

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: P892966

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

Issue Date: 11/11/2024

**Test Information**

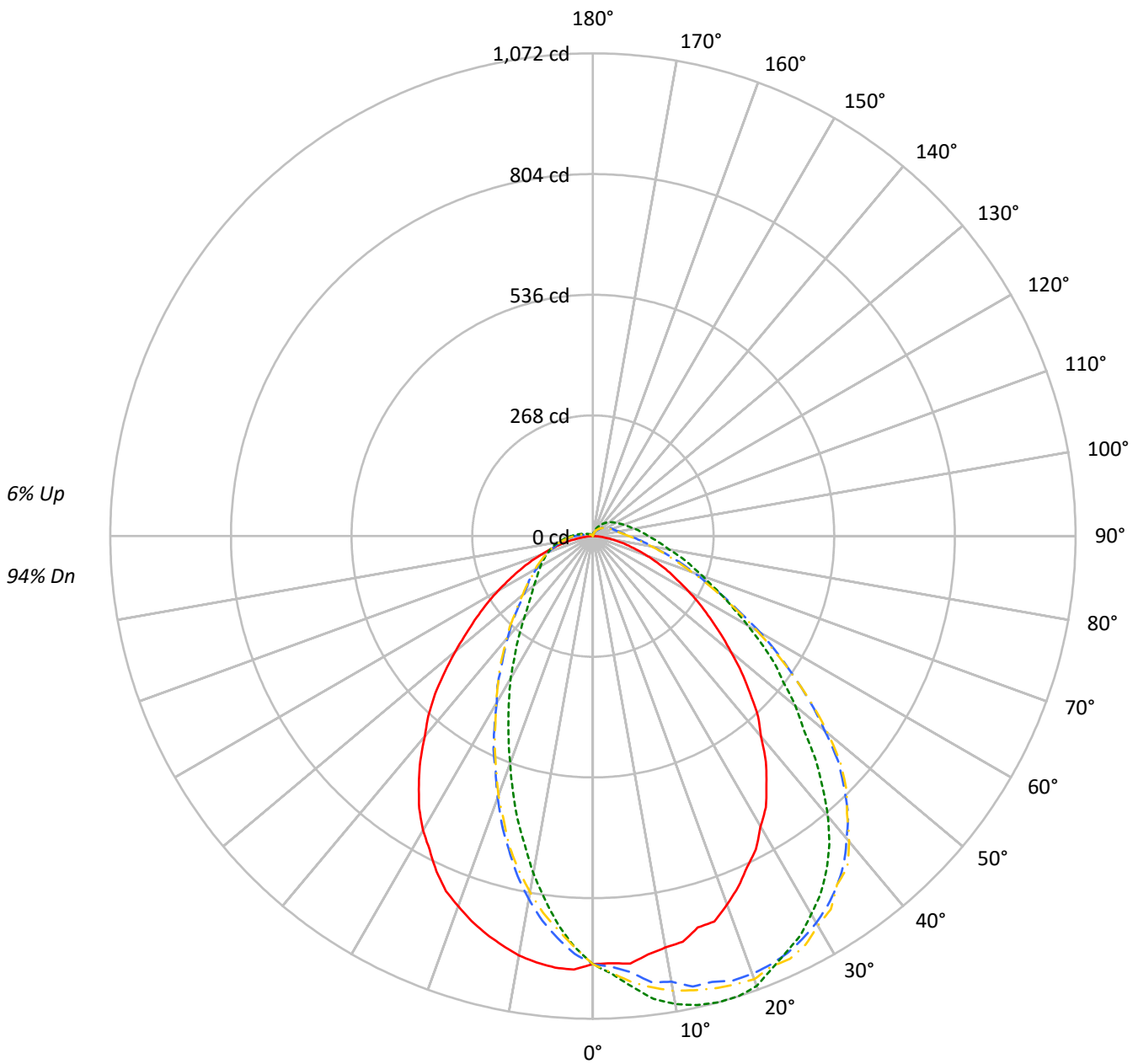
Test Method: LM-79-2019  
Report Number: P892966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASML-UNV-CC93-HI-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 3500K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2369.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 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): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.39961257980444  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P892966  
CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-HI-3500K

