

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: P894321

Luminaire Tested: 4MB-SC3-RNDU-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894321
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-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with ROUND FROSTED LENS WITH UPLIGHT, 80CRI, 35
CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

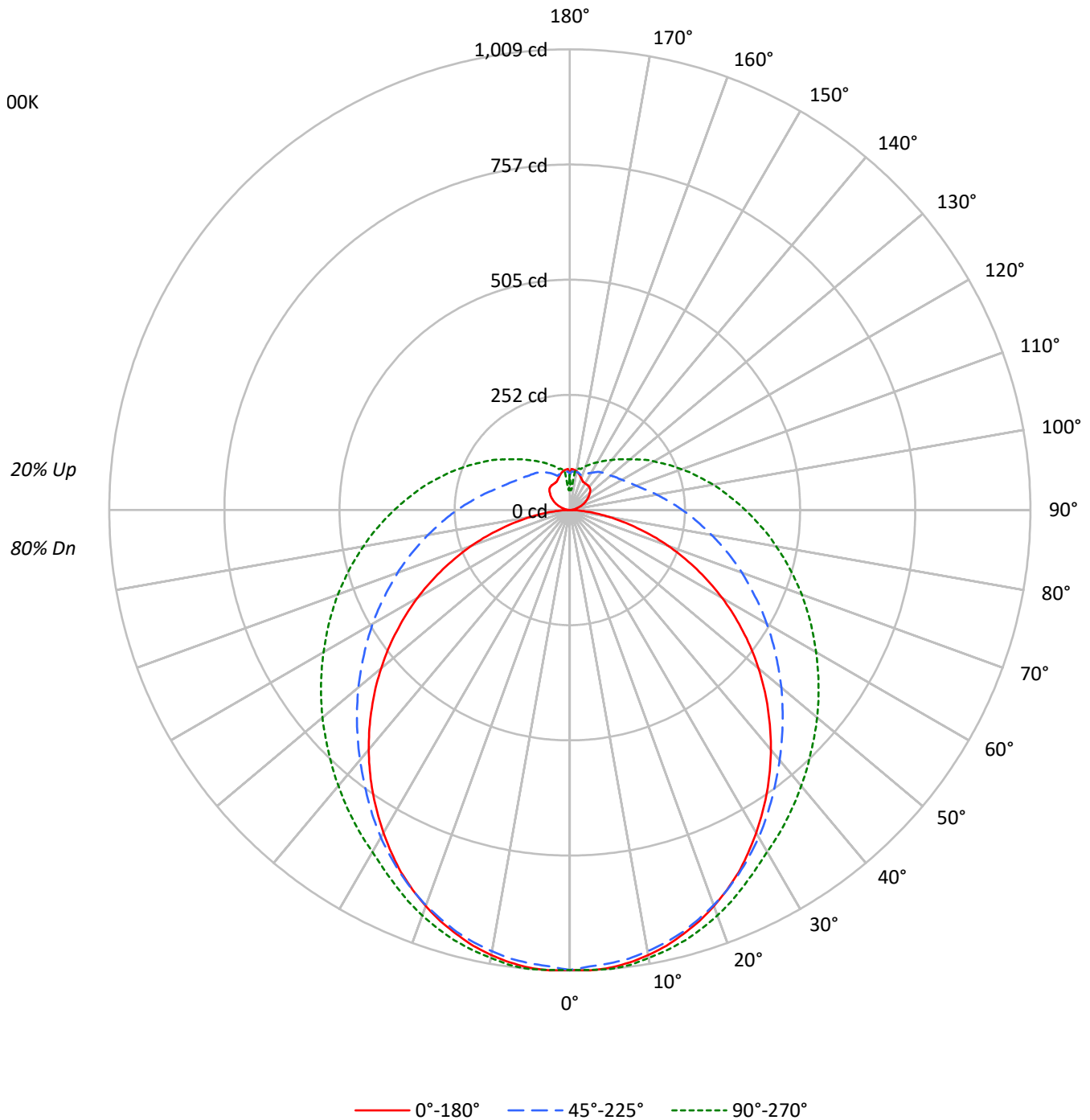
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4237.0 lumens
Efficiency: N/A
Efficacy: 126.5 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

TEST NUMBER: P894321
CATALOG NUMBER: 4MB-SC3-RNDU-UNV-CC83-MID-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P894321
 CATALOG NUMBER: 4MB-SC3-RNDU-UNV-CC83-MID-3500K

