

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: P894323

Luminaire Tested: 4MB-SC3-RNDU-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-RNDU-UNV-CC83-MID-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 50
CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

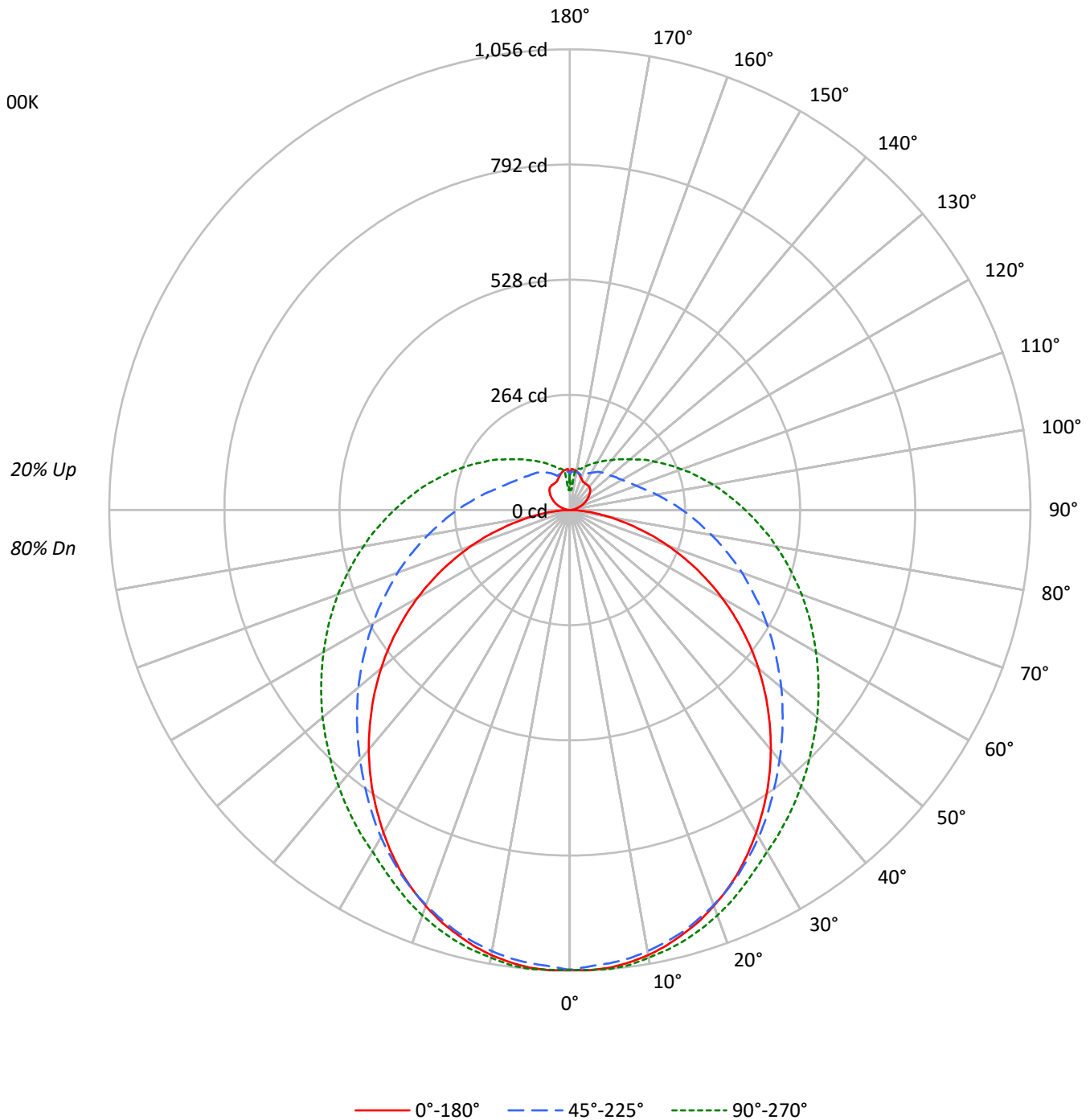
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4433.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 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





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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	83	83	83	80
1	102	96	91	86	97	92	87	83	84	80	76	76	73	70	69	67	65	65	65	65	61
2	92	82	75	68	87	79	72	66	72	66	61	65	61	57	60	56	53	53	53	53	49
3	83	72	63	56	79	69	61	54	63	56	51	57	52	47	52	48	44	44	44	44	41
4	76	63	54	47	72	60	52	45	55	48	43	51	45	40	46	41	37	37	37	37	34
5	69	56	47	40	66	54	45	39	49	42	37	45	39	34	41	36	32	32	32	32	29
6	64	50	41	35	61	48	40	34	44	37	32	41	35	30	37	32	28	28	28	28	26
7	59	46	37	30	56	44	35	30	40	33	28	37	31	26	34	29	25	25	25	25	23
8	55	41	33	27	52	40	32	26	37	30	25	34	28	24	31	26	22	22	22	22	20
9	51	38	30	24	49	36	29	23	34	27	22	31	25	21	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7499	7499	7499
5°	7486	7182	7197
10°	7416	6902	6864
15°	7306	6619	6557
20°	7175	6320	6242
25°	7017	6020	5926
30°	6814	5717	5645
35°	6604	5405	5439
40°	6379	5123	5251
45°	6137	4873	5085
50°	5882	4651	4956
55°	5591	4445	4843
60°	5259	4277	4759
65°	4857	4127	4712
70°	4359	4035	4696
75°	3689	3968	4717
80°	2884	3967	4791
85°	1844	4071	4948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6137 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	2.2
10°-20°	284.3	6.4
20°-30°	426.9	9.6
30°-40°	513.3	11.6
40°-50°	543.9	12.3
50°-60°	523.8	11.8
60°-70°	463.5	10.5
70°-80°	380.2	8.6
80°-90°	295.0	6.7
90°-100°	229.0	5.2
100°-110°	181.4	4.1
110°-120°	144.5	3.3
120°-130°	114.8	2.6
130°-140°	89.7	2.0
140°-150°	66.0	1.5
150°-160°	43.6	1.0
160°-170°	25.1	0.6
170°-180°	8.1	0.2
0°-30°	810.9	18.3
0°-40°	1324.3	29.9
0°-60°	2391.9	54.0
0°-90°	3530.7	79.6
90°-120°	555.0	12.5
90°-150°	825.4	18.6
90°-180°	902.0	20.3
0°-180°	4433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1053	1054	1043	1051	1056	100
15°	1006	1007	1001	1016	1021	284
25°	916	919	919	942	948	421
35°	788	798	807	849	866	493
