

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: P892972

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

Issue Date: 11/11/2024

**Test Information**

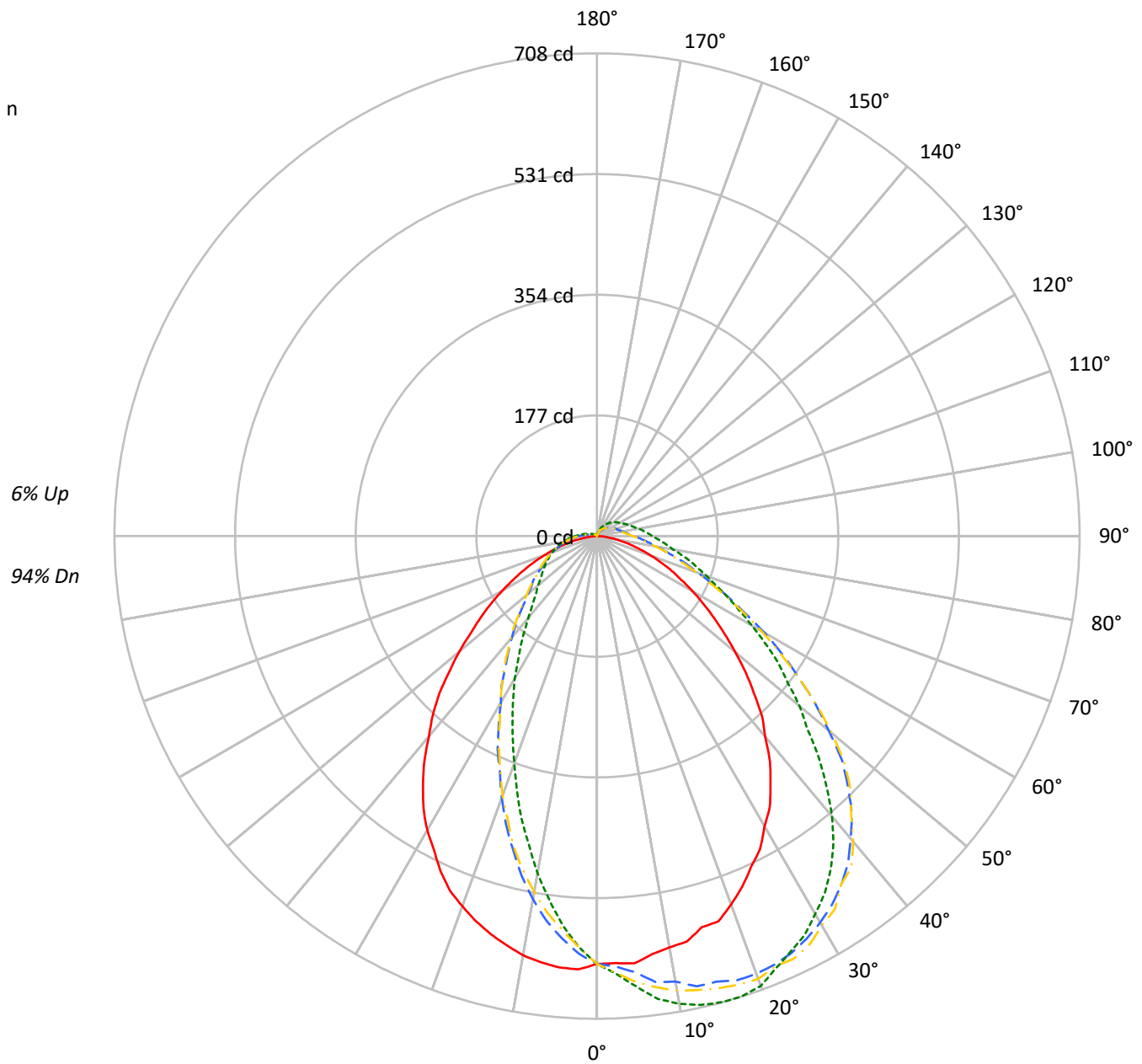
Test Method: LM-79-2019  
Report Number: P892972  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASML-UNV-CC93-MID-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 3500K CCT, MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1564.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 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): 13.9  
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: P892972  
CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-MID-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°	12849	12849	12849	12849
5°	12860	13095	12983	11318
10°	12595	13372	12840	9646
15°	12383	13324	12593	8065
20°	12250	13062	12303	6597
25°	11746	12456	11908	5429
30°	11217	11903	11363	4485
35°	10624	11234	10653	3655
40°	9738	10277	9733	2997
45°	8866	9072	8909	2554
50°	7839	7917	7803	2306
55°	6864	6935	6814	2118
60°	5969	5916	5917	2004
65°	5172	5093	5052	1903
70°	4331	4465	4183	1820
75°	3444	4059	3355	1751
80°	2552	3651	2318	1633
85°	1596	3525	1296	1528