### 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°	19463	19463	19463	19463
5°	19481	19833	19665	17142
10°	19079	20257	19449	14609
15°	18757	20184	19074	12216
20°	18555	19785	18636	9994
25°	17792	18867	18038	8223
30°	16991	18031	17210	6794
35°	16091	17016	16137	5535
40°	14751	15566	14741	4538
45°	13428	13741	13496	3867
50°	11877	11993	11821	3494
55°	10397	10504	10325	3209
60°	9040	8960	8963	3032
65°	7834	7714	7651	2882
70°	6556	6760	6336	2755
75°	5218	6145	5083	2652
80°	3863	5531	3516	2472
85°	2415	5341	1951	2317

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 18797 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.3	3.8
10°-20°	248.2	10.5
20°-30°	357.0	15.1
30°-40°	405.2	17.1
40°-50°	387.2	16.3
50°-60°	314.6	13.3
60°-70°	219.5	9.3
70°-80°	136.0	5.7
80°-90°	78.0	3.3
90°-100°	46.6	2.0
100°-110°	30.6	1.3
110°-120°	21.4	0.9
120°-130°	15.5	0.7
130°-140°	10.3	0.4
140°-150°	5.8	0.2
150°-160°	2.6	0.1
160°-170°	0.7	0.0
170°-180°	0.1	0.0
0°-30°	694.6	29.3
0°-40°	1099.8	46.4
0°-60°	1801.6	76.1
0°-90°	2235.2	94.4
90°-120°	98.7	4.2
90°-150°	130.4	5.5
90°-180°	134.0	5.7
0°-180°	2369.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	950	950	950	950	950	
5°	953	1005	962	868	953	90
15°	900	1072	915	649	900	256
25°	811	1018	822	444	811	374
35°	672	905	674	294	672	419
45°	493	698	496	196	493	380
55°	318	492	315	150	318	286
65°	184	320	179	120	184	182
75°	82	214	79	92	82	88
85°	18	145	14	63	18	20
90°	1	123	0	48	1	1
95°	1	107	0	37	1	1
105°	1	82	0	20	1	1
115°	1	65	0	11	1	1
125°	1	53	0	7	1	1
135°	1	42	0	6	1	0
145°	1	30	0	4	1	0
155°	1	19	0	2	1	0
165°	1	9	0	1	1	0
175°	1	0	0	0	1	0
180°	0	0	0	0	0	0



