

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: P892974

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892974
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

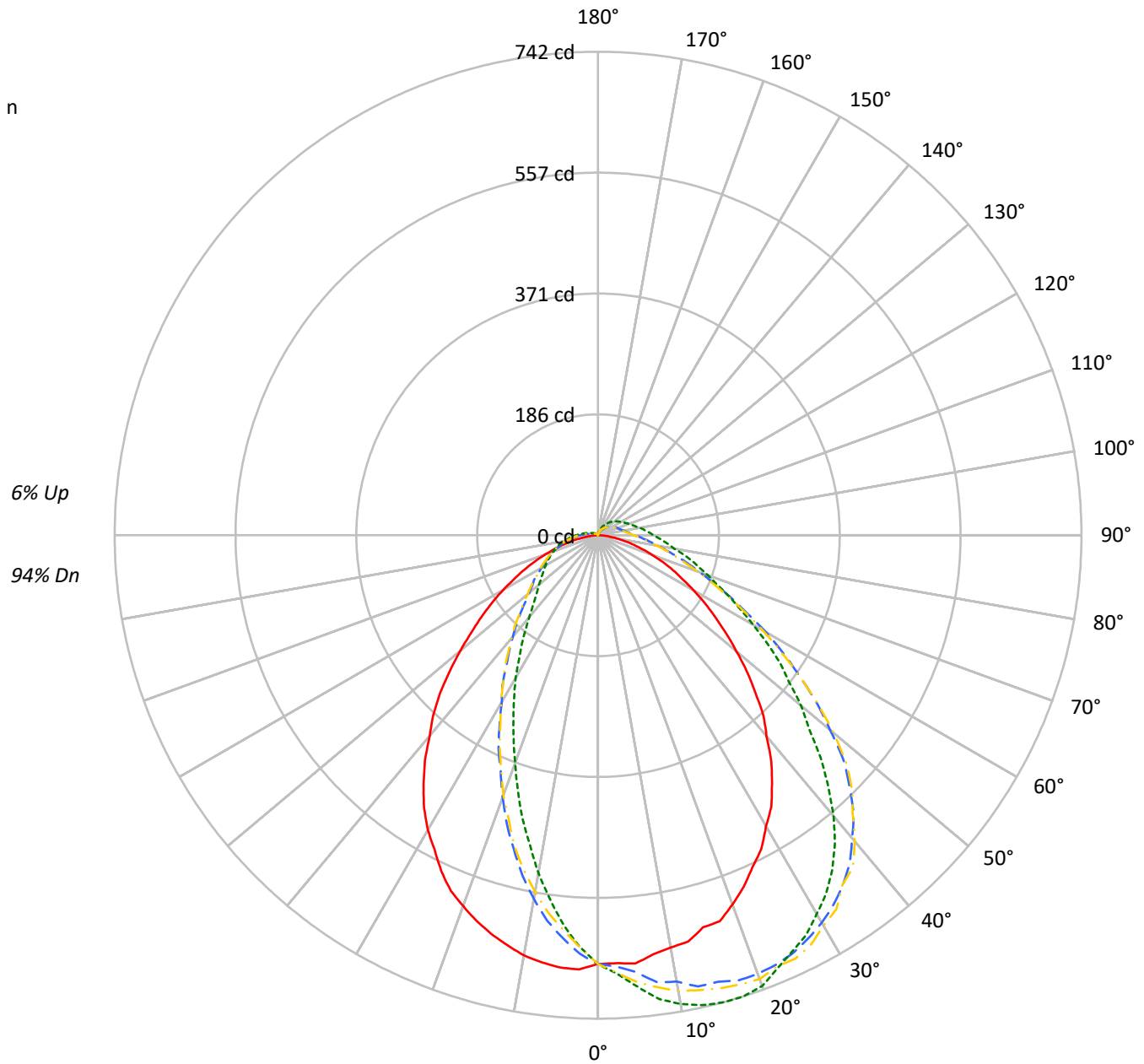
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1640.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

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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°	13474	13474	13474	13474
5°	13485	13730	13614	11867
10°	13208	14023	13465	10114
15°	12985	13972	13204	8456
20°	12847	13696	12900	6919
25°	12319	13062	12488	5692
30°	11762	12483	11915	4702
35°	11141	11779	11172	3832
40°	10212	10775	10205	3143
45°	9296	9511	9343	2678
50°	8221	8303	8183	2419
55°	7198	7272	7148	2223
60°	6261	6202	6205	2101
65°	5424	5341	5296	1994
70°	4540	4682	4387	1906
75°	3611	4254	3515	1837
80°	2674	3828	2431	1710
85°	1678	3698	1351	1602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 13012 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	3.8
10°-20°	171.8	10.5
20°-30°	247.2	15.1
30°-40°	280.5	17.1
40°-50°	268.1	16.3
50°-60°	217.8	13.3
60°-70°	152.0	9.3
70°-80°	94.1	5.7
80°-90°	54.0	3.3
90°-100°	32.3	2.0
100°-110°	21.2	1.3
110°-120°	14.9	0.9
120°-130°	10.8	0.7
130°-140°	7.1	0.4
140°-150°	4.0	0.2
150°-160°	1.8	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	480.8	29.3
0°-40°	761.3	46.4
0°-60°	1247.2	76.1
0°-90°	1547.4	94.4
90°-120°	68.3	4.2
90°-150°	90.3	5.5
90°-180°	93.0	5.7
0°-180°	1640.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	658	658	658	658	658	
5°	660	696	666	601	660	62
15°	623	742	633	449	623	177
25°	561	705	569	307	561	259
35°	465	626	467	204	465	290
45°	341	483	343	136	341	263
55°	220	341	218	104	220	198
65°	127	222	124	83	127	126
75°	56	148	55	64	56	61
85°	12	100	10	44	12	14
90°	0	85	0	33	0	1
95°	1	74	0	25	1	0
105°	0	57	0	14	0	0
115°	0	45	0	8	0	0
125°	0	37	0	5	0	0
135°	0	29	0	4	0	0
145°	0	21	0	3	0	0
155°	1	13	0	2	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: P892974

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
2.5°	657.3	662.3	662.7	678.2	673.7	679.5	672.2	673.5	667.0	665.3	642.9
