

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: P892969

Luminaire Tested: 2MB-SC3-ASML-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892969
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-CC93-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 3500K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

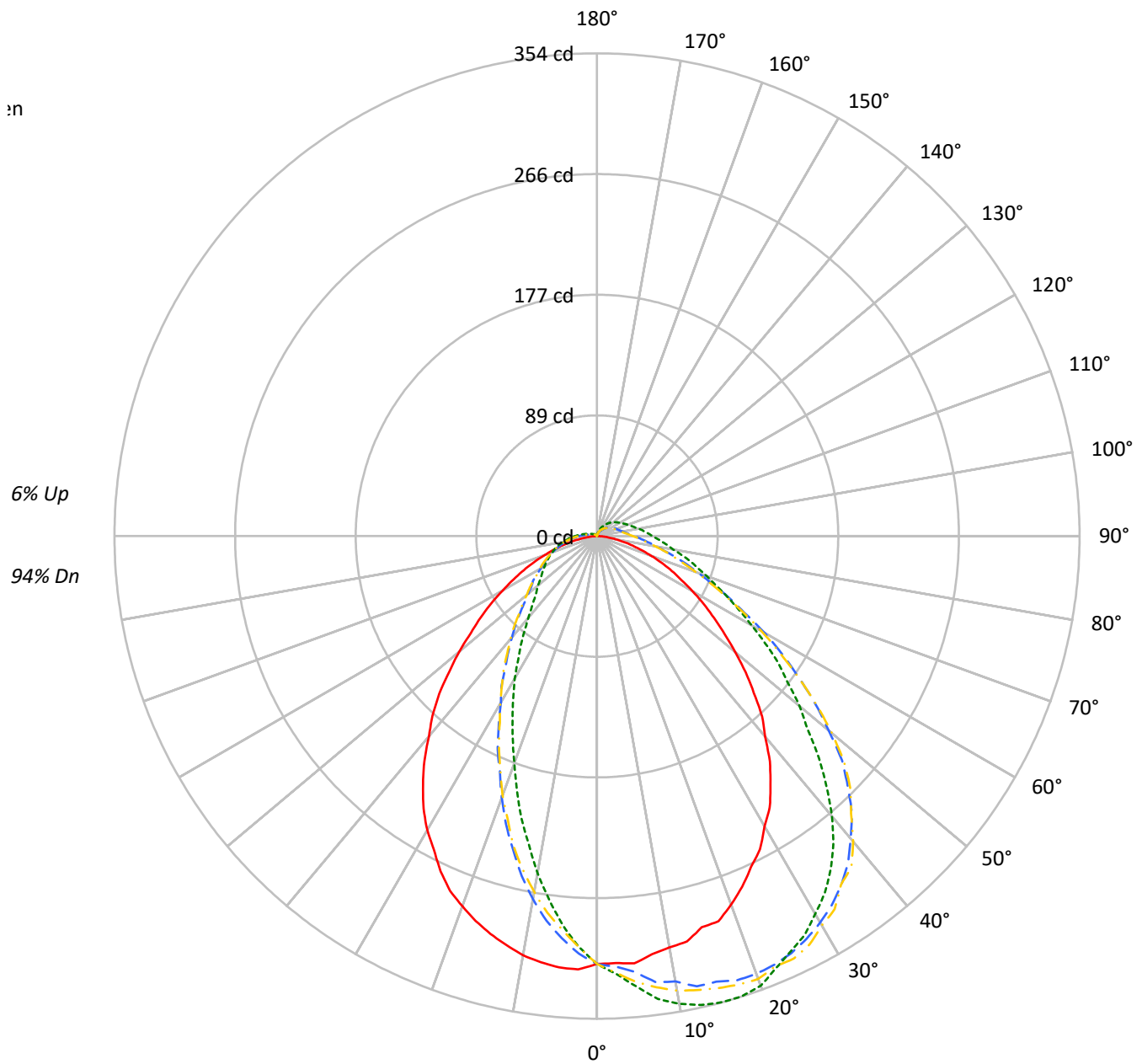
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 782.0 lumens
Efficiency: N/A
Efficacy: 113.3 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 (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

TEST NUMBER: P892969
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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	85	83	81	79
2	98	90	83	78	95	88	82	76	83	78	74	79	75	71	75	72	69	75	72	69	66
3	90	80	72	65	87	78	70	64	74	68	63	70	65	61	67	63	59	67	63	59	57
4	83	71	63	56	80	69	61	55	66	59	54	63	57	53	60	55	51	60	55	51	49
5	76	64	55	49	74	62	54	48	60	53	47	57	51	46	55	49	45	55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	44	40	50	44	40	38
7	66	53	44	38	64	51	43	38	49	42	37	48	41	36	46	40	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	42	37	32	30
9	57	44	36	31	56	43	36	31	42	35	30	40	34	30	39	33	29	39	33	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	31	27	36	31	27	36	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6426	6426	6426	6426
5°	6431	6546	6492	5658
10°	6299	6687	6420	4823
15°	6191	6662	6295	4032
20°	6126	6530	6152	3299
25°	5873	6227	5954	2714
30°	5607	5952	5680	2242
35°	5312	5618	5326	1828
40°	4869	5138	4866	1499
45°	4432	4535	4456	1276
50°	3919	3959	3902	1153
55°	3432	3467	3409	1059
60°	2986	2958	2957	1002
65°	2586	2547	2526	953
70°	2163	2232	2092	909
75°	1722	2029	1677	875
80°	1276	1826	1163	816
85°	805	1764	641	766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 6206 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	3.8
10°-20°	81.9	10.5
20°-30°	117.9	15.1
30°-40°	133.7	17.1
40°-50°	127.8	16.3
50°-60°	103.9	13.3
60°-70°	72.5	9.3
70°-80°	44.9	5.7
80°-90°	25.8	3.3
90°-100°	15.4	2.0
100°-110°	10.1	1.3
110°-120°	7.1	0.9
120°-130°	5.1	0.7
130°-140°	3.4	0.4
140°-150°	1.9	0.2
150°-160°	0.9	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	229.3	29.3
0°-40°	363.0	46.4
0°-60°	594.7	76.1
