

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: P893405

Luminaire Tested: 4MB-3SL-FLTU-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893405
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-3SL-FLTU-UNV-L930
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 300
Light Source: -
Ballast/Driver: -

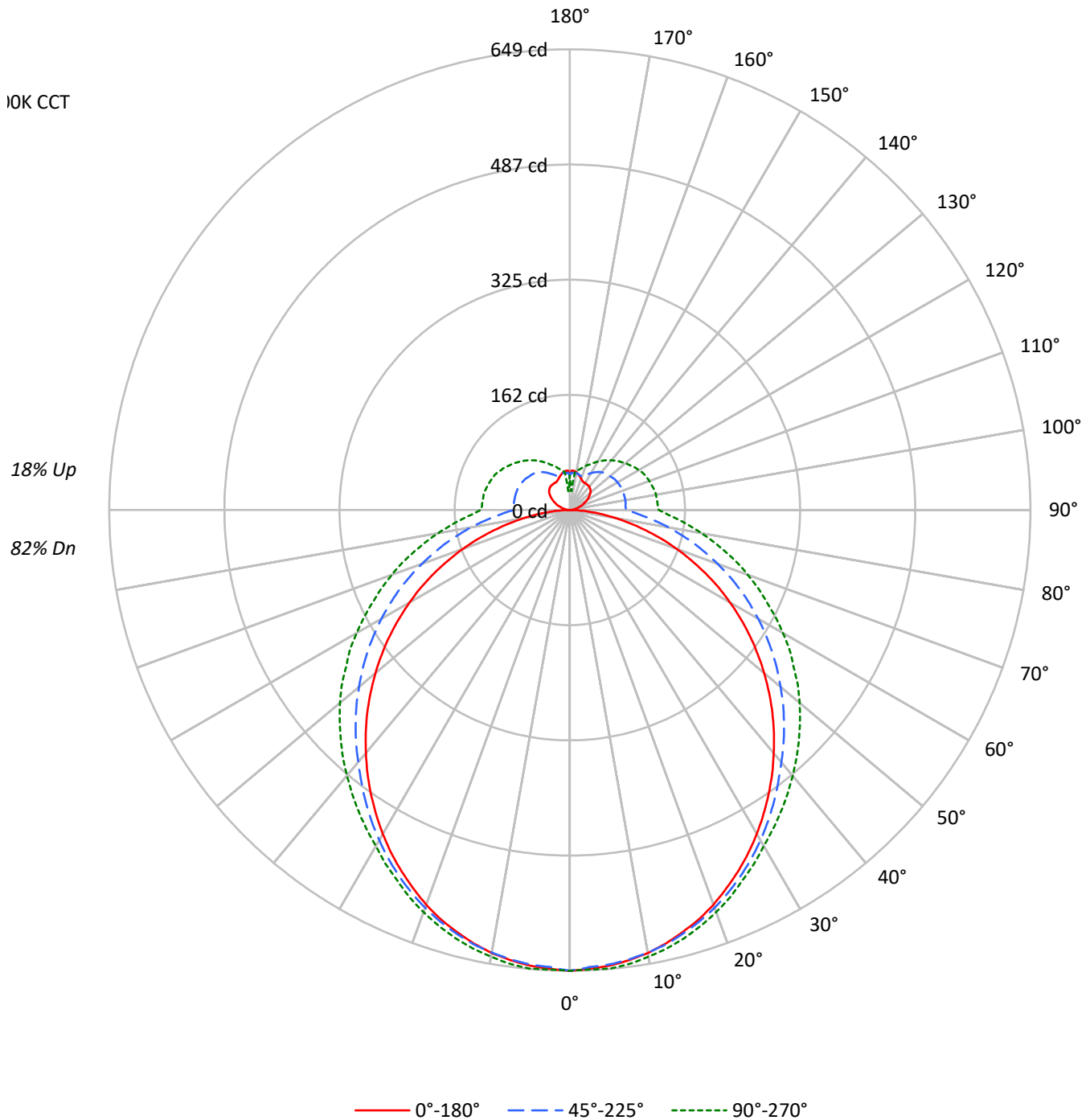
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2454.0 lumens
Efficiency: N/A
Efficacy: 116.3 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): 21.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 4MB-3SL-FLTU-UNV-L930

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			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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4618	4618	4618
5°	4581	4425	4420
10°	4536	4255	4210
15°	4470	4085	4009
20°	4396	3911	3806
25°	4302	3730	3599
30°	4203	3544	3411
35°	4093	3358	3256
40°	3977	3175	3108
45°	3860	3015	2967
50°	3725	2850	2831
55°	3578	2688	2677
60°	3403	2514	2532
65°	3194	2330	2368
70°	2923	2129	2215
75°	2550	1923	2049
80°	2060	1704	1880
85°	1425	1480	1725

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3860 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	2.5
10°-20°	175.1	7.1
20°-30°	263.0	10.7
30°-40°	315.8	12.9
40°-50°	332.1	13.5
50°-60°	312.0	12.7
60°-70°	259.5	10.6
70°-80°	185.2	7.5
80°-90°	110.2	4.5
90°-100°	79.8	3.3
100°-110°	78.7	3.2
110°-120°	73.9	3.0
120°-130°	65.5	2.7
130°-140°	54.3	2.2
140°-150°	40.6	1.7
150°-160°	26.7	1.1
160°-170°	15.2	0.6
170°-180°	4.8	0.2
0°-30°	499.5	20.4
0°-40°	815.3	33.2
0°-60°	1459.5	59.5
0°-90°	2014.4	82.1
90°-120°	232.4	9.5
90°-150°	392.9	16.0
90°-180°	440.0	17.9
0°-180°	2454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	649	649	649	649	649	
5°	644	652	643	644	648	61
15°	615	625	618	622	624	174
25°	561	572	569	574	576	259
35°	488	500	502	514	519	306
45°	404	415	427	449	456	311
55°	310	322	348	376	385	277
65°	211	228	264	298	306	209
75°	111	136	181	216	227	118
85°	28	61	106	142	154	30
90°	0	35	79	113	125	2
95°	3	37	79	112	124	3
105°	11	41	79	111	122	12
115°	22	44	79	106	117	22
125°	33	47	76	100	107	30
135°	41	50	72	91	97	32
