

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: P892968

Luminaire Tested: 2MB-SC3-ASML-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

**Test Information**

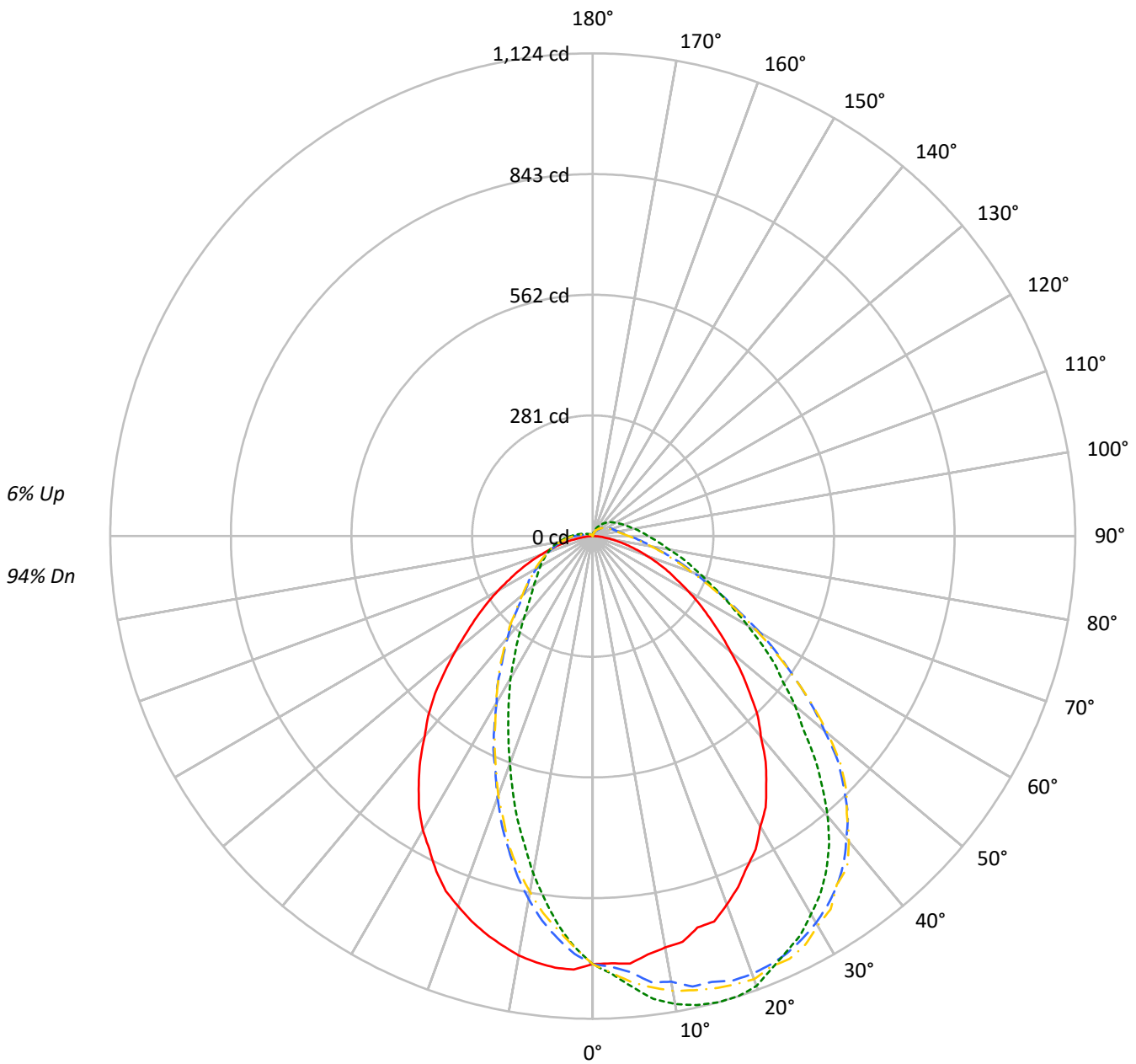
Test Method: LM-79-2019  
Report Number: P892968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASML-UNV-CC93-HI-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 5000K CCT, HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2484.0 lumens  
Efficiency: N/A  
Efficacy: 118.3 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): 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: P892968  
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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°	20407	20407	20407	20407
5°	20425	20796	20620	17975
10°	20004	21240	20393	15319
15°	19666	21163	20000	12809
20°	19456	20745	19539	10480
25°	18657	19784	18914	8623
30°	17814	18907	18045	7123
35°	16874	17843	16920	5804
40°	15467	16321	15457	4758
45°	14079	14406	14150	4054
50°	12452	12574	12395	3664
55°	10901	11015	10826	3365
60°	9480	9395	9395	3181
65°	8214	8091	8022	3022
70°	6877	7089	6642	2888
75°	5474	6444	5327	2781
80°	4054	5801	3681	2591
85°	2538	5602	2047	2427

