

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: P892962

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

Issue Date: 11/11/2024

**Test Information**

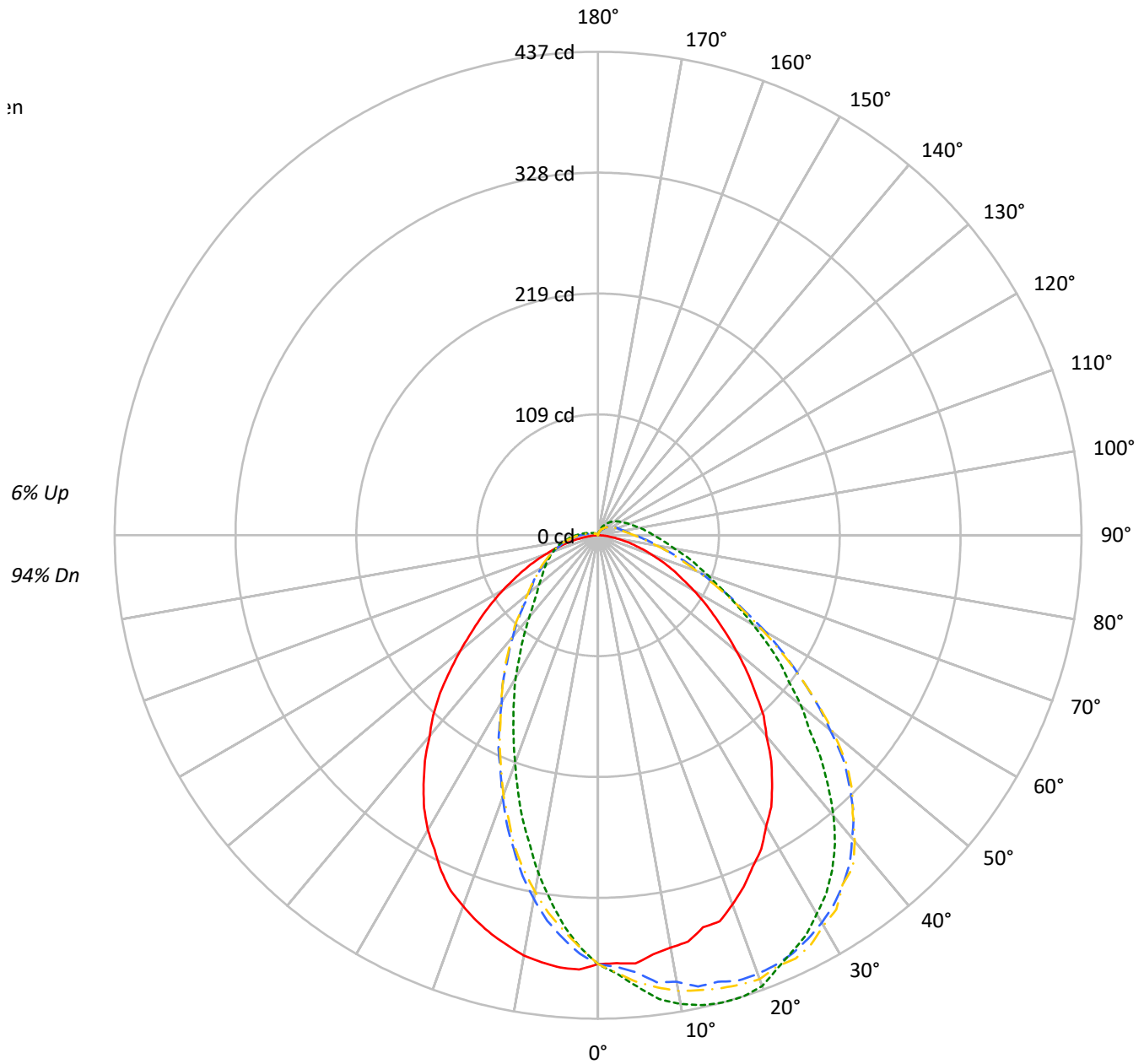
Test Method: LM-79-2019  
Report Number: P892962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-ASML-UNV-CC83-LOW-5000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 5000K CCT, LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 966.0 lumens  
Efficiency: N/A  
Efficacy: 140.0 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): 6.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P892962  
CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-LOW-5000K

