

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: P893518

Luminaire Tested: 4MB-4SL-FLTU-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-4SL-FLTU-UNV-L935
Description: 4000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 350
Light Source: -
Ballast/Driver: -

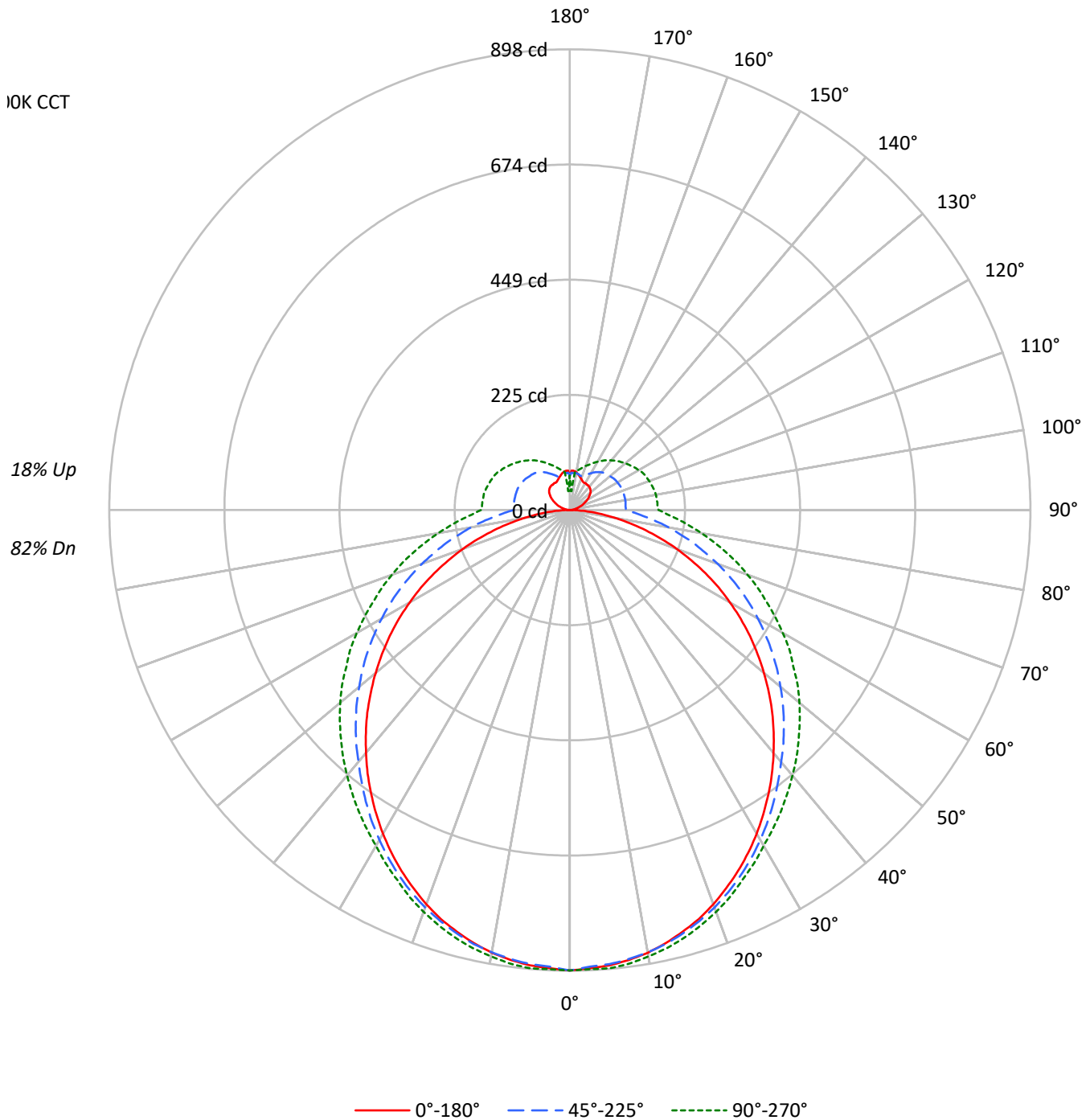
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3393.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.5
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893518
CATALOG NUMBER: 4MB-4SL-FLTU-UNV-L935

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	69	69	69	66
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	57	57	57	54
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	41	41	41	38
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	35	35	35	32
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	31	31	31	28
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	27	27	27	25
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	24	24	24	22
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	22	22	22	20
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6386	6386	6386
5°	6334	6119	6111
10°	6272	5884	5821
15°	6180	5649	5544
20°	6078	5408	5262
25°	5948	5157	4977
30°	5811	4900	4717
35°	5659	4643	4502
40°	5498	4390	4297
45°	5337	4168	4102
50°	5149	3940	3913
55°	4948	3715	3701
60°	4705	3475	3501
65°	4417	3222	3273
70°	4039	2943	3062
75°	3525	2660	2834
80°	2850	2356	2600
85°	1966	2047	2386

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5337 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	2.5
10°-20°	242.1	7.1
20°-30°	363.7	10.7
30°-40°	436.7	12.9
40°-50°	459.2	13.5
50°-60°	431.5	12.7
60°-70°	358.8	10.6
70°-80°	256.0	7.5
80°-90°	152.4	4.5
90°-100°	110.3	3.3
100°-110°	108.8	3.2
110°-120°	102.2	3.0
120°-130°	90.6	2.7
130°-140°	75.1	2.2
140°-150°	56.2	1.7
150°-160°	37.0	1.1
160°-170°	21.0	0.6
170°-180°	6.7	0.2
0°-30°	690.6	20.4
0°-40°	1127.3	33.2
0°-60°	2018.0	59.5
0°-90°	2785.1	82.1
90°-120°	321.4	9.5
90°-150°	543.2	16.0
90°-180°	608.0	17.9
0°-180°	3393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	898	898	898	898	898	
5°	891	902	888	891	897	85
15°	851	864	854	860	863	240
25°	776	791	787	794	796	358