5°	659.7	670.3	673.1	699.8	695.5	698.5	688.4	681.0	666.0	656.9	620.7
7.5°	648.5	676.3	691.8	710.8	717.9	720.3	699.8	686.2	661.2	639.0	596.6
10°	642.3	680.6	695.7	724.1	730.4	725.9	709.9	687.5	654.8	619.0	566.9
12.5°	638.8	683.0	709.3	738.4	738.6	733.8	715.1	691.0	644.2	597.5	535.4
15°	622.9	682.6	709.5	739.0	742.2	739.2	720.0	688.6	633.4	570.7	499.2
17.5°	621.2	681.5	716.4	747.4	742.0	739.9	723.1	687.5	620.5	543.6	465.2
20°	603.1	679.1	716.4	737.9	736.2	737.1	725.0	686.0	605.6	514.3	427.9
22.5°	583.9	676.3	713.4	729.7	719.4	735.1	716.4	681.9	590.6	483.7	390.8
25°	561.3	671.8	707.6	718.1	705.0	717.2	717.0	675.7	569.0	450.7	361.5
27.5°	542.9	664.7	698.1	714.0	691.6	702.2	708.2	668.1	543.6	418.2	327.1
30°	515.6	655.6	686.7	689.0	671.4	684.7	691.6	658.6	522.3	381.4	295.6
32.5°	494.7	645.3	672.6	669.4	651.7	669.4	680.6	649.2	496.8	349.0	273.4
35°	465.4	632.8	655.2	638.2	626.5	641.2	654.3	639.0	466.7	314.6	245.0
37.5°	436.9	621.8	634.3	613.2	597.2	613.6	642.5	620.1	436.3	287.2	223.9
40°	402.3	596.6	606.9	578.3	562.3	586.5	613.0	603.7	402.0	258.8	203.4
42.5°	376.0	577.8	580.9	541.7	522.7	548.3	578.5	580.4	374.2	233.1	185.3
45°	341.3	551.6	546.0	502.9	483.0	506.1	551.3	556.5	343.0	210.9	167.6
47.5°	310.0	522.3	511.3	460.9	438.7	466.0	516.2	529.8	308.1	190.5	151.0
50°	277.5	489.5	465.2	421.6	406.8	420.4	471.6	494.0	276.2	170.2	138.3
52.5°	247.8	453.3	423.2	384.2	369.3	380.5	424.9	458.5	244.5	153.2	127.1
55°	219.8	417.1	378.1	343.6	340.6	344.1	377.5	416.0	218.3	138.1	120.0
57.5°	194.8	373.2	337.6	312.2	306.8	309.6	332.7	372.3	192.8	123.0	109.7
60°	169.6	328.1	297.5	277.9	274.9	277.1	291.9	329.6	168.1	110.3	100.0
62.5°	146.7	282.9	255.7	248.4	246.3	246.3	252.5	287.0	144.8	97.4	92.6
65°	127.1	244.1	223.6	220.8	221.5	221.3	217.4	239.6	124.1	86.0	86.2
67.5°	107.3	203.0	191.5	195.0	197.6	196.5	188.3	199.3	104.7	75.6	80.4
70°	89.0	167.6	165.5	173.2	179.3	173.7	161.8	162.9	86.0	65.5	72.8
72.5°	71.7	135.5	145.4	156.2	162.0	155.8	139.4	134.7	69.2	56.2	65.9
75°	56.4	109.0	124.7	140.7	148.2	140.3	121.3	105.1	54.9	47.4	60.3
77.5°	43.1	86.4	106.6	125.2	132.5	125.6	105.6	82.1	40.3	39.9	54.3