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°	7168	7168	7168
5°	7155	6864	6879
10°	7088	6597	6561
15°	6983	6327	6267
20°	6858	6041	5966
25°	6706	5754	5664
30°	6512	5464	5396
35°	6312	5166	5198
40°	6097	4897	5019
45°	5865	4658	4860
50°	5622	4446	4737
55°	5343	4249	4629
60°	5027	4087	4549
65°	4642	3945	4503
70°	4167	3857	4489
75°	3528	3794	4509
80°	2755	3792	4580
85°	1762	3891	4730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5865 cd/sqm



TEST NUMBER: P894321

CATALOG NUMBER: 4MB-SC3-RNDU-UNV-CC83-MID-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	2.2
10°-20°	271.8	6.4
20°-30°	408.0	9.6
30°-40°	490.6	11.6
40°-50°	519.8	12.3
50°-60°	500.6	11.8
60°-70°	443.0	10.5
70°-80°	363.4	8.6
80°-90°	282.0	6.7
90°-100°	218.9	5.2
100°-110°	173.4	4.1
110°-120°	138.1	3.3
120°-130°	109.7	2.6
130°-140°	85.7	2.0
140°-150°	63.1	1.5
150°-160°	41.7	1.0
160°-170°	24.0	0.6
170°-180°	7.7	0.2
0°-30°	775.1	18.3
0°-40°	1265.7	29.9
0°-60°	2286.2	54.0
0°-90°	3374.6	79.6
90°-120°	530.4	12.5
90°-150°	788.9	18.6
90°-180°	862.0	20.3
0°-180°	4237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1006	1007	997	1004	1009	96
15°	961	962	957	971	976	271
25°	875	878	878	900	906	403
35°	753	763	772	812	828	471
45°	613	628	659	722	748	473
55°	463	486	550	632	665	414
65°	307	349	448	542	582	304
75°	153	230	357	457	499	164
85°	34	139	279	380	421	39
90°	1	109	246	345	384	3
95°	5	90	218	312	350	5
105°	17	73	172	255	288	18
115°	34	70	143	208	236	34
125°	50	73	125	172	193	44
135°	63	78	112	144	157	48
145°	67	77	102	124	131	42
155°	68	80	87	105	111	32
165°	80	85	82	82	93	23
175°	89	88	84	70	47	8
180°	78	78	78	78	78	