35°	675	691	693	711	717	422
45°	558	574	590	620	631	430
55°	429	446	481	520	532	383
65°	292	316	366	412	423	289
75°	153	188	250	298	314	163
85°	38	84	147	196	212	42
90°	0	48	109	157	173	3
95°	4	51	109	155	171	5
105°	16	57	110	153	168	17
115°	30	62	109	147	162	30
125°	46	66	106	138	148	41
135°	57	69	100	125	134	44
145°	60	67	90	112	118	38
155°	61	68	76	94	100	28
165°	70	74	71	72	84	20
175°	77	76	72	62	37	7
180°	67	67	67	67	67	



TEST NUMBER: P893518
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5
2.5°	894.2	896.7	897.5	905.7	902.4	905.7	900.0	893.4	891.8	895.9	890.9
5°	890.9	893.4	894.2	902.4	899.1	901.6	896.7	890.1	888.5	893.4	888.5
7.5°	884.4	886.9	887.7	896.7	892.6	895.9	890.1	883.6	882.8	887.7	882.8
10°	876.2	878.7	879.5	887.7	884.4	887.7	881.9	875.4	874.6	880.3	875.4
12.5°	864.7	867.2	868.8	877.0	872.9	877.0	870.5	863.9	864.7	869.6	866.4
15°	850.8	854.1	854.9	863.1	859.8	863.9	857.3	850.8	852.4	857.3	854.1
17.5°	836.0	839.3	840.1	847.5	844.2	849.1	841.8	836.0	837.7	842.6	840.1
20°	818.0	821.3	822.9	830.3	827.0	831.9	824.6	819.6	821.3	827.0	824.6
22.5°	797.5	802.4	803.2	811.4	807.3	812.3	804.9	800.8	803.2	809.0	806.5
25°	776.2	781.1	781.9	790.1	786.9	791.0	783.6	779.5	782.8	788.5	786.9
27.5°	753.2	758.2	759.8	767.2	763.9	768.8	760.6	758.2	761.4	767.2	765.5
30°	728.7	733.6	734.4	741.8	739.3	744.2	736.9	733.6	738.5	744.2	742.6
32.5°	702.4	707.3	709.8	716.4	713.9	718.0	711.4	709.8	713.9	719.6	718.8
35°	675.4	680.3	682.8	690.1	686.9	691.0	684.4	682.8	689.3	693.4	693.4
37.5°	647.5	652.4	654.9	662.3	658.2	663.1	656.5	655.7	663.1	667.2	667.2
40°	618.0	623.7	626.2	632.8	629.5	633.6	627.8	628.7	635.2	640.1	641.0
42.5°	588.5	594.2	596.7	604.1	600.0	604.1	599.2	600.0	607.4	612.3	616.4
45°	558.2	563.1	565.6	573.7	568.8	573.7	568.8	570.5	577.8	585.2	590.1
47.5°	526.2	531.1	535.2	541.8	537.7	541.8	538.5	541.0	550.0	557.4	563.9
50°	494.2	499.2	503.3	509.0	504.9	510.6	506.5	509.8	521.3	528.7	536.0
52.5°	461.5	465.6	472.1	475.4	472.1	478.7	475.4	480.3	491.8	500.8	509.0
55°	428.7	432.8	439.3	441.8	438.5	445.9	443.4	450.0	462.3	472.1	481.1
57.5°	395.1	399.2	404.9	407.4	404.9	413.1	412.3	419.7	432.0	442.6	452.4
60°	360.6	364.7	369.7	372.1	372.1	380.3	380.3	389.3	402.4	412.3	423.8