TEST NUMBER: P892966

CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-HI-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5
2.5°	949.5	956.7	957.3	979.7	973.2	981.6	971.0	972.9	963.6	961.1	928.7
5°	953.0	968.2	972.3	1010.9	1004.6	1009.0	994.4	983.8	962.0	948.9	896.6
7.5°	936.8	976.9	999.3	1026.7	1037.0	1040.4	1010.9	991.3	955.2	923.1	861.8
10°	927.8	983.2	1004.9	1046.0	1055.1	1048.5	1025.5	993.1	945.8	894.2	818.8
12.5°	922.8	986.6	1024.6	1066.6	1066.9	1060.0	1033.0	998.1	930.6	863.0	773.4
15°	899.8	986.0	1024.9	1067.5	1072.2	1067.8	1040.1	994.7	915.0	824.4	721.1
17.5°	897.3	984.4	1034.8	1079.6	1071.9	1068.7	1044.5	993.1	896.3	785.2	671.9
20°	871.1	981.0	1034.8	1065.9	1063.5	1064.7	1047.3	990.9	874.9	742.9	618.1
22.5°	843.4	976.9	1030.5	1054.1	1039.2	1061.9	1034.8	985.0	853.1	698.7	564.6
25°	810.7	970.4	1022.1	1037.3	1018.3	1036.1	1035.8	976.0	821.9	651.1	522.2
27.5°	784.3	960.1	1008.4	1031.4	999.0	1014.3	1023.0	965.1	785.2	604.1	472.4
30°	744.8	947.1	991.9	995.3	969.8	989.1	999.0	951.4	754.4	550.9	427.0
32.5°	714.6	932.1	971.6	967.0	941.5	967.0	983.2	937.7	717.7	504.2	394.9
35°	672.2	914.1	946.4	921.9	905.0	926.2	945.2	923.1	674.1	454.4	353.9
37.5°	631.2	898.2	916.2	885.7	862.7	886.4	928.1	895.7	630.2	414.9	323.4
40°	581.1	861.8	876.7	835.3	812.3	847.2	885.4	872.1	580.7	373.8	293.8
42.5°	543.1	834.7	839.1	782.4	755.0	792.1	835.6	838.4	540.6	336.7	267.7
45°	493.0	796.7	788.6	726.4	697.8	731.1	796.4	803.9	495.5	304.7	242.1
47.5°	447.9	754.4	738.5	665.7	633.7	673.2	745.7	765.3	445.1	275.1	218.2
50°	400.9	707.1	671.9	609.1	587.6	607.2	681.3	713.6	399.0	245.9	199.8
52.5°	357.9	654.8	611.2	554.9	533.4	549.6	613.7	662.3	353.2	221.3	183.6
55°	317.5	602.5	546.2	496.4	492.0	497.0	545.3	601.0	315.3	199.5	173.4
57.5°	281.3	539.0	487.7	451.0	443.2	447.2	480.5	537.8	278.5	177.7	158.4
60°	244.9	474.0	429.8	401.5	397.1	400.2	421.7	476.2	242.8	159.3	144.4
62.5°	211.9	408.6	369.4	358.8	355.7	355.7	364.8	414.6	209.1	140.7	133.8
65°	183.6	352.6	323.1	319.0	319.9	319.6	314.0	346.1	179.3	124.2	124.5
67.5°	155.0	293.2	276.7	281.7	285.4	283.8	272.0	287.9	151.3	109.2	116.1
70°	128.5	242.1	239.0	250.2	258.9	250.8	233.7	235.3	124.2	94.6	105.2
72.5°	103.6	195.8	210.1	225.6	234.0	225.0	201.4	194.5	99.9	81.2	95.2
75°	81.5	157.5	180.2	203.2	214.1	202.6	175.2	151.9	79.4	68.5	87.1
77.5°	62.2	124.8	154.1	180.8	191.4	181.4	152.5	118.6	58.2	57.6	78.4
80°	44.5	98.7	136.6	162.5	172.1	162.5	132.3	93.7	40.5	46.1	69.1
82.5°	29.3	76.3	118.9	147.8	158.4	146.6	114.8	72.2	25.8	37.3	62.2
85°	17.7	60.4	103.6	132.9	145.0	133.5	100.5	54.8	14.3	28.6	54.2
87.5°	7.8	46.7	92.4	122.6	133.5	122.9	89.6	42.9	5.9	22.4	46.4
90°	0.6	37.0	81.5	113.0	122.6	112.7	79.4	34.9	0.0	16.2	39.8
92.5°	0.6	31.7	74.7	104.6	115.5	104.3	71.6	28.6	0.0	11.8	33.6
95°	0.9	26.8	67.8	98.0	106.8	97.1	65.4	24.6	0.0	8.1	28.3
97.5°	0.9	24.3	62.2	91.5	101.1	90.9	59.8	22.1	0.0	5.9	23.0
100°	0.6	22.4	57.9	85.3	94.3	84.7	55.4	19.9	0.0	3.7	18.7
102.5°	0.6	20.9	54.2	80.0	87.1	79.1	51.7	18.7	0.0	3.1	15.3
105°	0.6	19.9	50.7	73.8	82.2	73.8	48.6	17.4	0.0	2.5	11.8
107.5°	0.6	18.7	48.2	70.3	77.2	69.7	46.1	16.5	0.0	2.5	9.6
110°	0.6	17.7	46.1	65.4	73.1	66.0	43.9	14.9	0.0	1.6	7.8