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 19709 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.6	3.8
10°-20°	260.3	10.5
20°-30°	374.4	15.1
30°-40°	424.8	17.1
40°-50°	406.0	16.3
50°-60°	329.9	13.3
60°-70°	230.2	9.3
70°-80°	142.6	5.7
80°-90°	81.8	3.3
90°-100°	48.9	2.0
100°-110°	32.1	1.3
110°-120°	22.5	0.9
120°-130°	16.3	0.7
130°-140°	10.8	0.4
140°-150°	6.1	0.2
150°-160°	2.7	0.1
160°-170°	0.8	0.0
170°-180°	0.1	0.0
0°-30°	728.3	29.3
0°-40°	1153.1	46.4
0°-60°	1889.1	76.0
0°-90°	2343.7	94.4
90°-120°	103.5	4.2
90°-150°	136.8	5.5
90°-180°	140.0	5.6
0°-180°	2484.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	997	997	997	997	997	
5°	999	1053	1009	910	999	94
15°	943	1124	959	680	943	268
25°	850	1068	862	465	850	392
35°	705	949	707	309	705	439
45°	517	732	520	206	517	399
55°	333	516	331	158	333	300
65°	192	336	188	125	192	191
75°	86	224	83	97	86	92
85°	19	152	15	66	19	21
90°	1	129	0	51	1	1
95°	1	112	0	38	1	1
105°	1	86	0	21	1	1
115°	1	68	0	11	1	1
125°	1	56	0	8	1	1
135°	1	44	0	6	1	1
145°	1	31	0	4	1	0
155°	1	20	0	2	1	0
165°	1	9	0	1	1	0
175°	1	0	0	0	1	0
180°	0	0	0	0	0	



