

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: P892960

Luminaire Tested: 2MB-SC3-ASML-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ASML-UNV-CC83-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 3500K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

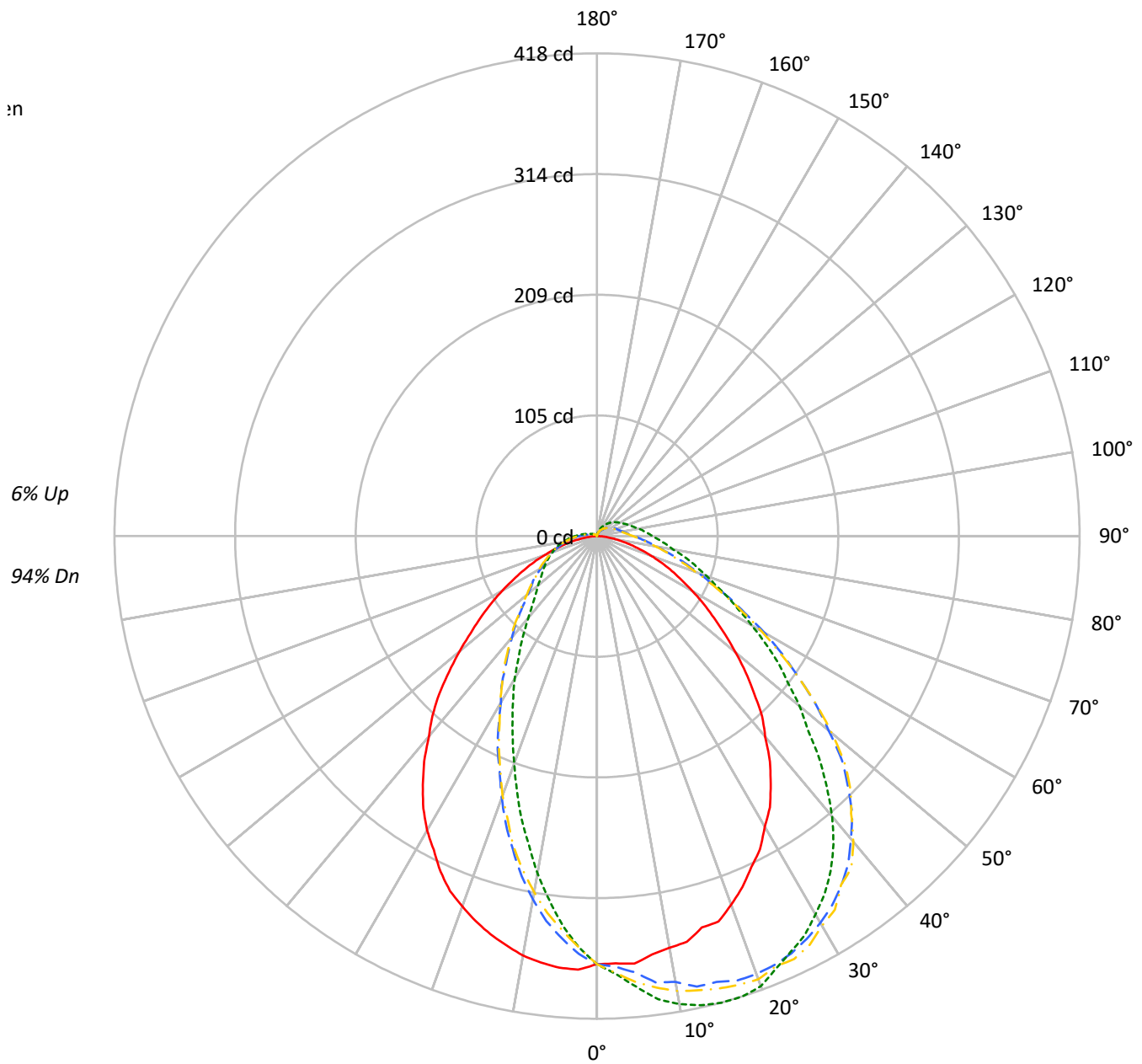
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 924.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 6.9
Input Voltage (V): 120
Input Current (A_{in}): 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



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	97	97	97	94
1	107	103	98	94	104	100	96	92	95	91	88	90	87	85	85	83	81	81	81	81	79
2	98	90	83	78	95	88	82	76	83	78	74	79	75	71	75	72	69	69	69	69	66
3	90	80	72	65	87	78	70	64	74	68	63	70	65	61	67	63	59	59	59	59	57
4	83	71	63	56	80	69	61	55	66	59	54	63	57	53	60	55	51	51	51	51	49
5	76	64	55	49	74	62	54	48	60	53	47	57	51	46	55	49	45	45	45	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	44	40	40	40	40	38
7	66	53	44	38	64	51	43	38	49	42	37	48	41	36	46	40	36	36	36	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	32	32	32	30
9	57	44	36	31	56	43	36	31	42	35	30	40	34	30	39	33	29	29	29	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	31	27	36	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7591	7591	7591	7591
5°	7598	7735	7670	6687
10°	7442	7900	7586	5698
15°	7315	7873	7440	4765
20°	7238	7717	7268	3898
25°	6940	7359	7036	3207
30°	6627	7034	6711	2649
35°	6277	6637	6293	2158
40°	5752	6071	5750	1771
45°	5238	5360	5265	1508
50°	4633	4678	4610	1363
55°	4054	4097	4028	1251
60°	3525	3495	3496	1182
65°	3055	3010	2983	1124
70°	2556	2637	2469	1076
75°	2036	2397	1985	1036
80°	1511	2157	1372	964
85°	941	2085	764	902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 7330 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	3.8
10°-20°	96.8	10.5
20°-30°	139.3	15.1
30°-40°	158.0	17.1
40°-50°	151.0	16.3
50°-60°	122.7	13.3
60°-70°	85.6	9.3
70°-80°	53.0	5.7
80°-90°	30.4	3.3
90°-100°	18.2	2.0
100°-110°	11.9	1.3
110°-120°	8.4	0.9
120°-130°	6.1	0.7
130°-140°	4.0	0.4
140°-150°	2.3	0.2
150°-160°	1.0	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	270.9	29.3
0°-40°	428.9	46.4
0°-60°	702.7	76.1
0°-90°	871.8	94.4
90°-120°	38.5	4.2
90°-150°	50.8	5.5
