

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: P892971

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892971
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-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 5000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

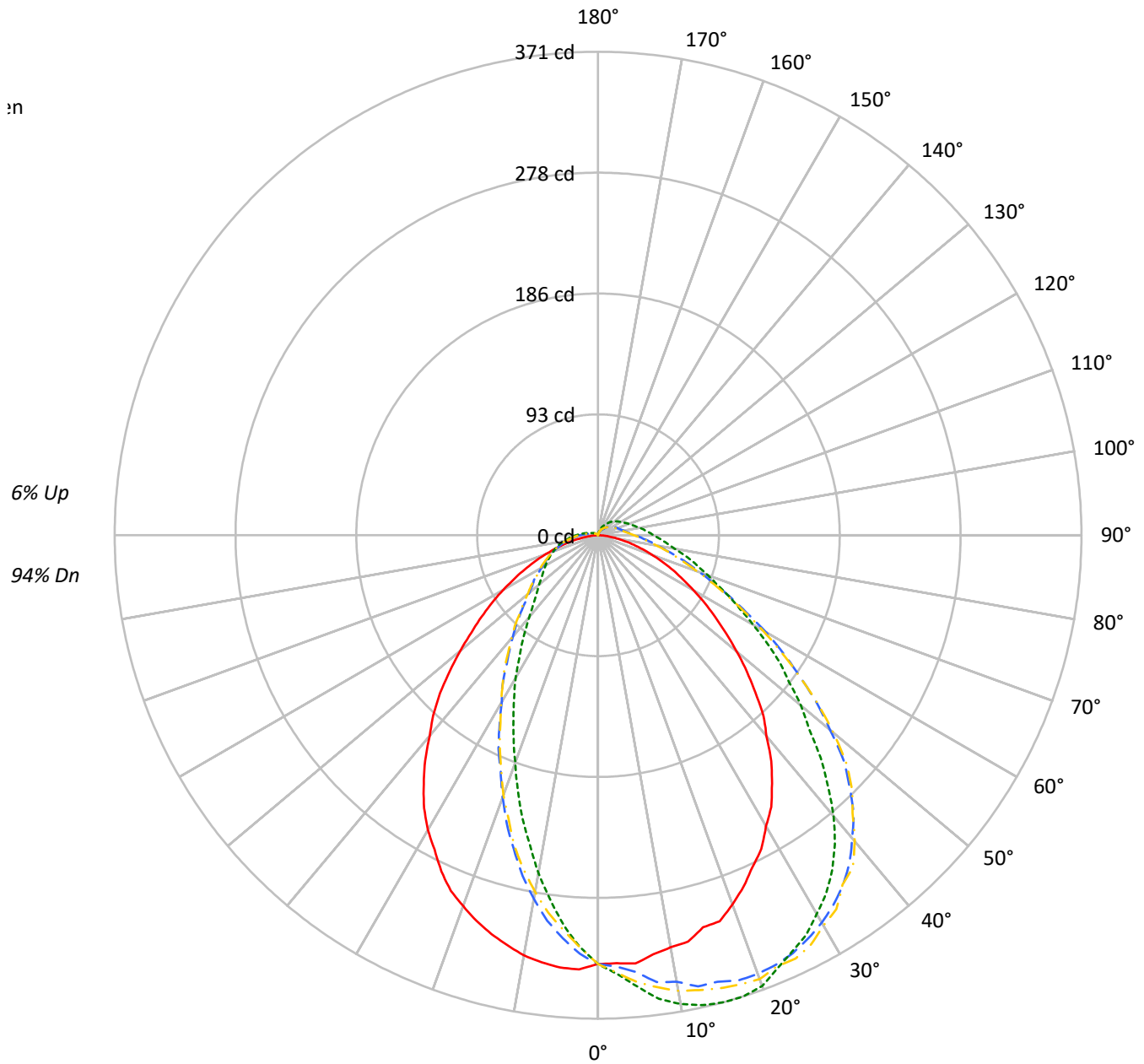
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 820.0 lumens
Efficiency: N/A
Efficacy: 118.8 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: P892971
CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-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	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°	6737	6737	6737	6737
5°	6744	6864	6807	5934
10°	6603	7012	6732	5057
15°	6491	6986	6602	4228
20°	6422	6848	6450	3459
25°	6158	6531	6244	2846
30°	5881	6242	5956	2352
35°	5570	5891	5585	1916
40°	5105	5389	5102	1571
45°	4647	4756	4671	1339
50°	4112	4151	4091	1208
55°	3599	3636	3573	1110
60°	3130	3102	3101	1049
65°	2714	2670	2650	998
70°	2270	2339	2194	953
75°	1805	2127	1761	919
80°	1337	1916	1215	855
85°	832	1849	682	803