TEST NUMBER: P894321

CATALOG NUMBER: 4MB-SC3-RNDU-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4
2.5°	1009.3	1008.3	1010.2	1012.1	1017.9	1010.2	1014.1	1003.5	1004.5	1005.4	1000.6
5°	1006.4	1003.5	1006.4	1008.3	1013.1	1007.4	1011.2	999.7	1000.6	1002.6	996.8
7.5°	999.7	996.8	998.7	1000.6	1005.4	999.7	1004.5	993.0	994.9	995.9	991.1
10°	990.1	986.3	988.2	991.1	994.9	990.1	993.9	983.4	984.4	986.3	981.5
12.5°	977.6	973.8	975.7	977.6	982.4	977.6	981.5	970.9	972.8	974.8	970.0
15°	961.3	957.5	959.4	961.3	965.2	962.3	966.1	955.6	957.5	961.3	956.6
17.5°	944.1	938.3	940.3	943.1	947.0	945.1	947.9	939.3	940.3	944.1	939.3
20°	923.0	917.3	919.2	922.0	925.9	924.9	926.8	919.2	921.1	925.9	921.1
22.5°	900.0	894.3	896.2	900.0	902.9	902.9	903.8	898.1	900.0	904.8	901.0
25°	875.1	869.3	871.3	875.1	878.0	878.0	879.9	874.1	877.0	881.8	878.0
27.5°	846.3	843.5	843.5	847.3	849.2	851.1	852.1	847.3	851.1	855.9	853.0
30°	816.6	812.8	814.7	819.5	819.5	823.3	823.3	819.5	824.3	830.0	828.1
32.5°	785.0	782.1	783.1	788.8	788.8	793.6	792.7	790.7	795.5	802.2	800.3
35°	753.4	750.5	751.4	757.2	757.2	762.9	761.0	761.0	765.8	773.5	771.6
37.5°	719.8	717.9	718.9	724.6	724.6	730.4	728.4	729.4	735.1	743.8	742.8
40°	685.3	683.4	685.3	690.1	692.0	696.8	694.9	696.8	704.5	712.1	715.0
42.5°	649.8	648.9	650.8	655.6	657.5	662.3	661.3	664.2	671.9	683.4	687.2
45°	613.4	613.4	615.3	620.1	622.0	627.8	626.8	630.7	640.3	652.7	659.4
47.5°	577.0	578.0	578.9	584.7	584.7	594.3	591.4	597.1	609.6	624.0	631.6
50°	539.6	541.5	542.5	547.3	549.2	557.8	555.9	565.5	578.9	594.3	604.8
52.5°	502.2	504.2	506.1	509.9	511.8	522.4	520.4	532.9	549.2	565.5	577.0
55°	462.9	466.8	467.7	472.5	475.4	485.9	485.9	500.3	517.6	535.8	550.2
57.5°	424.6	428.4	429.4	435.1	439.0	451.4	453.4	469.7	488.8	507.0	524.3
60°	385.3	390.1	391.1	396.8	403.5	416.9	419.8	438.0	459.1	478.3	498.4
62.5°	346.0	350.8	352.7	358.5	369.0	382.4	387.2	408.3	430.4	451.4	473.5
65°	306.7	311.5	314.4	322.0	334.5	348.9	355.6	377.6	402.6	424.6	447.6
67.5°	267.4	273.2	277.0	286.6	302.9	318.2	324.9	349.8	375.7	399.7	423.6
70°	229.1	234.8	239.6	252.1	271.2	286.6	295.2	322.0	348.9	374.8	401.6
72.5°	191.7	197.4	204.2	219.5	240.6	257.8	267.4	295.2	324.9	350.8	378.6
75°	153.4	160.1	167.7	188.8	212.8	230.0	240.6	270.3	301.0	326.8	356.6
77.5°	118.9	125.6	137.1	158.1	185.0	204.2	215.7	247.3	278.9	304.8	335.5
80°	87.2	93.9	109.3	132.3	160.1	178.3	192.7	225.2	257.8	284.7	315.3
82.5°	59.4	66.1	84.3	109.3	139.0	157.2	170.6	205.1	237.7	265.5	296.2
85°	34.5	44.1	63.3	90.1	120.8	139.0	152.4	187.9	219.5	247.3	278.9
87.5°	15.3	26.8	47.9	74.8	105.4	122.7	137.1	169.6	203.2	231.0	262.6
90°	1.0	15.3	37.4	63.3	93.0	109.3	122.7	155.3	186.9	215.7	246.3
92.5°	1.9	10.5	30.7	54.6	82.4	98.7	112.1	142.8	172.5	202.2	232.0
95°	4.8	10.5	26.8	48.9	74.8	90.1	102.6	132.3	160.1	188.8	217.6
97.5°	7.7	11.5	25.9	46.0	69.0	83.4	94.9	122.7	150.5	176.4	205.1
100°	10.5	14.4	25.9	44.1	65.2	78.6	89.1	115.0	140.9	164.9	193.6
102.5°	13.4	17.3	27.8	44.1	63.3	74.8	85.3	109.3	133.2	155.3	182.1
105°	17.3	20.1	29.7	44.1	61.3	72.8	81.5	103.5	126.5	147.6	171.6
107.5°	21.1	23.0	31.6	45.0	61.3	70.9	79.6	99.7	120.8	139.9	162.9
110°	25.9	26.8	34.5	47.0	61.3	70.0	77.6	96.8	116.0	134.2	155.3