90°-180°	52.0	5.6
0°-180°	924.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	371	371	371	371	371	
5°	372	392	375	339	372	35
15°	351	418	357	253	351	100
25°	316	397	321	173	316	146
35°	262	353	263	115	262	163
45°	192	272	193	77	192	148
55°	124	192	123	59	124	111
65°	72	125	70	47	72	71
75°	32	84	31	36	32	34
85°	7	57	6	24	7	8
90°	0	48	0	19	0	0
95°	0	42	0	14	0	0
105°	0	32	0	8	0	0
115°	0	26	0	4	0	0
125°	0	21	0	3	0	0
135°	0	16	0	2	0	0
145°	0	12	0	2	0	0
155°	0	7	0	1	0	0
165°	0	3	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7
2.5°	370.4	373.2	373.4	382.1	379.6	382.9	378.7	379.5	375.8	374.9	362.2
5°	371.7	377.6	379.2	394.3	391.8	393.5	387.8	383.7	375.2	370.1	349.7
7.5°	365.4	381.0	389.8	400.5	404.5	405.8	394.3	386.6	372.5	360.0	336.1
10°	361.9	383.5	392.0	408.0	411.5	409.0	400.0	387.4	368.9	348.8	319.4
12.5°	359.9	384.8	399.6	416.0	416.1	413.5	402.9	389.3	363.0	336.6	301.7
15°	350.9	384.6	399.7	416.4	418.2	416.5	405.7	388.0	356.9	321.6	281.3
17.5°	350.0	384.0	403.6	421.1	418.1	416.9	407.4	387.4	349.6	306.3	262.1
20°	339.8	382.6	403.6	415.8	414.8	415.3	408.5	386.5	341.2	289.8	241.1
22.5°	329.0	381.0	401.9	411.1	405.3	414.2	403.6	384.2	332.7	272.5	220.2
25°	316.2	378.5	398.6	404.6	397.2	404.1	404.0	380.7	320.6	253.9	203.7
27.5°	305.9	374.5	393.3	402.3	389.7	395.6	399.0	376.4	306.3	235.6	184.3
30°	290.5	369.4	386.9	388.2	378.3	385.8	389.7	371.1	294.2	214.9	166.5
32.5°	278.7	363.6	379.0	377.2	367.2	377.2	383.5	365.7	279.9	196.7	154.0
35°	262.2	356.5	369.1	359.6	353.0	361.3	368.7	360.0	262.9	177.2	138.0
37.5°	246.2	350.3	357.4	345.5	336.5	345.7	362.0	349.4	245.8	161.8	126.1
40°	226.6	336.1	342.0	325.8	316.8	330.4	345.4	340.1	226.5	145.8	114.6
42.5°	211.8	325.6	327.3	305.2	294.5	308.9	325.9	327.0	210.9	131.3	104.4
45°	192.3	310.8	307.6	283.3	272.2	285.1	310.6	313.5	193.3	118.8	94.4
47.5°	174.7	294.2	288.1	259.7	247.1	262.6	290.8	298.5	173.6	107.3	85.1
50°	156.4	275.8	262.1	237.6	229.2	236.8	265.7	278.3	155.6	95.9	77.9
52.5°	139.6	255.4	238.4	216.4	208.1	214.4	239.4	258.3	137.8	86.3	71.6
55°	123.8	235.0	213.0	193.6	191.9	193.9	212.7	234.4	123.0	77.8	67.6
57.5°	109.7	210.2	190.2	175.9	172.9	174.4	187.4	209.8	108.6	69.3	61.8
60°	95.5	184.9	167.6	156.6	154.9	156.1	164.5	185.7	94.7	62.2	56.3
62.5°	82.7	159.4	144.1	140.0	138.7	138.7	142.3	161.7	81.6	54.9	52.2