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 6507 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	3.8
10°-20°	85.9	10.5
20°-30°	123.6	15.1
30°-40°	140.2	17.1
40°-50°	134.0	16.3
50°-60°	108.9	13.3
60°-70°	76.0	9.3
70°-80°	47.1	5.7
80°-90°	27.0	3.3
90°-100°	16.1	2.0
100°-110°	10.6	1.3
110°-120°	7.4	0.9
120°-130°	5.4	0.7
130°-140°	3.6	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°	240.4	29.3
0°-40°	380.7	46.4
0°-60°	623.6	76.1
0°-90°	773.7	94.4
90°-120°	34.2	4.2
90°-150°	45.1	5.5
90°-180°	46.0	5.6
0°-180°	820.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	329	329	329	329	329	
5°	330	348	333	301	330	31
15°	311	371	317	225	311	89
25°	281	352	284	154	281	129
35°	233	313	233	102	233	145
45°	171	242	172	68	171	132
55°	110	170	109	52	110	99
65°	64	111	62	41	64	63
75°	28	74	28	32	28	30
85°	6	50	5	22	6	7
90°	0	42	0	17	0	0
95°	0	37	0	13	0	0
105°	0	28	0	7	0	0
115°	0	23	0	4	0	0
125°	0	18	0	2	0	0
135°	0	15	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