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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°	0.6	16.2	43.9	61.9	69.4	62.2	42.0	13.7	0.0	1.6	6.8
115°	0.6	14.6	42.0	59.8	65.4	59.1	40.1	12.1	0.0	1.2	6.2
117.5°	0.6	13.7	40.8	57.0	62.6	56.3	38.6	11.5	0.0	1.2	5.9
120°	0.6	13.1	38.9	54.2	58.5	53.5	36.7	10.9	0.0	1.2	5.6
122.5°	0.6	12.4	37.3	51.7	56.3	51.4	35.2	10.6	0.0	0.9	5.0
125°	0.6	11.8	35.2	48.9	53.2	48.2	32.4	10.3	0.0	0.6	4.4
127.5°	0.6	11.2	33.0	46.7	50.7	46.1	30.5	10.0	0.0	0.6	4.0
130°	0.6	10.9	30.2	43.9	47.9	43.3	28.3	10.0	0.0	0.6	3.7
132.5°	0.6	10.6	27.1	41.1	45.4	40.5	26.1	9.6	0.0	0.6	3.1
135°	0.6	10.3	24.0	38.3	42.3	37.7	24.3	9.3	0.0	0.6	2.8
137.5°	0.6	9.6	21.2	35.2	39.2	34.5	23.0	8.7	0.0	0.6	2.5
140°	0.6	9.0	19.0	32.7	36.1	31.7	21.2	8.1	0.0	0.3	1.9
142.5°	0.6	8.1	17.1	29.6	33.0	28.9	19.0	6.8	0.0	0.3	1.9
145°	0.6	7.2	15.6	25.8	29.9	25.8	17.7	6.2	0.0	0.3	1.6
147.5°	0.6	6.5	14.0	21.8	27.1	23.7	15.9	5.3	0.0	0.3	1.2
150°	0.6	5.9	12.1	18.4	24.0	20.9	14.6	4.7	0.0	0.0	0.9
152.5°	0.6	5.3	10.6	15.3	21.5	19.0	13.1	4.0	0.0	0.0	0.6
155°	0.9	5.0	9.0	13.4	18.7	16.5	10.9	3.4	0.0	0.0	0.6
157.5°	0.9	4.4	7.5	10.9	16.5	14.3	8.7	2.8	0.0	0.0	0.3
160°	0.9	4.0	6.2	8.4	13.7	11.8	7.2	2.2	0.0	0.0	0.3
162.5°	0.9	3.7	5.3	6.2	11.2	9.3	5.6	1.6	0.0	0.0	0.3
165°	0.9	3.1	4.7	4.4	8.7	7.2	4.4	0.9	0.0	0.0	0.0
167.5°	0.9	2.8	3.7	3.1	6.5	5.3	3.1	0.6	0.0	0.0	0.0
170°	0.9	2.2	3.1	2.2	1.9	3.4	1.9	0.3	0.0	0.0	0.0
172.5°	0.9	1.9	2.5	1.6	0.6	1.9	0.9	0.0	0.0	0.0	0.0
175°	0.9	1.6	1.6	0.9	0.3	0.6	0.0	0.0	0.0	0.0	0.0
177.5°	0.9	1.2	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	950.5	950.5	950.5	950.5	950.5	950.5
2.5°	924.3	914.1	904.7	914.7	921.9	949.5
5°	879.2	868.3	869.6	878.6	902.6	953.0
7.5°	832.5	814.5	818.8	844.0	879.5	936.8
10°	777.4	760.9	765.0	803.0	852.8	927.8
12.5°	728.3	700.6	724.2	760.0	821.6	922.8
15°	670.7	648.9	661.7	714.6	791.8	899.8
17.5°	608.4	591.6	606.9	659.5	755.0	897.3
20°	560.5	537.2	555.2	613.1	709.6	871.1
22.5°	506.7	488.9	507.9	561.1	663.2	843.4
25°	462.5	443.8	462.8	515.7	622.1	810.7
27.5°	419.5	402.4	419.5	468.1	581.4	784.3
30°	381.9	365.4	382.8	429.5	533.8	744.8
32.5°	346.7	325.5	348.0	393.1	491.7	714.6
35°	310.3	294.4	311.2	361.3	445.1	672.2
37.5°	280.1	263.6	283.5	326.5	405.5	631.2
40°	251.5	236.8	252.7	298.5	371.9	581.1
42.5°	229.1	214.4	230.6	272.9	338.0	543.1
45°	207.3	196.4	209.5	244.9	303.8	493.0
47.5°	191.4	182.1	193.0	224.4	275.1	447.9
50°	177.7	171.2	179.0	203.9	245.6	400.9
52.5°	165.6	159.0	168.1	188.0	222.2	357.9
55°	156.2	150.3	157.2	173.0	198.9	317.5
57.5°	146.0	142.2	147.5	157.2	180.5	281.3
60°	138.5	134.4	140.1	147.8	159.7	244.9
62.5°	130.1	127.9	131.3	137.6	143.8	211.9
65°	122.6	119.5	123.9	126.0	125.4	183.6
67.5°	114.5	113.6	116.1	116.4	111.7	155.0
70°	106.1	105.5	108.6	106.8	97.1	128.5
72.5°	99.3	99.3	101.1	97.4	84.7	103.6
75°	91.8	92.4	94.0	89.6	71.3	81.5
77.5°	85.0	85.6	85.9	80.0	59.8	62.2
80°	77.2	76.9	80.0	72.5	48.6	44.5
82.5°	70.3	69.1	71.0	63.5	39.2	29.3
85°	62.6	62.9	64.1	55.4	31.4	17.7
87.5°	56.3	56.3	57.6	48.9	23.7	7.8
90°	48.9	48.2	50.1	41.4	17.7	0.6
92.5°	42.6	42.6	43.9	35.5	13.1	0.6
95°	36.4	36.7	37.7	29.3	10.0	0.9
97.5°	31.1	31.4	32.7	24.9	7.2	0.9
100°	26.5	26.8	27.4	19.9	5.6	0.6
102.5°	22.1	23.0	23.0	16.5	4.4	0.6
105°	18.7	19.9	19.3	13.4	4.0	0.6
107.5°	15.6	16.8	16.8	10.9	4.0	0.6
110°	12.8	14.6	14.3	9.3	3.1	0.6