145°	43	49	65	81	85	27
155°	44	49	55	68	72	21
165°	50	53	52	52	60	14
175°	56	55	52	44	27	5
180°	49	49	49	49	49	



TEST NUMBER: P893405
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1
2.5°	646.8	648.5	649.1	655.1	652.7	655.1	650.9	646.2	645.0	647.9	644.4
5°	644.4	646.2	646.8	652.7	650.3	652.1	648.5	643.8	642.6	646.2	642.6
7.5°	639.6	641.4	642.0	648.5	645.6	647.9	643.8	639.0	638.5	642.0	638.5
10°	633.7	635.5	636.1	642.0	639.6	642.0	637.9	633.1	632.5	636.7	633.1
12.5°	625.4	627.2	628.4	634.3	631.3	634.3	629.6	624.8	625.4	629.0	626.6
15°	615.3	617.7	618.3	624.2	621.9	624.8	620.1	615.3	616.5	620.1	617.7
17.5°	604.7	607.0	607.6	613.0	610.6	614.1	608.8	604.7	605.8	609.4	607.6
20°	591.6	594.0	595.2	600.5	598.1	601.7	596.4	592.8	594.0	598.1	596.4
22.5°	576.8	580.4	581.0	586.9	583.9	587.5	582.1	579.2	581.0	585.1	583.3
25°	561.4	564.9	565.5	571.5	569.1	572.1	566.7	563.8	566.1	570.3	569.1
27.5°	544.8	548.3	549.5	554.9	552.5	556.1	550.1	548.3	550.7	554.9	553.7
30°	527.0	530.6	531.2	536.5	534.7	538.3	532.9	530.6	534.1	538.3	537.1
32.5°	508.0	511.6	513.4	518.1	516.3	519.3	514.6	513.4	516.3	520.5	519.9
35°	488.5	492.0	493.8	499.1	496.8	499.7	495.0	493.8	498.6	501.5	501.5
37.5°	468.3	471.9	473.7	479.0	476.0	479.6	474.8	474.2	479.6	482.5	482.5
40°	447.0	451.1	452.9	457.6	455.3	458.2	454.1	454.7	459.4	463.0	463.6
42.5°	425.6	429.8	431.6	436.9	433.9	436.9	433.3	433.9	439.3	442.8	445.8
45°	403.7	407.3	409.0	415.0	411.4	415.0	411.4	412.6	417.9	423.3	426.8
47.5°	380.6	384.1	387.1	391.8	388.9	391.8	389.5	391.3	397.8	403.1	407.9
50°	357.5	361.0	364.0	368.1	365.2	369.3	366.4	368.7	377.0	382.4	387.7
52.5°	333.8	336.7	341.5	343.8	341.5	346.2	343.8	347.4	355.7	362.2	368.1
55°	310.0	313.0	317.7	319.5	317.2	322.5	320.7	325.5	334.3	341.5	348.0
57.5°	285.7	288.7	292.8	294.6	292.8	298.8	298.2	303.5	312.4	320.1	327.2
60°	260.8	263.8	267.4	269.1	269.1	275.1	275.1	281.6	291.1	298.2	306.5
62.5°	236.5	238.3	241.9	244.2	246.0	251.9	251.9	259.1	269.1	277.4	285.7
65°	211.0	212.8	215.8	218.7	221.7	228.2	228.8	236.5	246.6	254.9	264.4
67.5°	185.5	187.3	190.3	193.8	198.0	204.5	205.7	214.0	224.7	234.2	243.1
70°	160.7	161.2	164.8	169.5	174.3	180.8	182.6	191.5	202.7	212.2	221.7
