

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: P892965

Luminaire Tested: 2MB-SC3-ASML-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892965
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-CC83-MID-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

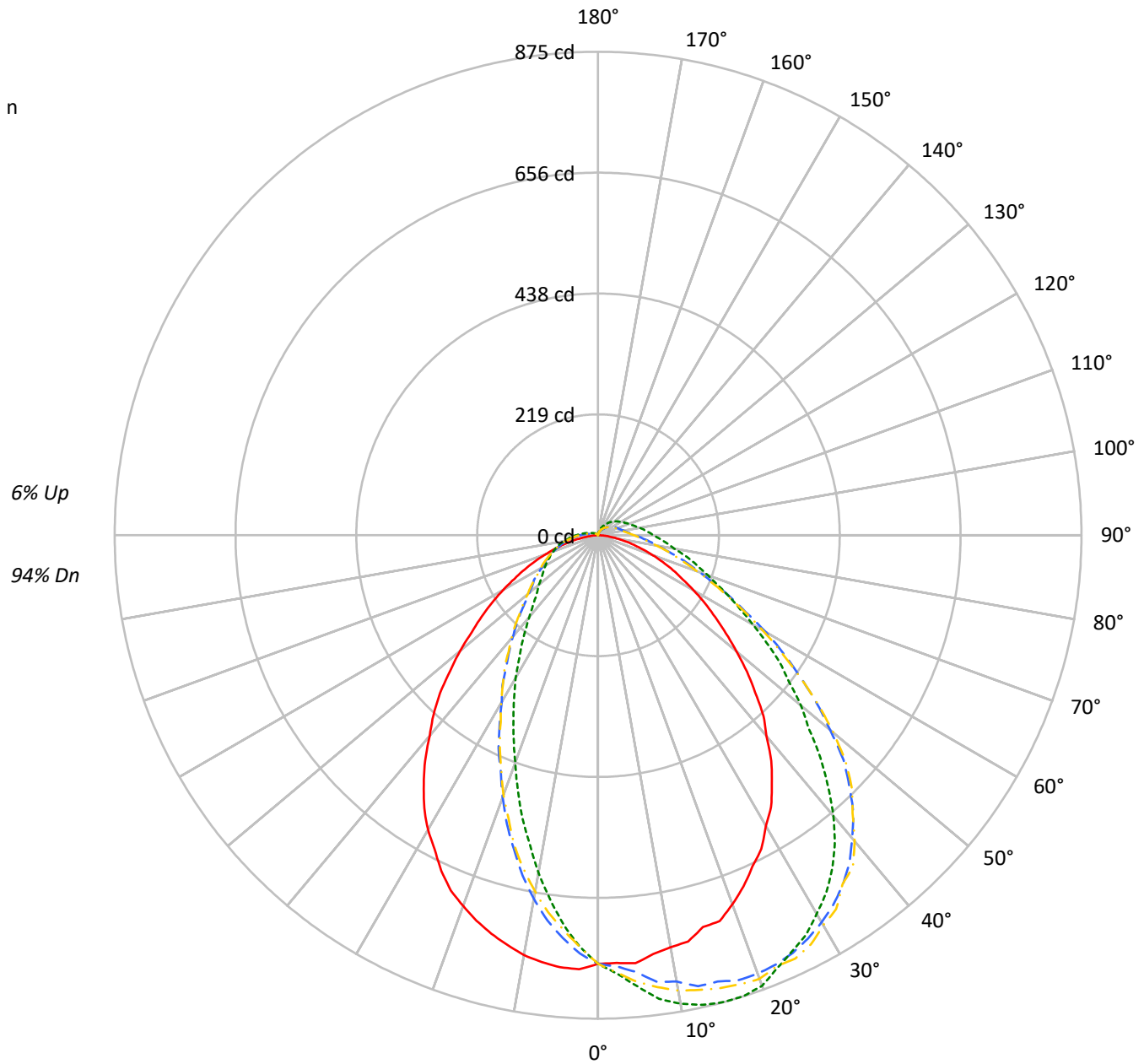
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1933.0 lumens
Efficiency: N/A
Efficacy: 139.1 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: P892965
CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-MID-5000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - 90°-270° - · - 135°-315°



TEST NUMBER: P892965
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-MID-5000K

