

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: P894214

Luminaire Tested: 4MB-SC3-FLTU-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894214
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-CC83-MID-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 80CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

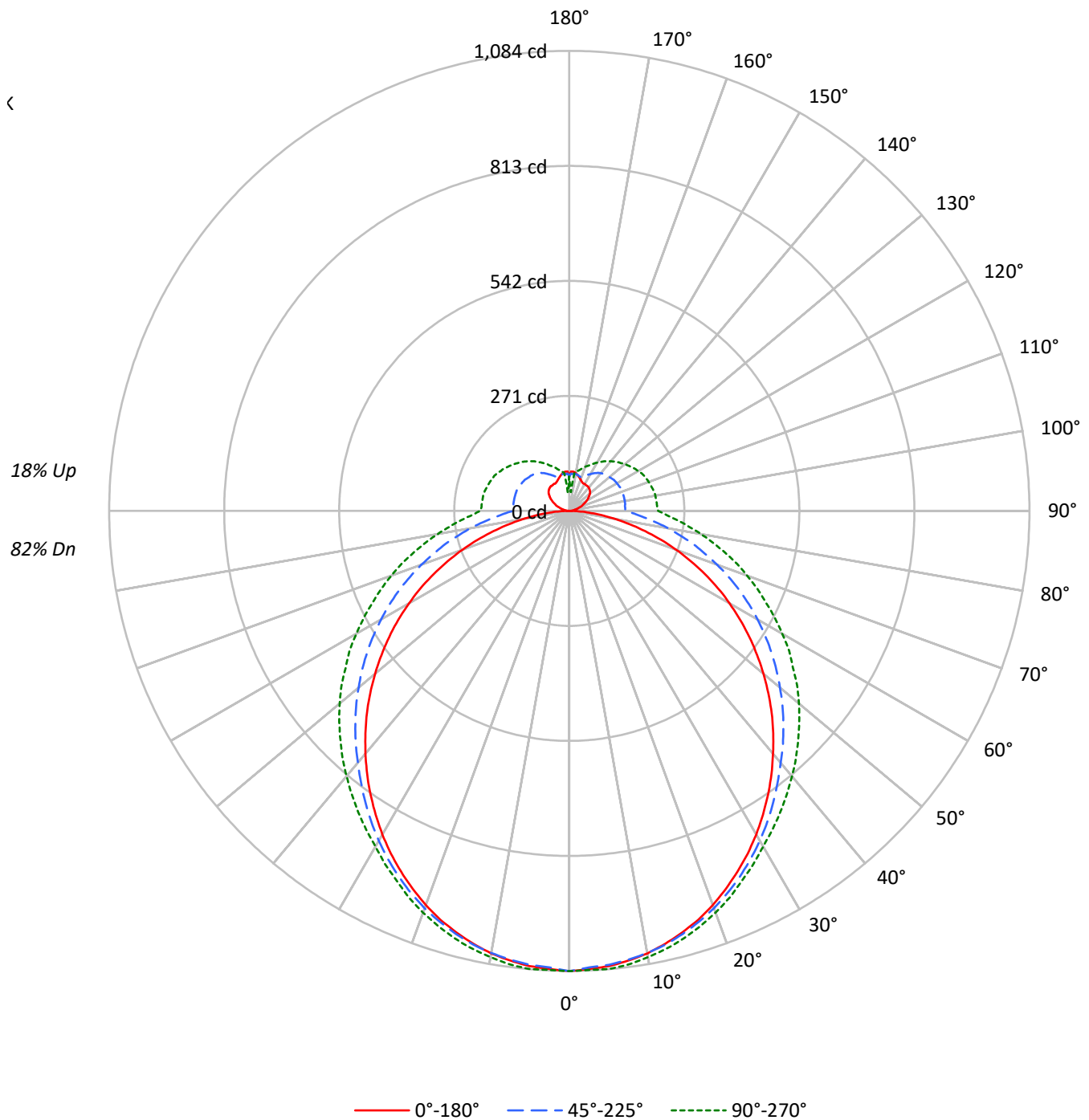
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4100.0 lumens
Efficiency: N/A
Efficacy: 122.4 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): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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





TEST NUMBER: P894214

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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	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°	7716	7716	7716
5°	7654	7393	7385
10°	7580	7110	7034
15°	7468	6825	6699
20°	7344	6535	6359
25°	7188	6231	6013
30°	7022	5921	5700
35°	6838	5610	5440
40°	6644	5304	5193
45°	6449	5037	4957
50°	6222	4761	4729
55°	5979	4490	4473
60°	5686	4200	4230
65°	5337	3893	3956
70°	4881	3557	3701
75°	4259	3214	3424
80°	3440	2846	3142
85°	2380	2473	2883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6449 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	2.5
10°-20°	292.5	7.1
20°-30°	439.5	10.7
30°-40°	527.7	12.9
40°-50°	554.9	13.5
50°-60°	521.4	12.7
60°-70°	433.5	10.6
70°-80°	309.4	7.5
80°-90°	184.1	4.5
90°-100°	133.3	3.3
100°-110°	131.5	3.2
110°-120°	123.5	3.0
120°-130°	109.5	2.7
130°-140°	90.7	2.2
140°-150°	67.9	1.7
150°-160°	44.7	1.1
160°-170°	25.3	0.6
170°-180°	8.1	0.2
0°-30°	834.5	20.4
0°-40°	1362.2	33.2
0°-60°	2438.5	59.5
0°-90°	3365.5	82.1
90°-120°	388.4	9.5
90°-150°	656.5	16.0
90°-180°	735.0	17.9
0°-180°	4100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1077	1090	1074	1077	1084	102
15°	1028	1044	1032	1039	1043	290
25°	938	956	951	960	962	432
35°	816	835	838	859	867	510
45°	674	693	713	750	763	520
55°	518	539	581	629	643	463
65°	353	381	442	497	511	349
75°	185	227	302	360	379	197
85°	47	102	177	237	256	51
90°	0	58	132	189	209	3
95°	5	61	132	187	207	6
105°	19	68	133	185	203	20
115°	37	74	132	177	195	37
125°	56	79	128	166	179	50
135°	68	83	121	152	162	53
145°	72	81	109	135	143	45
155°	73	82	92	114	121	34