62.5°	327.0	329.5	334.4	337.7	340.2	348.3	348.3	358.2	372.1	383.6	395.1
65°	291.8	294.3	298.3	302.4	306.5	315.6	316.4	327.0	341.0	352.4	365.6
67.5°	256.5	259.0	263.1	268.0	273.8	282.8	284.4	295.9	310.6	323.8	336.1
70°	222.1	222.9	227.9	234.4	241.0	250.0	252.4	264.7	280.3	293.4	306.5
72.5°	187.7	188.5	193.4	201.6	209.0	218.8	222.1	235.2	250.8	263.9	277.0
75°	153.3	154.1	160.6	170.5	178.7	187.7	191.8	205.7	221.3	235.2	250.0
77.5°	120.5	122.1	128.7	138.5	148.4	159.0	163.1	177.0	194.3	207.4	221.3
80°	90.2	91.8	99.2	109.8	120.5	130.3	135.2	149.2	167.2	180.3	195.9
82.5°	62.3	64.8	73.8	85.2	95.9	106.6	111.5	124.6	141.0	155.7	170.5
85°	38.5	41.8	50.8	63.1	74.6	84.4	89.3	103.3	118.8	132.8	146.7
87.5°	18.0	22.9	32.0	44.3	56.6	64.8	70.5	84.4	99.2	113.1	127.0
90°	0.0	7.4	16.4	28.7	41.0	48.4	54.9	68.0	82.8	95.9	109.0
92.5°	1.6	8.2	18.0	29.5	41.8	49.2	55.7	68.8	82.8	95.9	109.0
95°	4.1	9.0	18.9	31.1	43.4	50.8	56.6	69.7	83.6	96.7	109.0
97.5°	7.4	11.5	21.3	32.8	45.1	51.6	58.2	71.3	84.4	97.5	109.8
100°	9.8	13.1	22.9	34.4	46.7	53.3	59.8	72.1	85.2	98.4	109.8
102.5°	12.3	16.4	25.4	36.1	48.4	54.9	60.7	72.9	86.1	98.4	109.8
105°	15.6	18.9	27.0	38.5	50.0	56.6	62.3	74.6	86.9	99.2	109.8
107.5°	18.9	21.3	29.5	40.2	51.6	57.4	63.1	75.4	87.7	99.2	109.8
110°	22.9	24.6	32.0	41.8	52.5	59.0	64.8	76.2	87.7	99.2	109.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	27.0	27.0	34.4	43.4	54.1	59.8	65.6	77.0	88.5	99.2	109.8
115°	30.3	31.1	36.9	45.1	55.7	61.5	66.4	77.0	88.5	99.2	109.0
117.5°	34.4	34.4	40.2	46.7	56.6	62.3	68.0	77.9	88.5	98.4	108.2
120°	38.5	37.7	42.6	49.2	58.2	63.1	68.8	78.7	88.5	98.4	107.4
122.5°	42.6	41.0	44.3	50.8	59.0	64.8	68.8	78.7	88.5	97.5	106.6
125°	45.9	44.3	46.7	53.3	60.7	65.6	69.7	78.7	88.5	96.7	105.7
127.5°	49.2	47.5	50.0	54.9	61.5	65.6	70.5	78.7	88.5	95.9	104.1
130°	52.5	50.0	53.3	56.6	63.1	66.4	70.5	78.7	87.7	95.1	102.5
132.5°	54.9	52.5	55.7	58.2	63.9	67.2	71.3	78.7	86.9	94.3	101.6
135°	56.6	54.1	58.2	59.8	65.6	68.8	72.1	78.7	86.1	93.4	100.0
137.5°	58.2	54.9	59.8	61.5	66.4	69.7	72.1	77.9	85.2	91.8	98.4
140°	59.0	56.6	61.5	63.1	65.6	68.8	72.1	77.0	83.6	90.2	95.9
142.5°	59.8	56.6	62.3	63.9	65.6	68.0	71.3	75.4	82.0	87.7	93.4
