumens
Efficiency: N/A
Efficacy: 109.7 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): 16.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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				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°	4696	4696	4696
5°	4679	4724	4714
10°	4649	4705	4695
15°	4609	4669	4676
20°	4554	4624	4628
25°	4487	4559	4571
30°	4413	4489	4509
35°	4331	4406	4444
40°	4249	4322	4376
45°	4157	4224	4298
50°	4059	4123	4198
55°	3950	4009	4094
60°	3822	3885	3973
65°	3652	3726	3823
70°	3437	3539	3699
75°	3161	3293	3505
80°	2790	3007	3167
85°	2408	2759	2955

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.4
10°-20°	177.9	9.7
20°-30°	266.6	14.5
30°-40°	317.2	17.3
40°-50°	325.4	17.8
50°-60°	291.6	15.9
60°-70°	221.5	12.1
70°-80°	128.8	7.0
80°-90°	38.6	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°	506.8	27.7
0°-40°	824.0	45.0
0°-60°	1441.0	78.7
0°-90°	1829.9	99.9
90°-120°	1.1	0.1
90°-150°	1.7	0.1
90°-180°	2.0	0.1
0°-180°	1832.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	660	660	660	660	660	
5°	655	666	661	658	660	62
15°	626	638	634	633	635	176
25°	572	585	581	580	582	263
35°	499	511	507	509	512	312
45°	413	423	420	423	427	319
55°	318	326	323	327	330	284
65°	217	222	221	225	227	215
75°	115	119	120	124	128	122
85°	30	32	34	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
2.5°	658.0	657.1	658.0	657.5	662.4	668.2	667.2	662.9	658.0	659.5	663.3
5°	655.1	654.6	656.1	655.1	660.0	666.2	664.3	660.4	656.1	657.5	661.4
7.5°	650.3	650.3	652.2	651.3	655.6	661.9	660.0	656.6	652.2	653.7	657.5
10°	643.5	644.0	646.4	645.0	648.8	655.6	653.7	650.3	646.4	647.4	651.3
12.5°	635.8	635.8	638.7	637.2	641.1	647.4	645.0	642.6	638.7	639.7	644.0
15°	625.7	626.1	629.5	628.1	631.5	637.7	635.3	633.4	630.0	630.5	633.9
17.5°	614.1	615.5	618.9	617.4	620.8	627.1	624.2	622.3	619.4	619.9	623.2
20°	601.5	602.9	606.3	605.4	607.8	614.1	611.2	610.2	607.3	607.8	610.7
22.5°	587.5	588.9	592.8	591.8	594.3	600.5	597.1	596.7	593.8	594.3	596.7
25°	571.5	573.5	577.8	576.9	578.8	584.6	581.7	580.7	578.8	578.8	580.7
27.5°	555.1	557.0	561.9	560.4	561.9	568.2	564.8	564.3	562.4	562.4	564.3
30°	537.2	539.2	544.5	543.0	544.5	549.8	546.4	546.9	545.0	545.0	546.4
32.5°	518.4	519.8	525.6	524.7	525.6	531.0	527.6	528.1	526.1	526.6	527.1
35°	498.6	500.0	506.3	505.4	505.8	510.7	508.3	508.3	506.8	506.3	507.3
37.5°	478.3	479.7	487.5	485.1	485.1	489.9	488.0	488.0	486.5	486.0	486.5
40°	457.5	458.5	466.7	464.3	463.8	468.2	466.7	466.7	465.7	464.8	465.3
42.5°	435.8	437.2	445.4	443.5	441.6	446.4	445.0	445.4	444.0	443.0	443.0
45°	413.1	414.5	422.7	421.8	418.9	423.2	421.8	422.7	420.8	419.8	419.8