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0
2.5°	328.7	331.2	331.4	339.1	336.9	339.8	336.1	336.8	333.5	332.7	321.5
5°	329.9	335.1	336.5	349.9	347.7	349.3	344.2	340.5	333.0	328.5	310.4
7.5°	324.3	338.2	345.9	355.4	358.9	360.1	349.9	343.1	330.6	319.5	298.3
10°	321.1	340.3	347.9	362.1	365.2	362.9	355.0	343.8	327.4	309.5	283.4
12.5°	319.4	341.5	354.6	369.2	369.3	366.9	357.5	345.5	322.1	298.7	267.7
15°	311.4	341.3	354.7	369.5	371.1	369.6	360.0	344.3	316.7	285.4	249.6
17.5°	310.6	340.7	358.2	373.7	371.0	369.9	361.5	343.8	310.3	271.8	232.6
20°	301.5	339.6	358.2	369.0	368.1	368.5	362.5	343.0	302.8	257.1	213.9
22.5°	291.9	338.2	356.7	364.9	359.7	367.6	358.2	341.0	295.3	241.8	195.4
25°	280.6	335.9	353.8	359.1	352.5	358.6	358.5	337.8	284.5	225.4	180.8
27.5°	271.5	332.3	349.0	357.0	345.8	351.1	354.1	334.1	271.8	209.1	163.5
30°	257.8	327.8	343.3	344.5	335.7	342.4	345.8	329.3	261.1	190.7	147.8
32.5°	247.3	322.6	336.3	334.7	325.9	334.7	340.3	324.6	248.4	174.5	136.7
35°	232.7	316.4	327.6	319.1	313.3	320.6	327.2	319.5	233.3	157.3	122.5
37.5°	218.5	310.9	317.1	306.6	298.6	306.8	321.2	310.0	218.1	143.6	111.9
40°	201.1	298.3	303.5	289.1	281.2	293.2	306.5	301.9	201.0	129.4	101.7
42.5°	188.0	288.9	290.4	270.8	261.3	274.2	289.2	290.2	187.1	116.6	92.6
45°	170.6	275.8	273.0	251.4	241.5	253.1	275.7	278.3	171.5	105.5	83.8
47.5°	155.0	261.1	255.6	230.4	219.3	233.0	258.1	264.9	154.0	95.2	75.5
50°	138.8	244.8	232.6	210.8	203.4	210.2	235.8	247.0	138.1	85.1	69.2
52.5°	123.9	226.7	211.6	192.1	184.6	190.2	212.4	229.2	122.3	76.6	63.6
55°	109.9	208.6	189.1	171.8	170.3	172.0	188.7	208.0	109.1	69.1	60.0
57.5°	97.4	186.6	168.8	156.1	153.4	154.8	166.3	186.2	96.4	61.5	54.8
60°	84.8	164.1	148.8	139.0	137.5	138.5	146.0	164.8	84.0	55.2	50.0
62.5°	73.4	141.4	127.9	124.2	123.1	123.1	126.3	143.5	72.4	48.7	46.3
65°	63.6	122.1	111.8	110.4	110.7	110.6	108.7	119.8	62.1	43.0	43.1
67.5°	53.6	101.5	95.8	97.5	98.8	98.2	94.2	99.6	52.4	37.8	40.2
70°	44.5	83.8	82.7	86.6	89.6	86.8	80.9	81.4	43.0	32.7	36.4
72.5°	35.9	67.8	72.7	78.1	81.0	77.9	69.7	67.3	34.6	28.1	33.0
75°	28.2	54.5	62.4	70.3	74.1	70.1	60.7	52.6	27.5	23.7	30.2
77.5°	21.5	43.2	53.3	62.6	66.3	62.8	52.8	41.0	20.1	19.9	27.1
80°	15.4	34.1	47.3	56.2	59.6	56.2	45.8	32.4	14.0	15.9	23.9
82.5°	10.1	26.4	41.2	51.2	54.8	50.7	39.8	25.0	8.9	12.9	21.5
85°	6.1	20.9	35.9	46.0	50.2	46.2	34.8	19.0	5.0	9.9	18.7
87.5°	2.7	16.2	32.0	42.4	46.2	42.6	31.0	14.9	2.0	7.8	16.1
90°	0.2	12.8	28.2	39.1	42.4	39.0	27.5	12.1	0.0	5.6	13.8
92.5°	0.2	11.0	25.9	36.2	40.0	36.1	24.8	9.9	0.0	4.1	11.6
95°	0.3	9.3	23.5	33.9	37.0	33.6	22.6	8.5	0.0	2.8	9.8
97.5°	0.3	8.4	21.5	31.7	35.0	31.5	20.7	7.6	0.0	2.0	8.0
100°	0.2	7.8	20.0	29.5	32.6	29.3	19.2	6.9	0.0	1.3	6.5
102.5°	0.2	7.2	18.7	27.7	30.2	27.4	17.9	6.5	0.0	1.1	5.3
105°	0.2	6.9	17.6	25.5	28.4	25.5	16.8	6.0	0.0	0.9	4.1
107.5°	0.2	6.5	16.7	24.3	26.7	24.1	15.9	5.7	0.0	0.9	3.3
110°	0.2	6.1	15.9	22.6	25.3	22.8	15.2	5.2	0.0	0.5	2.7



