

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: P894221

Luminaire Tested: 4MB-SC3-FLTU-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894221
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-SC3-FLTU-UNV-CC93-LOW-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 5000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

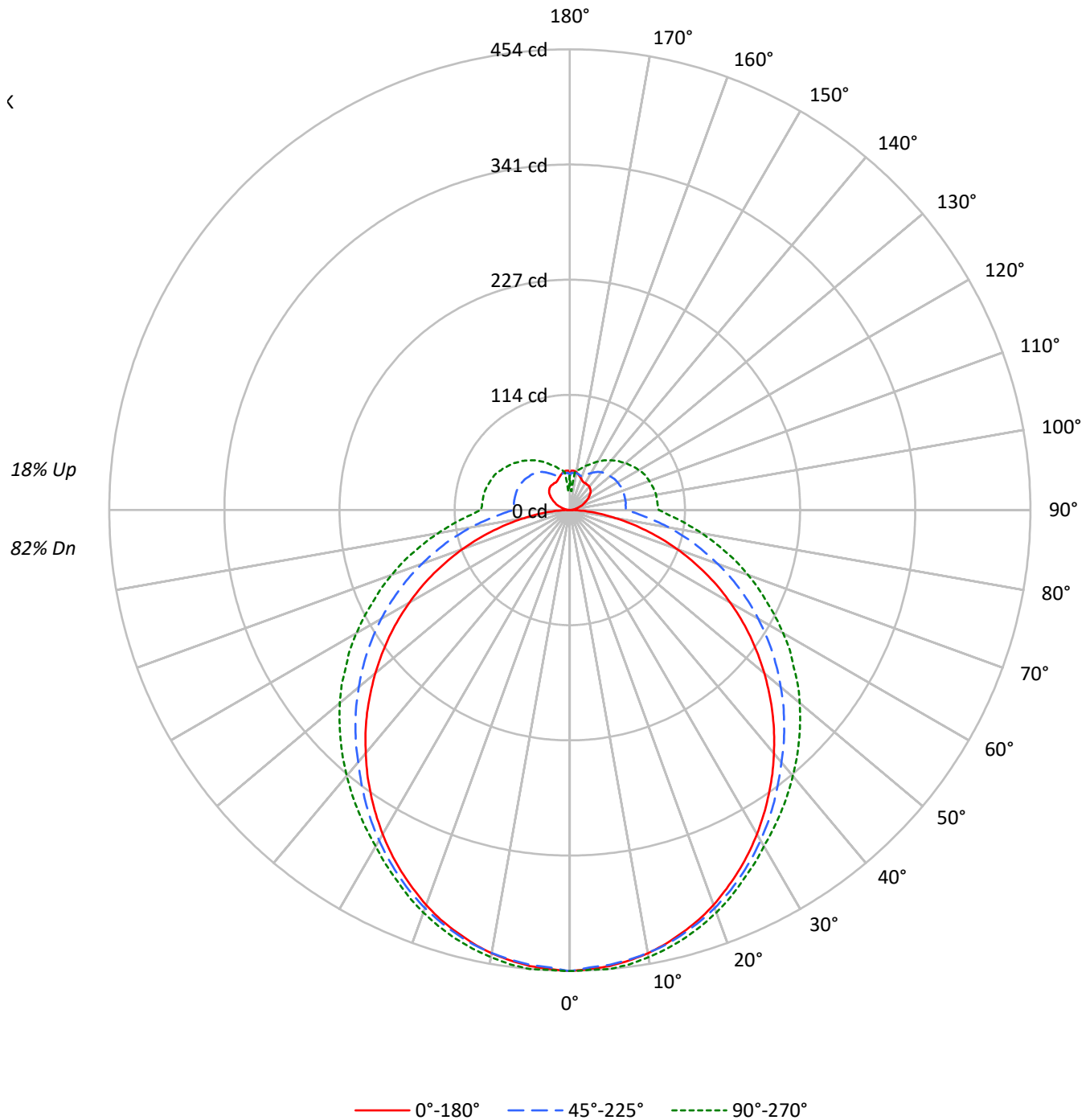
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1718.0 lumens
Efficiency: N/A
Efficacy: 102.9 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): 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			
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
RCR																				
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	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	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3233	3233	3233
5°	3207	3098	3094
10°	3176	2979	2948
15°	3129	2860	2807
20°	3078	2738	2665
25°	3012	2611	2520
30°	2942	2481	2388
35°	2865	2351	2279
40°	2784	2222	2176
45°	2702	2111	2078
50°	2608	1995	1981
55°	2506	1881	1874
60°	2382	1760	1773
65°	2236	1631	1657
70°	2046	1490	1551
75°	1785	1347	1435
80°	1444	1193	1317
85°	996	1037	1208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2702 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	2.5
10°-20°	122.6	7.1
20°-30°	184.1	10.7
30°-40°	221.1	12.9
40°-50°	232.5	13.5
50°-60°	218.5	12.7
60°-70°	181.7	10.6
70°-80°	129.6	7.5
80°-90°	77.2	4.5
90°-100°	55.9	3.3
100°-110°	55.1	3.2
110°-120°	51.8	3.0
120°-130°	45.9	2.7
130°-140°	38.0	2.2
140°-150°	28.5	1.7
150°-160°	18.7	1.1
160°-170°	10.6	0.6
170°-180°	3.4	0.2
0°-30°	349.7	20.4
0°-40°	570.8	33.2
0°-60°	1021.8	59.5
0°-90°	1410.2	82.1
90°-120°	162.7	9.5
90°-150°	275.1	16.0
90°-180°	308.0	17.9
0°-180°	1718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	451	456	450	451	454	43
15°	431	437	432	435	437	122
25°	393	400	398	402	403	181
35°	342	350	351	360	363	214
45°	283	290	299	314	320	218
55°	217	226	244	264	269	194
65°	148	160	185	208	214	146
75°	78	95	127	151	159	82
85°	20	43	74	99	108	21
90°	0	24	55	79	88	1
95°	2	26	55	78	87	2
105°	8	29	56	78	85	8
115°	15	31	55	74	82	15