165°	84	89	86	87	101	24
175°	93	92	87	74	45	9
180°	81	81	81	81	81	



TEST NUMBER: P894214
 CATALOG NUMBER: 4MB-SC3-FLTU-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5
2.5°	1080.6	1083.5	1084.5	1094.4	1090.5	1094.4	1087.5	1079.6	1077.6	1082.5	1076.6
5°	1076.6	1079.6	1080.6	1090.5	1086.5	1089.5	1083.5	1075.6	1073.6	1079.6	1073.6
7.5°	1068.7	1071.6	1072.6	1083.5	1078.6	1082.5	1075.6	1067.7	1066.7	1072.6	1066.7
10°	1058.8	1061.7	1062.7	1072.6	1068.7	1072.6	1065.7	1057.8	1056.8	1063.7	1057.8
12.5°	1044.9	1047.9	1049.9	1059.8	1054.8	1059.8	1051.8	1043.9	1044.9	1050.8	1046.9
15°	1028.1	1032.0	1033.0	1042.9	1039.0	1043.9	1036.0	1028.1	1030.0	1036.0	1032.0
17.5°	1010.2	1014.2	1015.2	1024.1	1020.1	1026.1	1017.2	1010.2	1012.2	1018.2	1015.2
20°	988.4	992.4	994.4	1003.3	999.3	1005.3	996.4	990.4	992.4	999.3	996.4
22.5°	963.7	969.6	970.6	980.5	975.6	981.5	972.6	967.6	970.6	977.6	974.6
25°	937.9	943.9	944.9	954.8	950.8	955.8	946.8	941.9	945.9	952.8	950.8
27.5°	910.2	916.1	918.1	927.0	923.1	929.0	919.1	916.1	920.1	927.0	925.1
30°	880.5	886.4	887.4	896.3	893.4	899.3	890.4	886.4	892.4	899.3	897.3
32.5°	848.8	854.7	857.7	865.6	862.7	867.6	859.7	857.7	862.7	869.6	868.6
35°	816.1	822.1	825.0	833.9	830.0	834.9	827.0	825.0	833.0	837.9	837.9
37.5°	782.4	788.4	791.4	800.3	795.3	801.3	793.3	792.3	801.3	806.2	806.2
40°	746.8	753.7	756.7	764.6	760.6	765.6	758.7	759.7	767.6	773.5	774.5
42.5°	711.1	718.1	721.0	729.9	725.0	729.9	724.0	725.0	733.9	739.9	744.8
45°	674.5	680.4	683.4	693.3	687.4	693.3	687.4	689.3	698.3	707.2	713.1
47.5°	635.9	641.8	646.7	654.7	649.7	654.7	650.7	653.7	664.6	673.5	681.4
50°	597.2	603.2	608.1	615.1	610.1	617.0	612.1	616.0	629.9	638.8	647.7
52.5°	557.6	562.6	570.5	574.4	570.5	578.4	574.4	580.4	594.3	605.2	615.1
55°	518.0	522.9	530.9	533.8	529.9	538.8	535.8	543.7	558.6	570.5	581.4
57.5°	477.4	482.3	489.3	492.2	489.3	499.2	498.2	507.1	522.0	534.8	546.7
60°	435.8	440.7	446.7	449.7	449.7	459.6	459.6	470.5	486.3	498.2	512.1
62.5°	395.2	398.2	404.1	408.1	411.0	420.9	420.9	432.8	449.7	463.5	477.4
65°	352.6	355.6	360.5	365.5	370.4	381.3	382.3	395.2	412.0	425.9	441.7
67.5°	310.0	313.0	317.9	323.9	330.8	341.7	343.7	357.5	375.4	391.2	406.1
70°	268.4	269.4	275.3	283.3	291.2	302.1	305.1	319.9	338.7	354.6	370.4