### 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°	7937	7937	7937	7937
5°	7944	8088	8019	6991
10°	7779	8260	7931	5958
15°	7648	8230	7778	4981
20°	7566	8067	7598	4074
25°	7256	7693	7357	3354
30°	6928	7352	7017	2770
35°	6562	6938	6581	2258
40°	6014	6347	6011	1851
45°	5475	5602	5502	1577
50°	4844	4890	4820	1425
55°	4237	4283	4211	1309
60°	3688	3653	3655	1236
65°	3196	3147	3119	1174
70°	2673	2757	2581	1123
75°	2126	2506	2074	1082
80°	1571	2256	1433	1006
85°	982	2177	791	943

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 7665 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.4	3.8
10°-20°	101.2	10.5
20°-30°	145.6	15.1
30°-40°	165.2	17.1
40°-50°	157.9	16.3
50°-60°	128.3	13.3
60°-70°	89.5	9.3
70°-80°	55.4	5.7
80°-90°	31.8	3.3
90°-100°	19.0	2.0
100°-110°	12.5	1.3
110°-120°	8.7	0.9
120°-130°	6.3	0.7
130°-140°	4.2	0.4
140°-150°	2.4	0.2
150°-160°	1.1	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	283.2	29.3
0°-40°	448.4	46.4
0°-60°	734.6	76.1
0°-90°	911.4	94.4
90°-120°	40.3	4.2
90°-150°	53.2	5.5
90°-180°	55.0	5.7
0°-180°	966.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	388	388	388	388	388	
5°	389	410	392	354	389	37
15°	367	437	373	265	367	104
25°	331	415	335	181	331	152
35°	274	369	275	120	274	171
45°	201	284	202	80	201	155
55°	129	201	129	61	129	116
65°	75	130	73	49	75	74
75°	33	87	32	38	33	36
85°	7	59	6	26	7	8
90°	0	50	0	20	0	1
95°	0	44	0	15	0	0
105°	0	34	0	8	0	0
115°	0	27	0	4	0	0
125°	0	22	0	3	0	0
135°	0	17	0	2	0	0
145°	0	12	0	2	0	0
155°	0	8	0	1	0	0
165°	0	4	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P892962