125°	23	33	54	70	75	21
135°	29	35	51	64	68	22
145°	30	34	46	56	60	19
155°	31	34	39	48	51	14
165°	35	37	36	36	42	10
175°	39	39	36	31	19	4
180°	34	34	34	34	34	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4
2.5°	452.8	454.0	454.4	458.6	456.9	458.6	455.7	452.4	451.5	453.6	451.1
5°	451.1	452.4	452.8	456.9	455.3	456.5	454.0	450.7	449.9	452.4	449.9
7.5°	447.8	449.0	449.5	454.0	451.9	453.6	450.7	447.4	447.0	449.5	447.0
10°	443.6	444.9	445.3	449.5	447.8	449.5	446.6	443.2	442.8	445.7	443.2
12.5°	437.8	439.1	439.9	444.1	442.0	444.1	440.7	437.4	437.8	440.3	438.7
15°	430.8	432.4	432.9	437.0	435.3	437.4	434.1	430.8	431.6	434.1	432.4
17.5°	423.3	425.0	425.4	429.1	427.5	430.0	426.2	423.3	424.1	426.6	425.4
20°	414.2	415.8	416.7	420.4	418.7	421.2	417.5	415.0	415.8	418.7	417.5
22.5°	403.8	406.3	406.7	410.9	408.8	411.3	407.5	405.5	406.7	409.6	408.4
25°	393.0	395.5	395.9	400.1	398.4	400.5	396.8	394.7	396.3	399.2	398.4
27.5°	381.4	383.9	384.7	388.5	386.8	389.3	385.1	383.9	385.5	388.5	387.6
30°	368.9	371.4	371.9	375.6	374.3	376.8	373.1	371.4	373.9	376.8	376.0
32.5°	355.7	358.2	359.4	362.7	361.5	363.6	360.2	359.4	361.5	364.4	364.0
35°	342.0	344.5	345.7	349.4	347.8	349.9	346.5	345.7	349.0	351.1	351.1
37.5°	327.9	330.4	331.6	335.3	333.3	335.7	332.4	332.0	335.7	337.8	337.8
40°	312.9	315.8	317.1	320.4	318.7	320.8	317.9	318.3	321.6	324.1	324.5
42.5°	298.0	300.9	302.1	305.9	303.8	305.9	303.4	303.8	307.5	310.0	312.1
45°	282.6	285.1	286.4	290.5	288.0	290.5	288.0	288.8	292.6	296.3	298.8
47.5°	266.4	268.9	271.0	274.3	272.2	274.3	272.7	273.9	278.5	282.2	285.5
50°	250.3	252.7	254.8	257.7	255.6	258.6	256.5	258.1	263.9	267.7	271.4
52.5°	233.7	235.7	239.0	240.7	239.0	242.4	240.7	243.2	249.0	253.6	257.7
55°	217.1	219.1	222.4	223.7	222.0	225.8	224.5	227.8	234.1	239.0	243.6
57.5°	200.0	202.1	205.0	206.3	205.0	209.2	208.8	212.5	218.7	224.1	229.1
60°	182.6	184.7	187.2	188.4	188.4	192.6	192.6	197.1	203.8	208.8	214.6
62.5°	165.6	166.8	169.3	171.0	172.2	176.4	176.4	181.4	188.4	194.2	200.0
65°	147.7	149.0	151.1	153.1	155.2	159.8	160.2	165.6	172.6	178.5	185.1
67.5°	129.9	131.1	133.2	135.7	138.6	143.2	144.0	149.8	157.3	163.9	170.2