145°	59.8	57.4	62.3	63.9	65.6	67.2	69.7	74.6	79.5	84.4	90.2
147.5°	59.8	58.2	63.1	64.8	66.4	66.4	68.0	72.9	77.0	82.0	86.9
150°	60.7	58.2	63.1	64.8	67.2	67.2	68.0	70.5	75.4	78.7	82.8
152.5°	59.8	59.0	62.3	65.6	67.2	68.0	68.0	68.8	72.9	76.2	79.5
155°	60.7	60.7	63.1	67.2	68.0	68.0	68.8	68.0	69.7	72.9	76.2
157.5°	62.3	63.9	63.9	68.0	69.7	69.7	70.5	69.7	68.8	69.7	72.9
160°	64.8	66.4	66.4	68.8	71.3	71.3	72.1	71.3	70.5	69.7	69.7
162.5°	67.2	68.8	68.8	69.7	72.1	72.9	73.8	72.9	72.1	70.5	69.7
165°	69.7	71.3	71.3	71.3	72.9	73.8	74.6	73.8	73.8	72.1	71.3
167.5°	72.1	73.8	73.8	72.9	73.8	74.6	75.4	74.6	74.6	73.8	72.1
170°	74.6	76.2	76.2	74.6	75.4	75.4	76.2	75.4	75.4	73.8	72.9
172.5°	76.2	77.9	77.0	76.2	76.2	76.2	76.2	75.4	74.6	72.9	72.9
175°	77.0	78.7	78.7	77.0	76.2	76.2	77.0	75.4	74.6	73.8	72.1
177.5°	77.0	78.7	78.7	77.0	77.0	76.2	77.0	76.2	76.2	74.6	72.9
180°	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5
2.5°	894.2	893.4	888.5	894.2	894.2	892.6	899.1	898.3	897.5	895.9
5°	890.9	890.1	885.2	890.9	890.9	890.1	896.7	897.5	898.3	896.7
7.5°	886.0	885.2	880.3	886.0	886.0	885.2	892.6	893.4	894.2	891.8
10°	878.7	877.8	872.9	878.7	879.5	878.7	884.4	885.2	886.9	883.6
12.5°	868.8	868.8	863.9	869.6	870.5	869.6	875.4	877.0	878.7	874.6
15°	856.5	857.3	853.2	859.0	859.8	859.8	865.5	866.4	868.8	863.1
17.5°	841.8	843.4	840.1	845.9	846.7	847.5	850.8	853.2	855.7	849.1
20°	826.2	827.0	824.6	829.5	831.1	830.3	834.4	837.7	840.1	833.6
22.5°	807.3	808.2	805.7	810.6	812.3	813.1	816.4	820.5	822.1	816.4
25°	786.0	789.3	787.7	792.6	794.2	794.2	797.5	801.6	804.1	795.9
27.5°	765.5	769.6	768.0	772.9	774.6	775.4	777.0	781.9	784.4	777.0
30°	742.6	747.5	746.7	751.6	753.2	752.4	755.7	760.6	763.9	755.7
32.5°	717.2	723.7	722.9	729.5	731.1	731.9	734.4	741.0	744.2	736.9
35°	692.6	700.0	700.8	708.2	710.6	711.4	714.7	721.3	724.6	717.2
37.5°	667.2	677.0	679.5	686.9	689.3	690.1	693.4	700.8	704.1	696.7
40°	642.6	654.1	657.4	663.9	666.4	668.8	671.3	678.7	682.8	675.4
42.5°	618.0	630.3	634.4	641.0	643.4	645.9	649.2	657.4	660.6	654.1
45°	592.6	605.7	610.6	617.2	620.5	622.9	626.2	633.6	637.7	631.1
47.5°	567.2	580.3	585.2	592.6	595.9	599.2	601.6	610.6	614.7	608.2
50°	540.1	554.9	560.6	567.2	572.1	574.6	577.8	586.0	590.1	584.4