45°	642	657	690	755	782	495
55°	484	508	576	661	696	433
65°	321	365	468	567	609	318
75°	160	241	373	478	522	172
85°	36	145	292	398	440	41
90°	1	114	258	361	402	3
95°	5	94	228	326	366	5
105°	18	76	180	267	302	19
115°	36	73	149	218	247	35
125°	52	76	130	180	202	47
135°	66	81	117	150	164	51
145°	70	80	106	129	137	44
155°	71	83	91	110	116	34
165°	84	89	86	86	97	24
175°	93	92	88	73	49	9
180°	81	81	81	81	81	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0
2.5°	1056.0	1055.0	1057.0	1059.0	1065.0	1057.0	1061.0	1049.9	1050.9	1051.9	1046.9
5°	1052.9	1049.9	1052.9	1055.0	1060.0	1054.0	1058.0	1045.9	1046.9	1048.9	1042.9
7.5°	1045.9	1042.9	1044.9	1046.9	1051.9	1045.9	1050.9	1038.9	1040.9	1041.9	1036.9
10°	1035.9	1031.9	1033.9	1036.9	1040.9	1035.9	1039.9	1028.9	1029.9	1031.9	1026.9
12.5°	1022.9	1018.9	1020.9	1022.9	1027.9	1022.9	1026.9	1015.8	1017.9	1019.9	1014.8
15°	1005.8	1001.8	1003.8	1005.8	1009.8	1006.8	1010.8	999.8	1001.8	1005.8	1000.8
17.5°	987.8	981.8	983.8	986.8	990.8	988.8	991.8	982.8	983.8	987.8	982.8
20°	965.7	959.7	961.7	964.7	968.7	967.7	969.7	961.7	963.7	968.7	963.7
22.5°	941.6	935.6	937.6	941.6	944.6	944.6	945.6	939.6	941.6	946.7	942.6
25°	915.6	909.5	911.6	915.6	918.6	918.6	920.6	914.6	917.6	922.6	918.6
27.5°	885.5	882.5	882.5	886.5	888.5	890.5	891.5	886.5	890.5	895.5	892.5
30°	854.4	850.4	852.4	857.4	857.4	861.4	861.4	857.4	862.4	868.4	866.4
32.5°	821.3	818.3	819.3	825.3	825.3	830.3	829.3	827.3	832.3	839.4	837.3
35°	788.2	785.2	786.2	792.2	792.2	798.2	796.2	796.2	801.2	809.3	807.3
37.5°	753.1	751.1	752.1	758.1	758.1	764.1	762.1	763.1	769.2	778.2	777.2
40°	717.0	715.0	717.0	722.0	724.0	729.0	727.0	729.0	737.1	745.1	748.1
42.5°	679.9	678.9	680.9	685.9	687.9	692.9	691.9	694.9	703.0	715.0	719.0
45°	641.8	641.8	643.8	648.8	650.8	656.8	655.8	659.8	669.9	682.9	689.9
47.5°	603.7	604.7	605.7	611.7	611.7	621.7	618.7	624.8	637.8	652.8	660.9
50°	564.6	566.6	567.6	572.6	574.6	583.6	581.6	591.7	605.7	621.7	632.8
52.5°	525.5	527.5	529.5	533.5	535.5	546.5	544.5	557.6	574.6	591.7	603.7
55°	484.4	488.4	489.4	494.4	497.4	508.4	508.4	523.5	541.5	560.6	575.6
57.5°	444.2	448.3	449.3	455.3	459.3	472.3	474.3	491.4	511.4	530.5	548.5
60°	403.1	408.1	409.1	415.2	422.2	436.2	439.2	458.3	480.3	500.4	521.5
62.5°	362.0	367.0	369.0	375.1	386.1	400.1	405.1	427.2	450.3	472.3	495.4