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°	15882	15882	15882	15882
5°	15896	16182	16045	13987
10°	15566	16529	15869	11921
15°	15305	16468	15564	9968
20°	15141	16143	15205	8154
25°	14518	15395	14720	6709
30°	13863	14712	14043	5542
35°	13130	13885	13166	4516
40°	12035	12701	12030	3704
45°	10958	11210	11012	3155
50°	9691	9786	9646	2851
55°	8481	8572	8422	2620
60°	7379	7310	7313	2475
65°	6392	6296	6243	2351
70°	5352	5517	5168	2248
75°	4258	5015	4149	2164
80°	3152	4513	2865	2015
85°	1978	4357	1596	1889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 15337 cd/sqm



TEST NUMBER: P892965

CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-MID-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.8
10°-20°	202.5	10.5
20°-30°	291.3	15.1
30°-40°	330.6	17.1
40°-50°	316.0	16.3
50°-60°	256.7	13.3
60°-70°	179.1	9.3
70°-80°	111.0	5.7
80°-90°	63.7	3.3
90°-100°	38.1	2.0
100°-110°	25.0	1.3
110°-120°	17.5	0.9
120°-130°	12.7	0.7
130°-140°	8.4	0.4
140°-150°	4.8	0.2
150°-160°	2.1	0.1
160°-170°	0.6	0.0
170°-180°	0.1	0.0
0°-30°	566.7	29.3
0°-40°	897.3	46.4
0°-60°	1470.0	76.1
0°-90°	1823.8	94.4
90°-120°	80.5	4.2
90°-150°	106.4	5.5
90°-180°	109.0	5.6
0°-180°	1933.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	776	776	776	776	776	
5°	778	820	785	708	778	73
15°	734	875	747	530	734	209
25°	662	831	671	362	662	305
35°	548	738	550	240	548	342
45°	402	569	404	160	402	310
55°	259	402	257	123	259	233
65°	150	261	146	98	150	149
75°	66	175	65	75	66	72
85°	14	118	12	51	14	16
90°	0	100	0	39	0	1
95°	1	87	0	30	1	1
105°	0	67	0	16	0	1
115°	0	53	0	9	0	0
125°	0	43	0	6	0	0
135°	0	34	0	5	0	0
145°	0	24	0	3	0	0
155°	1	15	0	2	1	0
165°	1	7	0	1	1	0
175°	1	0	0	0	1	0
180°	0	0	0	0	0	0