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CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-HI-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6
2.5°	995.6	1003.1	1003.8	1027.3	1020.4	1029.3	1018.2	1020.1	1010.3	1007.7	973.8
5°	999.2	1015.2	1019.5	1059.9	1053.4	1058.0	1042.6	1031.5	1008.7	995.0	940.2
7.5°	982.3	1024.4	1047.9	1076.6	1087.3	1090.9	1059.9	1039.4	1001.5	967.9	903.6
10°	972.8	1030.9	1053.7	1096.8	1106.3	1099.4	1075.3	1041.3	991.7	937.6	858.6
12.5°	967.6	1034.5	1074.3	1118.3	1118.7	1111.5	1083.1	1046.6	975.7	904.9	810.9
15°	943.4	1033.8	1074.6	1119.3	1124.2	1119.7	1090.6	1043.0	959.4	864.5	756.1
17.5°	940.8	1032.2	1085.1	1132.1	1123.9	1120.6	1095.2	1041.3	939.8	823.3	704.6
20°	913.4	1028.6	1085.1	1117.7	1115.1	1116.4	1098.1	1039.0	917.3	779.0	648.1
22.5°	884.4	1024.4	1080.5	1105.3	1089.6	1113.5	1085.1	1032.8	894.5	732.6	592.0
25°	850.1	1017.5	1071.7	1087.7	1067.8	1086.4	1086.0	1023.4	861.8	682.7	547.6
27.5°	822.4	1006.7	1057.3	1081.5	1047.5	1063.5	1072.7	1012.0	823.3	633.4	495.4
30°	780.9	993.0	1040.0	1043.6	1016.9	1037.1	1047.5	997.6	791.0	577.6	447.7
32.5°	749.3	977.4	1018.8	1013.9	987.2	1013.9	1030.9	983.2	752.5	528.7	414.1
35°	704.9	958.4	992.4	966.6	949.0	971.2	991.1	967.9	706.8	476.4	371.0
37.5°	661.8	941.8	960.7	928.7	904.6	929.4	973.1	939.2	660.8	435.0	339.1
40°	609.3	903.6	919.3	875.9	851.7	888.3	928.4	914.4	608.9	391.9	308.1
42.5°	569.5	875.2	879.8	820.4	791.7	830.5	876.2	879.1	566.8	353.1	280.6
45°	516.9	835.4	826.9	761.7	731.6	766.6	835.1	842.9	519.5	319.5	253.9
47.5°	469.6	791.0	774.4	698.0	664.4	705.9	781.9	802.5	466.7	288.5	228.8
50°	420.3	741.4	704.6	638.6	616.1	636.7	714.3	748.3	418.4	257.8	209.5
52.5°	375.3	686.6	640.9	581.9	559.3	576.3	643.5	694.4	370.4	232.0	192.5
55°	332.9	631.8	572.7	520.5	515.9	521.2	571.7	630.2	330.6	209.2	181.8
57.5°	295.0	565.2	511.4	472.9	464.7	468.9	503.9	563.9	292.1	186.3	166.1
60°	256.8	497.0	450.7	421.0	416.4	419.7	442.2	499.3	254.5	167.1	151.4
62.5°	222.2	428.5	387.4	376.3	373.0	373.0	382.5	434.7	219.3	147.5	140.3
65°	192.5	369.7	338.7	334.5	335.5	335.1	329.3	362.9	188.0	130.2	130.5
67.5°	162.5	307.4	290.1	295.3	299.2	297.6	285.2	301.9	158.6	114.5	121.7
70°	134.8	253.9	250.6	262.4	271.5	263.0	245.1	246.7	130.2	99.2	110.3
72.5°	108.7	205.3	220.3	236.6	245.4	235.9	211.1	204.0	104.8	85.2	99.9
75°	85.5	165.1	188.9	213.1	224.5	212.4	183.7	159.3	83.2	71.8	91.4
77.5°	65.3	130.9	161.5	189.6	200.7	190.3	159.9	124.3	61.0	60.4	82.2
80°	46.7	103.4	143.3	170.3	180.5	170.3	138.7	98.2	42.4	48.3	72.4
82.5°	30.7	80.0	124.7	155.0	166.1	153.7	120.4	75.7	27.1	39.2	65.3
85°	18.6	63.3	108.7	139.3	152.1	140.0	105.4	57.4	15.0	30.0	56.8
87.5°	8.2	49.0	96.9	128.6	140.0	128.9	94.0	45.0	6.2	23.5	48.6
90°	0.7	38.8	85.5	118.5	128.6	118.1	83.2	36.5	0.0	17.0	41.8
92.5°	0.7	33.3	78.3	109.6	121.1	109.3	75.1	30.0	0.0	12.4	35.2
95°	1.0	28.1	71.1	102.8	111.9	101.8	68.5	25.8	0.0	8.5	29.7
97.5°	1.0	25.5	65.3	95.9	106.1	95.3	62.7	23.2	0.0	6.2	24.1
100°	0.7	23.5	60.7	89.4	98.9	88.8	58.1	20.9	0.0	3.9	19.6
102.5°	0.7	21.9	56.8	83.9	91.4	82.9	54.2	19.6	0.0	3.3	16.0
105°	0.7	20.9	53.2	77.3	86.2	77.3	50.9	18.3	0.0	2.6	12.4
107.5°	0.7	19.6	50.6	73.8	80.9	73.1	48.3	17.3	0.0	2.6	10.1
110°	0.7	18.6	48.3	68.5	76.7	69.2	46.0	15.7	0.0	1.6	8.2