72.5°	135.8	136.3	139.9	145.8	151.2	158.3	160.7	170.1	181.4	190.9	200.4
75°	110.9	111.4	116.2	123.3	129.2	135.8	138.7	148.8	160.1	170.1	180.8
77.5°	87.1	88.3	93.1	100.2	107.3	115.0	118.0	128.0	140.5	150.0	160.1
80°	65.2	66.4	71.7	79.4	87.1	94.3	97.8	107.9	120.9	130.4	141.7
82.5°	45.1	46.8	53.4	61.7	69.4	77.1	80.6	90.1	102.0	112.6	123.3
85°	27.9	30.2	36.8	45.6	53.9	61.1	64.6	74.7	86.0	96.0	106.1
87.5°	13.0	16.6	23.1	32.0	40.9	46.8	51.0	61.1	71.7	81.8	91.9
90°	0.0	5.3	11.9	20.7	29.6	35.0	39.7	49.2	59.9	69.4	78.8
92.5°	1.2	5.9	13.0	21.3	30.2	35.6	40.3	49.8	59.9	69.4	78.8
95°	3.0	6.5	13.6	22.5	31.4	36.8	40.9	50.4	60.5	70.0	78.8
97.5°	5.3	8.3	15.4	23.7	32.6	37.3	42.1	51.6	61.1	70.5	79.4
100°	7.1	9.5	16.6	24.9	33.8	38.5	43.3	52.2	61.7	71.1	79.4
102.5°	8.9	11.9	18.4	26.1	35.0	39.7	43.9	52.8	62.2	71.1	79.4
105°	11.3	13.6	19.6	27.9	36.2	40.9	45.1	53.9	62.8	71.7	79.4
107.5°	13.6	15.4	21.3	29.0	37.3	41.5	45.6	54.5	63.4	71.7	79.4
110°	16.6	17.8	23.1	30.2	37.9	42.7	46.8	55.1	63.4	71.7	79.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	19.6	19.6	24.9	31.4	39.1	43.3	47.4	55.7	64.0	71.7	79.4
115°	21.9	22.5	26.7	32.6	40.3	44.5	48.0	55.7	64.0	71.7	78.8
117.5°	24.9	24.9	29.0	33.8	40.9	45.1	49.2	56.3	64.0	71.1	78.3
120°	27.9	27.3	30.8	35.6	42.1	45.6	49.8	56.9	64.0	71.1	77.7
122.5°	30.8	29.6	32.0	36.8	42.7	46.8	49.8	56.9	64.0	70.5	77.1
125°	33.2	32.0	33.8	38.5	43.9	47.4	50.4	56.9	64.0	70.0	76.5
127.5°	35.6	34.4	36.2	39.7	44.5	47.4	51.0	56.9	64.0	69.4	75.3
130°	37.9	36.2	38.5	40.9	45.6	48.0	51.0	56.9	63.4	68.8	74.1
132.5°	39.7	37.9	40.3	42.1	46.2	48.6	51.6	56.9	62.8	68.2	73.5
135°	40.9	39.1	42.1	43.3	47.4	49.8	52.2	56.9	62.2	67.6	72.3
137.5°	42.1	39.7	43.3	44.5	48.0	50.4	52.2	56.3	61.7	66.4	71.1
140°	42.7	40.9	44.5	45.6	47.4	49.8	52.2	55.7	60.5	65.2	69.4
142.5°	43.3	40.9	45.1	46.2	47.4	49.2	51.6	54.5	59.3	63.4	67.6
145°	43.3	41.5	45.1	46.2	47.4	48.6	50.4	53.9	57.5	61.1	65.2
147.5°	43.3	42.1	45.6	46.8	48.0	48.0	49.2	52.8	55.7	59.3	62.8
150°	43.9	42.1	45.6	46.8	48.6	48.6	49.2	51.0	54.5	56.9	59.9
152.5°	43.3	42.7	45.1	47.4	48.6	49.2	49.2	49.8	52.8	55.1	57.5
155°	43.9	43.9	45.6	48.6	49.2	49.2	49.8	49.2	50.4	52.8	55.1