TEST NUMBER: P892965

CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-MID-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6	775.6
2.5°	774.8	780.6	781.1	799.4	794.1	800.9	792.3	793.8	786.2	784.2	757.8
5°	777.6	790.0	793.3	824.8	819.7	823.3	811.4	802.7	784.9	774.3	731.6
7.5°	764.4	797.1	815.4	837.8	846.1	848.9	824.8	808.8	779.4	753.2	703.2
10°	757.0	802.2	820.0	853.5	860.9	855.5	836.8	810.3	771.7	729.6	668.1
12.5°	753.0	805.0	836.0	870.3	870.5	864.9	842.8	814.4	759.3	704.2	631.1
15°	734.2	804.5	836.2	871.0	874.8	871.3	848.7	811.6	746.6	672.7	588.4
17.5°	732.1	803.2	844.4	880.9	874.6	872.1	852.2	810.3	731.4	640.7	548.3
20°	710.8	800.4	844.4	869.8	867.7	868.8	854.5	808.6	713.8	606.2	504.3
22.5°	688.2	797.1	840.8	860.1	847.9	866.5	844.4	803.7	696.1	570.1	460.7
25°	661.5	791.8	834.0	846.4	830.9	845.4	845.1	796.4	670.7	531.3	426.1
27.5°	639.9	783.4	822.8	841.6	815.2	827.6	834.7	787.5	640.7	492.9	385.5
30°	607.7	772.8	809.3	812.1	791.3	807.0	815.2	776.3	615.6	449.5	348.4
32.5°	583.1	760.6	792.8	789.0	768.2	789.0	802.2	765.1	585.6	411.4	322.3
35°	548.5	745.8	772.3	752.2	738.5	755.7	771.2	753.2	550.0	370.8	288.7
37.5°	515.0	732.9	747.6	722.7	703.9	723.2	757.3	730.9	514.2	338.5	263.9
40°	474.1	703.2	715.4	681.6	662.8	691.2	722.5	711.6	473.9	305.0	239.7
42.5°	443.1	681.1	684.6	638.4	616.1	646.3	681.8	684.1	441.1	274.8	218.4
45°	402.3	650.1	643.5	592.7	569.3	596.5	649.8	655.9	404.3	248.6	197.6
47.5°	365.4	615.6	602.6	543.2	517.0	549.3	608.5	624.5	363.1	224.5	178.0
50°	327.1	577.0	548.3	497.0	479.5	495.4	555.9	582.3	325.6	200.6	163.0
52.5°	292.0	534.3	498.8	452.8	435.3	448.5	500.8	540.4	288.2	180.6	149.8
55°	259.0	491.6	445.7	405.0	401.5	405.6	444.9	490.4	257.2	162.8	141.4
57.5°	229.6	439.8	397.9	368.0	361.6	364.9	392.1	438.8	227.3	145.0	129.3
60°	199.9	386.8	350.7	327.6	324.0	326.6	344.1	388.5	198.1	130.0	117.8
62.5°	172.9	333.4	301.4	292.8	290.3	290.3	297.6	338.3	170.7	114.8	109.2
65°	149.8	287.7	263.6	260.3	261.1	260.8	256.2	282.4	146.3	101.3	101.6
67.5°	126.5	239.2	225.8	229.8	232.9	231.6	221.9	234.9	123.4	89.1	94.7
70°	104.9	197.6	195.0	204.2	211.3	204.7	190.7	192.0	101.3	77.2	85.8
72.5°	84.6	159.7	171.4	184.1	191.0	183.6	164.3	158.7	81.5	66.3	77.7
75°	66.5	128.5	147.0	165.8	174.7	165.3	143.0	123.9	64.8	55.9	71.1
77.5°	50.8	101.8	125.7	147.5	156.2	148.1	124.4	96.8	47.5	47.0	64.0
80°	36.3	80.5	111.5	132.6	140.4	132.6	107.9	76.4	33.0	37.6	56.4
82.5°	23.9	62.2	97.0	120.6	129.3	119.6	93.7	58.9	21.1	30.5	50.8
85°	14.5	49.3	84.6	108.4	118.3	108.9	82.0	44.7	11.7	23.4	44.2
87.5°	6.3	38.1	75.4	100.1	108.9	100.3	73.1	35.0	4.8	18.3	37.8
90°	0.5	30.2	66.5	92.2	100.1	91.9	64.8	28.4	0.0	13.2	32.5
92.5°	0.5	25.9	60.9	85.3	94.2	85.1	58.4	23.4	0.0	9.6	27.4
95°	0.8	21.8	55.4	80.0	87.1	79.2	53.3	20.1	0.0	6.6	23.1
97.5°	0.8	19.8	50.8	74.7	82.5	74.2	48.8	18.0	0.0	4.8	18.8
100°	0.5	18.3	47.2	69.6	76.9	69.1	45.2	16.3	0.0	3.0	15.2
102.5°	0.5	17.0	44.2	65.3	71.1	64.5	42.2	15.2	0.0	2.5	12.4
105°	0.5	16.3	41.4	60.2	67.0	60.2	39.6	14.2	0.0	2.0	9.6
107.5°	0.5	15.2	39.4	57.4	63.0	56.9	37.6	13.5	0.0	2.0	7.9
110°	0.5	14.5	37.6	53.3	59.7	53.8	35.8	12.2	0.0	1.3	6.3