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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°	0.7	17.0	46.0	64.9	72.8	65.3	44.1	14.4	0.0	1.6	7.2
115°	0.7	15.3	44.1	62.7	68.5	62.0	42.1	12.7	0.0	1.3	6.5
117.5°	0.7	14.4	42.7	59.7	65.6	59.1	40.5	12.1	0.0	1.3	6.2
120°	0.7	13.7	40.8	56.8	61.4	56.1	38.5	11.4	0.0	1.3	5.9
122.5°	0.7	13.1	39.2	54.2	59.1	53.8	36.9	11.1	0.0	1.0	5.2
125°	0.7	12.4	36.9	51.2	55.8	50.6	33.9	10.8	0.0	0.7	4.6
127.5°	0.7	11.7	34.6	49.0	53.2	48.3	32.0	10.4	0.0	0.7	4.2
130°	0.7	11.4	31.7	46.0	50.3	45.4	29.7	10.4	0.0	0.7	3.9
132.5°	0.7	11.1	28.4	43.1	47.6	42.4	27.4	10.1	0.0	0.7	3.3
135°	0.7	10.8	25.1	40.1	44.4	39.5	25.5	9.8	0.0	0.7	2.9
137.5°	0.7	10.1	22.2	36.9	41.1	36.2	24.1	9.1	0.0	0.7	2.6
140°	0.7	9.5	19.9	34.3	37.9	33.3	22.2	8.5	0.0	0.3	2.0
142.5°	0.7	8.5	17.9	31.0	34.6	30.3	19.9	7.2	0.0	0.3	2.0
145°	0.7	7.5	16.3	27.1	31.3	27.1	18.6	6.5	0.0	0.3	1.6
147.5°	0.7	6.9	14.7	22.8	28.4	24.8	16.6	5.5	0.0	0.3	1.3
150°	0.7	6.2	12.7	19.3	25.1	21.9	15.3	4.9	0.0	0.0	1.0
152.5°	0.7	5.5	11.1	16.0	22.5	19.9	13.7	4.2	0.0	0.0	0.7
155°	1.0	5.2	9.5	14.0	19.6	17.3	11.4	3.6	0.0	0.0	0.7
157.5°	1.0	4.6	7.8	11.4	17.3	15.0	9.1	2.9	0.0	0.0	0.3
160°	1.0	4.2	6.5	8.8	14.4	12.4	7.5	2.3	0.0	0.0	0.3
162.5°	1.0	3.9	5.5	6.5	11.7	9.8	5.9	1.6	0.0	0.0	0.3
165°	1.0	3.3	4.9	4.6	9.1	7.5	4.6	1.0	0.0	0.0	0.0
167.5°	1.0	2.9	3.9	3.3	6.9	5.5	3.3	0.7	0.0	0.0	0.0
170°	1.0	2.3	3.3	2.3	2.0	3.6	2.0	0.3	0.0	0.0	0.0
172.5°	1.0	2.0	2.6	1.6	0.7	2.0	1.0	0.0	0.0	0.0	0.0
175°	1.0	1.6	1.6	1.0	0.3	0.7	0.0	0.0	0.0	0.0	0.0
177.5°	1.0	1.3	1.0	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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CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-HI-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	996.6	996.6	996.6	996.6	996.6	996.6
2.5°	969.2	958.4	948.7	959.1	966.6	995.6
5°	921.9	910.5	911.8	921.2	946.4	999.2
7.5°	872.9	854.0	858.6	885.0	922.2	982.3
10°	815.2	797.9	802.1	841.9	894.2	972.8
12.5°	763.6	734.6	759.4	796.9	861.5	967.6
15°	703.2	680.4	693.8	749.3	830.2	943.4
17.5°	638.0	620.4	636.4	691.5	791.7	940.8
20°	587.7	563.3	582.2	642.9	744.0	913.4
22.5°	531.3	512.7	532.6	588.4	695.4	884.4
25°	484.9	465.4	485.3	540.7	652.3	850.1
27.5°	439.9	421.9	439.9	490.8	609.6	822.4
30°	400.4	383.1	401.4	450.3	559.7	780.9
32.5°	363.5	341.3	364.8	412.2	515.6	749.3
35°	325.4	308.7	326.3	378.9	466.7	704.9
37.5°	293.7	276.4	297.3	342.3	425.2	661.8
40°	263.7	248.3	265.0	313.0	390.0	609.3
42.5°	240.2	224.8	241.8	286.2	354.4	569.5
45°	217.3	205.9	219.6	256.8	318.5	516.9
47.5°	200.7	190.9	202.3	235.3	288.5	469.6
50°	186.3	179.5	187.6	213.7	257.5	420.3
52.5°	173.6	166.8	176.2	197.1	233.0	375.3
55°	163.8	157.6	164.8	181.4	208.5	332.9
57.5°	153.1	149.1	154.7	164.8	189.3	295.0
60°	145.2	141.0	146.9	155.0	167.4	256.8
62.5°	136.4	134.1	137.7	144.2	150.8	222.2
65°	128.6	125.3	129.9	132.2	131.5	192.5
67.5°	120.1	119.1	121.7	122.0	117.2	162.5
70°	111.3	110.6	113.9	111.9	101.8	134.8
72.5°	104.1	104.1	106.1	102.1	88.8	108.7
75°	96.3	96.9	98.6	94.0	74.7	85.5
77.5°	89.1	89.7	90.1	83.9	62.7	65.3
80°	80.9	80.6	83.9	76.0	50.9	46.7
82.5°	73.8	72.4	74.4	66.6	41.1	30.7
85°	65.6	65.9	67.2	58.1	33.0	18.6
87.5°	59.1	59.1	60.4	51.2	24.8	8.2
90°	51.2	50.6	52.5	43.4	18.6	0.7
92.5°	44.7	44.7	46.0	37.2	13.7	0.7
95°	38.2	38.5	39.5	30.7	10.4	1.0
97.5°	32.6	33.0	34.3	26.1	7.5	1.0
100°	27.7	28.1	28.7	20.9	5.9	0.7
102.5°	23.2	24.1	24.1	17.3	4.6	0.7
105°	19.6	20.9	20.2	14.0	4.2	0.7
107.5°	16.3	17.6	17.6	11.4	4.2	0.7
110°	13.4	15.3	15.0	9.8	3.3	0.7