65°	320.9	325.9	328.9	336.9	350.0	365.0	372.0	395.1	421.2	444.2	468.3
67.5°	279.8	285.8	289.8	299.8	316.9	332.9	340.0	366.0	393.1	418.2	443.2
70°	239.7	245.7	250.7	263.7	283.8	299.8	308.9	336.9	365.0	392.1	420.2
72.5°	200.6	206.6	213.6	229.6	251.7	269.8	279.8	308.9	340.0	367.0	396.1
75°	160.4	167.5	175.5	197.6	222.6	240.7	251.7	282.8	314.9	342.0	373.0
77.5°	124.3	131.4	143.4	165.5	193.5	213.6	225.6	258.7	291.8	318.9	351.0
80°	91.3	98.3	114.3	138.4	167.5	186.5	201.6	235.7	269.8	297.8	329.9
82.5°	62.2	69.2	88.2	114.3	145.4	164.5	178.5	214.6	248.7	277.8	309.9
85°	36.1	46.1	66.2	94.3	126.4	145.4	159.4	196.6	229.6	258.7	291.8
87.5°	16.0	28.1	50.1	78.2	110.3	128.4	143.4	177.5	212.6	241.7	274.8
90°	1.0	16.0	39.1	66.2	97.3	114.3	128.4	162.5	195.5	225.6	257.7
92.5°	2.0	11.0	32.1	57.2	86.2	103.3	117.3	149.4	180.5	211.6	242.7
95°	5.0	11.0	28.1	51.1	78.2	94.3	107.3	138.4	167.5	197.6	227.6
97.5°	8.0	12.0	27.1	48.1	72.2	87.2	99.3	128.4	157.4	184.5	214.6
100°	11.0	15.0	27.1	46.1	68.2	82.2	93.3	120.3	147.4	172.5	202.6
102.5°	14.0	18.1	29.1	46.1	66.2	78.2	89.3	114.3	139.4	162.5	190.5
105°	18.1	21.1	31.1	46.1	64.2	76.2	85.2	108.3	132.4	154.4	179.5
107.5°	22.1	24.1	33.1	47.1	64.2	74.2	83.2	104.3	126.4	146.4	170.5
110°	27.1	28.1	36.1	49.1	64.2	73.2	81.2	101.3	121.3	140.4	162.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	31.1	31.1	39.1	51.1	64.2	73.2	80.2	98.3	117.3	134.4	155.4
115°	36.1	36.1	42.1	53.1	65.2	73.2	80.2	97.3	114.3	129.4	149.4
117.5°	40.1	40.1	46.1	55.2	67.2	74.2	80.2	95.3	111.3	125.4	143.4
120°	44.1	44.1	48.1	57.2	68.2	75.2	80.2	94.3	108.3	122.3	138.4
122.5°	48.1	48.1	51.1	60.2	69.2	75.2	80.2	93.3	106.3	118.3	133.4
125°	52.1	52.1	54.2	62.2	71.2	76.2	81.2	93.3	105.3	115.3	130.4
127.5°	56.2	55.2	58.2	65.2	72.2	77.2	82.2	93.3	103.3	113.3	126.4
130°	59.2	58.2	62.2	67.2	74.2	78.2	82.2	92.3	102.3	111.3	122.3
132.5°	63.2	61.2	66.2	68.2	76.2	80.2	83.2	92.3	101.3	109.3	120.3
135°	66.2	64.2	69.2	71.2	77.2	81.2	84.2	92.3	100.3	108.3	117.3
137.5°	68.2	67.2	72.2	74.2	78.2	82.2	85.2	92.3	99.3	106.3	115.3
140°	69.2	68.2	72.2	76.2	78.2	82.2	84.2	91.3	98.3	104.3	112.3
142.5°	70.2	70.2	73.2	77.2	78.2	81.2	84.2	90.3	96.3	101.3	110.3
145°	70.2	70.2	73.2	78.2	79.2	80.2	82.2	88.2	93.3	98.3	106.3
147.5°	70.2	70.2	74.2	78.2	80.2	81.2	80.2	86.2	91.3	95.3	102.3
150°	70.2	70.2	74.2	78.2	81.2	82.2	81.2	84.2	88.2	92.3	98.3