47.5°	390.4	392.3	400.0	398.6	395.7	400.0	398.6	399.5	397.6	396.7	396.7
50°	366.7	368.6	376.8	374.4	371.5	375.9	374.9	375.4	373.9	373.0	372.5
52.5°	342.5	345.0	352.7	349.8	347.4	351.2	350.8	351.2	349.3	348.8	348.3
55°	318.4	320.8	328.0	324.7	322.7	326.1	325.1	326.1	324.2	323.7	323.2
57.5°	293.3	295.7	302.4	299.1	297.6	300.5	300.0	300.5	299.1	298.6	298.1
60°	268.6	270.6	276.8	273.5	272.0	274.9	273.9	275.4	273.5	273.5	273.0
62.5°	242.5	244.9	251.2	247.4	246.4	248.8	247.8	249.3	248.3	247.4	246.9
65°	216.9	218.4	224.2	220.8	219.3	222.2	221.8	222.7	221.3	221.8	221.3
67.5°	191.3	192.3	198.1	194.2	193.3	196.2	196.6	196.2	195.2	195.7	195.2
70°	165.2	166.2	171.0	167.6	167.2	169.6	170.5	170.1	169.1	169.6	170.1
72.5°	140.1	140.6	144.9	142.0	141.6	144.5	144.5	144.5	144.5	144.5	145.4
75°	115.0	115.5	119.3	116.9	116.4	119.3	119.3	119.3	119.3	120.3	119.8
77.5°	90.8	90.3	94.2	92.8	91.8	94.7	94.7	95.2	96.1	97.1	95.7
80°	68.1	67.6	70.5	68.6	68.6	71.5	71.0	71.5	72.5	73.0	73.4
82.5°	47.8	46.9	49.3	48.8	48.3	50.7	51.2	50.7	52.2	52.7	52.7
85°	29.5	29.5	30.9	30.0	30.0	31.9	31.9	32.4	33.3	33.8	33.8
87.5°	14.0	13.5	15.0	14.5	14.0	15.5	15.5	15.9	16.4	16.9	16.4
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



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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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0	660.0
2.5°	657.5	654.2	652.7	653.7	660.4	653.7	660.9	663.3	654.6	659.5
5°	655.6	652.2	650.3	651.3	658.0	651.7	659.5	662.4	655.1	660.0
7.5°	651.7	647.9	646.9	648.4	654.2	648.8	656.6	659.5	652.2	657.1
10°	645.9	642.6	641.6	643.0	648.4	643.0	649.8	652.2	645.5	649.8
12.5°	638.7	635.3	634.4	636.3	641.1	636.3	643.0	645.5	638.7	643.0
15°	629.5	626.1	625.7	628.6	632.9	628.6	635.3	637.2	630.5	634.8
17.5°	618.4	615.0	615.5	618.9	622.3	618.4	624.7	626.6	620.3	623.7
20°	606.3	602.5	603.4	606.3	609.2	605.4	611.6	613.6	607.8	611.2
22.5°	592.3	588.5	589.4	592.8	594.7	591.4	597.1	599.1	594.3	597.6
25°	576.9	573.5	574.9	578.3	579.8	576.9	582.2	583.6	579.3	582.2
27.5°	561.4	557.5	559.5	562.8	563.8	560.9	566.2	567.2	562.8	565.7
30°	544.0	540.1	542.6	546.4	546.4	544.5	548.8	549.8	546.4	548.8
32.5°	524.7	521.8	524.7	528.1	527.6	526.1	530.5	531.4	528.5	530.5
35°	505.4	502.9	505.8	509.2	508.7	507.3	511.6	512.1	509.7	511.6
37.5°	485.5	483.6	486.5	489.4	488.4	487.5	491.3	491.3	489.9	491.8
40°	465.3	463.3	465.7	469.1	467.2	467.2	469.6	470.6	469.1	471.1
42.5°	444.0	442.1	445.0	447.9	445.9	445.4	448.3	448.8	447.9	449.3
45°	421.8	419.8	422.7	425.2	423.2	423.2	425.6	425.6	425.2	427.1