80°	30.8	68.3	94.6	112.5	119.1	112.5	91.6	64.9	28.0	31.9	47.8
82.5°	20.3	52.8	82.3	102.3	109.7	101.5	79.5	50.0	17.9	25.9	43.1
85°	12.3	41.8	71.7	92.0	100.4	92.4	69.6	37.9	9.9	19.8	37.5
87.5°	5.4	32.3	64.0	84.9	92.4	85.1	62.1	29.7	4.1	15.5	32.1
90°	0.4	25.6	56.4	78.2	84.9	78.0	54.9	24.1	0.0	11.2	27.6
92.5°	0.4	22.0	51.7	72.4	79.9	72.2	49.6	19.8	0.0	8.2	23.3
95°	0.6	18.5	47.0	67.9	73.9	67.2	45.2	17.0	0.0	5.6	19.6
97.5°	0.6	16.8	43.1	63.3	70.0	62.9	41.4	15.3	0.0	4.1	15.9
100°	0.4	15.5	40.1	59.0	65.3	58.6	38.4	13.8	0.0	2.6	12.9
102.5°	0.4	14.4	37.5	55.4	60.3	54.7	35.8	12.9	0.0	2.2	10.6
105°	0.4	13.8	35.1	51.1	56.9	51.1	33.6	12.1	0.0	1.7	8.2
107.5°	0.4	12.9	33.4	48.7	53.4	48.3	31.9	11.4	0.0	1.7	6.7
110°	0.4	12.3	31.9	45.2	50.6	45.7	30.4	10.3	0.0	1.1	5.4



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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	11.2	30.4	42.9	48.0	43.1	29.1	9.5	0.0	1.1	4.7
115°	0.4	10.1	29.1	41.4	45.2	40.9	27.8	8.4	0.0	0.9	4.3
117.5°	0.4	9.5	28.2	39.4	43.3	39.0	26.7	8.0	0.0	0.9	4.1
120°	0.4	9.0	26.9	37.5	40.5	37.1	25.4	7.5	0.0	0.9	3.9
122.5°	0.4	8.6	25.9	35.8	39.0	35.5	24.3	7.3	0.0	0.6	3.4
125°	0.4	8.2	24.3	33.8	36.8	33.4	22.4	7.1	0.0	0.4	3.0
127.5°	0.4	7.8	22.8	32.3	35.1	31.9	21.1	6.9	0.0	0.4	2.8
130°	0.4	7.5	20.9	30.4	33.2	29.9	19.6	6.9	0.0	0.4	2.6
132.5°	0.4	7.3	18.7	28.4	31.5	28.0	18.1	6.7	0.0	0.4	2.2
135°	0.4	7.1	16.6	26.5	29.3	26.1	16.8	6.5	0.0	0.4	1.9
137.5°	0.4	6.7	14.7	24.3	27.1	23.9	15.9	6.0	0.0	0.4	1.7
140°	0.4	6.2	13.1	22.6	25.0	22.0	14.7	5.6	0.0	0.2	1.3
142.5°	0.4	5.6	11.8	20.5	22.8	20.0	13.1	4.7	0.0	0.2	1.3
145°	0.4	5.0	10.8	17.9	20.7	17.9	12.3	4.3	0.0	0.2	1.1
147.5°	0.4	4.5	9.7	15.1	18.7	16.4	11.0	3.7	0.0	0.2	0.9
150°	0.4	4.1	8.4	12.7	16.6	14.4	10.1	3.2	0.0	0.0	0.6
152.5°	0.4	3.7	7.3	10.6	14.9	13.1	9.0	2.8	0.0	0.0	0.4
155°	0.6	3.4	6.2	9.3	12.9	11.4	7.5	2.4	0.0	0.0	0.4
157.5°	0.6	3.0	5.2	7.5	11.4	9.9	6.0	1.9	0.0	0.0	0.2
160°	0.6	2.8	4.3	5.8	9.5	8.2	5.0	1.5	0.0	0.0	0.2
162.5°	0.6	2.6	3.7	4.3	7.8	6.5	3.9	1.1	0.0	0.0	0.2
165°	0.6	2.2	3.2	3.0	6.0	5.0	3.0	0.6	0.0	0.0	0.0
167.5°	0.6	1.9	2.6	2.2	4.5	3.7	2.2	0.4	0.0	0.0	0.0