157.5°	45.1	46.2	46.2	49.2	50.4	50.4	51.0	50.4	49.8	50.4	52.8
160°	46.8	48.0	48.0	49.8	51.6	51.6	52.2	51.6	51.0	50.4	50.4
162.5°	48.6	49.8	49.8	50.4	52.2	52.8	53.4	52.8	52.2	51.0	50.4
165°	50.4	51.6	51.6	51.6	52.8	53.4	53.9	53.4	53.4	52.2	51.6
167.5°	52.2	53.4	53.4	52.8	53.4	53.9	54.5	53.9	53.9	53.4	52.2
170°	53.9	55.1	55.1	53.9	54.5	54.5	55.1	54.5	54.5	53.4	52.8
172.5°	55.1	56.3	55.7	55.1	55.1	55.1	55.1	54.5	53.9	52.8	52.8
175°	55.7	56.9	56.9	55.7	55.1	55.1	55.7	54.5	53.9	53.4	52.2
177.5°	55.7	56.9	56.9	55.7	55.7	55.1	55.7	55.1	55.1	53.9	52.8
180°	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1
2.5°	646.8	646.2	642.6	646.8	646.8	645.6	650.3	649.7	649.1	647.9
5°	644.4	643.8	640.2	644.4	644.4	643.8	648.5	649.1	649.7	648.5
7.5°	640.8	640.2	636.7	640.8	640.8	640.2	645.6	646.2	646.8	645.0
10°	635.5	634.9	631.3	635.5	636.1	635.5	639.6	640.2	641.4	639.0
12.5°	628.4	628.4	624.8	629.0	629.6	629.0	633.1	634.3	635.5	632.5
15°	619.5	620.1	617.1	621.3	621.9	621.9	626.0	626.6	628.4	624.2
17.5°	608.8	610.0	607.6	611.8	612.4	613.0	615.3	617.1	618.9	614.1
20°	597.6	598.1	596.4	599.9	601.1	600.5	603.5	605.8	607.6	602.9
22.5°	583.9	584.5	582.7	586.3	587.5	588.1	590.4	593.4	594.6	590.4
25°	568.5	570.9	569.7	573.2	574.4	574.4	576.8	579.8	581.5	575.6
27.5°	553.7	556.6	555.5	559.0	560.2	560.8	562.0	565.5	567.3	562.0
30°	537.1	540.6	540.0	543.6	544.8	544.2	546.6	550.1	552.5	546.6
32.5°	518.7	523.4	522.9	527.6	528.8	529.4	531.2	535.9	538.3	532.9
35°	500.9	506.3	506.9	512.2	514.0	514.6	516.9	521.7	524.0	518.7
37.5°	482.5	489.7	491.4	496.8	498.6	499.1	501.5	506.9	509.2	503.9
40°	464.8	473.1	475.4	480.2	482.0	483.7	485.5	490.8	493.8	488.5
42.5°	447.0	455.9	458.8	463.6	465.4	467.1	469.5	475.4	477.8	473.1
45°	428.6	438.1	441.6	446.4	448.8	450.5	452.9	458.2	461.2	456.5
47.5°	410.2	419.7	423.3	428.6	431.0	433.3	435.1	441.6	444.6	439.9
50°	390.7	401.3	405.5	410.2	413.8	415.6	417.9	423.9	426.8	422.7
52.5°	371.1	382.4	387.1	391.8	395.4	398.4	399.6	406.1	409.0	404.9
55°	350.9	362.2	367.5	372.9	376.4	380.0	381.2	387.7	390.7	384.7
57.5°	330.8	342.6	348.0	353.9	356.9	361.0	362.8	368.7	371.7	367.5
60°	310.6	321.9	328.4	333.8	337.9	341.5	342.6	349.2	352.1	346.8