52.5°	513.1	528.7	535.2	541.8	546.7	550.8	552.4	561.5	565.6	559.8
55°	485.2	500.8	508.2	515.6	520.5	525.4	527.0	536.0	540.1	531.9
57.5°	457.4	473.8	481.1	489.3	493.4	499.2	501.6	509.8	513.9	508.2
60°	429.5	445.1	454.1	461.5	467.2	472.1	473.8	482.8	486.9	479.5
62.5°	400.8	417.2	426.2	434.4	439.3	445.1	447.5	455.7	459.0	451.6
65°	371.3	387.7	397.5	404.9	411.5	416.4	418.0	427.0	430.3	422.9
67.5°	341.8	358.2	368.8	377.0	382.8	388.5	390.1	399.2	402.4	396.7
70°	313.1	329.5	340.2	350.0	354.1	359.8	362.3	370.5	373.8	368.8
72.5°	284.4	300.8	312.3	322.1	326.2	332.0	335.2	341.8	346.7	342.6
75°	256.5	272.9	284.4	294.3	298.3	304.1	307.4	313.9	317.2	313.9
77.5°	229.5	245.9	256.5	266.4	271.3	276.2	279.5	286.1	290.2	286.9
80°	203.3	219.7	230.3	239.3	244.3	249.2	252.4	259.8	263.1	260.6
82.5°	178.7	194.3	205.7	214.7	219.7	224.6	227.9	234.4	238.5	235.2
85°	156.6	172.1	182.8	191.8	195.9	200.8	204.1	210.6	213.9	212.3
87.5°	135.2	149.2	161.5	170.5	174.6	179.5	183.6	188.5	192.6	190.2
90°	118.8	131.1	142.6	151.6	156.6	161.5	166.4	171.3	174.6	172.9
92.5°	119.7	131.1	141.8	150.0	154.9	159.8	164.7	170.5	172.9	171.3
95°	119.7	131.1	141.8	150.0	154.9	159.8	164.7	170.5	172.9	171.3
97.5°	119.7	131.1	141.8	150.0	154.9	159.8	164.7	170.5	172.9	170.5
100°	119.7	131.1	141.8	150.0	154.9	159.0	163.9	169.7	172.1	170.5
102.5°	119.7	131.1	141.0	149.2	154.1	158.2	163.1	168.8	171.3	169.7
105°	119.7	130.3	141.0	148.4	153.3	157.4	162.3	167.2	169.7	168.0
107.5°	118.8	129.5	139.3	147.5	151.6	155.7	160.6	165.6	168.0	166.4
110°	118.8	128.7	138.5	145.9	150.0	154.1	159.0	163.9	166.4	164.7



TEST NUMBER: P893518
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	118.0	127.9	137.7	144.3	148.4	152.5	156.6	162.3	164.7	163.1
115°	117.2	127.0	136.1	142.6	146.7	150.0	154.9	160.6	162.3	161.5
117.5°	116.4	125.4	134.4	141.0	145.1	148.4	152.5	157.4	159.8	159.0
120°	115.6	123.8	132.8	138.5	142.6	145.9	149.2	154.1	156.6	154.9
122.5°	113.9	122.1	131.1	136.9	140.2	143.4	146.7	150.8	153.3	152.5
125°	112.3	120.5	128.7	134.4	137.7	140.2	143.4	147.5	149.2	148.4
127.5°	110.7	118.8	126.2	131.1	135.2	137.7	140.2	144.3	145.9	145.1
130°	109.0	116.4	123.8	128.7	132.0	134.4	136.9	141.0	141.8	141.8