47.5°	399.1	397.6	400.0	402.4	400.5	402.0	402.0	402.0	402.9	402.4
50°	375.9	374.4	376.4	379.3	376.8	377.3	378.3	378.3	378.8	379.3
52.5°	351.7	349.8	351.7	355.1	351.7	353.2	353.7	354.1	355.6	354.6
55°	327.6	325.6	327.6	330.5	327.1	329.0	329.0	329.5	330.9	330.0
57.5°	302.4	300.5	303.4	305.3	302.0	303.9	303.9	304.9	305.8	304.4
60°	277.3	275.9	276.8	280.2	276.8	278.8	278.8	278.8	280.7	279.2
62.5°	251.7	250.7	251.7	254.6	251.2	253.2	252.7	253.2	255.1	254.6
65°	225.6	224.7	225.6	228.5	225.1	227.1	227.1	227.6	229.0	227.1
67.5°	200.0	198.6	200.0	202.4	199.5	201.0	201.0	201.0	203.4	202.4
70°	173.9	173.0	173.9	176.3	173.9	174.9	174.9	174.9	177.3	177.8
72.5°	148.3	148.3	149.3	151.2	149.3	151.2	149.8	148.8	152.2	152.7
75°	123.2	123.7	124.2	126.1	124.2	126.1	125.1	124.2	127.1	127.5
77.5°	100.0	100.0	100.5	101.9	100.5	101.9	101.0	101.0	102.9	102.4
80°	76.3	76.3	76.8	78.3	76.8	78.3	77.3	77.3	79.2	77.3
82.5°	55.6	55.6	55.6	57.0	56.0	57.0	56.5	55.6	58.0	56.0
85°	35.8	36.2	36.2	36.7	36.2	36.7	36.7	36.2	37.7	36.2
87.5°	18.4	18.4	18.4	18.8	18.4	18.4	18.8	18.4	19.3	18.8
90°	3.4	2.9	2.9	3.9	3.4	3.4	3.9	2.9	3.4	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: P894193
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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: P894193
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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	16.88	18.52	17.25	18.83	19.15	17.02	18.65	17.38	18.97	19.29
	3H	18.70	20.18	19.08	20.51	20.88	18.85	20.33	19.23	20.66	21.02
	4H	19.36	20.76	19.76	21.11	21.49	19.56	20.95	19.96	21.30	21.68
	6H	19.82	21.11	20.23	21.48	21.87	20.11	21.41	20.53	21.77	22.17
	8H	19.96	21.19	20.38	21.58	21.98	20.31	21.55	20.73	21.94	22.34
	12H	20.05	21.24	20.48	21.62	22.05	20.45	21.64	20.88	22.02	22.45
4H	2H	17.51	18.91	17.91	19.26	19.64	17.62	19.02	18.02	19.37	19.75
	3H	19.55	20.73	19.97	21.13	21.53	19.69	20.86	20.10	21.26	21.66
	4H	20.35	21.41	20.78	21.82	22.26	20.53	21.60	20.97	22.01	22.45
	6H	20.92	21.85	21.38	22.29	22.75	21.23	22.15	21.68	22.60	23.05
	8H	21.11	21.98	21.57	22.43	22.89	21.47	22.34	21.93	22.79	23.25
	12H	21.26	22.04	21.74	22.52	22.99	21.67	22.45	22.15	22.92	23.40
8H	4H	20.68	21.55	21.14	21.99	22.46	20.84	21.71	21.30	22.16	22.62
	6H	21.38	22.10	21.87	22.59	23.07	21.67	22.39	22.16	22.88	23.36
	8H	21.64	22.29	22.15	22.80	23.29	22.00	22.65	22.51	23.16	23.65
	12H	21.86	22.43	22.37	22.93	23.49	22.28	22.86	22.79	23.35	23.91
12H	4H	20.72	21.50	21.20	21.98	22.45	20.88	21.66	21.36	22.13	22.61
	6H	21.45	22.10	21.96	22.61	23.10	21.73	22.38	22.24	22.88	23.37
	8H	21.78	22.35	22.28	22.84	23.41	22.12	22.70	22.63	23.19	23.75