170°	0.6	1.5	2.2	1.5	1.3	2.4	1.3	0.2	0.0	0.0	0.0
172.5°	0.6	1.3	1.7	1.1	0.4	1.3	0.6	0.0	0.0	0.0	0.0
175°	0.6	1.1	1.1	0.6	0.2	0.4	0.0	0.0	0.0	0.0	0.0
177.5°	0.6	0.9	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



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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	658.0	658.0	658.0	658.0	658.0	658.0
2.5°	639.9	632.8	626.3	633.2	638.2	657.3
5°	608.7	601.1	602.0	608.2	624.8	659.7
7.5°	576.3	563.8	566.9	584.3	608.9	648.5
10°	538.2	526.8	529.6	555.9	590.3	642.3
12.5°	504.2	485.0	501.4	526.1	568.8	638.8
15°	464.3	449.2	458.1	494.7	548.1	622.9
17.5°	421.2	409.6	420.1	456.5	522.7	621.2
20°	388.0	371.9	384.4	424.4	491.2	603.1
22.5°	350.8	338.5	351.6	388.5	459.1	583.9
25°	320.2	307.2	320.4	357.0	430.7	561.3
27.5°	290.4	278.6	290.4	324.0	402.5	542.9
30°	264.4	252.9	265.0	297.3	369.5	515.6
32.5°	240.0	225.4	240.9	272.1	340.4	494.7
35°	214.8	203.8	215.5	250.1	308.1	465.4
37.5°	193.9	182.5	196.3	226.0	280.7	436.9
40°	174.1	164.0	174.9	206.6	257.5	402.3
42.5°	158.6	148.4	159.7	189.0	234.0	376.0
45°	143.5	136.0	145.0	169.6	210.3	341.3
47.5°	132.5	126.0	133.6	155.3	190.5	310.0
50°	123.0	118.5	123.9	141.1	170.0	277.5
52.5°	114.6	110.1	116.3	130.1	153.8	247.8
55°	108.2	104.1	108.8	119.8	137.7	219.8
57.5°	101.0	98.5	102.1	108.8	125.0	194.8
60°	95.9	93.1	97.0	102.3	110.5	169.6
62.5°	90.1	88.6	90.9	95.2	99.5	146.7
65°	84.9	82.7	85.8	87.3	86.8	127.1
67.5°	79.3	78.6	80.4	80.6	77.3	107.3
70°	73.5	73.0	75.2	73.9	67.2	89.0
72.5°	68.7	68.7	70.0	67.4	58.6	71.7
75°	63.6	64.0	65.1	62.1	49.3	56.4
77.5°	58.8	59.2	59.5	55.4	41.4	43.1
80°	53.4	53.2	55.4	50.2	33.6	30.8
82.5°	48.7	47.8	49.1	44.0	27.1	20.3
85°	43.3	43.5	44.4	38.4	21.8	12.3
87.5°	39.0	39.0	39.9	33.8	16.4	5.4
90°	33.8	33.4	34.7	28.7	12.3	0.4
92.5°	29.5	29.5	30.4	24.6	9.0	0.4
95°	25.2	25.4	26.1	20.3	6.9	0.6
97.5°	21.5	21.8	22.6	17.2	5.0	0.6
100°	18.3	18.5	19.0	13.8	3.9	0.4
102.5°	15.3	15.9	15.9	11.4	3.0	0.4
105°	12.9	13.8	13.4	9.3	2.8	0.4
107.5°	10.8	11.6	11.6	7.5	2.8	0.4
110°	8.8	10.1	9.9	6.5	2.2	0.4



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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	7.5	8.6	8.0	5.6	2.2	0.4