TEST NUMBER: P892965

CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-MID-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.5	13.2	35.8	50.5	56.6	50.8	34.3	11.2	0.0	1.3	5.6
115°	0.5	11.9	34.3	48.8	53.3	48.2	32.8	9.9	0.0	1.0	5.1
117.5°	0.5	11.2	33.3	46.5	51.0	46.0	31.5	9.4	0.0	1.0	4.8
120°	0.5	10.7	31.7	44.2	47.7	43.7	30.0	8.9	0.0	1.0	4.6
122.5°	0.5	10.2	30.5	42.2	46.0	41.9	28.7	8.6	0.0	0.8	4.1
125°	0.5	9.6	28.7	39.9	43.4	39.4	26.4	8.4	0.0	0.5	3.6
127.5°	0.5	9.1	26.9	38.1	41.4	37.6	24.9	8.1	0.0	0.5	3.3
130°	0.5	8.9	24.6	35.8	39.1	35.3	23.1	8.1	0.0	0.5	3.0
132.5°	0.5	8.6	22.1	33.5	37.1	33.0	21.3	7.9	0.0	0.5	2.5
135°	0.5	8.4	19.6	31.2	34.5	30.7	19.8	7.6	0.0	0.5	2.3
137.5°	0.5	7.9	17.3	28.7	32.0	28.2	18.8	7.1	0.0	0.5	2.0
140°	0.5	7.4	15.5	26.7	29.5	25.9	17.3	6.6	0.0	0.3	1.5
142.5°	0.5	6.6	14.0	24.1	26.9	23.6	15.5	5.6	0.0	0.3	1.5
145°	0.5	5.8	12.7	21.1	24.4	21.1	14.5	5.1	0.0	0.3	1.3
147.5°	0.5	5.3	11.4	17.8	22.1	19.3	13.0	4.3	0.0	0.3	1.0
150°	0.5	4.8	9.9	15.0	19.6	17.0	11.9	3.8	0.0	0.0	0.8
152.5°	0.5	4.3	8.6	12.4	17.5	15.5	10.7	3.3	0.0	0.0	0.5
155°	0.8	4.1	7.4	10.9	15.2	13.5	8.9	2.8	0.0	0.0	0.5
157.5°	0.8	3.6	6.1	8.9	13.5	11.7	7.1	2.3	0.0	0.0	0.3
160°	0.8	3.3	5.1	6.9	11.2	9.6	5.8	1.8	0.0	0.0	0.3
162.5°	0.8	3.0	4.3	5.1	9.1	7.6	4.6	1.3	0.0	0.0	0.3
165°	0.8	2.5	3.8	3.6	7.1	5.8	3.6	0.8	0.0	0.0	0.0
167.5°	0.8	2.3	3.0	2.5	5.3	4.3	2.5	0.5	0.0	0.0	0.0
170°	0.8	1.8	2.5	1.8	1.5	2.8	1.5	0.3	0.0	0.0	0.0
172.5°	0.8	1.5	2.0	1.3	0.5	1.5	0.8	0.0	0.0	0.0	0.0
175°	0.8	1.3	1.3	0.8	0.3	0.5	0.0	0.0	0.0	0.0	0.0
177.5°	0.8	1.0	0.8	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



TEST NUMBER: P892965

CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-MID-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	775.6	775.6	775.6	775.6	775.6	775.6
2.5°	754.2	745.8	738.2	746.3	752.2	774.8
5°	717.4	708.5	709.5	716.9	736.4	777.6
7.5°	679.3	664.6	668.1	688.7	717.7	764.4
10°	634.4	620.9	624.2	655.2	695.8	757.0
12.5°	594.2	571.6	590.9	620.1	670.4	753.0
15°	547.3	529.5	539.9	583.1	646.0	734.2
17.5°	496.5	482.8	495.2	538.1	616.1	732.1
20°	457.4	438.3	453.0	500.3	579.0	710.8
22.5°	413.4	398.9	414.4	457.9	541.2	688.2
25°	377.4	362.1	377.6	420.8	507.6	661.5
27.5°	342.3	328.4	342.3	381.9	474.4	639.9
30°	311.6	298.1	312.4	350.4	435.5	607.7
32.5°	282.9	265.6	283.9	320.7	401.2	583.1
35°	253.2	240.2	253.9	294.8	363.1	548.5
37.5°	228.6	215.1	231.3	266.4	330.9	515.0
40°	205.2	193.3	206.2	243.5	303.5	474.1
42.5°	186.9	175.0	188.2	222.7	275.8	443.1
45°	169.1	160.2	170.9	199.9	247.9	402.3
47.5°	156.2	148.6	157.4	183.1	224.5	365.4
50°	145.0	139.7	146.0	166.3	200.4	327.1
52.5°	135.1	129.8	137.1	153.4	181.3	292.0
55°	127.5	122.7	128.2	141.2	162.3	259.0
57.5°	119.1	116.1	120.4	128.2	147.3	229.6
60°	113.0	109.7	114.3	120.6	130.3	199.9
62.5°	106.1	104.4	107.2	112.2	117.3	172.9
65°	100.1	97.5	101.1	102.8	102.3	149.8
67.5°	93.5	92.7	94.7	95.0	91.2	126.5
70°	86.6	86.1	88.6	87.1	79.2	104.9
72.5°	81.0	81.0	82.5	79.5	69.1	84.6
75°	74.9	75.4	76.7	73.1	58.2	66.5
77.5°	69.3	69.8	70.1	65.3	48.8	50.8
80°	63.0	62.7	65.3	59.2	39.6	36.3
82.5°	57.4	56.4	57.9	51.8	32.0	23.9
85°	51.0	51.3	52.3	45.2	25.6	14.5
87.5°	46.0	46.0	47.0	39.9	19.3	6.3
90°	39.9	39.4	40.9	33.8	14.5	0.5
92.5°	34.8	34.8	35.8	28.9	10.7	0.5
95°	29.7	30.0	30.7	23.9	8.1	0.8
97.5°	25.4	25.6	26.7	20.3	5.8	0.8
100°	21.6	21.8	22.3	16.3	4.6	0.5
102.5°	18.0	18.8	18.8	13.5	3.6	0.5
105°	15.2	16.3	15.7	10.9	3.3	0.5
107.5°	12.7	13.7	13.7	8.9	3.3	0.5
110°	10.4	11.9	11.7	7.6	2.5	0.5