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 12409 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.0	3.8
10°-20°	163.9	10.5
20°-30°	235.7	15.1
30°-40°	267.5	17.1
40°-50°	255.6	16.3
50°-60°	207.7	13.3
60°-70°	144.9	9.3
70°-80°	89.8	5.7
80°-90°	51.5	3.3
90°-100°	30.8	2.0
100°-110°	20.2	1.3
110°-120°	14.2	0.9
120°-130°	10.3	0.7
130°-140°	6.8	0.4
140°-150°	3.8	0.2
150°-160°	1.7	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	458.6	29.3
0°-40°	726.1	46.4
0°-60°	1189.4	76.1
0°-90°	1475.7	94.4
90°-120°	65.2	4.2
90°-150°	86.1	5.5
90°-180°	88.0	5.6
0°-180°	1564.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	628	628	628	628	628	
5°	629	663	635	573	629	59
15°	594	708	604	428	594	169
25°	535	672	543	293	535	247
35°	444	598	445	194	444	277
45°	326	461	327	130	326	251
55°	210	325	208	99	210	189
65°	121	211	118	79	121	120
75°	54	141	52	61	54	58
85°	12	96	10	42	12	13
90°	0	81	0	32	0	1
95°	1	70	0	24	1	0
105°	0	54	0	13	0	0
115°	0	43	0	7	0	0
125°	0	35	0	5	0	0
135°	0	28	0	4	0	0
145°	0	20	0	2	0	0
155°	1	12	0	1	1	0
165°	1	6	0	1	1	0
175°	1	0	0	0	1	0
180°	0	0	0	0	0	0