115°	6.5	7.5	7.1	5.2	1.9	0.4
117.5°	5.8	6.5	6.5	5.0	1.9	0.4
120°	5.4	6.0	5.8	4.7	1.9	0.4
122.5°	5.0	5.4	5.4	4.3	1.7	0.4
125°	4.7	5.0	5.2	3.9	1.7	0.4
127.5°	4.5	5.0	5.0	3.7	1.5	0.4
130°	4.1	4.5	4.5	3.4	1.5	0.4
132.5°	3.7	4.1	4.1	3.2	1.5	0.4
135°	3.4	3.9	3.9	3.0	1.5	0.4
137.5°	3.2	3.4	3.4	2.8	1.5	0.4
140°	2.8	3.2	3.2	2.6	1.5	0.4
142.5°	2.6	3.0	3.0	2.4	1.3	0.4
145°	2.4	2.6	2.8	2.2	1.3	0.4
147.5°	1.9	2.4	2.6	1.9	1.3	0.4
150°	1.5	2.2	2.2	1.9	1.3	0.4
152.5°	1.1	1.9	1.9	1.7	1.1	0.4
155°	0.9	1.5	1.7	1.5	1.1	0.6
157.5°	0.6	1.3	1.5	1.5	1.1	0.6
160°	0.4	1.1	1.3	1.3	0.9	0.6
162.5°	0.2	0.9	1.1	1.3	0.9	0.6
165°	0.0	0.6	0.9	1.1	0.9	0.6
167.5°	0.0	0.4	0.6	0.9	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: P892974
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-MID-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	17.92	19.38	18.38	19.81	20.27	20.09	21.54	20.54	21.98	22.43
	3H	18.75	20.06	19.21	20.51	21.00	21.75	23.07	22.22	23.52	24.01
	4H	18.95	20.19	19.44	20.65	21.17	22.57	23.81	23.05	24.27	24.78
	6H	19.04	20.19	19.54	20.67	21.20	23.40	24.55	23.90	25.03	25.55
	8H	19.04	20.14	19.56	20.64	21.18	23.84	24.94	24.35	25.43	25.97
	12H	19.03	20.08	19.55	20.58	21.14	24.32	25.38	24.84	25.87	26.43
4H	2H	18.35	19.59	18.84	20.05	20.56	20.46	21.70	20.94	22.16	22.67
	3H	19.44	20.49	19.95	20.99	21.53	22.31	23.35	22.81	23.86	24.39
	4H	19.78	20.73	20.30	21.25	21.82	23.26	24.20	23.78	24.72	25.29
	6H	19.98	20.81	20.52	21.35	21.93	24.25	25.08	24.80	25.63	26.21
	8H	20.00	20.78	20.55	21.33	21.92	24.78	25.56	25.33	26.10	26.70
	12H	20.01	20.71	20.58	21.29	21.89	25.38	26.08	25.95	26.66	27.26
8H	4H	20.10	20.88	20.65	21.42	22.02	23.40	24.18	23.95	24.72	25.32
	6H	20.42	21.07	21.00	21.66	22.26	24.53	25.18	25.11	25.77	26.37
	8H	20.51	21.10	21.11	21.70	22.31	25.17	25.76	25.77	26.36	26.98
	12H	20.57	21.09	21.16	21.68	22.36	25.94	26.46	26.53	27.05	27.73
12H	4H	20.17	20.88	20.74	21.45	22.05	23.39	24.10	23.96	24.67	25.27
	6H	20.55	21.14	21.15	21.74	22.36	24.54	25.13	25.14	25.73	26.35
	8H	20.71	21.23	21.30	21.82	22.50	25.25	25.77	25.84	26.36	27.04