152.5°	71.2	71.2	74.2	78.2	81.2	82.2	82.2	82.2	85.2	89.3	95.3
155°	71.2	72.2	74.2	80.2	82.2	83.2	83.2	83.2	82.2	86.2	91.3
157.5°	74.2	75.2	76.2	81.2	83.2	84.2	84.2	84.2	83.2	82.2	87.2
160°	77.2	78.2	79.2	83.2	85.2	86.2	86.2	86.2	84.2	83.2	83.2
162.5°	80.2	82.2	82.2	84.2	86.2	87.2	87.2	88.2	86.2	85.2	84.2
165°	84.2	85.2	85.2	86.2	88.2	89.3	88.2	89.3	88.2	87.2	86.2
167.5°	87.2	88.2	88.2	89.3	89.3	90.3	90.3	90.3	89.3	88.2	88.2
170°	90.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	90.3	88.2	88.2
172.5°	92.3	93.3	93.3	92.3	92.3	92.3	92.3	91.3	89.3	88.2	88.2
175°	93.3	94.3	94.3	93.3	92.3	92.3	92.3	91.3	89.3	88.2	88.2
177.5°	94.3	95.3	94.3	94.3	92.3	92.3	92.3	92.3	90.3	89.3	88.2
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°	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0
2.5°	1052.9	1040.9	1048.9	1049.9	1054.0	1049.9	1052.9	1049.9	1058.0	1055.0
5°	1048.9	1037.9	1044.9	1045.9	1050.9	1045.9	1050.9	1048.9	1059.0	1056.0
7.5°	1041.9	1032.9	1038.9	1039.9	1045.9	1040.9	1045.9	1043.9	1056.0	1051.9
10°	1031.9	1024.9	1030.9	1031.9	1037.9	1032.9	1036.9	1034.9	1047.9	1041.9
12.5°	1020.9	1014.8	1019.9	1020.9	1027.9	1022.9	1027.9	1025.9	1038.9	1032.9
15°	1004.8	1001.8	1006.8	1008.8	1015.8	1011.8	1016.8	1014.8	1028.9	1020.9
17.5°	988.8	986.8	991.8	993.8	1001.8	996.8	1001.8	999.8	1013.8	1005.8
20°	968.7	967.7	972.7	975.7	982.8	977.7	983.8	981.8	996.8	988.8
22.5°	947.7	947.7	951.7	954.7	961.7	957.7	963.7	962.7	977.7	969.7
25°	924.6	925.6	929.6	933.6	941.6	938.6	943.6	943.6	957.7	947.7
27.5°	898.5	903.5	906.5	911.6	918.6	915.6	920.6	921.6	935.6	925.6
30°	871.4	878.5	881.5	887.5	893.5	893.5	898.5	900.5	914.6	904.5
32.5°	843.4	851.4	855.4	863.4	871.4	871.4	878.5	881.5	895.5	886.5
35°	815.3	826.3	831.3	841.4	849.4	850.4	857.4	861.4	875.5	866.4
37.5°	788.2	802.2	807.3	819.3	826.3	828.3	836.3	841.4	854.4	846.4
40°	760.1	777.2	783.2	796.2	802.2	806.3	814.3	820.3	832.3	825.3
42.5°	733.1	752.1	758.1	772.2	779.2	783.2	791.2	799.2	811.3	804.3
45°	706.0	727.0	734.1	749.1	755.1	761.1	770.2	777.2	788.2	782.2
47.5°	679.9	702.0	709.0	725.0	732.1	739.1	747.1	757.1	767.1	761.1
50°	652.8	675.9	684.9	702.0	708.0	716.0	726.0	735.1	745.1	740.1
52.5°	626.8	650.8	659.8	677.9	684.9	692.9	703.0	713.0	722.0	718.0
55°	598.7	624.8	634.8	653.8	660.9	668.9	679.9	690.9	699.0	695.9