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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°	0.2	5.6	15.2	21.4	24.0	21.5	14.5	4.7	0.0	0.5	2.4
115°	0.2	5.1	14.5	20.7	22.6	20.5	13.9	4.2	0.0	0.4	2.2
117.5°	0.2	4.7	14.1	19.7	21.7	19.5	13.4	4.0	0.0	0.4	2.0
120°	0.2	4.5	13.5	18.7	20.3	18.5	12.7	3.8	0.0	0.4	1.9
122.5°	0.2	4.3	12.9	17.9	19.5	17.8	12.2	3.7	0.0	0.3	1.7
125°	0.2	4.1	12.2	16.9	18.4	16.7	11.2	3.6	0.0	0.2	1.5
127.5°	0.2	3.9	11.4	16.2	17.6	15.9	10.6	3.4	0.0	0.2	1.4
130°	0.2	3.8	10.4	15.2	16.6	15.0	9.8	3.4	0.0	0.2	1.3
132.5°	0.2	3.7	9.4	14.2	15.7	14.0	9.0	3.3	0.0	0.2	1.1
135°	0.2	3.6	8.3	13.3	14.7	13.0	8.4	3.2	0.0	0.2	1.0
137.5°	0.2	3.3	7.3	12.2	13.6	12.0	8.0	3.0	0.0	0.2	0.9
140°	0.2	3.1	6.6	11.3	12.5	11.0	7.3	2.8	0.0	0.1	0.6
142.5°	0.2	2.8	5.9	10.2	11.4	10.0	6.6	2.4	0.0	0.1	0.6
145°	0.2	2.5	5.4	8.9	10.3	8.9	6.1	2.2	0.0	0.1	0.5
147.5°	0.2	2.3	4.8	7.5	9.4	8.2	5.5	1.8	0.0	0.1	0.4
150°	0.2	2.0	4.2	6.4	8.3	7.2	5.1	1.6	0.0	0.0	0.3
152.5°	0.2	1.8	3.7	5.3	7.4	6.6	4.5	1.4	0.0	0.0	0.2
155°	0.3	1.7	3.1	4.6	6.5	5.7	3.8	1.2	0.0	0.0	0.2
157.5°	0.3	1.5	2.6	3.8	5.7	5.0	3.0	1.0	0.0	0.0	0.1
160°	0.3	1.4	2.2	2.9	4.7	4.1	2.5	0.8	0.0	0.0	0.1
162.5°	0.3	1.3	1.8	2.2	3.9	3.2	1.9	0.5	0.0	0.0	0.1
165°	0.3	1.1	1.6	1.5	3.0	2.5	1.5	0.3	0.0	0.0	0.0
167.5°	0.3	1.0	1.3	1.1	2.3	1.8	1.1	0.2	0.0	0.0	0.0
170°	0.3	0.8	1.1	0.8	0.6	1.2	0.6	0.1	0.0	0.0	0.0
172.5°	0.3	0.6	0.9	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



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

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	329.0	329.0	329.0	329.0	329.0	329.0
2.5°	319.9	316.4	313.2	316.6	319.1	328.7
5°	304.3	300.6	301.0	304.1	312.4	329.9
7.5°	288.2	281.9	283.4	292.2	304.4	324.3
10°	269.1	263.4	264.8	277.9	295.2	321.1
12.5°	252.1	242.5	250.7	263.1	284.4	319.4
15°	232.2	224.6	229.0	247.3	274.1	311.4
17.5°	210.6	204.8	210.1	228.3	261.3	310.6
20°	194.0	185.9	192.2	212.2	245.6	301.5
22.5°	175.4	169.2	175.8	194.2	229.6	291.9
25°	160.1	153.6	160.2	178.5	215.3	280.6
27.5°	145.2	139.3	145.2	162.0	201.2	271.5
30°	132.2	126.5	132.5	148.7	184.8	257.8
32.5°	120.0	112.7	120.4	136.1	170.2	247.3
35°	107.4	101.9	107.7	125.1	154.0	232.7
37.5°	97.0	91.2	98.1	113.0	140.4	218.5
40°	87.0	82.0	87.5	103.3	128.7	201.1
42.5°	79.3	74.2	79.8	94.5	117.0	188.0
45°	71.7	68.0	72.5	84.8	105.1	170.6
47.5°	66.3	63.0	66.8	77.7	95.2	155.0
50°	61.5	59.2	61.9	70.6	85.0	138.8
52.5°	57.3	55.0	58.2	65.1	76.9	123.9
55°	54.1	52.0	54.4	59.9	68.8	109.9
57.5°	50.5	49.2	51.1	54.4	62.5	97.4
60°	47.9	46.5	48.5	51.2	55.3	84.8
62.5°	45.0	44.3	45.5	47.6	49.8	73.4
65°	42.4	41.4	42.9	43.6	43.4	63.6
67.5°	39.6	39.3	40.2	40.3	38.7	53.6
70°	36.7	36.5	37.6	37.0	33.6	44.5
72.5°	34.4	34.4	35.0	33.7	29.3	35.9
75°	31.8	32.0	32.5	31.0	24.7	28.2
77.5°	29.4	29.6	29.7	27.7	20.7	21.5
80°	26.7	26.6	27.7	25.1	16.8	15.4
82.5°	24.3	23.9	24.6	22.0	13.6	10.1
85°	21.7	21.8	22.2	19.2	10.9	6.1
87.5°	19.5	19.5	19.9	16.9	8.2	2.7
90°	16.9	16.7	17.3	14.3	6.1	0.2
92.5°	14.8	14.8	15.2	12.3	4.5	0.2
95°	12.6	12.7	13.0	10.1	3.4	0.3
97.5°	10.8	10.9	11.3	8.6	2.5	0.3
100°	9.2	9.3	9.5	6.9	1.9	0.2
102.5°	7.6	8.0	8.0	5.7	1.5	0.2
105°	6.5	6.9	6.7	4.6	1.4	0.2
107.5°	5.4	5.8	5.8	3.8	1.4	0.2
110°	4.4	5.1	5.0	3.2	1.1	0.2