0°-90°	737.8	94.4
90°-120°	32.6	4.2
90°-150°	43.0	5.5
90°-180°	44.0	5.6
0°-180°	782.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	314	314	314	314	314	
5°	315	332	318	287	315	30
15°	297	354	302	214	297	84
25°	268	336	271	146	268	123
35°	222	299	222	97	222	138
45°	163	230	164	65	163	126
55°	105	162	104	50	105	94
65°	61	106	59	40	61	60
75°	27	71	26	30	27	29
85°	6	48	5	21	6	7
90°	0	40	0	16	0	0
95°	0	35	0	12	0	0
105°	0	27	0	7	0	0
115°	0	22	0	4	0	0
125°	0	18	0	2	0	0
135°	0	14	0	2	0	0
145°	0	10	0	1	0	0
155°	0	6	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°	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8
2.5°	313.4	315.8	316.0	323.4	321.3	324.0	320.5	321.1	318.1	317.2	306.6
5°	314.6	319.6	320.9	333.7	331.6	333.1	328.2	324.7	317.6	313.2	296.0
7.5°	309.2	322.5	329.9	338.9	342.3	343.4	333.7	327.2	315.3	304.7	284.5
10°	306.3	324.5	331.7	345.3	348.3	346.1	338.5	327.8	312.2	295.2	270.3
12.5°	304.6	325.7	338.2	352.1	352.2	349.9	341.0	329.5	307.2	284.9	255.3
15°	297.0	325.5	338.3	352.4	353.9	352.5	343.3	328.3	302.0	272.1	238.0
17.5°	296.2	324.9	341.6	356.4	353.8	352.8	344.8	327.8	295.9	259.2	221.8
20°	287.6	323.8	341.6	351.9	351.0	351.5	345.7	327.1	288.8	245.2	204.0
22.5°	278.4	322.5	340.2	348.0	343.0	350.5	341.6	325.2	281.6	230.6	186.4
25°	267.6	320.3	337.4	342.4	336.1	342.0	341.9	322.2	271.3	214.9	172.4
27.5°	258.9	316.9	332.9	340.5	329.8	334.8	337.7	318.6	259.2	199.4	156.0
30°	245.8	312.6	327.4	328.5	320.1	326.5	329.8	314.1	249.0	181.8	141.0
32.5°	235.9	307.7	320.7	319.2	310.8	319.2	324.5	309.5	236.9	166.4	130.4
35°	221.9	301.7	312.4	304.3	298.8	305.7	312.0	304.7	222.5	150.0	116.8
37.5°	208.3	296.5	302.5	292.4	284.8	292.6	306.4	295.7	208.0	136.9	106.7
40°	191.8	284.5	289.4	275.7	268.1	279.6	292.3	287.9	191.7	123.4	97.0
42.5°	179.3	275.5	277.0	258.3	249.2	261.5	275.8	276.8	178.5	111.2	88.4
45°	162.7	263.0	260.3	239.8	230.3	241.3	262.9	265.4	163.6	100.6	79.9
47.5°	147.8	249.0	243.8	219.7	209.2	222.2	246.2	252.6	146.9	90.8	72.0
50°	132.3	233.4	221.8	201.1	194.0	200.4	224.9	235.6	131.7	81.2	66.0
52.5°	118.1	216.2	201.8	183.2	176.1	181.4	202.6	218.6	116.6	73.0	60.6
55°	104.8	198.9	180.3	163.9	162.4	164.1	180.0	198.4	104.1	65.9	57.2
57.5°	92.9	177.9	161.0	148.9	146.3	147.6	158.6	177.5	91.9	58.7	52.3