65°	71.6	137.5	126.0	124.4	124.8	124.7	122.5	135.0	69.9	48.4	48.6
67.5°	60.5	114.3	107.9	109.9	111.3	110.7	106.1	112.3	59.0	42.6	45.3
70°	50.1	94.4	93.2	97.6	101.0	97.8	91.2	91.8	48.4	36.9	41.0
72.5°	40.4	76.4	81.9	88.0	91.3	87.8	78.5	75.9	39.0	31.7	37.1
75°	31.8	61.4	70.3	79.3	83.5	79.0	68.3	59.2	31.0	26.7	34.0
77.5°	24.3	48.7	60.1	70.5	74.7	70.8	59.5	46.2	22.7	22.5	30.6
80°	17.4	38.5	53.3	63.4	67.1	63.4	51.6	36.5	15.8	18.0	26.9
82.5°	11.4	29.7	46.4	57.7	61.8	57.2	44.8	28.2	10.1	14.6	24.3
85°	6.9	23.5	40.4	51.8	56.6	52.1	39.2	21.4	5.6	11.2	21.1
87.5°	3.0	18.2	36.1	47.8	52.1	47.9	35.0	16.8	2.3	8.7	18.1
90°	0.2	14.4	31.8	44.1	47.8	43.9	31.0	13.6	0.0	6.3	15.5
92.5°	0.2	12.4	29.1	40.8	45.0	40.7	27.9	11.2	0.0	4.6	13.1
95°	0.4	10.4	26.5	38.2	41.6	37.9	25.5	9.6	0.0	3.2	11.0
97.5°	0.4	9.5	24.3	35.7	39.5	35.4	23.3	8.6	0.0	2.3	9.0
100°	0.2	8.7	22.6	33.3	36.8	33.0	21.6	7.8	0.0	1.5	7.3
102.5°	0.2	8.1	21.1	31.2	34.0	30.8	20.2	7.3	0.0	1.2	5.9
105°	0.2	7.8	19.8	28.8	32.0	28.8	18.9	6.8	0.0	1.0	4.6
107.5°	0.2	7.3	18.8	27.4	30.1	27.2	18.0	6.4	0.0	1.0	3.8
110°	0.2	6.9	18.0	25.5	28.5	25.7	17.1	5.8	0.0	0.6	3.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.2	6.3	17.1	24.2	27.1	24.3	16.4	5.3	0.0	0.6	2.7
115°	0.2	5.7	16.4	23.3	25.5	23.1	15.7	4.7	0.0	0.5	2.4
117.5°	0.2	5.3	15.9	22.2	24.4	22.0	15.1	4.5	0.0	0.5	2.3
120°	0.2	5.1	15.2	21.1	22.8	20.9	14.3	4.2	0.0	0.5	2.2
122.5°	0.2	4.9	14.6	20.2	22.0	20.0	13.7	4.1	0.0	0.4	1.9
125°	0.2	4.6	13.7	19.1	20.8	18.8	12.6	4.0	0.0	0.2	1.7
127.5°	0.2	4.4	12.9	18.2	19.8	18.0	11.9	3.9	0.0	0.2	1.6
130°	0.2	4.2	11.8	17.1	18.7	16.9	11.0	3.9	0.0	0.2	1.5
132.5°	0.2	4.1	10.6	16.0	17.7	15.8	10.2	3.8	0.0	0.2	1.2
135°	0.2	4.0	9.3	14.9	16.5	14.7	9.5	3.6	0.0	0.2	1.1
137.5°	0.2	3.8	8.3	13.7	15.3	13.5	9.0	3.4	0.0	0.2	1.0
140°	0.2	3.5	7.4	12.7	14.1	12.4	8.3	3.2	0.0	0.1	0.7
142.5°	0.2	3.2	6.7	11.5	12.9	11.3	7.4	2.7	0.0	0.1	0.7
145°	0.2	2.8	6.1	10.1	11.7	10.1	6.9	2.4	0.0	0.1	0.6
147.5°	0.2	2.5	5.5	8.5	10.6	9.2	6.2	2.1	0.0	0.1	0.5
150°	0.2	2.3	4.7	7.2	9.3	8.1	5.7	1.8	0.0	0.0	0.4
152.5°	0.2	2.1	4.1	5.9	8.4	7.4	5.1	1.6	0.0	0.0	0.2
155°	0.4	1.9	3.5	5.2	7.3	6.4	4.2	1.3	0.0	0.0	0.2
157.5°	0.4	1.7	2.9	4.2	6.4	5.6	3.4	1.1	0.0	0.0	0.1
160°	0.4	1.6	2.4	3.3	5.3	4.6	2.8	0.8	0.0	0.0	0.1