72.5°	226.8	227.8	233.7	243.6	252.6	264.4	268.4	284.3	303.1	318.9	334.8
75°	185.2	186.2	194.1	206.0	215.9	226.8	231.8	248.6	267.4	284.3	302.1
77.5°	145.6	147.6	155.5	167.4	179.3	192.1	197.1	213.9	234.7	250.6	267.4
80°	108.9	110.9	119.8	132.7	145.6	157.5	163.4	180.3	202.0	217.9	236.7
82.5°	75.3	78.2	89.1	103.0	115.9	128.8	134.7	150.5	170.4	188.2	206.0
85°	46.6	50.5	61.4	76.3	90.1	102.0	108.0	124.8	143.6	160.4	177.3
87.5°	21.8	27.7	38.6	53.5	68.3	78.2	85.2	102.0	119.8	136.7	153.5
90°	0.0	8.9	19.8	34.7	49.5	58.4	66.4	82.2	100.0	115.9	131.7
92.5°	2.0	9.9	21.8	35.7	50.5	59.4	67.3	83.2	100.0	115.9	131.7
95°	5.0	10.9	22.8	37.6	52.5	61.4	68.3	84.2	101.0	116.9	131.7
97.5°	8.9	13.9	25.8	39.6	54.5	62.4	70.3	86.2	102.0	117.9	132.7
100°	11.9	15.8	27.7	41.6	56.5	64.4	72.3	87.2	103.0	118.9	132.7
102.5°	14.9	19.8	30.7	43.6	58.4	66.4	73.3	88.1	104.0	118.9	132.7
105°	18.8	22.8	32.7	46.6	60.4	68.3	75.3	90.1	105.0	119.8	132.7
107.5°	22.8	25.8	35.7	48.5	62.4	69.3	76.3	91.1	106.0	119.8	132.7
110°	27.7	29.7	38.6	50.5	63.4	71.3	78.2	92.1	106.0	119.8	132.7



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CATALOG NUMBER: 4MB-SC3-FLTU-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	32.7	32.7	41.6	52.5	65.4	72.3	79.2	93.1	107.0	119.8	132.7
115°	36.6	37.6	44.6	54.5	67.3	74.3	80.2	93.1	107.0	119.8	131.7
117.5°	41.6	41.6	48.5	56.5	68.3	75.3	82.2	94.1	107.0	118.9	130.7
120°	46.6	45.6	51.5	59.4	70.3	76.3	83.2	95.1	107.0	118.9	129.7
122.5°	51.5	49.5	53.5	61.4	71.3	78.2	83.2	95.1	107.0	117.9	128.8
125°	55.5	53.5	56.5	64.4	73.3	79.2	84.2	95.1	107.0	116.9	127.8
127.5°	59.4	57.4	60.4	66.4	74.3	79.2	85.2	95.1	107.0	115.9	125.8
130°	63.4	60.4	64.4	68.3	76.3	80.2	85.2	95.1	106.0	114.9	123.8
132.5°	66.4	63.4	67.3	70.3	77.3	81.2	86.2	95.1	105.0	113.9	122.8
135°	68.3	65.4	70.3	72.3	79.2	83.2	87.2	95.1	104.0	112.9	120.8
137.5°	70.3	66.4	72.3	74.3	80.2	84.2	87.2	94.1	103.0	110.9	118.9
140°	71.3	68.3	74.3	76.3	79.2	83.2	87.2	93.1	101.0	108.9	115.9
142.5°	72.3	68.3	75.3	77.3	79.2	82.2	86.2	91.1	99.0	106.0	112.9
145°	72.3	69.3	75.3	77.3	79.2	81.2	84.2	90.1	96.1	102.0	108.9
147.5°	72.3	70.3	76.3	78.2	80.2	80.2	82.2	88.1	93.1	99.0	105.0
150°	73.3	70.3	76.3	78.2	81.2	81.2	82.2	85.2	91.1	95.1	100.0
152.5°	72.3	71.3	75.3	79.2	81.2	82.2	82.2	83.2	88.1	92.1	96.1
155°	73.3	73.3	76.3	81.2	82.2	82.2	83.2	82.2	84.2	88.1	92.1
