

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: P892970

Luminaire Tested: 2MB-SC3-ASML-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892970
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-LOW-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

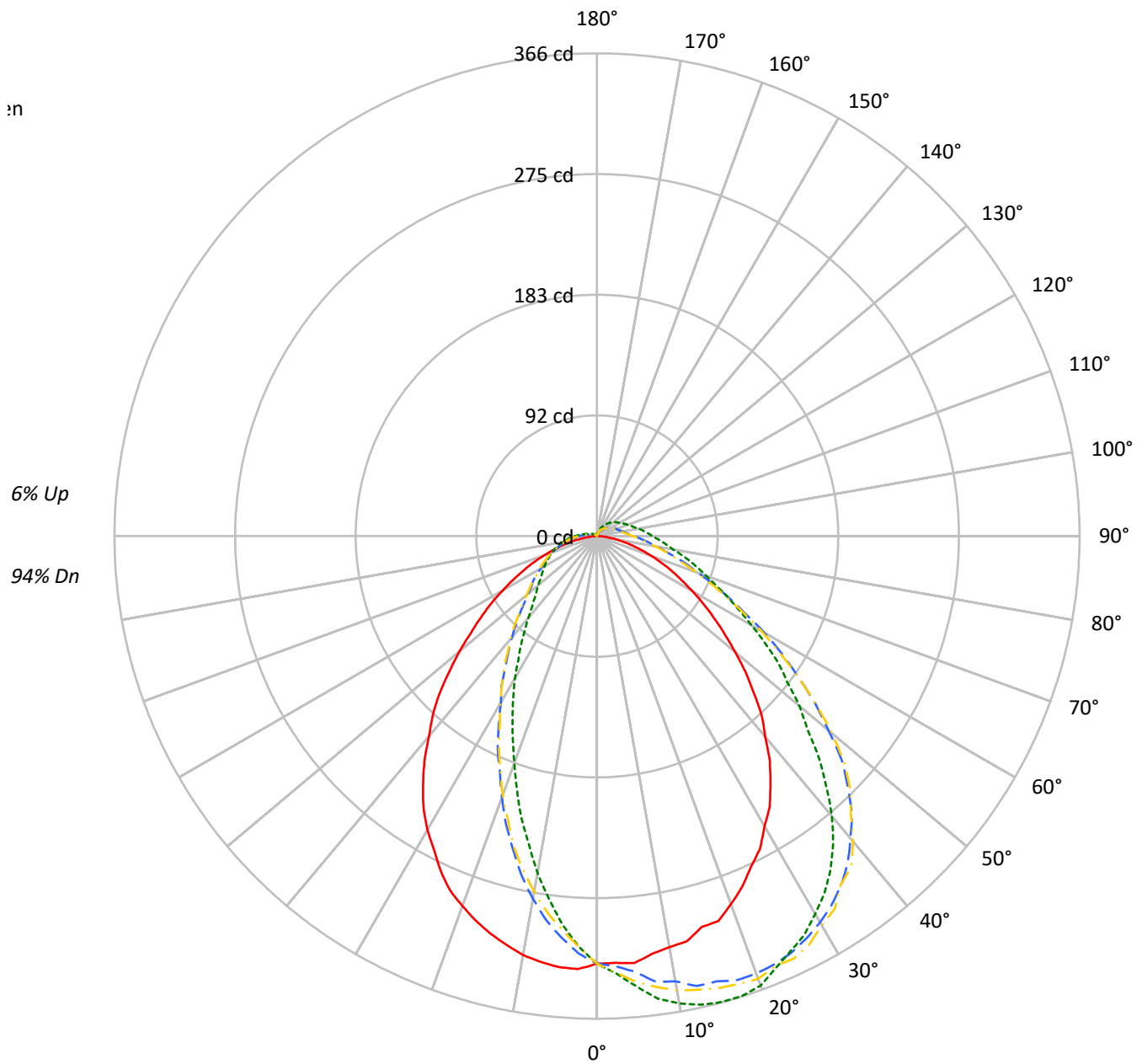
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 808.0 lumens
Efficiency: N/A
Efficacy: 117.1 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): 6.9
Input Voltage (V): 120
Input Current (A_{in}): 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: P892970
CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-LOW-4000K