57.5°	572.6	599.7	609.7	630.8	636.8	646.8	657.8	669.9	676.9	673.9
60°	546.5	573.6	585.6	606.7	613.7	623.7	634.8	647.8	653.8	651.8
62.5°	520.5	548.5	561.6	583.6	589.7	600.7	613.7	624.8	630.8	629.8
65°	496.4	523.5	538.5	560.6	566.6	578.6	590.7	602.7	608.7	608.7
67.5°	471.3	500.4	515.4	538.5	543.5	556.6	569.6	581.6	586.6	586.6
70°	448.3	476.3	493.4	516.4	521.5	533.5	547.5	560.6	564.6	565.6
72.5°	425.2	453.3	471.3	495.4	500.4	512.4	525.5	539.5	542.5	543.5
75°	403.1	431.2	449.3	473.3	478.3	490.4	504.4	517.4	521.5	522.5
77.5°	381.1	409.1	429.2	452.3	457.3	469.3	483.4	496.4	499.4	501.4
80°	361.0	388.1	407.1	432.2	437.2	449.3	462.3	475.3	477.3	480.3
82.5°	341.0	368.0	388.1	412.2	417.2	429.2	442.2	455.3	457.3	461.3
85°	321.9	349.0	369.0	392.1	398.1	409.1	423.2	435.2	437.2	440.2
87.5°	304.9	329.9	351.0	373.0	379.1	390.1	404.1	416.2	417.2	421.2
90°	286.8	311.9	332.9	355.0	361.0	371.0	385.1	397.1	399.1	402.1
92.5°	271.8	294.8	316.9	337.9	343.0	354.0	367.0	379.1	381.1	384.1
95°	255.7	278.8	300.8	320.9	325.9	336.9	349.0	361.0	363.0	366.0
97.5°	241.7	263.7	284.8	304.9	309.9	319.9	332.9	344.0	346.0	350.0
100°	228.6	249.7	271.8	289.8	294.8	304.9	316.9	327.9	329.9	333.9
102.5°	216.6	236.7	257.7	274.8	280.8	289.8	301.8	311.9	313.9	316.9
105°	205.6	224.6	244.7	260.7	266.7	275.8	286.8	296.8	298.8	301.8
107.5°	194.5	212.6	231.6	247.7	252.7	260.7	271.8	281.8	283.8	287.8
110°	184.5	202.6	220.6	235.7	241.7	247.7	258.7	267.8	269.8	272.8



TEST NUMBER: P894323

CATALOG NUMBER: 4MB-SC3-RNDU-UNV-CC83-MID-5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	175.5	191.5	209.6	223.6	228.6	235.7	244.7	253.7	255.7	259.7
115°	167.5	182.5	200.6	213.6	217.6	223.6	233.7	241.7	243.7	246.7
117.5°	160.4	173.5	189.5	202.6	207.6	212.6	221.6	228.6	231.6	233.7
120°	154.4	166.5	180.5	192.5	198.6	202.6	210.6	217.6	220.6	222.6
122.5°	148.4	159.4	172.5	183.5	188.5	191.5	200.6	206.6	209.6	212.6
125°	143.4	153.4	165.5	174.5	179.5	182.5	190.5	196.6	199.6	201.6
127.5°	138.4	147.4	159.4	166.5	171.5	173.5	180.5	186.5	189.5	190.5
130°	133.4	142.4	152.4	159.4	163.5	166.5	172.5	176.5	179.5	180.5
132.5°	129.4	137.4	146.4	153.4	157.4	158.4	164.5	168.5	171.5	172.5
135°	126.4	132.4	141.4	147.4	150.4	152.4	157.4	160.4	163.5	164.5
137.5°	122.3	128.4	136.4	140.4	144.4	145.4	150.4	153.4	156.4	157.4
140°	119.3	124.3	131.4	135.4	139.4	139.4	143.4	146.4	149.4	149.4