162.5°	0.4	1.5	2.1	2.4	4.4	3.6	2.2	0.6	0.0	0.0	0.1
165°	0.4	1.2	1.8	1.7	3.4	2.8	1.7	0.4	0.0	0.0	0.0
167.5°	0.4	1.1	1.5	1.2	2.5	2.1	1.2	0.2	0.0	0.0	0.0
170°	0.4	0.8	1.2	0.8	0.7	1.3	0.7	0.1	0.0	0.0	0.0
172.5°	0.4	0.7	1.0	0.6	0.2	0.7	0.4	0.0	0.0	0.0	0.0
175°	0.4	0.6	0.6	0.4	0.1	0.2	0.0	0.0	0.0	0.0	0.0
177.5°	0.4	0.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



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CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-LOW-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	370.7	370.7	370.7	370.7	370.7	370.7
2.5°	360.5	356.5	352.9	356.8	359.6	370.4
5°	342.9	338.7	339.2	342.7	352.0	371.7
7.5°	324.7	317.7	319.4	329.2	343.0	365.4
10°	303.2	296.8	298.4	313.2	332.6	361.9
12.5°	284.1	273.2	282.5	296.4	320.5	359.9
15°	261.6	253.1	258.1	278.7	308.8	350.9
17.5°	237.3	230.8	236.7	257.2	294.5	350.0
20°	218.6	209.5	216.6	239.1	276.8	339.8
22.5°	197.6	190.7	198.1	218.9	258.7	329.0
25°	180.4	173.1	180.5	201.1	242.7	316.2
27.5°	163.6	157.0	163.6	182.6	226.8	305.9
30°	148.9	142.5	149.3	167.5	208.2	290.5
32.5°	135.2	127.0	135.7	153.3	191.8	278.7
35°	121.0	114.8	121.4	140.9	173.6	262.2
37.5°	109.3	102.8	110.6	127.3	158.2	246.2
40°	98.1	92.4	98.6	116.4	145.1	226.6
42.5°	89.3	83.6	89.9	106.5	131.8	211.8
45°	80.8	76.6	81.7	95.5	118.5	192.3
47.5°	74.7	71.0	75.3	87.5	107.3	174.7
50°	69.3	66.8	69.8	79.5	95.8	156.4
52.5°	64.6	62.0	65.6	73.3	86.7	139.6
55°	60.9	58.6	61.3	67.5	77.6	123.8
57.5°	56.9	55.5	57.5	61.3	70.4	109.7
60°	54.0	52.4	54.6	57.7	62.3	95.5
62.5°	50.7	49.9	51.2	53.7	56.1	82.7
65°	47.8	46.6	48.3	49.2	48.9	71.6
67.5°	44.7	44.3	45.3	45.4	43.6	60.5
70°	41.4	41.2	42.4	41.6	37.9	50.1
72.5°	38.7	38.7	39.5	38.0	33.0	40.4
75°	35.8	36.1	36.7	35.0	27.8	31.8
77.5°	33.1	33.4	33.5	31.2	23.3	24.3
80°	30.1	30.0	31.2	28.3	18.9	17.4
82.5°	27.4	26.9	27.7	24.8	15.3	11.4
85°	24.4	24.5	25.0	21.6	12.3	6.9
87.5°	22.0	22.0	22.5	19.1	9.2	3.0
90°	19.1	18.8	19.5	16.1	6.9	0.2
92.5°	16.6	16.6	17.1	13.8	5.1	0.2
95°	14.2	14.3	14.7	11.4	3.9	0.4
97.5°	12.1	12.3	12.7	9.7	2.8	0.4
100°	10.3	10.4	10.7	7.8	2.2	0.2
102.5°	8.6	9.0	9.0	6.4	1.7	0.2
105°	7.3	7.8	7.5	5.2	1.6	0.2
107.5°	6.1	6.6	6.6	4.2	1.6	0.2
110°	5.0	5.7	5.6	3.6	1.2	0.2



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CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-LOW-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	4.2	4.9	4.5	3.2	1.2	0.2