TEST NUMBER: P892972

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5
2.5°	626.9	631.6	632.0	646.8	642.5	648.1	641.1	642.3	636.1	634.5	613.1
5°	629.1	639.2	641.9	667.4	663.3	666.1	656.5	649.5	635.1	626.5	592.0
7.5°	618.5	645.0	659.8	677.8	684.6	686.9	667.4	654.4	630.6	609.4	568.9
10°	612.5	649.1	663.5	690.6	696.5	692.2	677.0	655.7	624.4	590.3	540.6
12.5°	609.2	651.3	676.4	704.1	704.3	699.8	682.0	658.9	614.4	569.8	510.6
15°	594.0	650.9	676.6	704.8	707.8	705.0	686.7	656.7	604.1	544.3	476.1
17.5°	592.4	649.9	683.2	712.8	707.6	705.6	689.6	655.7	591.8	518.4	443.6
20°	575.1	647.6	683.2	703.7	702.1	702.9	691.4	654.2	577.6	490.5	408.1
22.5°	556.8	645.0	680.3	695.9	686.1	701.1	683.2	650.3	563.2	461.3	372.7
25°	535.2	640.7	674.8	684.8	672.3	684.0	683.8	644.4	542.6	429.8	344.8
27.5°	517.8	633.9	665.7	680.9	659.6	669.6	675.4	637.2	518.4	398.8	311.9
30°	491.7	625.2	654.8	657.1	640.2	653.0	659.6	628.1	498.1	363.7	281.9
32.5°	471.8	615.4	641.5	638.4	621.5	638.4	649.1	619.1	473.8	332.9	260.7
35°	443.8	603.5	624.8	608.6	597.5	611.5	624.0	609.4	445.0	300.0	233.6
37.5°	416.7	593.0	604.9	584.8	569.6	585.2	612.7	591.3	416.1	273.9	213.5
40°	383.6	568.9	578.8	551.5	536.3	559.3	584.6	575.7	383.4	246.8	194.0
42.5°	358.5	551.1	553.9	516.5	498.5	522.9	551.7	553.5	356.9	222.3	176.7
45°	325.5	526.0	520.7	479.6	460.7	482.6	525.8	530.7	327.1	201.2	159.9
47.5°	295.7	498.1	487.6	439.5	418.3	444.4	492.3	505.2	293.8	181.6	144.0
50°	264.6	466.8	443.6	402.1	387.9	400.9	449.8	471.1	263.4	162.3	131.9
52.5°	236.3	432.3	403.5	366.4	352.2	362.9	405.2	437.2	233.2	146.1	121.2
55°	209.6	397.8	360.6	327.7	324.8	328.1	360.0	396.8	208.1	131.7	114.4
57.5°	185.7	355.9	322.0	297.7	292.6	295.3	317.2	355.1	183.9	117.3	104.6
60°	161.7	312.9	283.8	265.1	262.2	264.2	278.4	314.4	160.3	105.2	95.3
62.5°	139.9	269.8	243.9	236.9	234.9	234.9	240.8	273.7	138.1	92.9	88.4
65°	121.2	232.8	213.3	210.6	211.2	211.0	207.3	228.5	118.4	82.0	82.2
67.5°	102.3	193.6	182.7	185.9	188.4	187.4	179.6	190.1	99.9	72.1	76.6
70°	84.9	159.9	157.8	165.2	171.0	165.6	154.3	155.3	82.0	62.5	69.4
72.5°	68.4	129.2	138.7	149.0	154.5	148.6	132.9	128.4	66.0	53.6	62.9
75°	53.8	104.0	119.0	134.2	141.4	133.8	115.7	100.3	52.4	45.2	57.5
77.5°	41.1	82.4	101.7	119.4	126.4	119.8	100.7	78.3	38.4	38.0	51.8
80°	29.4	65.1	90.2	107.3	113.6	107.3	87.3	61.8	26.7	30.4	45.6
82.5°	19.3	50.3	78.5	97.6	104.6	96.8	75.8	47.7	17.1	24.7	41.1
85°	11.7	39.9	68.4	87.7	95.7	88.1	66.4	36.2	9.5	18.9	35.8
87.5°	5.1	30.8	61.0	81.0	88.1	81.2	59.2	28.4	3.9	14.8	30.6
90°	0.4	24.5	53.8	74.6	81.0	74.4	52.4	23.0	0.0	10.7	26.3
92.5°	0.4	21.0	49.3	69.0	76.2	68.8	47.3	18.9	0.0	7.8	22.2
95°	0.6	17.7	44.8	64.7	70.5	64.1	43.1	16.2	0.0	5.3	18.7
97.5°	0.6	16.0	41.1	60.4	66.8	60.0	39.5	14.6	0.0	3.9	15.2
100°	0.4	14.8	38.2	56.3	62.3	55.9	36.6	13.2	0.0	2.5	12.3
102.5°	0.4	13.8	35.8	52.8	57.5	52.2	34.1	12.3	0.0	2.1	10.1
105°	0.4	13.2	33.5	48.7	54.2	48.7	32.1	11.5	0.0	1.6	7.8
107.5°	0.4	12.3	31.8	46.4	51.0	46.0	30.4	10.9	0.0	1.6	6.4
110°	0.4	11.7	30.4	43.1	48.3	43.6	29.0	9.9	0.0	1.0	5.1