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°	6638	6638	6638	6638
5°	6644	6766	6707	5848
10°	6506	6908	6634	4982
15°	6398	6884	6506	4166
20°	6329	6748	6356	3408
25°	6068	6435	6152	2805
30°	5794	6150	5870	2317
35°	5489	5804	5503	1888
40°	5031	5310	5029	1548
45°	4579	4687	4603	1319
50°	4050	4090	4032	1192
55°	3546	3583	3520	1095
60°	3082	3055	3057	1036
65°	2671	2631	2607	984
70°	2234	2306	2163	940
75°	1780	2095	1735	904
80°	1320	1887	1198	842
85°	832	1823	669	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 6412 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	3.8
10°-20°	84.7	10.5
20°-30°	121.8	15.1
30°-40°	138.2	17.1
40°-50°	132.1	16.3
50°-60°	107.3	13.3
60°-70°	74.9	9.3
70°-80°	46.4	5.7
80°-90°	26.6	3.3
90°-100°	15.9	2.0
100°-110°	10.4	1.3
110°-120°	7.3	0.9
120°-130°	5.3	0.7
130°-140°	3.5	0.4
140°-150°	2.0	0.2
150°-160°	0.9	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	236.9	29.3
0°-40°	375.1	46.4
0°-60°	614.5	76.1
0°-90°	762.4	94.4
90°-120°	33.7	4.2
90°-150°	44.5	5.5
90°-180°	46.0	5.7
0°-180°	808.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	324	324	324	324	324	
5°	325	343	328	296	325	31
15°	307	366	312	221	307	87
25°	276	347	280	151	276	128
35°	229	309	230	100	229	143
45°	168	238	169	67	168	130
55°	108	168	108	51	108	97
65°	63	109	61	41	63	62
75°	28	73	27	32	28	30
85°	6	50	5	21	6	7
90°	0	42	0	16	0	0
95°	0	36	0	12	0	0
105°	0	28	0	7	0	0
115°	0	22	0	4	0	0
125°	0	18	0	2	0	0
135°	0	14	0	2	0	0
145°	0	10	0	1	0	0
155°	0	6	0	1	0	0
165°	0	3	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P892970

CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-LOW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2
2.5°	323.9	326.3	326.5	334.2	331.9	334.8	331.2	331.8	328.6	327.8	316.8
5°	325.0	330.2	331.6	344.8	342.7	344.1	339.2	335.5	328.1	323.7	305.8
7.5°	319.5	333.2	340.8	350.2	353.7	354.9	344.8	338.1	325.8	314.8	293.9
10°	316.4	335.3	342.8	356.8	359.8	357.6	349.8	338.7	322.6	305.0	279.3
12.5°	314.7	336.5	349.4	363.8	363.9	361.5	352.3	340.4	317.4	294.4	263.8
15°	306.9	336.3	349.6	364.1	365.7	364.2	354.8	339.3	312.1	281.2	246.0
17.5°	306.0	335.8	353.0	368.2	365.6	364.5	356.2	338.7	305.7	267.8	229.2
20°	297.1	334.6	353.0	363.6	362.7	363.1	357.2	338.0	298.4	253.4	210.8
22.5°	287.7	333.2	351.5	359.5	354.4	362.2	353.0	336.0	291.0	238.3	192.6
25°	276.5	331.0	348.6	353.8	347.3	353.4	353.3	332.9	280.3	222.1	178.1
27.5°	267.5	327.5	343.9	351.8	340.7	345.9	348.9	329.2	267.8	206.0	161.1
30°	254.0	323.0	338.3	339.5	330.8	337.3	340.7	324.5	257.3	187.9	145.6
32.5°	243.7	317.9	331.4	329.8	321.1	329.8	335.3	319.8	244.8	172.0	134.7
35°	229.3	311.8	322.8	314.4	308.7	315.9	322.4	314.8	229.9	155.0	120.7
37.5°	215.3	306.4	312.5	302.1	294.2	302.3	316.5	305.5	215.0	141.5	110.3
40°	198.2	293.9	299.0	284.9	277.1	288.9	302.0	297.4	198.1	127.5	100.2
42.5°	185.2	284.7	286.2	266.9	257.5	270.2	285.0	286.0	184.4	114.9	91.3
45°	168.1	271.7	269.0	247.8	238.0	249.3	271.6	274.2	169.0	103.9	82.6
47.5°	152.8	257.3	251.9	227.1	216.1	229.6	254.3	261.0	151.8	93.8	74.4
50°	136.7	241.2	229.2	207.7	200.4	207.1	232.4	243.4	136.1	83.9	68.1
52.5°	122.1	223.3	208.5	189.3	181.9	187.5	209.3	225.9	120.5	75.5	62.6
55°	108.3	205.5	186.3	169.3	167.8	169.5	186.0	205.0	107.5	68.0	59.1
57.5°	96.0	183.9	166.3	153.8	151.2	152.5	163.9	183.4	95.0	60.6	54.0
60°	83.5	161.7	146.6	136.9	135.4	136.5	143.8	162.4	82.8	54.3	49.3
62.5°	72.3	139.4	126.0	122.4	121.3	121.3	124.4	141.4	71.3	48.0	45.6
65°	62.6	120.3	110.2	108.8	109.1	109.0	107.1	118.0	61.1	42.4	42.5
67.5°	52.9	100.0	94.4	96.1	97.3	96.8	92.8	98.2	51.6	37.3	39.6
70°	43.8	82.6	81.5	85.3	88.3	85.6	79.7	80.2	42.4	32.3	35.9
72.5°	35.3	66.8	71.7	77.0	79.8	76.7	68.7	66.3	34.1	27.7	32.5
75°	27.8	53.7	61.5	69.3	73.0	69.1	59.8	51.8	27.1	23.4	29.7
77.5°	21.2	42.6	52.5	61.7	65.3	61.9	52.0	40.4	19.9	19.6	26.7
80°	15.2	33.6	46.6	55.4	58.7	55.4	45.1	32.0	13.8	15.7	23.6
82.5°	10.0	26.0	40.5	50.4	54.0	50.0	39.2	24.6	8.8	12.7	21.2
85°	6.1	20.6	35.3	45.3	49.5	45.5	34.3	18.7	4.9	9.8	18.5
87.5°	2.7	15.9	31.5	41.8	45.5	41.9	30.6	14.6	2.0	7.6	15.8
90°	0.2	12.6	27.8	38.5	41.8	38.4	27.1	11.9	0.0	5.5	13.6
92.5°	0.2	10.8	25.5	35.7	39.4	35.6	24.4	9.8	0.0	4.0	11.5
95°	0.3	9.1	23.1	33.4	36.4	33.1	22.3	8.4	0.0	2.8	9.7
97.5°	0.3	8.3	21.2	31.2	34.5	31.0	20.4	7.5	0.0	2.0	7.9
100°	0.2	7.6	19.7	29.1	32.2	28.9	18.9	6.8	0.0	1.3	6.4
102.5°	0.2	7.1	18.5	27.3	29.7	27.0	17.6	6.4	0.0	1.1	5.2
105°	0.2	6.8	17.3	25.2	28.0	25.2	16.6	5.9	0.0	0.8	4.0
107.5°	0.2	6.4	16.5	24.0	26.3	23.8	15.7	5.6	0.0	0.8	3.3
110°	0.2	6.1	15.7	22.3	24.9	22.5	15.0	5.1	0.0	0.5	2.7



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CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-LOW-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.2	5.5	15.0	21.1	23.7	21.2	14.3	4.7	0.0	0.5	2.3
115°	0.2	5.0	14.3	20.4	22.3	20.2	13.7	4.1	0.0	0.4	2.1
117.5°	0.2	4.7	13.9	19.4	21.3	19.2	13.2	3.9	0.0	0.4	2.0
120°	0.2	4.5	13.3	18.5	20.0	18.3	12.5	3.7	0.0	0.4	1.9
122.5°	0.2	4.2	12.7	17.6	19.2	17.5	12.0	3.6	0.0	0.3	1.7
125°	0.2	4.0	12.0	16.7	18.2	16.5	11.0	3.5	0.0	0.2	1.5
127.5°	0.2	3.8	11.3	15.9	17.3	15.7	10.4	3.4	0.0	0.2	1.4
130°	0.2	3.7	10.3	15.0	16.3	14.8	9.7	3.4	0.0	0.2	1.3
132.5°	0.2	3.6	9.2	14.0	15.5	13.8	8.9	3.3	0.0	0.2	1.1
135°	0.2	3.5	8.2	13.1	14.4	12.8	8.3	3.2	0.0	0.2	1.0
137.5°	0.2	3.3	7.2	12.0	13.4	11.8	7.9	3.0	0.0	0.2	0.8
140°	0.2	3.1	6.5	11.1	12.3	10.8	7.2	2.8	0.0	0.1	0.6
142.5°	0.2	2.8	5.8	10.1	11.3	9.9	6.5	2.3	0.0	0.1	0.6
145°	0.2	2.4	5.3	8.8	10.2	8.8	6.1	2.1	0.0	0.1	0.5
147.5°	0.2	2.2	4.8	7.4	9.2	8.1	5.4	1.8	0.0	0.1	0.4
150°	0.2	2.0	4.1	6.3	8.2	7.1	5.0	1.6	0.0	0.0	0.3
152.5°	0.2	1.8	3.6	5.2	7.3	6.5	4.5	1.4	0.0	0.0	0.2
155°	0.3	1.7	3.1	4.6	6.4	5.6	3.7	1.2	0.0	0.0	0.2
157.5°	0.3	1.5	2.5	3.7	5.6	4.9	3.0	1.0	0.0	0.0	0.1
160°	0.3	1.4	2.1	2.9	4.7	4.0	2.4	0.7	0.0	0.0	0.1
162.5°	0.3	1.3	1.8	2.1	3.8	3.2	1.9	0.5	0.0	0.0	0.1
165°	0.3	1.1	1.6	1.5	3.0	2.4	1.5	0.3	0.0	0.0	0.0
167.5°	0.3	1.0	1.3	1.1	2.2	1.8	1.1	0.2	0.0	0.0	0.0
170°	0.3	0.7	1.1	0.7	0.6	1.2	0.6	0.1	0.0	0.0	0.0
172.5°	0.3	0.6	0.8	0.5	0.2	0.6	0.3	0.0	0.0	0.0	0.0
175°	0.3	0.5	0.5	0.3	0.1	0.2	0.0	0.0	0.0	0.0	0.0
177.5°	0.3	0.4	0.3	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: P892970

CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-LOW-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	324.2	324.2	324.2	324.2	324.2	324.2
2.5°	315.3	311.8	308.6	312.0	314.4	323.9
5°	299.9	296.2	296.6	299.7	307.8	325.0
7.5°	284.0	277.8	279.3	287.9	300.0	319.5
10°	265.2	259.5	260.9	273.9	290.9	316.4
12.5°	248.4	238.9	247.0	259.2	280.2	314.7
15°	228.8	221.3	225.7	243.7	270.0	306.9
17.5°	207.5	201.8	207.0	224.9	257.5	306.0
20°	191.2	183.2	189.4	209.1	242.0	297.1
22.5°	172.8	166.8	173.2	191.4	226.2	287.7
25°	157.7	151.4	157.8	175.9	212.2	276.5
27.5°	143.1	137.3	143.1	159.7	198.3	267.5
30°	130.2	124.6	130.6	146.5	182.0	254.0
32.5°	118.3	111.0	118.7	134.1	167.7	243.7
35°	105.8	100.4	106.2	123.2	151.8	229.3
37.5°	95.5	89.9	96.7	111.4	138.3	215.3
40°	85.8	80.8	86.2	101.8	126.8	198.2
42.5°	78.1	73.1	78.7	93.1	115.3	185.2
45°	70.7	67.0	71.4	83.5	103.6	168.1
47.5°	65.3	62.1	65.8	76.5	93.8	152.8
50°	60.6	58.4	61.0	69.5	83.8	136.7
52.5°	56.5	54.2	57.3	64.1	75.8	122.1
55°	53.3	51.3	53.6	59.0	67.8	108.3
57.5°	49.8	48.5	50.3	53.6	61.6	96.0
60°	47.2	45.9	47.8	50.4	54.5	83.5
62.5°	44.4	43.6	44.8	46.9	49.0	72.3
65°	41.8	40.8	42.2	43.0	42.8	62.6
67.5°	39.1	38.7	39.6	39.7	38.1	52.9
70°	36.2	36.0	37.0	36.4	33.1	43.8
72.5°	33.9	33.9	34.5	33.2	28.9	35.3
75°	31.3	31.5	32.1	30.6	24.3	27.8
77.5°	29.0	29.2	29.3	27.3	20.4	21.2
80°	26.3	26.2	27.3	24.7	16.6	15.2
82.5°	24.0	23.6	24.2	21.7	13.4	10.0
85°	21.3	21.4	21.9	18.9	10.7	6.1
87.5°	19.2	19.2	19.6	16.7	8.1	2.7
90°	16.7	16.5	17.1	14.1	6.1	0.2
92.5°	14.5	14.5	15.0	12.1	4.5	0.2
95°	12.4	12.5	12.8	10.0	3.4	0.3
97.5°	10.6	10.7	11.1	8.5	2.4	0.3
100°	9.0	9.1	9.3	6.8	1.9	0.2
102.5°	7.5	7.9	7.9	5.6	1.5	0.2
105°	6.4	6.8	6.6	4.6	1.4	0.2
107.5°	5.3	5.7	5.7	3.7	1.4	0.2
110°	4.4	5.0	4.9	3.2	1.1	0.2