70°	112.5	112.9	115.4	118.7	122.0	126.6	127.8	134.0	141.9	148.6	155.2
72.5°	95.0	95.5	97.9	102.1	105.8	110.8	112.5	119.1	127.0	133.6	140.3
75°	77.6	78.0	81.3	86.3	90.5	95.0	97.1	104.2	112.1	119.1	126.6
77.5°	61.0	61.8	65.2	70.1	75.1	80.5	82.6	89.6	98.4	105.0	112.1
80°	45.7	46.5	50.2	55.6	61.0	66.0	68.5	75.5	84.7	91.3	99.2
82.5°	31.5	32.8	37.4	43.2	48.6	54.0	56.4	63.1	71.4	78.9	86.3
85°	19.5	21.2	25.7	32.0	37.8	42.7	45.2	52.3	60.2	67.2	74.3
87.5°	9.1	11.6	16.2	22.4	28.6	32.8	35.7	42.7	50.2	57.3	64.3
90°	0.0	3.7	8.3	14.5	20.8	24.5	27.8	34.4	41.9	48.6	55.2
92.5°	0.8	4.2	9.1	14.9	21.2	24.9	28.2	34.9	41.9	48.6	55.2
95°	2.1	4.6	9.5	15.8	22.0	25.7	28.6	35.3	42.3	49.0	55.2
97.5°	3.7	5.8	10.8	16.6	22.8	26.1	29.5	36.1	42.7	49.4	55.6
100°	5.0	6.6	11.6	17.4	23.7	27.0	30.3	36.5	43.2	49.8	55.6
102.5°	6.2	8.3	12.9	18.3	24.5	27.8	30.7	36.9	43.6	49.8	55.6
105°	7.9	9.5	13.7	19.5	25.3	28.6	31.5	37.8	44.0	50.2	55.6
107.5°	9.5	10.8	14.9	20.3	26.1	29.1	32.0	38.2	44.4	50.2	55.6
110°	11.6	12.5	16.2	21.2	26.6	29.9	32.8	38.6	44.4	50.2	55.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	13.7	13.7	17.4	22.0	27.4	30.3	33.2	39.0	44.8	50.2	55.6
115°	15.4	15.8	18.7	22.8	28.2	31.1	33.6	39.0	44.8	50.2	55.2
117.5°	17.4	17.4	20.3	23.7	28.6	31.5	34.4	39.4	44.8	49.8	54.8
120°	19.5	19.1	21.6	24.9	29.5	32.0	34.9	39.8	44.8	49.8	54.4
122.5°	21.6	20.8	22.4	25.7	29.9	32.8	34.9	39.8	44.8	49.4	54.0
125°	23.2	22.4	23.7	27.0	30.7	33.2	35.3	39.8	44.8	49.0	53.5
127.5°	24.9	24.1	25.3	27.8	31.1	33.2	35.7	39.8	44.8	48.6	52.7
130°	26.6	25.3	27.0	28.6	32.0	33.6	35.7	39.8	44.4	48.1	51.9
132.5°	27.8	26.6	28.2	29.5	32.4	34.0	36.1	39.8	44.0	47.7	51.5
135°	28.6	27.4	29.5	30.3	33.2	34.9	36.5	39.8	43.6	47.3	50.6
137.5°	29.5	27.8	30.3	31.1	33.6	35.3	36.5	39.4	43.2	46.5	49.8
140°	29.9	28.6	31.1	32.0	33.2	34.9	36.5	39.0	42.3	45.7	48.6
142.5°	30.3	28.6	31.5	32.4	33.2	34.4	36.1	38.2	41.5	44.4	47.3
145°	30.3	29.1	31.5	32.4	33.2	34.0	35.3	37.8	40.3	42.7	45.7
147.5°	30.3	29.5	32.0	32.8	33.6	33.6	34.4	36.9	39.0	41.5	44.0
150°	30.7	29.5	32.0	32.8	34.0	34.0	34.4	35.7	38.2	39.8	41.9
152.5°	30.3	29.9	31.5	33.2	34.0	34.4	34.4	34.9	36.9	38.6	40.3