157.5°	75.3	77.3	77.3	82.2	84.2	84.2	85.2	84.2	83.2	84.2	88.1
160°	78.2	80.2	80.2	83.2	86.2	86.2	87.2	86.2	85.2	84.2	84.2
162.5°	81.2	83.2	83.2	84.2	87.2	88.1	89.1	88.1	87.2	85.2	84.2
165°	84.2	86.2	86.2	86.2	88.1	89.1	90.1	89.1	89.1	87.2	86.2
167.5°	87.2	89.1	89.1	88.1	89.1	90.1	91.1	90.1	90.1	89.1	87.2
170°	90.1	92.1	92.1	90.1	91.1	91.1	92.1	91.1	91.1	89.1	88.1
172.5°	92.1	94.1	93.1	92.1	92.1	92.1	92.1	91.1	90.1	88.1	88.1
175°	93.1	95.1	95.1	93.1	92.1	92.1	93.1	91.1	90.1	89.1	87.2
177.5°	93.1	95.1	95.1	93.1	93.1	92.1	93.1	92.1	92.1	90.1	88.1
180°	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5
2.5°	1080.6	1079.6	1073.6	1080.6	1080.6	1078.6	1086.5	1085.5	1084.5	1082.5
5°	1076.6	1075.6	1069.7	1076.6	1076.6	1075.6	1083.5	1084.5	1085.5	1083.5
7.5°	1070.7	1069.7	1063.7	1070.7	1070.7	1069.7	1078.6	1079.6	1080.6	1077.6
10°	1061.7	1060.7	1054.8	1061.7	1062.7	1061.7	1068.7	1069.7	1071.6	1067.7
12.5°	1049.9	1049.9	1043.9	1050.8	1051.8	1050.8	1057.8	1059.8	1061.7	1056.8
15°	1035.0	1036.0	1031.0	1038.0	1039.0	1039.0	1045.9	1046.9	1049.9	1042.9
17.5°	1017.2	1019.2	1015.2	1022.1	1023.1	1024.1	1028.1	1031.0	1034.0	1026.1
20°	998.4	999.3	996.4	1002.3	1004.3	1003.3	1008.3	1012.2	1015.2	1007.3
22.5°	975.6	976.6	973.6	979.5	981.5	982.5	986.5	991.4	993.4	986.5
25°	949.8	953.8	951.8	957.7	959.7	959.7	963.7	968.6	971.6	961.7
27.5°	925.1	930.0	928.0	934.0	936.0	936.9	938.9	944.9	947.8	938.9
30°	897.3	903.3	902.3	908.2	910.2	909.2	913.2	919.1	923.1	913.2
32.5°	866.6	874.5	873.6	881.5	883.5	884.5	887.4	895.3	899.3	890.4
35°	836.9	845.8	846.8	855.7	858.7	859.7	863.7	871.6	875.5	866.6
37.5°	806.2	818.1	821.1	830.0	833.0	833.9	837.9	846.8	850.8	841.9
40°	776.5	790.4	794.3	802.2	805.2	808.2	811.2	820.1	825.0	816.1
42.5°	746.8	761.6	766.6	774.5	777.5	780.5	784.4	794.3	798.3	790.4
45°	716.1	731.9	737.9	745.8	749.8	752.7	756.7	765.6	770.6	762.6
47.5°	685.4	701.2	707.2	716.1	720.0	724.0	727.0	737.9	742.8	734.9
50°	652.7	670.5	677.5	685.4	691.3	694.3	698.3	708.2	713.1	706.2
52.5°	620.0	638.8	646.7	654.7	660.6	665.6	667.5	678.4	683.4	676.5
55°	586.3	605.2	614.1	623.0	628.9	634.9	636.8	647.7	652.7	642.8
57.5°	552.7	572.5	581.4	591.3	596.2	603.2	606.1	616.0	621.0	614.1
60°	519.0	537.8	548.7	557.6	564.5	570.5	572.5	583.4	588.3	579.4