60°	80.9	156.5	141.9	132.5	131.1	132.1	139.2	157.2	80.1	52.6	47.7
62.5°	70.0	134.9	121.9	118.5	117.4	117.4	120.4	136.8	69.0	46.4	44.2
65°	60.6	116.4	106.6	105.3	105.6	105.5	103.7	114.2	59.2	41.0	41.1
67.5°	51.2	96.8	91.3	93.0	94.2	93.7	89.8	95.0	49.9	36.1	38.3
70°	42.4	79.9	78.9	82.6	85.5	82.8	77.2	77.7	41.0	31.2	34.7
72.5°	34.2	64.6	69.3	74.5	77.3	74.3	66.5	64.2	33.0	26.8	31.4
75°	26.9	52.0	59.5	67.1	70.7	66.9	57.8	50.1	26.2	22.6	28.8
77.5°	20.5	41.2	50.9	59.7	63.2	59.9	50.3	39.1	19.2	19.0	25.9
80°	14.7	32.6	45.1	53.6	56.8	53.6	43.7	30.9	13.4	15.2	22.8
82.5°	9.7	25.2	39.2	48.8	52.3	48.4	37.9	23.8	8.5	12.3	20.5
85°	5.9	19.9	34.2	43.9	47.9	44.1	33.2	18.1	4.7	9.5	17.9
87.5°	2.6	15.4	30.5	40.5	44.1	40.6	29.6	14.2	2.0	7.4	15.3
90°	0.2	12.2	26.9	37.3	40.5	37.2	26.2	11.5	0.0	5.3	13.2
92.5°	0.2	10.5	24.7	34.5	38.1	34.4	23.6	9.5	0.0	3.9	11.1
95°	0.3	8.8	22.4	32.4	35.2	32.1	21.6	8.1	0.0	2.7	9.3
97.5°	0.3	8.0	20.5	30.2	33.4	30.0	19.7	7.3	0.0	2.0	7.6
100°	0.2	7.4	19.1	28.1	31.1	27.9	18.3	6.6	0.0	1.2	6.2
102.5°	0.2	6.9	17.9	26.4	28.8	26.1	17.1	6.2	0.0	1.0	5.0
105°	0.2	6.6	16.7	24.3	27.1	24.3	16.0	5.8	0.0	0.8	3.9
107.5°	0.2	6.2	15.9	23.2	25.5	23.0	15.2	5.4	0.0	0.8	3.2
110°	0.2	5.9	15.2	21.6	24.1	21.8	14.5	4.9	0.0	0.5	2.6



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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	5.3	14.5	20.4	22.9	20.5	13.9	4.5	0.0	0.5	2.3
115°	0.2	4.8	13.9	19.7	21.6	19.5	13.3	4.0	0.0	0.4	2.1
117.5°	0.2	4.5	13.5	18.8	20.6	18.6	12.7	3.8	0.0	0.4	2.0
120°	0.2	4.3	12.8	17.9	19.3	17.7	12.1	3.6	0.0	0.4	1.8
122.5°	0.2	4.1	12.3	17.1	18.6	17.0	11.6	3.5	0.0	0.3	1.6
125°	0.2	3.9	11.6	16.1	17.6	15.9	10.7	3.4	0.0	0.2	1.4
127.5°	0.2	3.7	10.9	15.4	16.7	15.2	10.1	3.3	0.0	0.2	1.3
130°	0.2	3.6	10.0	14.5	15.8	14.3	9.3	3.3	0.0	0.2	1.2
132.5°	0.2	3.5	8.9	13.6	15.0	13.4	8.6	3.2	0.0	0.2	1.0
135°	0.2	3.4	7.9	12.6	14.0	12.4	8.0	3.1	0.0	0.2	0.9
137.5°	0.2	3.2	7.0	11.6	12.9	11.4	7.6	2.9	0.0	0.2	0.8
140°	0.2	3.0	6.3	10.8	11.9	10.5	7.0	2.7	0.0	0.1	0.6
142.5°	0.2	2.7	5.7	9.8	10.9	9.6	6.3	2.3	0.0	0.1	0.6
145°	0.2	2.4	5.1	8.5	9.9	8.5	5.9	2.1	0.0	0.1	0.5
147.5°	0.2	2.2	4.6	7.2	8.9	7.8	5.2	1.7	0.0	0.1	0.4
150°	0.2	2.0	4.0	6.1	7.9	6.9	4.8	1.5	0.0	0.0	0.3
152.5°	0.2	1.7	3.5	5.0	7.1	6.3	4.3	1.3	0.0	0.0	0.2