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	10.9	12.4	11.5	8.1	3.1	0.6
115°	9.3	10.9	10.3	7.5	2.8	0.6
117.5°	8.4	9.3	9.3	7.2	2.8	0.6
120°	7.8	8.7	8.4	6.8	2.8	0.6
122.5°	7.2	7.8	7.8	6.2	2.5	0.6
125°	6.8	7.2	7.5	5.6	2.5	0.6
127.5°	6.5	7.2	7.2	5.3	2.2	0.6
130°	5.9	6.5	6.5	5.0	2.2	0.6
132.5°	5.3	5.9	5.9	4.7	2.2	0.6
135°	5.0	5.6	5.6	4.4	2.2	0.6
137.5°	4.7	5.0	5.0	4.0	2.2	0.6
140°	4.0	4.7	4.7	3.7	2.2	0.6
142.5°	3.7	4.4	4.4	3.4	1.9	0.6
145°	3.4	3.7	4.0	3.1	1.9	0.6
147.5°	2.8	3.4	3.7	2.8	1.9	0.6
150°	2.2	3.1	3.1	2.8	1.9	0.6
152.5°	1.6	2.8	2.8	2.5	1.6	0.6
155°	1.2	2.2	2.5	2.2	1.6	0.9
157.5°	0.9	1.9	2.2	2.2	1.6	0.9
160°	0.6	1.6	1.9	1.9	1.2	0.9
162.5°	0.3	1.2	1.6	1.9	1.2	0.9
165°	0.0	0.9	1.2	1.6	1.2	0.9
167.5°	0.0	0.6	0.9	1.2	0.9	0.9
170°	0.0	0.3	0.6	0.9	0.9	0.9
172.5°	0.0	0.0	0.3	0.6	0.6	0.9
175°	0.0	0.0	0.0	0.3	0.6	0.9
177.5°	0.0	0.0	0.0	0.3	0.6	0.9
180°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P892966  
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-HI-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	19.20	20.66	19.65	21.09	21.54	21.36	22.82	21.82	23.25	23.71
	3H	20.02	21.34	20.49	21.78	22.28	23.03	24.35	23.50	24.79	25.29
	4H	20.23	21.47	20.71	21.93	22.44	23.84	25.09	24.33	25.55	26.06
	6H	20.32	21.47	20.82	21.95	22.47	24.68	25.83	25.18	26.30	26.83
	8H	20.32	21.42	20.83	21.92	22.45	25.11	26.21	25.63	26.71	27.25
	12H	20.31	21.36	20.83	21.85	22.42	25.60	26.65	26.12	27.15	27.71
4H	2H	19.62	20.87	20.11	21.33	21.84	21.73	22.98	22.22	23.44	23.95
	3H	20.72	21.77	21.22	22.27	22.81	23.59	24.63	24.09	25.14	25.67
	4H	21.06	22.01	21.58	22.53	23.09	24.53	25.48	25.05	26.00	26.57
	6H	21.25	22.08	21.80	22.63	23.21	25.53	26.36	26.07	26.90	27.49
	8H	21.28	22.06	21.83	22.60	23.20	26.06	26.84	26.61	27.38	27.98
	12H	21.29	21.99	21.86	22.56	23.16	26.66	27.36	27.23	27.94	28.53
8H	4H	21.38	22.16	21.93	22.70	23.30	24.68	25.46	25.23	26.00	26.60
	6H	21.70	22.35	22.28	22.94	23.54	25.81	26.46	26.39	27.05	27.65
	8H	21.79	22.38	22.38	22.98	23.59	26.45	27.04	27.05	27.64	28.26
	12H	21.84	22.37	22.44	22.95	23.64	27.21	27.74	27.81	28.32	29.01
12H	4H	21.45	22.15	22.02	22.73	23.33	24.67	25.37	25.24	25.95	26.55
	6H	21.83	22.42	22.43	23.02	23.63	25.82	26.41	26.42	27.01	27.63
	8H	21.99	22.51	22.58	23.10	23.78	26.52	27.05	27.12	27.63	28.32