62.5°	484.3	504.1	515.0	524.9	530.9	537.8	540.8	550.7	554.6	545.7
65°	448.7	468.5	480.4	489.3	497.2	503.1	505.1	516.0	520.0	511.1
67.5°	413.0	432.8	445.7	455.6	462.5	469.5	471.4	482.3	486.3	479.4
70°	378.3	398.2	411.0	422.9	427.9	434.8	437.8	447.7	451.6	445.7
72.5°	343.7	363.5	377.4	389.2	394.2	401.1	405.1	413.0	419.0	414.0
75°	310.0	329.8	343.7	355.6	360.5	367.4	371.4	379.3	383.3	379.3
77.5°	277.3	297.1	310.0	321.9	327.8	333.8	337.7	345.7	350.6	346.7
80°	245.6	265.4	278.3	289.2	295.1	301.1	305.1	314.0	317.9	315.0
82.5°	215.9	234.7	248.6	259.5	265.4	271.4	275.3	283.3	288.2	284.3
85°	189.2	208.0	220.9	231.8	236.7	242.7	246.6	254.5	258.5	256.5
87.5°	163.4	180.3	195.1	206.0	211.0	216.9	221.9	227.8	232.8	229.8
90°	143.6	158.5	172.3	183.2	189.2	195.1	201.1	207.0	211.0	209.0
92.5°	144.6	158.5	171.3	181.2	187.2	193.1	199.1	206.0	209.0	207.0
95°	144.6	158.5	171.3	181.2	187.2	193.1	199.1	206.0	209.0	207.0
97.5°	144.6	158.5	171.3	181.2	187.2	193.1	199.1	206.0	209.0	206.0
100°	144.6	158.5	171.3	181.2	187.2	192.1	198.1	205.0	208.0	206.0
102.5°	144.6	158.5	170.4	180.3	186.2	191.2	197.1	204.0	207.0	205.0
105°	144.6	157.5	170.4	179.3	185.2	190.2	196.1	202.0	205.0	203.0
107.5°	143.6	156.5	168.4	178.3	183.2	188.2	194.1	200.1	203.0	201.1
110°	143.6	155.5	167.4	176.3	181.2	186.2	192.1	198.1	201.1	199.1



TEST NUMBER: P894214

CATALOG NUMBER: 4MB-SC3-FLTU-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	142.6	154.5	166.4	174.3	179.3	184.2	189.2	196.1	199.1	197.1
115°	141.6	153.5	164.4	172.3	177.3	181.2	187.2	194.1	196.1	195.1
117.5°	140.6	151.5	162.4	170.4	175.3	179.3	184.2	190.2	193.1	192.1
120°	139.7	149.6	160.4	167.4	172.3	176.3	180.3	186.2	189.2	187.2
122.5°	137.7	147.6	158.5	165.4	169.4	173.3	177.3	182.2	185.2	184.2
125°	135.7	145.6	155.5	162.4	166.4	169.4	173.3	178.3	180.3	179.3
127.5°	133.7	143.6	152.5	158.5	163.4	166.4	169.4	174.3	176.3	175.3
130°	131.7	140.6	149.6	155.5	159.5	162.4	165.4	170.4	171.3	171.3
132.5°	129.7	137.7	146.6	152.5	156.5	158.5	161.4	165.4	167.4	166.4
135°	127.8	134.7	143.6	148.6	151.5	154.5	157.5	161.4	162.4	162.4
137.5°	124.8	131.7	139.7	144.6	147.6	149.6	152.5	156.5	157.5	157.5
140°	121.8	128.8	135.7	139.7	143.6	145.6	147.6	151.5	152.5	152.5
142.5°	118.9	124.8	131.7	135.7	139.7	140.6	143.6	146.6	147.6	147.6