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	3.8	4.3	4.0	2.8	1.1	0.2
115°	3.2	3.8	3.6	2.6	1.0	0.2
117.5°	2.9	3.2	3.2	2.5	1.0	0.2
120°	2.7	3.0	2.9	2.4	1.0	0.2
122.5°	2.5	2.7	2.7	2.2	0.9	0.2
125°	2.4	2.5	2.6	1.9	0.9	0.2
127.5°	2.3	2.5	2.5	1.8	0.8	0.2
130°	2.0	2.3	2.3	1.7	0.8	0.2
132.5°	1.8	2.0	2.0	1.6	0.8	0.2
135°	1.7	1.9	1.9	1.5	0.8	0.2
137.5°	1.6	1.7	1.7	1.4	0.8	0.2
140°	1.4	1.6	1.6	1.3	0.8	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°	0.8	1.1	1.1	1.0	0.6	0.2
152.5°	0.5	1.0	1.0	0.9	0.5	0.2
155°	0.4	0.8	0.9	0.8	0.5	0.3
157.5°	0.3	0.6	0.8	0.8	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: P892971
 CATALOG NUMBER: 2MB-SC3-ASML-UNV-CC93-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	15.51	16.97	15.97	17.41	17.86	17.68	19.14	18.13	19.57	20.02
	3H	16.34	17.66	16.80	18.10	18.60	19.35	20.66	19.81	21.11	21.60
	4H	16.54	17.78	17.03	18.25	18.76	20.16	21.40	20.65	21.86	22.37
	6H	16.63	17.78	17.13	18.26	18.79	20.99	22.14	21.49	22.62	23.14
	8H	16.63	17.73	17.15	18.23	18.77	21.43	22.53	21.94	23.03	23.56
	12H	16.62	17.68	17.14	18.17	18.73	21.91	22.97	22.43	23.46	24.02
4H	2H	15.94	17.18	16.43	17.64	18.16	18.05	19.29	18.54	19.75	20.26
	3H	17.04	18.08	17.54	18.59	19.12	19.90	20.95	20.40	21.45	21.99
	4H	17.37	18.32	17.90	18.84	19.41	20.85	21.79	21.37	22.31	22.88
	6H	17.57	18.40	18.11	18.94	19.53	21.84	22.67	22.39	23.22	23.80
	8H	17.59	18.37	18.14	18.92	19.51	22.37	23.15	22.92	23.70	24.29
	12H	17.60	18.30	18.17	18.88	19.48	22.97	23.68	23.54	24.25	24.85
8H	4H	17.69	18.47	18.24	19.02	19.61	20.99	21.77	21.54	22.31	22.91
	6H	18.01	18.67	18.59	19.25	19.86	22.12	22.78	22.70	23.36	23.97
	8H	18.10	18.69	18.70	19.29	19.90	22.77	23.36	23.36	23.96	24.57
	12H	18.16	18.68	18.75	19.27	19.95	23.53	24.05	24.12	24.64	25.32
12H	4H	17.77	18.47	18.33	19.04	19.64	20.98	21.69	21.55	22.26	22.86
	6H	18.14	18.73	18.74	19.33	19.95	22.14	22.73	22.73	23.33	23.94
	8H	18.30	18.83	18.90	19.41	20.10	22.84	23.36	23.43	23.95	24.63