TEST NUMBER: P894321

CATALOG NUMBER: 4MB-SC3-RNDU-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	29.7	29.7	37.4	48.9	61.3	70.0	76.7	93.9	112.1	128.4	148.6
115°	34.5	34.5	40.3	50.8	62.3	70.0	76.7	93.0	109.3	123.6	142.8
117.5°	38.3	38.3	44.1	52.7	64.2	70.9	76.7	91.1	106.4	119.8	137.1
120°	42.2	42.2	46.0	54.6	65.2	71.9	76.7	90.1	103.5	116.9	132.3
122.5°	46.0	46.0	48.9	57.5	66.1	71.9	76.7	89.1	101.6	113.1	127.5
125°	49.8	49.8	51.8	59.4	68.1	72.8	77.6	89.1	100.6	110.2	124.6
127.5°	53.7	52.7	55.6	62.3	69.0	73.8	78.6	89.1	98.7	108.3	120.8
130°	56.5	55.6	59.4	64.2	70.9	74.8	78.6	88.2	97.8	106.4	116.9
132.5°	60.4	58.5	63.3	65.2	72.8	76.7	79.6	88.2	96.8	104.5	115.0
135°	63.3	61.3	66.1	68.1	73.8	77.6	80.5	88.2	95.8	103.5	112.1
137.5°	65.2	64.2	69.0	70.9	74.8	78.6	81.5	88.2	94.9	101.6	110.2
140°	66.1	65.2	69.0	72.8	74.8	78.6	80.5	87.2	93.9	99.7	107.3
142.5°	67.1	67.1	70.0	73.8	74.8	77.6	80.5	86.3	92.0	96.8	105.4
145°	67.1	67.1	70.0	74.8	75.7	76.7	78.6	84.3	89.1	93.9	101.6
147.5°	67.1	67.1	70.9	74.8	76.7	77.6	76.7	82.4	87.2	91.1	97.8
150°	67.1	67.1	70.9	74.8	77.6	78.6	77.6	80.5	84.3	88.2	93.9
152.5°	68.1	68.1	70.9	74.8	77.6	78.6	78.6	78.6	81.5	85.3	91.1
155°	68.1	69.0	70.9	76.7	78.6	79.6	79.6	79.6	78.6	82.4	87.2
157.5°	70.9	71.9	72.8	77.6	79.6	80.5	80.5	80.5	79.6	78.6	83.4
160°	73.8	74.8	75.7	79.6	81.5	82.4	82.4	82.4	80.5	79.6	79.6
162.5°	76.7	78.6	78.6	80.5	82.4	83.4	83.4	84.3	82.4	81.5	80.5
165°	80.5	81.5	81.5	82.4	84.3	85.3	84.3	85.3	84.3	83.4	82.4
167.5°	83.4	84.3	84.3	85.3	85.3	86.3	86.3	86.3	85.3	84.3	84.3
170°	86.3	87.2	87.2	87.2	87.2	87.2	87.2	87.2	86.3	84.3	84.3
172.5°	88.2	89.1	89.1	88.2	88.2	88.2	88.2	87.2	85.3	84.3	84.3
175°	89.1	90.1	90.1	89.1	88.2	88.2	88.2	87.2	85.3	84.3	84.3
177.5°	90.1	91.1	90.1	90.1	88.2	88.2	88.2	88.2	86.3	85.3	84.3
180°	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6