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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°	0.4	10.7	29.0	40.9	45.8	41.1	27.7	9.0	0.0	1.0	4.5
115°	0.4	9.7	27.7	39.5	43.1	39.0	26.5	8.0	0.0	0.8	4.1
117.5°	0.4	9.0	26.9	37.6	41.3	37.2	25.5	7.6	0.0	0.8	3.9
120°	0.4	8.6	25.7	35.8	38.6	35.3	24.2	7.2	0.0	0.8	3.7
122.5°	0.4	8.2	24.7	34.1	37.2	33.9	23.2	7.0	0.0	0.6	3.3
125°	0.4	7.8	23.2	32.3	35.1	31.8	21.4	6.8	0.0	0.4	2.9
127.5°	0.4	7.4	21.8	30.8	33.5	30.4	20.1	6.6	0.0	0.4	2.7
130°	0.4	7.2	19.9	29.0	31.6	28.6	18.7	6.6	0.0	0.4	2.5
132.5°	0.4	7.0	17.9	27.1	30.0	26.7	17.3	6.4	0.0	0.4	2.1
135°	0.4	6.8	15.8	25.3	27.9	24.9	16.0	6.2	0.0	0.4	1.8
137.5°	0.4	6.4	14.0	23.2	25.9	22.8	15.2	5.8	0.0	0.4	1.6
140°	0.4	6.0	12.5	21.6	23.8	21.0	14.0	5.3	0.0	0.2	1.2
142.5°	0.4	5.3	11.3	19.5	21.8	19.1	12.5	4.5	0.0	0.2	1.2
145°	0.4	4.7	10.3	17.1	19.7	17.1	11.7	4.1	0.0	0.2	1.0
147.5°	0.4	4.3	9.2	14.4	17.9	15.6	10.5	3.5	0.0	0.2	0.8
150°	0.4	3.9	8.0	12.1	15.8	13.8	9.7	3.1	0.0	0.0	0.6
152.5°	0.4	3.5	7.0	10.1	14.2	12.5	8.6	2.7	0.0	0.0	0.4
155°	0.6	3.3	6.0	8.8	12.3	10.9	7.2	2.3	0.0	0.0	0.4
157.5°	0.6	2.9	4.9	7.2	10.9	9.5	5.8	1.8	0.0	0.0	0.2
160°	0.6	2.7	4.1	5.5	9.0	7.8	4.7	1.4	0.0	0.0	0.2
162.5°	0.6	2.5	3.5	4.1	7.4	6.2	3.7	1.0	0.0	0.0	0.2
165°	0.6	2.1	3.1	2.9	5.8	4.7	2.9	0.6	0.0	0.0	0.0
167.5°	0.6	1.8	2.5	2.1	4.3	3.5	2.1	0.4	0.0	0.0	0.0
170°	0.6	1.4	2.1	1.4	1.2	2.3	1.2	0.2	0.0	0.0	0.0
172.5°	0.6	1.2	1.6	1.0	0.4	1.2	0.6	0.0	0.0	0.0	0.0
175°	0.6	1.0	1.0	0.6	0.2	0.4	0.0	0.0	0.0	0.0	0.0
177.5°	0.6	0.8	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P892972

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

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	627.5	627.5	627.5	627.5	627.5	627.5
2.5°	610.2	603.5	597.3	603.9	608.6	626.9
5°	580.5	573.3	574.1	580.0	595.9	629.1
7.5°	549.6	537.7	540.6	557.2	580.7	618.5
10°	513.3	502.4	505.0	530.1	563.0	612.5
12.5°	480.8	462.5	478.1	501.8	542.4	609.2
15°	442.8	428.4	436.8	471.8	522.7	594.0
17.5°	401.7	390.6	400.7	435.4	498.5	592.4
20°	370.1	354.6	366.6	404.8	468.5	575.1
22.5°	334.5	322.8	335.3	370.5	437.9	556.8
25°	305.3	293.0	305.5	340.5	410.7	535.2
27.5°	277.0	265.7	277.0	309.0	383.8	517.8
30°	252.1	241.2	252.7	283.5	352.4	491.7
32.5°	228.9	214.9	229.7	259.5	324.6	471.8
35°	204.9	194.4	205.5	238.5	293.8	443.8
37.5°	184.9	174.0	187.2	215.5	267.7	416.7
40°	166.0	156.4	166.8	197.0	245.5	383.6
42.5°	151.2	141.6	152.3	180.2	223.1	358.5
45°	136.8	129.7	138.3	161.7	200.5	325.5
47.5°	126.4	120.2	127.4	148.1	181.6	295.7
50°	117.3	113.0	118.1	134.6	162.1	264.6
52.5°	109.3	105.0	111.0	124.1	146.7	236.3
55°	103.1	99.2	103.8	114.2	131.3	209.6
57.5°	96.4	93.9	97.4	103.8	119.2	185.7
60°	91.4	88.8	92.5	97.6	105.4	161.7
62.5°	85.9	84.4	86.7	90.8	94.9	139.9
65°	81.0	78.9	81.8	83.2	82.8	121.2
67.5°	75.6	75.0	76.6	76.8	73.8	102.3
70°	70.1	69.7	71.7	70.5	64.1	84.9
72.5°	65.5	65.5	66.8	64.3	55.9	68.4
75°	60.6	61.0	62.1	59.2	47.1	53.8
77.5°	56.1	56.5	56.7	52.8	39.5	41.1
80°	51.0	50.8	52.8	47.9	32.1	29.4
82.5°	46.4	45.6	46.8	41.9	25.9	19.3
85°	41.3	41.5	42.3	36.6	20.8	11.7
87.5°	37.2	37.2	38.0	32.3	15.6	5.1
90°	32.3	31.8	33.1	27.3	11.7	0.4
92.5°	28.1	28.1	29.0	23.4	8.6	0.4
95°	24.0	24.2	24.9	19.3	6.6	0.6
97.5°	20.5	20.8	21.6	16.4	4.7	0.6
100°	17.5	17.7	18.1	13.2	3.7	0.4
102.5°	14.6	15.2	15.2	10.9	2.9	0.4
105°	12.3	13.2	12.7	8.8	2.7	0.4
107.5°	10.3	11.1	11.1	7.2	2.7	0.4
110°	8.4	9.7	9.5	6.2	2.1	0.4