155°	30.7	30.7	32.0	34.0	34.4	34.4	34.9	34.4	35.3	36.9	38.6
157.5°	31.5	32.4	32.4	34.4	35.3	35.3	35.7	35.3	34.9	35.3	36.9
160°	32.8	33.6	33.6	34.9	36.1	36.1	36.5	36.1	35.7	35.3	35.3
162.5°	34.0	34.9	34.9	35.3	36.5	36.9	37.4	36.9	36.5	35.7	35.3
165°	35.3	36.1	36.1	36.1	36.9	37.4	37.8	37.4	37.4	36.5	36.1
167.5°	36.5	37.4	37.4	36.9	37.4	37.8	38.2	37.8	37.8	37.4	36.5
170°	37.8	38.6	38.6	37.8	38.2	38.2	38.6	38.2	38.2	37.4	36.9
172.5°	38.6	39.4	39.0	38.6	38.6	38.6	38.6	38.2	37.8	36.9	36.9
175°	39.0	39.8	39.8	39.0	38.6	38.6	39.0	38.2	37.8	37.4	36.5
177.5°	39.0	39.8	39.8	39.0	39.0	38.6	39.0	38.6	38.6	37.8	36.9
180°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4
2.5°	452.8	452.4	449.9	452.8	452.8	451.9	455.3	454.9	454.4	453.6
5°	451.1	450.7	448.2	451.1	451.1	450.7	454.0	454.4	454.9	454.0
7.5°	448.6	448.2	445.7	448.6	448.6	448.2	451.9	452.4	452.8	451.5
10°	444.9	444.5	442.0	444.9	445.3	444.9	447.8	448.2	449.0	447.4
12.5°	439.9	439.9	437.4	440.3	440.7	440.3	443.2	444.1	444.9	442.8
15°	433.7	434.1	432.0	434.9	435.3	435.3	438.3	438.7	439.9	437.0
17.5°	426.2	427.0	425.4	428.3	428.7	429.1	430.8	432.0	433.3	430.0
20°	418.3	418.7	417.5	420.0	420.8	420.4	422.5	424.1	425.4	422.1
22.5°	408.8	409.2	408.0	410.4	411.3	411.7	413.4	415.4	416.3	413.4
25°	398.0	399.7	398.8	401.3	402.1	402.1	403.8	405.9	407.1	403.0
27.5°	387.6	389.7	388.9	391.4	392.2	392.6	393.4	395.9	397.2	393.4
30°	376.0	378.5	378.1	380.6	381.4	381.0	382.6	385.1	386.8	382.6
32.5°	363.1	366.5	366.0	369.4	370.2	370.6	371.9	375.2	376.8	373.1
35°	350.7	354.4	354.8	358.6	359.8	360.2	361.9	365.2	366.9	363.1
37.5°	337.8	342.8	344.0	347.8	349.0	349.4	351.1	354.8	356.5	352.8
40°	325.4	331.2	332.8	336.2	337.4	338.7	339.9	343.6	345.7	342.0
42.5°	312.9	319.1	321.2	324.5	325.8	327.0	328.7	332.8	334.5	331.2
45°	300.1	306.7	309.2	312.5	314.2	315.4	317.1	320.8	322.9	319.6
47.5°	287.2	293.8	296.3	300.1	301.7	303.4	304.6	309.2	311.3	307.9
50°	273.5	281.0	283.9	287.2	289.7	290.9	292.6	296.7	298.8	295.9
52.5°	259.8	267.7	271.0	274.3	276.8	278.9	279.7	284.3	286.4	283.5
55°	245.7	253.6	257.3	261.0	263.5	266.0	266.9	271.4	273.5	269.3
57.5°	231.6	239.9	243.6	247.8	249.8	252.7	254.0	258.1	260.2	257.3