TEST NUMBER: P894321

CATALOG NUMBER: 4MB-SC3-RNDU-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4	1007.4
2.5°	1006.4	994.9	1002.6	1003.5	1007.4	1003.5	1006.4	1003.5	1011.2	1008.3
5°	1002.6	992.0	998.7	999.7	1004.5	999.7	1004.5	1002.6	1012.1	1009.3
7.5°	995.9	987.2	993.0	993.9	999.7	994.9	999.7	997.8	1009.3	1005.4
10°	986.3	979.6	985.3	986.3	992.0	987.2	991.1	989.1	1001.6	995.9
12.5°	975.7	970.0	974.8	975.7	982.4	977.6	982.4	980.5	993.0	987.2
15°	960.4	957.5	962.3	964.2	970.9	967.1	971.9	970.0	983.4	975.7
17.5°	945.1	943.1	947.9	949.8	957.5	952.7	957.5	955.6	969.0	961.3
20°	925.9	924.9	929.7	932.6	939.3	934.5	940.3	938.3	952.7	945.1
22.5°	905.8	905.8	909.6	912.5	919.2	915.3	921.1	920.1	934.5	926.8
25°	883.7	884.7	888.5	892.3	900.0	897.1	901.9	901.9	915.3	905.8
27.5°	858.8	863.6	866.5	871.3	878.0	875.1	879.9	880.8	894.3	884.7
30°	832.9	839.6	842.5	848.2	854.0	854.0	858.8	860.7	874.1	864.5
32.5°	806.1	813.7	817.6	825.2	832.9	832.9	839.6	842.5	855.9	847.3
35°	779.2	789.8	794.6	804.2	811.8	812.8	819.5	823.3	836.7	828.1
37.5°	753.4	766.8	771.6	783.1	789.8	791.7	799.4	804.2	816.6	808.9
40°	726.5	742.8	748.6	761.0	766.8	770.6	778.3	784.0	795.5	788.8
42.5°	700.6	718.9	724.6	738.0	744.7	748.6	756.2	763.9	775.4	768.7
45°	674.8	694.9	701.6	716.0	721.7	727.5	736.1	742.8	753.4	747.6
47.5°	649.8	670.9	677.6	693.0	699.7	706.4	714.1	723.6	733.2	727.5
50°	624.0	646.0	654.6	670.9	676.7	684.3	693.9	702.6	712.1	707.4
52.5°	599.0	622.0	630.7	647.9	654.6	662.3	671.9	681.5	690.1	686.3
55°	572.2	597.1	606.7	624.9	631.6	639.3	649.8	660.4	668.1	665.2
57.5°	547.3	573.2	582.8	602.9	608.6	618.2	628.8	640.3	647.0	644.1
60°	522.4	548.2	559.7	579.9	586.6	596.2	606.7	619.2	624.9	623.0
62.5°	497.4	524.3	536.7	557.8	563.6	574.1	586.6	597.1	602.9	601.9
65°	474.4	500.3	514.7	535.8	541.5	553.0	564.5	576.0	581.8	581.8
67.5°	450.5	478.3	492.7	514.7	519.5	532.0	544.4	555.9	560.7	560.7
70°	428.4	455.3	471.6	493.6	498.4	509.9	523.3	535.8	539.6	540.6
72.5°	406.4	433.2	450.5	473.5	478.3	489.8	502.2	515.7	518.5	519.5
75°	385.3	412.1	429.4	452.4	457.2	468.7	482.1	494.6	498.4	499.4
77.5°	364.2	391.1	410.2	432.3	437.1	448.6	462.0	474.4	477.3	479.2
80°	345.0	370.9	389.1	413.1	417.9	429.4	441.9	454.3	456.2	459.1
82.5°	325.9	351.8	370.9	393.9	398.7	410.2	422.7	435.1	437.1	440.9
85°	307.7	333.5	352.7	374.8	380.5	391.1	404.5	416.0	417.9	420.8
87.5°	291.4	315.3	335.5	356.6	362.3	372.8	386.3	397.8	398.7	402.6
90°	274.1	298.1	318.2	339.3	345.0	354.6	368.1	379.6	381.5	384.3
92.5°	259.7	281.8	302.9	323.0	327.8	338.3	350.8	362.3	364.2	367.1
95°	244.4	266.5	287.5	306.7	311.5	322.0	333.5	345.0	347.0	349.8
97.5°	231.0	252.1	272.2	291.4	296.2	305.8	318.2	328.8	330.7	334.5
100°	218.5	238.7	259.7	277.0	281.8	291.4	302.9	313.4	315.3	319.2
102.5°	207.0	226.2	246.3	262.6	268.4	277.0	288.5	298.1	300.0	302.9
105°	196.5	214.7	233.9	249.2	255.0	263.6	274.1	283.7	285.6	288.5
107.5°	185.9	203.2	221.4	236.7	241.5	249.2	259.7	269.3	271.2	275.1
110°	176.4	193.6	210.9	225.2	231.0	236.7	247.3	255.9	257.8	260.7