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	7.2	8.2	7.6	5.3	2.1	0.4
115°	6.2	7.2	6.8	4.9	1.8	0.4
117.5°	5.5	6.2	6.2	4.7	1.8	0.4
120°	5.1	5.8	5.5	4.5	1.8	0.4
122.5°	4.7	5.1	5.1	4.1	1.6	0.4
125°	4.5	4.7	4.9	3.7	1.6	0.4
127.5°	4.3	4.7	4.7	3.5	1.4	0.4
130°	3.9	4.3	4.3	3.3	1.4	0.4
132.5°	3.5	3.9	3.9	3.1	1.4	0.4
135°	3.3	3.7	3.7	2.9	1.4	0.4
137.5°	3.1	3.3	3.3	2.7	1.4	0.4
140°	2.7	3.1	3.1	2.5	1.4	0.4
142.5°	2.5	2.9	2.9	2.3	1.2	0.4
145°	2.3	2.5	2.7	2.1	1.2	0.4
147.5°	1.8	2.3	2.5	1.8	1.2	0.4
150°	1.4	2.1	2.1	1.8	1.2	0.4
152.5°	1.0	1.8	1.8	1.6	1.0	0.4
155°	0.8	1.4	1.6	1.4	1.0	0.6
157.5°	0.6	1.2	1.4	1.4	1.0	0.6
160°	0.4	1.0	1.2	1.2	0.8	0.6
162.5°	0.2	0.8	1.0	1.2	0.8	0.6
165°	0.0	0.6	0.8	1.0	0.8	0.6
167.5°	0.0	0.4	0.6	0.8	0.6	0.6
170°	0.0	0.2	0.4	0.6	0.6	0.6
172.5°	0.0	0.0	0.2	0.4	0.4	0.6
175°	0.0	0.0	0.0	0.2	0.4	0.6
177.5°	0.0	0.0	0.0	0.2	0.4	0.6
180°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P892972  
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-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	17.76	19.22	18.21	19.65	20.10	19.92	21.38	20.37	21.81	22.27
	3H	18.58	19.90	19.05	20.34	20.84	21.59	22.91	22.06	23.35	23.85
	4H	18.78	20.03	19.27	20.49	21.00	22.40	23.64	22.89	24.11	24.62
	6H	18.88	20.03	19.38	20.50	21.03	23.23	24.39	23.74	24.86	25.39
	8H	18.88	19.98	19.39	20.48	21.01	23.67	24.77	24.19	25.27	25.80
	12H	18.87	19.92	19.39	20.41	20.97	24.16	25.21	24.68	25.70	26.27
4H	2H	18.18	19.42	18.67	19.89	20.40	20.29	21.53	20.78	21.99	22.51
	3H	19.28	20.32	19.78	20.83	21.36	22.14	23.19	22.65	23.70	24.23
	4H	19.62	20.57	20.14	21.08	21.65	23.09	24.04	23.61	24.56	25.13
	6H	19.81	20.64	20.35	21.19	21.77	24.09	24.92	24.63	25.46	26.05
	8H	19.84	20.62	20.39	21.16	21.76	24.62	25.40	25.17	25.94	26.53
	12H	19.85	20.55	20.41	21.12	21.72	25.22	25.92	25.79	26.49	27.09
8H	4H	19.94	20.72	20.49	21.26	21.85	23.24	24.01	23.78	24.56	25.15
	6H	20.26	20.91	20.84	21.50	22.10	24.37	25.02	24.95	25.61	26.21
	8H	20.35	20.93	20.94	21.53	22.15	25.01	25.60	25.61	26.20	26.81
	12H	20.40	20.93	21.00	21.51	22.20	25.77	26.29	26.36	26.88	27.56
12H	4H	20.01	20.71	20.58	21.29	21.88	23.23	23.93	23.80	24.50	25.10
	6H	20.39	20.98	20.98	21.58	22.19	24.38	24.97	24.97	25.57	26.18
	8H	20.55	21.07	21.14	21.66	22.34	25.08	25.61	25.68	26.19	26.88