145°	114.9	121.8	127.8	131.7	134.7	135.7	138.7	141.6	141.6	142.6
147.5°	109.9	115.9	123.8	126.8	129.7	130.7	133.7	135.7	136.7	136.7
150°	105.0	110.9	117.9	122.8	125.8	126.8	127.8	130.7	130.7	131.7
152.5°	100.0	105.0	111.9	116.9	120.8	121.8	122.8	124.8	124.8	125.8
155°	95.1	99.0	105.0	109.9	113.9	115.9	117.9	119.8	119.8	120.8
157.5°	91.1	95.1	100.0	104.0	107.0	109.9	112.9	114.9	114.9	114.9
160°	86.2	89.1	94.1	97.1	101.0	103.0	108.0	109.9	109.9	110.9
162.5°	83.2	84.2	87.2	90.1	93.1	95.1	100.0	105.0	105.0	106.0
165°	84.2	83.2	84.2	85.2	87.2	88.1	91.1	98.1	100.0	101.0
167.5°	86.2	83.2	83.2	83.2	85.2	85.2	88.1	92.1	99.0	97.1
170°	86.2	83.2	81.2	81.2	82.2	81.2	83.2	86.2	90.1	94.1
172.5°	87.2	84.2	81.2	77.3	78.2	77.3	75.3	75.3	76.3	89.1
175°	86.2	84.2	80.2	75.3	74.3	71.3	65.4	60.4	57.4	44.6
177.5°	85.2	82.2	79.2	75.3	73.3	70.3	63.4	55.5	47.5	45.6
180°	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2



TEST NUMBER: P894214
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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	14.78	16.10	15.40	16.73	17.46	17.33	18.65	17.95	19.29	20.01
	3H	16.19	17.39	16.82	18.03	18.79	19.76	20.96	20.39	21.60	22.36
	4H	16.62	17.75	17.26	18.41	19.18	20.90	22.04	21.55	22.69	23.46
	6H	16.85	17.91	17.51	18.58	19.36	22.04	23.10	22.70	23.76	24.55
	8H	16.90	17.91	17.57	18.60	19.38	22.60	23.61	23.27	24.30	25.08
	12H	16.91	17.88	17.59	18.56	19.37	23.18	24.15	23.86	24.83	25.65
4H	2H	15.67	16.81	16.32	17.46	18.23	17.68	18.82	18.33	19.47	20.24
	3H	17.30	18.26	17.96	18.95	19.74	20.31	21.28	20.98	21.97	22.76
	4H	17.85	18.74	18.53	19.43	20.25	21.60	22.49	22.28	23.19	24.00
	6H	18.19	18.97	18.89	19.69	20.52	22.92	23.69	23.61	24.42	25.24
	8H	18.27	19.00	18.97	19.72	20.56	23.57	24.30	24.28	25.02	25.86
	12H	18.30	18.96	19.02	19.70	20.55	24.27	24.94	25.00	25.68	26.53
8H	4H	18.50	19.23	19.20	19.95	20.79	21.76	22.49	22.46	23.21	24.05
	6H	19.00	19.62	19.74	20.38	21.22	23.21	23.83	23.95	24.59	25.43
	8H	19.16	19.72	19.90	20.48	21.33	23.99	24.55	24.74	25.31	26.17
	12H	19.25	19.74	20.00	20.50	21.41	24.85	25.35	25.60	26.10	27.02
12H	4H	18.66	19.33	19.39	20.07	20.92	21.75	22.41	22.47	23.15	24.00
	6H	19.26	19.82	20.01	20.58	21.44	23.23	23.79	23.97	24.55	25.40
	8H	19.50	19.99	20.24	20.74	21.66	24.06	24.56	24.81	25.31	26.22