60°	217.5	225.4	229.9	233.7	236.6	239.0	239.9	244.4	246.5	242.8
62.5°	202.9	211.2	215.8	220.0	222.4	225.4	226.6	230.7	232.4	228.7
65°	188.0	196.3	201.3	205.0	208.3	210.8	211.7	216.2	217.9	214.1
67.5°	173.1	181.4	186.8	190.9	193.8	196.7	197.5	202.1	203.8	200.9
70°	158.5	166.8	172.2	177.2	179.3	182.2	183.4	187.6	189.2	186.8
72.5°	144.0	152.3	158.1	163.1	165.2	168.1	169.7	173.1	175.6	173.5
75°	129.9	138.2	144.0	149.0	151.1	154.0	155.6	159.0	160.6	159.0
77.5°	116.2	124.5	129.9	134.9	137.4	139.9	141.5	144.8	146.9	145.3
80°	102.9	111.2	116.6	121.2	123.7	126.2	127.8	131.6	133.2	132.0
82.5°	90.5	98.4	104.2	108.7	111.2	113.7	115.4	118.7	120.8	119.1
85°	79.3	87.2	92.5	97.1	99.2	101.7	103.3	106.7	108.3	107.5
87.5°	68.5	75.5	81.8	86.3	88.4	90.9	93.0	95.5	97.5	96.3
90°	60.2	66.4	72.2	76.8	79.3	81.8	84.2	86.7	88.4	87.6
92.5°	60.6	66.4	71.8	75.9	78.4	80.9	83.4	86.3	87.6	86.7
95°	60.6	66.4	71.8	75.9	78.4	80.9	83.4	86.3	87.6	86.7
97.5°	60.6	66.4	71.8	75.9	78.4	80.9	83.4	86.3	87.6	86.3
100°	60.6	66.4	71.8	75.9	78.4	80.5	83.0	85.9	87.2	86.3
102.5°	60.6	66.4	71.4	75.5	78.0	80.1	82.6	85.5	86.7	85.9
105°	60.6	66.0	71.4	75.1	77.6	79.7	82.2	84.7	85.9	85.1
107.5°	60.2	65.6	70.6	74.7	76.8	78.9	81.3	83.8	85.1	84.2
110°	60.2	65.2	70.1	73.9	75.9	78.0	80.5	83.0	84.2	83.4



TEST NUMBER: P894221

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	59.8	64.7	69.7	73.0	75.1	77.2	79.3	82.2	83.4	82.6
115°	59.3	64.3	68.9	72.2	74.3	75.9	78.4	81.3	82.2	81.8
117.5°	58.9	63.5	68.1	71.4	73.5	75.1	77.2	79.7	80.9	80.5
120°	58.5	62.7	67.2	70.1	72.2	73.9	75.5	78.0	79.3	78.4
122.5°	57.7	61.8	66.4	69.3	71.0	72.6	74.3	76.4	77.6	77.2
125°	56.9	61.0	65.2	68.1	69.7	71.0	72.6	74.7	75.5	75.1
127.5°	56.0	60.2	63.9	66.4	68.5	69.7	71.0	73.0	73.9	73.5
130°	55.2	58.9	62.7	65.2	66.8	68.1	69.3	71.4	71.8	71.8
132.5°	54.4	57.7	61.4	63.9	65.6	66.4	67.6	69.3	70.1	69.7
135°	53.5	56.4	60.2	62.3	63.5	64.7	66.0	67.6	68.1	68.1
137.5°	52.3	55.2	58.5	60.6	61.8	62.7	63.9	65.6	66.0	66.0
140°	51.0	54.0	56.9	58.5	60.2	61.0	61.8	63.5	63.9	63.9
142.5°	49.8	52.3	55.2	56.9	58.5	58.9	60.2	61.4	61.8	61.8
145°	48.1	51.0	53.5	55.2	56.4	56.9	58.1	59.3	59.3	59.8