115°	3.6	4.2	4.0	2.9	1.1	0.2
117.5°	3.3	3.6	3.6	2.8	1.1	0.2
120°	3.0	3.4	3.3	2.7	1.1	0.2
122.5°	2.8	3.0	3.0	2.4	1.0	0.2
125°	2.7	2.8	2.9	2.2	1.0	0.2
127.5°	2.5	2.8	2.8	2.1	0.8	0.2
130°	2.3	2.5	2.5	1.9	0.8	0.2
132.5°	2.1	2.3	2.3	1.8	0.8	0.2
135°	1.9	2.2	2.2	1.7	0.8	0.2
137.5°	1.8	1.9	1.9	1.6	0.8	0.2
140°	1.6	1.8	1.8	1.5	0.8	0.2
142.5°	1.5	1.7	1.7	1.3	0.7	0.2
145°	1.3	1.5	1.6	1.2	0.7	0.2
147.5°	1.1	1.3	1.5	1.1	0.7	0.2
150°	0.8	1.2	1.2	1.1	0.7	0.2
152.5°	0.6	1.1	1.1	1.0	0.6	0.2
155°	0.5	0.8	1.0	0.8	0.6	0.4
157.5°	0.4	0.7	0.8	0.8	0.6	0.4
160°	0.2	0.6	0.7	0.7	0.5	0.4
162.5°	0.1	0.5	0.6	0.7	0.5	0.4
165°	0.0	0.4	0.5	0.6	0.5	0.4
167.5°	0.0	0.2	0.4	0.5	0.4	0.4
170°	0.0	0.1	0.2	0.4	0.4	0.4
172.5°	0.0	0.0	0.1	0.2	0.2	0.4
175°	0.0	0.0	0.0	0.1	0.2	0.4
177.5°	0.0	0.0	0.0	0.1	0.2	0.4
180°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P892960
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-LOW-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	15.93	17.39	16.38	17.82	18.27	18.09	19.55	18.55	19.98	20.44
	3H	16.75	18.07	17.22	18.51	19.01	19.76	21.08	20.23	21.52	22.02
	4H	16.95	18.20	17.44	18.66	19.17	20.57	21.82	21.06	22.28	22.79
	6H	17.05	18.20	17.55	18.67	19.20	21.41	22.56	21.91	23.03	23.56
	8H	17.05	18.15	17.56	18.65	19.18	21.84	22.94	22.36	23.44	23.97
	12H	17.04	18.09	17.56	18.58	19.14	22.33	23.38	22.85	23.88	24.44
4H	2H	16.35	17.60	16.84	18.06	18.57	18.46	19.71	18.95	20.17	20.68
	3H	17.45	18.49	17.95	19.00	19.53	20.32	21.36	20.82	21.87	22.40
	4H	17.79	18.74	18.31	19.25	19.82	21.26	22.21	21.78	22.73	23.30
	6H	17.98	18.81	18.52	19.36	19.94	22.26	23.09	22.80	23.63	24.22
	8H	18.01	18.79	18.56	19.33	19.93	22.79	23.57	23.34	24.11	24.71
	12H	18.02	18.72	18.58	19.29	19.89	23.39	24.09	23.96	24.67	25.26
8H	4H	18.11	18.89	18.66	19.43	20.02	21.41	22.19	21.96	22.73	23.32
	6H	18.43	19.08	19.01	19.67	20.27	22.54	23.19	23.12	23.78	24.38
	8H	18.52	19.11	19.11	19.71	20.32	23.18	23.77	23.78	24.37	24.99
	12H	18.57	19.10	19.17	19.68	20.37	23.94	24.47	24.54	25.05	25.74
12H	4H	18.18	18.88	18.75	19.46	20.06	21.40	22.10	21.97	22.68	23.28
	6H	18.56	19.15	19.15	19.75	20.36	22.55	23.14	23.15	23.74	24.35
	8H	18.72	19.24	19.31	19.83	20.51	23.25	23.78	23.85	24.36	25.05