TEST NUMBER: P894321

CATALOG NUMBER: 4MB-SC3-RNDU-UNV-CC83-MID-3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	167.7	183.1	200.3	213.7	218.5	225.2	233.9	242.5	244.4	248.2
115°	160.1	174.4	191.7	204.2	208.0	213.7	223.3	231.0	232.9	235.8
117.5°	153.4	165.8	181.2	193.6	198.4	203.2	211.8	218.5	221.4	223.3
120°	147.6	159.1	172.5	184.0	189.8	193.6	201.3	208.0	210.9	212.8
122.5°	141.9	152.4	164.9	175.4	180.2	183.1	191.7	197.4	200.3	203.2
125°	137.1	146.6	158.1	166.8	171.6	174.4	182.1	187.9	190.7	192.7
127.5°	132.3	140.9	152.4	159.1	163.9	165.8	172.5	178.3	181.2	182.1
130°	127.5	136.1	145.7	152.4	156.2	159.1	164.9	168.7	171.6	172.5
132.5°	123.6	131.3	139.9	146.6	150.5	151.4	157.2	161.0	163.9	164.9
135°	120.8	126.5	135.1	140.9	143.8	145.7	150.5	153.4	156.2	157.2
137.5°	116.9	122.7	130.4	134.2	138.0	139.0	143.8	146.6	149.5	150.5
140°	114.1	118.9	125.6	129.4	133.2	133.2	137.1	139.9	142.8	142.8
142.5°	111.2	116.0	121.7	125.6	128.4	128.4	132.3	134.2	137.1	137.1
145°	107.3	112.1	117.9	120.8	123.6	123.6	126.5	128.4	131.3	131.3
147.5°	103.5	108.3	114.1	116.0	118.9	118.9	121.7	123.6	125.6	125.6
150°	98.7	102.6	109.3	112.1	115.0	115.0	116.9	118.9	120.8	120.8
152.5°	94.9	97.8	103.5	107.3	110.2	110.2	112.1	114.1	116.0	116.0
155°	90.1	93.0	97.8	102.6	105.4	106.4	108.3	109.3	111.2	111.2
157.5°	86.3	89.1	93.0	96.8	99.7	101.6	104.5	105.4	106.4	106.4
160°	81.5	83.4	87.2	91.1	93.9	95.8	100.6	101.6	102.6	102.6
162.5°	79.6	79.6	81.5	84.3	87.2	88.2	93.0	96.8	98.7	97.8
165°	80.5	79.6	79.6	80.5	82.4	83.4	86.3	92.0	93.9	93.0
167.5°	82.4	80.5	79.6	79.6	81.5	81.5	84.3	89.1	94.9	93.0
170°	82.4	79.6	77.6	77.6	78.6	78.6	80.5	83.4	89.1	90.1
172.5°	81.5	79.6	76.7	72.8	73.8	72.8	71.9	73.8	74.8	84.3
175°	82.4	79.6	76.7	71.9	70.0	67.1	62.3	58.5	57.5	47.0
177.5°	81.5	78.6	74.8	70.9	69.0	65.2	59.4	52.7	48.9	43.1
180°	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6



TEST NUMBER: P894321
 CATALOG NUMBER: 4MB-SC3-RNDU-UNV-CC83-MID-3500K

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	13.77	15.08	14.42	15.75	16.52	17.32	18.63	17.96	19.30	20.06
	3H	15.12	16.32	15.78	17.00	17.80	20.24	21.43	20.89	22.11	22.91
	4H	15.53	16.67	16.20	17.35	18.17	21.71	22.85	22.38	23.54	24.35
	6H	15.74	16.80	16.43	17.50	18.33	23.27	24.33	23.96	25.03	25.86
	8H	15.78	16.79	16.47	17.51	18.35	24.08	25.10	24.78	25.81	26.65
	12H	15.78	16.76	16.48	17.47	18.33	24.96	25.93	25.66	26.65	27.51
4H	2H	14.91	16.05	15.59	16.74	17.55	17.64	18.78	18.31	19.46	20.28
	3H	16.56	17.53	17.25	18.26	19.09	20.79	21.77	21.48	22.49	23.32
	4H	17.13	18.03	17.83	18.75	19.61	22.44	23.34	23.14	24.06	24.93
	6H	17.47	18.27	18.19	19.02	19.88	24.21	25.01	24.93	25.76	26.62
	8H	17.54	18.29	18.27	19.04	19.92	25.14	25.90	25.87	26.64	27.53
	12H	17.57	18.25	18.32	19.02	19.91	26.17	26.85	26.91	27.62	28.51
8H	4H	18.21	18.96	18.94	19.71	20.59	22.61	23.36	23.34	24.11	25.00
	6H	18.82	19.46	19.58	20.25	21.13	24.56	25.21	25.32	25.99	26.88
	8H	19.02	19.60	19.78	20.38	21.28	25.65	26.23	26.41	27.01	27.91
	12H	19.13	19.65	19.90	20.43	21.38	26.86	27.38	27.63	28.16	29.12
12H	4H	18.57	19.25	19.31	20.02	20.91	22.61	23.29	23.36	24.06	24.95
	6H	19.34	19.92	20.11	20.71	21.61	24.60	25.17	25.36	25.96	26.86
	8H	19.67	20.19	20.44	20.97	21.93	25.74	26.26	26.51	27.04	27.99