TEST NUMBER: P892965

CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-MID-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	8.9	10.2	9.4	6.6	2.5	0.5
115°	7.6	8.9	8.4	6.1	2.3	0.5
117.5°	6.9	7.6	7.6	5.8	2.3	0.5
120°	6.3	7.1	6.9	5.6	2.3	0.5
122.5°	5.8	6.3	6.3	5.1	2.0	0.5
125°	5.6	5.8	6.1	4.6	2.0	0.5
127.5°	5.3	5.8	5.8	4.3	1.8	0.5
130°	4.8	5.3	5.3	4.1	1.8	0.5
132.5°	4.3	4.8	4.8	3.8	1.8	0.5
135°	4.1	4.6	4.6	3.6	1.8	0.5
137.5°	3.8	4.1	4.1	3.3	1.8	0.5
140°	3.3	3.8	3.8	3.0	1.8	0.5
142.5°	3.0	3.6	3.6	2.8	1.5	0.5
145°	2.8	3.0	3.3	2.5	1.5	0.5
147.5°	2.3	2.8	3.0	2.3	1.5	0.5
150°	1.8	2.5	2.5	2.3	1.5	0.5
152.5°	1.3	2.3	2.3	2.0	1.3	0.5
155°	1.0	1.8	2.0	1.8	1.3	0.8
157.5°	0.8	1.5	1.8	1.8	1.3	0.8
160°	0.5	1.3	1.5	1.5	1.0	0.8
162.5°	0.3	1.0	1.3	1.5	1.0	0.8
165°	0.0	0.8	1.0	1.3	1.0	0.8
167.5°	0.0	0.5	0.8	1.0	0.8	0.8
170°	0.0	0.3	0.5	0.8	0.8	0.8
172.5°	0.0	0.0	0.3	0.5	0.5	0.8
175°	0.0	0.0	0.0	0.3	0.5	0.8
177.5°	0.0	0.0	0.0	0.3	0.5	0.8
180°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P892965
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-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	18.49	19.95	18.95	20.38	20.84	20.66	22.12	21.11	22.55	23.00
	3H	19.32	20.63	19.78	21.08	21.57	22.33	23.64	22.79	24.09	24.58
	4H	19.52	20.76	20.01	21.22	21.74	23.14	24.38	23.63	24.84	25.35
	6H	19.61	20.76	20.11	21.24	21.77	23.97	25.12	24.47	25.60	26.12
	8H	19.61	20.71	20.13	21.21	21.75	24.41	25.51	24.92	26.01	26.54
	12H	19.60	20.66	20.12	21.15	21.71	24.89	25.95	25.41	26.44	27.00
4H	2H	18.92	20.16	19.41	20.62	21.13	21.03	22.27	21.52	22.73	23.24
	3H	20.01	21.06	20.52	21.57	22.10	22.88	23.92	23.38	24.43	24.97
	4H	20.35	21.30	20.88	21.82	22.39	23.83	24.77	24.35	25.29	25.86
	6H	20.55	21.38	21.09	21.92	22.51	24.82	25.65	25.37	26.20	26.78
	8H	20.57	21.35	21.12	21.90	22.49	25.35	26.13	25.90	26.68	27.27
	12H	20.58	21.28	21.15	21.86	22.46	25.95	26.66	26.52	27.23	27.83
8H	4H	20.67	21.45	21.22	22.00	22.59	23.97	24.75	24.52	25.29	25.89
	6H	20.99	21.65	21.57	22.23	22.84	25.10	25.76	25.68	26.34	26.94
	8H	21.08	21.67	21.68	22.27	22.88	25.75	26.33	26.34	26.94	27.55
	12H	21.14	21.66	21.73	22.25	22.93	26.51	27.03	27.10	27.62	28.30
12H	4H	20.74	21.45	21.31	22.02	22.62	23.96	24.67	24.53	25.24	25.84
	6H	21.12	21.71	21.72	22.31	22.93	25.12	25.70	25.71	26.30	26.92
	8H	21.28	21.81	21.88	22.39	23.07	25.82	26.34	26.41	26.93	27.61