142.5°	116.3	121.3	127.4	131.4	134.4	134.4	138.4	140.4	143.4	143.4
145°	112.3	117.3	123.3	126.4	129.4	129.4	132.4	134.4	137.4	137.4
147.5°	108.3	113.3	119.3	121.3	124.3	124.3	127.4	129.4	131.4	131.4
150°	103.3	107.3	114.3	117.3	120.3	120.3	122.3	124.3	126.4	126.4
152.5°	99.3	102.3	108.3	112.3	115.3	115.3	117.3	119.3	121.3	121.3
155°	94.3	97.3	102.3	107.3	110.3	111.3	113.3	114.3	116.3	116.3
157.5°	90.3	93.3	97.3	101.3	104.3	106.3	109.3	110.3	111.3	111.3
160°	85.2	87.2	91.3	95.3	98.3	100.3	105.3	106.3	107.3	107.3
162.5°	83.2	83.2	85.2	88.2	91.3	92.3	97.3	101.3	103.3	102.3
165°	84.2	83.2	83.2	84.2	86.2	87.2	90.3	96.3	98.3	97.3
167.5°	86.2	84.2	83.2	83.2	85.2	85.2	88.2	93.3	99.3	97.3
170°	86.2	83.2	81.2	81.2	82.2	82.2	84.2	87.2	93.3	94.3
172.5°	85.2	83.2	80.2	76.2	77.2	76.2	75.2	77.2	78.2	88.2
175°	86.2	83.2	80.2	75.2	73.2	70.2	65.2	61.2	60.2	49.1
177.5°	85.2	82.2	78.2	74.2	72.2	68.2	62.2	55.2	51.1	45.1
180°	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2



TEST NUMBER: P894323
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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	13.93	15.24	14.57	15.91	16.68	17.48	18.79	18.12	19.45	20.22
	3H	15.28	16.48	15.93	17.15	17.95	20.39	21.59	21.05	22.27	23.07
	4H	15.68	16.82	16.36	17.51	18.32	21.87	23.01	22.54	23.69	24.51
	6H	15.90	16.96	16.59	17.66	18.49	23.43	24.49	24.11	25.18	26.02
	8H	15.93	16.95	16.63	17.67	18.50	24.24	25.25	24.93	25.97	26.80
	12H	15.94	16.91	16.64	17.63	18.49	25.11	26.09	25.82	26.80	27.67
4H	2H	15.07	16.21	15.75	16.90	17.71	17.80	18.93	18.47	19.62	20.44
	3H	16.71	17.69	17.40	18.41	19.25	20.95	21.92	21.63	22.64	23.48
	4H	17.28	18.18	17.99	18.91	19.77	22.60	23.50	23.30	24.22	25.08
	6H	17.63	18.42	18.35	19.17	20.04	24.37	25.16	25.09	25.91	26.78
	8H	17.70	18.45	18.42	19.20	20.08	25.30	26.05	26.03	26.80	27.68
	12H	17.73	18.41	18.47	19.18	20.07	26.32	27.01	27.07	27.78	28.67
8H	4H	18.37	19.12	19.10	19.87	20.75	22.77	23.52	23.50	24.27	25.15
	6H	18.98	19.62	19.73	20.41	21.29	24.72	25.36	25.48	26.15	27.03
	8H	19.18	19.75	19.94	20.54	21.44	25.80	26.38	26.57	27.17	28.07
	12H	19.29	19.81	20.06	20.59	21.54	27.02	27.54	27.79	28.32	29.27
12H	4H	18.72	19.41	19.47	20.18	21.07	22.76	23.45	23.51	24.22	25.11
	6H	19.50	20.08	20.27	20.87	21.77	24.75	25.33	25.52	26.12	27.02
	8H	19.83	20.35	20.60	21.13	22.08	25.90	26.42	26.67	27.20	28.15