155°	0.3	1.6	3.0	4.4	6.2	5.4	3.6	1.1	0.0	0.0	0.2
157.5°	0.3	1.4	2.5	3.6	5.4	4.7	2.9	0.9	0.0	0.0	0.1
160°	0.3	1.3	2.1	2.8	4.5	3.9	2.4	0.7	0.0	0.0	0.1
162.5°	0.3	1.2	1.7	2.1	3.7	3.1	1.8	0.5	0.0	0.0	0.1
165°	0.3	1.0	1.5	1.4	2.9	2.4	1.4	0.3	0.0	0.0	0.0
167.5°	0.3	0.9	1.2	1.0	2.2	1.7	1.0	0.2	0.0	0.0	0.0
170°	0.3	0.7	1.0	0.7	0.6	1.1	0.6	0.1	0.0	0.0	0.0
172.5°	0.3	0.6	0.8	0.5	0.2	0.6	0.3	0.0	0.0	0.0	0.0
175°	0.3	0.5	0.5	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.0
177.5°	0.3	0.4	0.3	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-CC93-LOW-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	313.8	313.8	313.8	313.8	313.8	313.8
2.5°	305.1	301.7	298.6	301.9	304.3	313.4
5°	290.2	286.6	287.0	290.0	297.9	314.6
7.5°	274.8	268.9	270.3	278.6	290.3	309.2
10°	256.6	251.2	252.5	265.1	281.5	306.3
12.5°	240.4	231.3	239.1	250.9	271.2	304.6
15°	221.4	214.2	218.4	235.9	261.4	297.0
17.5°	200.8	195.3	200.3	217.7	249.2	296.2
20°	185.0	177.3	183.3	202.4	234.2	287.6
22.5°	167.3	161.4	167.7	185.2	218.9	278.4
25°	152.7	146.5	152.8	170.2	205.4	267.6
27.5°	138.5	132.8	138.5	154.5	191.9	258.9
30°	126.1	120.6	126.4	141.8	176.2	245.8
32.5°	114.4	107.5	114.9	129.8	162.3	235.9
35°	102.4	97.2	102.7	119.3	146.9	221.9
37.5°	92.5	87.0	93.6	107.8	133.9	208.3
40°	83.0	78.2	83.4	98.5	122.8	191.8
42.5°	75.6	70.8	76.1	90.1	111.6	179.3
45°	68.4	64.8	69.1	80.9	100.3	162.7
47.5°	63.2	60.1	63.7	74.1	90.8	147.8
50°	58.7	56.5	59.1	67.3	81.1	132.3
52.5°	54.7	52.5	55.5	62.1	73.4	118.1
55°	51.6	49.6	51.9	57.1	65.6	104.8
57.5°	48.2	46.9	48.7	51.9	59.6	92.9
60°	45.7	44.4	46.2	48.8	52.7	80.9
62.5°	42.9	42.2	43.4	45.4	47.5	70.0
65°	40.5	39.5	40.9	41.6	41.4	60.6
67.5°	37.8	37.5	38.3	38.4	36.9	51.2
70°	35.0	34.8	35.9	35.2	32.1	42.4
72.5°	32.8	32.8	33.4	32.2	27.9	34.2
75°	30.3	30.5	31.0	29.6	23.5	26.9
77.5°	28.0	28.3	28.4	26.4	19.7	20.5
80°	25.5	25.4	26.4	23.9	16.0	14.7
82.5°	23.2	22.8	23.4	21.0	12.9	9.7
85°	20.6	20.8	21.2	18.3	10.4	5.9
87.5°	18.6	18.6	19.0	16.1	7.8	2.6
90°	16.1	15.9	16.5	13.7	5.9	0.2
92.5°	14.1	14.1	14.5	11.7	4.3	0.2
95°	12.0	12.1	12.4	9.7	3.3	0.3
97.5°	10.3	10.4	10.8	8.2	2.4	0.3
100°	8.7	8.8	9.0	6.6	1.8	0.2
102.5°	7.3	7.6	7.6	5.4	1.4	0.2
105°	6.2	6.6	6.4	4.4	1.3	0.2
107.5°	5.1	5.5	5.5	3.6	1.3	0.2
110°	4.2	4.8	4.7	3.1	1.0	0.2