62.5°	289.9	301.7	308.3	314.2	317.7	321.9	323.7	329.6	332.0	326.6
65°	268.5	280.4	287.5	292.8	297.6	301.1	302.3	308.9	311.2	305.9
67.5°	247.2	259.1	266.8	272.7	276.8	281.0	282.2	288.7	291.1	286.9
70°	226.5	238.3	246.0	253.1	256.1	260.2	262.0	267.9	270.3	266.8
72.5°	205.7	217.6	225.9	233.0	235.9	240.1	242.5	247.2	250.8	247.8
75°	185.5	197.4	205.7	212.8	215.8	219.9	222.3	227.0	229.4	227.0
77.5°	166.0	177.8	185.5	192.7	196.2	199.8	202.1	206.9	209.9	207.5
80°	147.0	158.9	166.6	173.1	176.7	180.2	182.6	187.9	190.3	188.5
82.5°	129.2	140.5	148.8	155.3	158.9	162.4	164.8	169.5	172.5	170.1
85°	113.2	124.5	132.2	138.7	141.7	145.2	147.6	152.4	154.7	153.5
87.5°	97.8	107.9	116.8	123.3	126.3	129.8	132.8	136.3	139.3	137.5
90°	86.0	94.8	103.1	109.7	113.2	116.8	120.3	123.9	126.3	125.1
92.5°	86.5	94.8	102.6	108.5	112.0	115.6	119.2	123.3	125.1	123.9
95°	86.5	94.8	102.6	108.5	112.0	115.6	119.2	123.3	125.1	123.9
97.5°	86.5	94.8	102.6	108.5	112.0	115.6	119.2	123.3	125.1	123.3
100°	86.5	94.8	102.6	108.5	112.0	115.0	118.6	122.7	124.5	123.3
102.5°	86.5	94.8	102.0	107.9	111.4	114.4	118.0	122.1	123.9	122.7
105°	86.5	94.3	102.0	107.3	110.9	113.8	117.4	120.9	122.7	121.5
107.5°	86.0	93.7	100.8	106.7	109.7	112.6	116.2	119.7	121.5	120.3
110°	86.0	93.1	100.2	105.5	108.5	111.4	115.0	118.6	120.3	119.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	85.4	92.5	99.6	104.3	107.3	110.3	113.2	117.4	119.2	118.0
115°	84.8	91.9	98.4	103.1	106.1	108.5	112.0	116.2	117.4	116.8
117.5°	84.2	90.7	97.2	102.0	104.9	107.3	110.3	113.8	115.6	115.0
120°	83.6	89.5	96.0	100.2	103.1	105.5	107.9	111.4	113.2	112.0
122.5°	82.4	88.3	94.8	99.0	101.4	103.7	106.1	109.1	110.9	110.3
125°	81.2	87.1	93.1	97.2	99.6	101.4	103.7	106.7	107.9	107.3
127.5°	80.0	86.0	91.3	94.8	97.8	99.6	101.4	104.3	105.5	104.9
130°	78.8	84.2	89.5	93.1	95.4	97.2	99.0	102.0	102.6	102.6
132.5°	77.7	82.4	87.7	91.3	93.7	94.8	96.6	99.0	100.2	99.6
135°	76.5	80.6	86.0	88.9	90.7	92.5	94.3	96.6	97.2	97.2
137.5°	74.7	78.8	83.6	86.5	88.3	89.5	91.3	93.7	94.3	94.3
140°	72.9	77.1	81.2	83.6	86.0	87.1	88.3	90.7	91.3	91.3
142.5°	71.1	74.7	78.8	81.2	83.6	84.2	86.0	87.7	88.3	88.3