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6
2.5°	387.2	390.1	390.4	399.5	396.8	400.3	396.0	396.7	392.9	391.9	378.7
5°	388.6	394.8	396.5	412.2	409.7	411.4	405.5	401.2	392.3	386.9	365.6
7.5°	382.0	398.4	407.5	418.7	422.9	424.3	412.2	404.2	389.5	376.4	351.4
10°	378.3	400.9	409.8	426.5	430.2	427.6	418.2	405.0	385.7	364.6	333.9
12.5°	376.3	402.3	417.8	434.9	435.0	432.2	421.2	407.0	379.5	351.9	315.4
15°	366.9	402.0	417.9	435.3	437.2	435.4	424.1	405.6	373.1	336.2	294.0
17.5°	365.9	401.4	422.0	440.2	437.1	435.8	425.9	405.0	365.5	320.2	274.0
20°	355.2	400.0	422.0	434.7	433.6	434.2	427.0	404.1	356.7	302.9	252.0
22.5°	343.9	398.4	420.2	429.8	423.7	433.0	422.0	401.7	347.9	284.9	230.2
25°	330.6	395.7	416.8	423.0	415.2	422.5	422.3	398.0	335.2	265.5	213.0
27.5°	319.8	391.5	411.2	420.6	407.4	413.6	417.1	393.5	320.2	246.3	192.6
30°	303.7	386.2	404.5	405.9	395.4	403.3	407.4	388.0	307.6	224.6	174.1
32.5°	291.4	380.1	396.2	394.3	383.9	394.3	400.9	382.4	292.6	205.6	161.0
35°	274.1	372.7	385.9	375.9	369.0	377.7	385.4	376.4	274.9	185.3	144.3
37.5°	257.4	366.3	373.6	361.2	351.8	361.4	378.4	365.2	257.0	169.2	131.9
40°	236.9	351.4	357.5	340.6	331.2	345.4	361.1	355.6	236.8	152.4	119.8
42.5°	221.5	340.4	342.1	319.0	307.9	323.0	340.7	341.9	220.4	137.3	109.1
45°	201.0	324.9	321.6	296.2	284.5	298.1	324.8	327.8	202.0	124.2	98.7
47.5°	182.6	307.6	301.2	271.5	258.4	274.5	304.1	312.1	181.5	112.2	89.0
50°	163.5	288.3	274.0	248.4	239.6	247.6	277.8	291.0	162.7	100.3	81.5
52.5°	145.9	267.0	249.2	226.3	217.5	224.1	250.3	270.1	144.0	90.2	74.9
55°	129.4	245.7	222.7	202.4	200.6	202.7	222.3	245.1	128.6	81.3	70.7
57.5°	114.7	219.8	198.9	183.9	180.7	182.4	195.9	219.3	113.6	72.5	64.6
60°	99.9	193.3	175.3	163.7	161.9	163.2	172.0	194.2	99.0	65.0	58.9
62.5°	86.4	166.6	150.6	146.3	145.1	145.1	148.7	169.0	85.3	57.4	54.6
65°	74.9	143.8	131.7	130.1	130.5	130.3	128.0	141.1	73.1	50.6	50.8
67.5°	63.2	119.5	112.8	114.9	116.4	115.7	110.9	117.4	61.7	44.5	47.3
70°	52.4	98.7	97.5	102.0	105.6	102.3	95.3	95.9	50.6	38.6	42.9
72.5°	42.3	79.8	85.7	92.0	95.4	91.8	82.1	79.3	40.7	33.1	38.8
75°	33.2	64.2	73.5	82.9	87.3	82.6	71.4	61.9	32.4	27.9	35.5
77.5°	25.4	50.9	62.8	73.7	78.0	74.0	62.2	48.4	23.7	23.5	32.0
80°	18.1	40.2	55.7	66.2	70.2	66.2	53.9	38.2	16.5	18.8	28.2
82.5°	11.9	31.1	48.5	60.3	64.6	59.8	46.8	29.4	10.5	15.2	25.4
85°	7.2	24.6	42.3	54.2	59.1	54.4	41.0	22.3	5.8	11.7	22.1
87.5°	3.2	19.0	37.7	50.0	54.4	50.1	36.5	17.5	2.4	9.1	18.9
90°	0.3	15.1	33.2	46.1	50.0	45.9	32.4	14.2	0.0	6.6	16.2
92.5°	0.3	12.9	30.5	42.6	47.1	42.5	29.2	11.7	0.0	4.8	13.7
95°	0.4	10.9	27.7	40.0	43.5	39.6	26.7	10.0	0.0	3.3	11.5
97.5°	0.4	9.9	25.4	37.3	41.2	37.1	24.4	9.0	0.0	2.4	9.4
100°	0.3	9.1	23.6	34.8	38.5	34.5	22.6	8.1	0.0	1.5	7.6
102.5°	0.3	8.5	22.1	32.6	35.5	32.2	21.1	7.6	0.0	1.3	6.2
105°	0.3	8.1	20.7	30.1	33.5	30.1	19.8	7.1	0.0	1.0	4.8
107.5°	0.3	7.6	19.7	28.7	31.5	28.4	18.8	6.7	0.0	1.0	3.9
110°	0.3	7.2	18.8	26.7	29.8	26.9	17.9	6.1	0.0	0.6	3.2