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	3.6	4.1	3.8	2.7	1.0	0.2
115°	3.1	3.6	3.4	2.5	0.9	0.2
117.5°	2.8	3.1	3.1	2.4	0.9	0.2
120°	2.6	2.9	2.8	2.3	0.9	0.2
122.5°	2.4	2.6	2.6	2.1	0.8	0.2
125°	2.3	2.4	2.5	1.8	0.8	0.2
127.5°	2.2	2.4	2.4	1.7	0.7	0.2
130°	2.0	2.2	2.2	1.6	0.7	0.2
132.5°	1.7	2.0	2.0	1.5	0.7	0.2
135°	1.6	1.8	1.8	1.4	0.7	0.2
137.5°	1.5	1.6	1.6	1.3	0.7	0.2
140°	1.3	1.5	1.5	1.2	0.7	0.2
142.5°	1.2	1.4	1.4	1.1	0.6	0.2
145°	1.1	1.2	1.3	1.0	0.6	0.2
147.5°	0.9	1.1	1.2	0.9	0.6	0.2
150°	0.7	1.0	1.0	0.9	0.6	0.2
152.5°	0.5	0.9	0.9	0.8	0.5	0.2
155°	0.4	0.7	0.8	0.7	0.5	0.3
157.5°	0.3	0.6	0.7	0.7	0.5	0.3
160°	0.2	0.5	0.6	0.6	0.4	0.3
162.5°	0.1	0.4	0.5	0.6	0.4	0.3
165°	0.0	0.3	0.4	0.5	0.4	0.3
167.5°	0.0	0.2	0.3	0.4	0.3	0.3
170°	0.0	0.1	0.2	0.3	0.3	0.3
172.5°	0.0	0.0	0.1	0.2	0.2	0.3
175°	0.0	0.0	0.0	0.1	0.2	0.3
177.5°	0.0	0.0	0.0	0.1	0.2	0.3
180°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P892969
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-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	15.35	16.81	15.80	17.24	17.69	17.51	18.97	17.97	19.40	19.86
	3H	16.17	17.49	16.64	17.93	18.43	19.18	20.50	19.65	20.94	21.44
	4H	16.38	17.62	16.86	18.08	18.59	19.99	21.24	20.48	21.70	22.21
	6H	16.47	17.62	16.97	18.09	18.62	20.83	21.98	21.33	22.45	22.98
	8H	16.47	17.57	16.98	18.07	18.60	21.26	22.36	21.78	22.86	23.40
	12H	16.46	17.51	16.98	18.00	18.56	21.75	22.80	22.27	23.30	23.86
4H	2H	15.77	17.02	16.26	17.48	17.99	17.88	19.13	18.37	19.59	20.10
	3H	16.87	17.91	17.37	18.42	18.95	19.74	20.78	20.24	21.29	21.82
	4H	17.21	18.16	17.73	18.68	19.24	20.68	21.63	21.20	22.15	22.72
	6H	17.40	18.23	17.94	18.78	19.36	21.68	22.51	22.22	23.05	23.64
	8H	17.43	18.21	17.98	18.75	19.35	22.21	22.99	22.76	23.53	24.13
	12H	17.44	18.14	18.01	18.71	19.31	22.81	23.51	23.38	24.09	24.69
8H	4H	17.53	18.31	18.08	18.85	19.45	20.83	21.61	21.38	22.15	22.75
	6H	17.85	18.50	18.43	19.09	19.69	21.96	22.61	22.54	23.20	23.80
	8H	17.94	18.53	18.53	19.13	19.74	22.60	23.19	23.20	23.79	24.40
	12H	17.99	18.52	18.59	19.10	19.79	23.36	23.89	23.96	24.47	25.16
12H	4H	17.60	18.30	18.17	18.88	19.48	20.82	21.52	21.39	22.10	22.70
	6H	17.98	18.57	18.57	19.17	19.78	21.97	22.56	22.57	23.16	23.77
	8H	18.14	18.66	18.73	19.25	19.93	22.67	23.20	23.27	23.78	24.47