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	11.4	13.1	12.1	8.5	3.3	0.7
115°	9.8	11.4	10.8	7.8	2.9	0.7
117.5°	8.8	9.8	9.8	7.5	2.9	0.7
120°	8.2	9.1	8.8	7.2	2.9	0.7
122.5°	7.5	8.2	8.2	6.5	2.6	0.7
125°	7.2	7.5	7.8	5.9	2.6	0.7
127.5°	6.9	7.5	7.5	5.5	2.3	0.7
130°	6.2	6.9	6.9	5.2	2.3	0.7
132.5°	5.5	6.2	6.2	4.9	2.3	0.7
135°	5.2	5.9	5.9	4.6	2.3	0.7
137.5°	4.9	5.2	5.2	4.2	2.3	0.7
140°	4.2	4.9	4.9	3.9	2.3	0.7
142.5°	3.9	4.6	4.6	3.6	2.0	0.7
145°	3.6	3.9	4.2	3.3	2.0	0.7
147.5°	2.9	3.6	3.9	2.9	2.0	0.7
150°	2.3	3.3	3.3	2.9	2.0	0.7
152.5°	1.6	2.9	2.9	2.6	1.6	0.7
155°	1.3	2.3	2.6	2.3	1.6	1.0
157.5°	1.0	2.0	2.3	2.3	1.6	1.0
160°	0.7	1.6	2.0	2.0	1.3	1.0
162.5°	0.3	1.3	1.6	2.0	1.3	1.0
165°	0.0	1.0	1.3	1.6	1.3	1.0
167.5°	0.0	0.7	1.0	1.3	1.0	1.0
170°	0.0	0.3	0.7	1.0	1.0	1.0
172.5°	0.0	0.0	0.3	0.7	0.7	1.0
175°	0.0	0.0	0.0	0.3	0.7	1.0
177.5°	0.0	0.0	0.0	0.3	0.7	1.0
180°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P892968  
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-HI-5000K

**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	19.36	20.82	19.82	21.26	21.71	21.53	22.99	21.98	23.42	23.87
	3H	20.19	21.51	20.65	21.95	22.45	23.20	24.51	23.66	24.96	25.46
	4H	20.39	21.63	20.88	22.10	22.61	24.01	25.25	24.50	25.71	26.22
	6H	20.48	21.63	20.98	22.11	22.64	24.84	25.99	25.34	26.47	27.00
	8H	20.49	21.59	21.00	22.08	22.62	25.28	26.38	25.79	26.88	27.41
	12H	20.47	21.53	20.99	22.02	22.58	25.77	26.82	26.29	27.31	27.87
4H	2H	19.79	21.03	20.28	21.49	22.01	21.90	23.14	22.39	23.60	24.11
	3H	20.89	21.93	21.39	22.44	22.97	23.75	24.80	24.25	25.30	25.84
	4H	21.23	22.17	21.75	22.69	23.26	24.70	25.65	25.22	26.16	26.73
	6H	21.42	22.25	21.96	22.79	23.38	25.69	26.53	26.24	27.07	27.65
	8H	21.44	22.22	21.99	22.77	23.36	26.22	27.00	26.77	27.55	28.14
	12H	21.45	22.15	22.02	22.73	23.33	26.82	27.53	27.39	28.10	28.70
8H	4H	21.54	22.32	22.09	22.87	23.46	24.84	25.62	25.39	26.17	26.76
	6H	21.86	22.52	22.44	23.10	23.71	25.97	26.63	26.55	27.21	27.82
	8H	21.95	22.54	22.55	23.14	23.76	26.62	27.21	27.21	27.81	28.42
	12H	22.01	22.53	22.60	23.12	23.80	27.38	27.90	27.97	28.49	29.17
12H	4H	21.62	22.32	22.19	22.89	23.49	24.83	25.54	25.40	26.11	26.71
	6H	21.99	22.58	22.59	23.18	23.80	25.99	26.58	26.58	27.18	27.79
	8H	22.15	22.68	22.75	23.26	23.95	26.69	27.21	27.28	27.80	28.48