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	3.7	4.2	3.9	2.8	1.1	0.2
115°	3.2	3.7	3.5	2.5	1.0	0.2
117.5°	2.9	3.2	3.2	2.4	1.0	0.2
120°	2.7	3.0	2.9	2.3	1.0	0.2
122.5°	2.4	2.7	2.7	2.1	0.8	0.2
125°	2.3	2.4	2.5	1.9	0.8	0.2
127.5°	2.2	2.4	2.4	1.8	0.7	0.2
130°	2.0	2.2	2.2	1.7	0.7	0.2
132.5°	1.8	2.0	2.0	1.6	0.7	0.2
135°	1.7	1.9	1.9	1.5	0.7	0.2
137.5°	1.6	1.7	1.7	1.4	0.7	0.2
140°	1.4	1.6	1.6	1.3	0.7	0.2
142.5°	1.3	1.5	1.5	1.2	0.6	0.2
145°	1.2	1.3	1.4	1.1	0.6	0.2
147.5°	1.0	1.2	1.3	1.0	0.6	0.2
150°	0.7	1.1	1.1	1.0	0.6	0.2
152.5°	0.5	1.0	1.0	0.8	0.5	0.2
155°	0.4	0.7	0.8	0.7	0.5	0.3
157.5°	0.3	0.6	0.7	0.7	0.5	0.3
160°	0.2	0.5	0.6	0.6	0.4	0.3
162.5°	0.1	0.4	0.5	0.6	0.4	0.3
165°	0.0	0.3	0.4	0.5	0.4	0.3
167.5°	0.0	0.2	0.3	0.4	0.3	0.3
170°	0.0	0.1	0.2	0.3	0.3	0.3
172.5°	0.0	0.0	0.1	0.2	0.2	0.3
175°	0.0	0.0	0.0	0.1	0.2	0.3
177.5°	0.0	0.0	0.0	0.1	0.2	0.3
180°	0.1	0.1	0.1	0.1	0.1	0.1



TEST NUMBER: P892970
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-LOW-4000K

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	15.46	16.92	15.92	17.36	17.81	17.63	19.08	18.08	19.52	19.97
	3H	16.29	17.61	16.75	18.05	18.55	19.29	20.61	19.76	21.06	21.55
	4H	16.49	17.73	16.98	18.19	18.71	20.11	21.35	20.59	21.81	22.32
	6H	16.58	17.73	17.08	18.21	18.74	20.94	22.09	21.44	22.57	23.09
	8H	16.58	17.68	17.10	18.18	18.72	21.38	22.48	21.89	22.97	23.51
	12H	16.57	17.63	17.09	18.12	18.68	21.86	22.92	22.38	23.41	23.97
4H	2H	15.89	17.13	16.38	17.59	18.11	18.00	19.24	18.49	19.70	20.21
	3H	16.99	18.03	17.49	18.54	19.07	19.85	20.89	20.35	21.40	21.93
	4H	17.32	18.27	17.85	18.79	19.36	20.80	21.74	21.32	22.26	22.83
	6H	17.52	18.35	18.06	18.89	19.48	21.79	22.62	22.34	23.17	23.75
	8H	17.54	18.32	18.09	18.87	19.46	22.32	23.10	22.87	23.64	24.24
	12H	17.55	18.25	18.12	18.83	19.43	22.92	23.62	23.49	24.20	24.80
8H	4H	17.64	18.42	18.19	18.97	19.56	20.94	21.72	21.49	22.26	22.86
	6H	17.96	18.62	18.54	19.20	19.81	22.07	22.72	22.65	23.31	23.91
	8H	18.05	18.64	18.65	19.24	19.85	22.71	23.30	23.31	23.90	24.52
	12H	18.11	18.63	18.70	19.22	19.90	23.47	24.00	24.07	24.59	25.27
12H	4H	17.72	18.42	18.28	18.99	19.59	20.93	21.64	21.50	22.21	22.81
	6H	18.09	18.68	18.69	19.28	19.90	22.08	22.67	22.68	23.27	23.89
	8H	18.25	18.78	18.85	19.36	20.05	22.79	23.31	23.38	23.90	24.58