147.5°	46.1	48.6	51.9	53.1	54.4	54.8	56.0	56.9	57.3	57.3
150°	44.0	46.5	49.4	51.5	52.7	53.1	53.5	54.8	54.8	55.2
152.5°	41.9	44.0	46.9	49.0	50.6	51.0	51.5	52.3	52.3	52.7
155°	39.8	41.5	44.0	46.1	47.7	48.6	49.4	50.2	50.2	50.6
157.5°	38.2	39.8	41.9	43.6	44.8	46.1	47.3	48.1	48.1	48.1
160°	36.1	37.4	39.4	40.7	42.3	43.2	45.2	46.1	46.1	46.5
162.5°	34.9	35.3	36.5	37.8	39.0	39.8	41.9	44.0	44.0	44.4
165°	35.3	34.9	35.3	35.7	36.5	36.9	38.2	41.1	41.9	42.3
167.5°	36.1	34.9	34.9	34.9	35.7	35.7	36.9	38.6	41.5	40.7
170°	36.1	34.9	34.0	34.0	34.4	34.0	34.9	36.1	37.8	39.4
172.5°	36.5	35.3	34.0	32.4	32.8	32.4	31.5	31.5	32.0	37.4
175°	36.1	35.3	33.6	31.5	31.1	29.9	27.4	25.3	24.1	18.7
177.5°	35.7	34.4	33.2	31.5	30.7	29.5	26.6	23.2	19.9	19.1
180°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0



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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	11.76	13.08	12.38	13.71	14.43	14.31	15.63	14.93	16.26	16.98
	3H	13.17	14.37	13.79	15.01	15.76	16.74	17.94	17.37	18.58	19.34
	4H	13.59	14.73	14.24	15.39	16.16	17.88	19.02	18.53	19.67	20.44
	6H	13.83	14.89	14.49	15.55	16.34	19.02	20.07	19.68	20.74	21.52
	8H	13.87	14.89	14.55	15.57	16.36	19.58	20.59	20.25	21.27	22.06
	12H	13.88	14.85	14.56	15.53	16.35	20.16	21.13	20.84	21.81	22.63
4H	2H	12.65	13.79	13.30	14.44	15.21	14.66	15.80	15.31	16.45	17.22
	3H	14.27	15.24	14.94	15.93	16.72	17.29	18.26	17.95	18.95	19.74
	4H	14.83	15.71	15.51	16.41	17.23	18.58	19.47	19.26	20.16	20.98
	6H	15.17	15.95	15.87	16.67	17.49	19.89	20.67	20.59	21.39	22.22
	8H	15.24	15.98	15.95	16.69	17.53	20.55	21.28	21.25	22.00	22.84
	12H	15.27	15.94	16.00	16.68	17.53	21.25	21.92	21.98	22.66	23.50
8H	4H	15.48	16.21	16.18	16.93	17.77	18.73	19.47	19.44	20.19	21.03
	6H	15.98	16.60	16.72	17.36	18.20	20.19	20.81	20.92	21.57	22.41
	8H	16.14	16.69	16.88	17.45	18.31	20.97	21.52	21.71	22.29	23.14
	12H	16.23	16.72	16.98	17.47	18.39	21.83	22.33	22.58	23.08	23.99
12H	4H	15.64	16.31	16.37	17.05	17.89	18.73	19.39	19.45	20.13	20.98
	6H	16.24	16.80	16.98	17.56	18.42	20.21	20.76	20.95	21.53	22.38
	8H	16.47	16.97	17.22	17.72	18.64	21.04	21.53	21.79	22.29	23.20