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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.3	6.6	17.9	25.3	28.3	25.4	17.1	5.6	0.0	0.6	2.8
115°	0.3	6.0	17.1	24.4	26.7	24.1	16.4	4.9	0.0	0.5	2.5
117.5°	0.3	5.6	16.6	23.2	25.5	23.0	15.7	4.7	0.0	0.5	2.4
120°	0.3	5.3	15.9	22.1	23.9	21.8	15.0	4.4	0.0	0.5	2.3
122.5°	0.3	5.1	15.2	21.1	23.0	20.9	14.3	4.3	0.0	0.4	2.0
125°	0.3	4.8	14.3	19.9	21.7	19.7	13.2	4.2	0.0	0.3	1.8
127.5°	0.3	4.6	13.5	19.0	20.7	18.8	12.4	4.1	0.0	0.3	1.6
130°	0.3	4.4	12.3	17.9	19.5	17.6	11.5	4.1	0.0	0.3	1.5
132.5°	0.3	4.3	11.0	16.8	18.5	16.5	10.7	3.9	0.0	0.3	1.3
135°	0.3	4.2	9.8	15.6	17.3	15.4	9.9	3.8	0.0	0.3	1.1
137.5°	0.3	3.9	8.6	14.3	16.0	14.1	9.4	3.6	0.0	0.3	1.0
140°	0.3	3.7	7.7	13.3	14.7	12.9	8.6	3.3	0.0	0.1	0.8
142.5°	0.3	3.3	7.0	12.1	13.5	11.8	7.7	2.8	0.0	0.1	0.8
145°	0.3	2.9	6.3	10.5	12.2	10.5	7.2	2.5	0.0	0.1	0.6
147.5°	0.3	2.7	5.7	8.9	11.0	9.6	6.5	2.2	0.0	0.1	0.5
150°	0.3	2.4	4.9	7.5	9.8	8.5	6.0	1.9	0.0	0.0	0.4
152.5°	0.3	2.2	4.3	6.2	8.8	7.7	5.3	1.6	0.0	0.0	0.3
155°	0.4	2.0	3.7	5.5	7.6	6.7	4.4	1.4	0.0	0.0	0.3
157.5°	0.4	1.8	3.0	4.4	6.7	5.8	3.6	1.1	0.0	0.0	0.1
160°	0.4	1.6	2.5	3.4	5.6	4.8	2.9	0.9	0.0	0.0	0.1
162.5°	0.4	1.5	2.2	2.5	4.6	3.8	2.3	0.6	0.0	0.0	0.1
165°	0.4	1.3	1.9	1.8	3.6	2.9	1.8	0.4	0.0	0.0	0.0
167.5°	0.4	1.1	1.5	1.3	2.7	2.2	1.3	0.3	0.0	0.0	0.0
170°	0.4	0.9	1.3	0.9	0.8	1.4	0.8	0.1	0.0	0.0	0.0
172.5°	0.4	0.8	1.0	0.6	0.3	0.8	0.4	0.0	0.0	0.0	0.0
175°	0.4	0.6	0.6	0.4	0.1	0.3	0.0	0.0	0.0	0.0	0.0
177.5°	0.4	0.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P892962

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

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	387.6	387.6	387.6	387.6	387.6	387.6
2.5°	376.9	372.7	368.9	373.0	375.9	387.2
5°	358.5	354.1	354.6	358.3	368.0	388.6
7.5°	339.5	332.1	333.9	344.2	358.6	382.0
10°	317.0	310.3	311.9	327.4	347.7	378.3
12.5°	297.0	285.7	295.3	309.9	335.0	376.3
15°	273.5	264.6	269.8	291.4	322.9	366.9
17.5°	248.1	241.3	247.5	268.9	307.9	365.9
20°	228.6	219.0	226.4	250.0	289.3	355.2
22.5°	206.6	199.4	207.1	228.8	270.4	343.9
25°	188.6	181.0	188.7	210.3	253.7	330.6
27.5°	171.1	164.1	171.1	190.9	237.1	319.8
30°	155.7	149.0	156.1	175.1	217.6	303.7
32.5°	141.4	132.7	141.9	160.3	200.5	291.4
35°	126.5	120.1	126.9	147.3	181.5	274.1
37.5°	114.2	107.5	115.6	133.1	165.4	257.4
40°	102.5	96.6	103.0	121.7	151.7	236.9
42.5°	93.4	87.4	94.0	111.3	137.8	221.5
45°	84.5	80.1	85.4	99.9	123.9	201.0
47.5°	78.0	74.2	78.7	91.5	112.2	182.6
50°	72.5	69.8	73.0	83.1	100.1	163.5
52.5°	67.5	64.8	68.5	76.7	90.6	145.9
55°	63.7	61.3	64.1	70.6	81.1	129.4
57.5°	59.5	58.0	60.2	64.1	73.6	114.7
60°	56.5	54.8	57.1	60.3	65.1	99.9
62.5°	53.0	52.2	53.6	56.1	58.6	86.4
65°	50.0	48.7	50.5	51.4	51.1	74.9
67.5°	46.7	46.3	47.3	47.5	45.6	63.2
70°	43.3	43.0	44.3	43.5	39.6	52.4
72.5°	40.5	40.5	41.2	39.7	34.5	42.3
75°	37.4	37.7	38.3	36.5	29.1	33.2
77.5°	34.6	34.9	35.0	32.6	24.4	25.4
80°	31.5	31.3	32.6	29.6	19.8	18.1
82.5°	28.7	28.2	28.9	25.9	16.0	11.9
85°	25.5	25.6	26.1	22.6	12.8	7.2
87.5°	23.0	23.0	23.5	19.9	9.6	3.2
90°	19.9	19.7	20.4	16.9	7.2	0.3
92.5°	17.4	17.4	17.9	14.5	5.3	0.3
95°	14.8	15.0	15.4	11.9	4.1	0.4
97.5°	12.7	12.8	13.3	10.2	2.9	0.4
100°	10.8	10.9	11.2	8.1	2.3	0.3
102.5°	9.0	9.4	9.4	6.7	1.8	0.3
105°	7.6	8.1	7.9	5.5	1.6	0.3
107.5°	6.3	6.9	6.9	4.4	1.6	0.3
110°	5.2	6.0	5.8	3.8	1.3	0.3