145°	68.8	72.9	76.5	78.8	80.6	81.2	83.0	84.8	84.8	85.4
147.5°	65.8	69.4	74.1	75.9	77.7	78.3	80.0	81.2	81.8	81.8
150°	62.8	66.4	70.5	73.5	75.3	75.9	76.5	78.3	78.3	78.8
152.5°	59.9	62.8	67.0	70.0	72.3	72.9	73.5	74.7	74.7	75.3
155°	56.9	59.3	62.8	65.8	68.2	69.4	70.5	71.7	71.7	72.3
157.5°	54.5	56.9	59.9	62.2	64.0	65.8	67.6	68.8	68.8	68.8
160°	51.6	53.4	56.3	58.1	60.5	61.7	64.6	65.8	65.8	66.4
162.5°	49.8	50.4	52.2	53.9	55.7	56.9	59.9	62.8	62.8	63.4
165°	50.4	49.8	50.4	51.0	52.2	52.8	54.5	58.7	59.9	60.5
167.5°	51.6	49.8	49.8	49.8	51.0	51.0	52.8	55.1	59.3	58.1
170°	51.6	49.8	48.6	48.6	49.2	48.6	49.8	51.6	53.9	56.3
172.5°	52.2	50.4	48.6	46.2	46.8	46.2	45.1	45.1	45.6	53.4
175°	51.6	50.4	48.0	45.1	44.5	42.7	39.1	36.2	34.4	26.7
177.5°	51.0	49.2	47.4	45.1	43.9	42.1	37.9	33.2	28.5	27.3
180°	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6



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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	13.00	14.32	13.61	14.95	15.67	15.55	16.87	16.17	17.50	18.22
	3H	14.40	15.60	15.03	16.25	17.00	17.98	19.18	18.61	19.82	20.58
	4H	14.83	15.97	15.48	16.62	17.39	19.12	20.26	19.77	20.91	21.68
	6H	15.07	16.13	15.73	16.79	17.58	20.26	21.31	20.92	21.98	22.76
	8H	15.11	16.12	15.78	16.81	17.60	20.82	21.83	21.49	22.51	23.30
	12H	15.12	16.09	15.80	16.77	17.59	21.40	22.37	22.08	23.05	23.86
4H	2H	13.89	15.03	14.54	15.68	16.45	15.90	17.04	16.55	17.69	18.46
	3H	15.51	16.48	16.18	17.17	17.96	18.53	19.50	19.19	20.19	20.98
	4H	16.07	16.95	16.75	17.65	18.47	19.82	20.71	20.50	21.40	22.22
	6H	16.41	17.18	17.10	17.91	18.73	21.13	21.91	21.83	22.63	23.46
	8H	16.48	17.21	17.19	17.93	18.77	21.79	22.52	22.49	23.24	24.08
	12H	16.51	17.18	17.24	17.92	18.77	22.49	23.15	23.22	23.90	24.74
8H	4H	16.72	17.45	17.42	18.17	19.01	19.97	20.70	20.68	21.42	22.26
	6H	17.22	17.84	17.95	18.60	19.44	21.43	22.05	22.16	22.81	23.65
	8H	17.38	17.93	18.12	18.69	19.55	22.21	22.76	22.95	23.53	24.38
	12H	17.47	17.96	18.21	18.71	19.63	23.07	23.56	23.82	24.32	25.23
12H	4H	16.88	17.54	17.61	18.29	19.13	19.96	20.63	20.69	21.37	22.22
	6H	17.48	18.03	18.22	18.80	19.65	21.45	22.00	22.19	22.76	23.62
	8H	17.71	18.21	18.46	18.96	19.88	22.28	22.77	23.03	23.52	24.44