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

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	4.4	5.1	4.7	3.3	1.3	0.3
115°	3.8	4.4	4.2	3.0	1.1	0.3
117.5°	3.4	3.8	3.8	2.9	1.1	0.3
120°	3.2	3.6	3.4	2.8	1.1	0.3
122.5°	2.9	3.2	3.2	2.5	1.0	0.3
125°	2.8	2.9	3.0	2.3	1.0	0.3
127.5°	2.7	2.9	2.9	2.2	0.9	0.3
130°	2.4	2.7	2.7	2.0	0.9	0.3
132.5°	2.2	2.4	2.4	1.9	0.9	0.3
135°	2.0	2.3	2.3	1.8	0.9	0.3
137.5°	1.9	2.0	2.0	1.6	0.9	0.3
140°	1.6	1.9	1.9	1.5	0.9	0.3
142.5°	1.5	1.8	1.8	1.4	0.8	0.3
145°	1.4	1.5	1.6	1.3	0.8	0.3
147.5°	1.1	1.4	1.5	1.1	0.8	0.3
150°	0.9	1.3	1.3	1.1	0.8	0.3
152.5°	0.6	1.1	1.1	1.0	0.6	0.3
155°	0.5	0.9	1.0	0.9	0.6	0.4
157.5°	0.4	0.8	0.9	0.9	0.6	0.4
160°	0.3	0.6	0.8	0.8	0.5	0.4
162.5°	0.1	0.5	0.6	0.8	0.5	0.4
165°	0.0	0.4	0.5	0.6	0.5	0.4
167.5°	0.0	0.3	0.4	0.5	0.4	0.4
170°	0.0	0.1	0.3	0.4	0.4	0.4
172.5°	0.0	0.0	0.1	0.3	0.3	0.4
175°	0.0	0.0	0.0	0.1	0.3	0.4
177.5°	0.0	0.0	0.0	0.1	0.3	0.4
180°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P892962  
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC83-LOW-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	16.08	17.54	16.54	17.97	18.43	18.25	19.71	18.70	20.14	20.59
	3H	16.91	18.22	17.37	18.67	19.16	19.92	21.23	20.38	21.68	22.17
	4H	17.11	18.35	17.60	18.81	19.33	20.73	21.97	21.22	22.43	22.94
	6H	17.20	18.35	17.70	18.83	19.36	21.56	22.71	22.06	23.19	23.71
	8H	17.20	18.30	17.72	18.80	19.34	22.00	23.10	22.51	23.59	24.13
	12H	17.19	18.24	17.71	18.74	19.30	22.48	23.54	23.00	24.03	24.59
4H	2H	16.51	17.75	17.00	18.21	18.72	18.62	19.86	19.11	20.32	20.83
	3H	17.60	18.65	18.11	19.15	19.69	20.47	21.51	20.97	22.02	22.56
	4H	17.94	18.89	18.46	19.41	19.98	21.42	22.36	21.94	22.88	23.45
	6H	18.14	18.97	18.68	19.51	20.09	22.41	23.24	22.96	23.79	24.37
	8H	18.16	18.94	18.71	19.49	20.08	22.94	23.72	23.49	24.27	24.86
	12H	18.17	18.87	18.74	19.45	20.05	23.54	24.24	24.11	24.82	25.42
8H	4H	18.26	19.04	18.81	19.58	20.18	21.56	22.34	22.11	22.88	23.48
	6H	18.58	19.24	19.16	19.82	20.42	22.69	23.34	23.27	23.93	24.53
	8H	18.67	19.26	19.27	19.86	20.47	23.34	23.92	23.93	24.52	25.14
	12H	18.73	19.25	19.32	19.84	20.52	24.10	24.62	24.69	25.21	25.89
12H	4H	18.33	19.04	18.90	19.61	20.21	21.55	22.26	22.12	22.83	23.43
	6H	18.71	19.30	19.31	19.90	20.52	22.70	23.29	23.30	23.89	24.51
	8H	18.87	19.39	19.46	19.98	20.66	23.41	23.93	24.00	24.52	25.20