132.5°	107.4	113.9	121.3	126.2	129.5	131.1	133.6	136.9	138.5	137.7
135°	105.7	111.5	118.8	122.9	125.4	127.9	130.3	133.6	134.4	134.4
137.5°	103.3	109.0	115.6	119.7	122.1	123.8	126.2	129.5	130.3	130.3
140°	100.8	106.6	112.3	115.6	118.8	120.5	122.1	125.4	126.2	126.2
142.5°	98.4	103.3	109.0	112.3	115.6	116.4	118.8	121.3	122.1	122.1
145°	95.1	100.8	105.7	109.0	111.5	112.3	114.7	117.2	117.2	118.0
147.5°	91.0	95.9	102.5	104.9	107.4	108.2	110.7	112.3	113.1	113.1
150°	86.9	91.8	97.5	101.6	104.1	104.9	105.7	108.2	108.2	109.0
152.5°	82.8	86.9	92.6	96.7	100.0	100.8	101.6	103.3	103.3	104.1
155°	78.7	82.0	86.9	91.0	94.3	95.9	97.5	99.2	99.2	100.0
157.5°	75.4	78.7	82.8	86.1	88.5	91.0	93.4	95.1	95.1	95.1
160°	71.3	73.8	77.9	80.3	83.6	85.2	89.3	91.0	91.0	91.8
162.5°	68.8	69.7	72.1	74.6	77.0	78.7	82.8	86.9	86.9	87.7
165°	69.7	68.8	69.7	70.5	72.1	72.9	75.4	81.1	82.8	83.6
167.5°	71.3	68.8	68.8	68.8	70.5	70.5	72.9	76.2	82.0	80.3
170°	71.3	68.8	67.2	67.2	68.0	67.2	68.8	71.3	74.6	77.9
172.5°	72.1	69.7	67.2	63.9	64.8	63.9	62.3	62.3	63.1	73.8
175°	71.3	69.7	66.4	62.3	61.5	59.0	54.1	50.0	47.5	36.9
177.5°	70.5	68.0	65.6	62.3	60.7	58.2	52.5	45.9	39.3	37.7
180°	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2



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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	14.12	15.44	14.74	16.08	16.80	16.68	18.00	17.29	18.63	19.35
	3H	15.53	16.73	16.16	17.37	18.13	19.10	20.30	19.73	20.95	21.70
	4H	15.96	17.10	16.61	17.75	18.52	20.25	21.38	20.89	22.04	22.81
	6H	16.20	17.25	16.86	17.92	18.70	21.38	22.44	22.04	23.10	23.89
	8H	16.24	17.25	16.91	17.94	18.73	21.94	22.95	22.61	23.64	24.43
	12H	16.25	17.22	16.93	17.90	18.72	22.52	23.49	23.20	24.17	24.99
4H	2H	15.01	16.15	15.66	16.81	17.58	17.02	18.16	17.68	18.82	19.59
	3H	16.64	17.61	17.30	18.30	19.09	19.66	20.62	20.32	21.32	22.10
	4H	17.19	18.08	17.87	18.78	19.59	20.95	21.83	21.63	22.53	23.35
	6H	17.53	18.31	18.23	19.03	19.86	22.26	23.04	22.96	23.76	24.58
	8H	17.61	18.34	18.31	19.06	19.90	22.92	23.65	23.62	24.37	25.21
	12H	17.64	18.30	18.36	19.05	19.89	23.62	24.28	24.34	25.02	25.87
8H	4H	17.84	18.57	18.55	19.29	20.13	21.10	21.83	21.80	22.55	23.39
	6H	18.35	18.96	19.08	19.72	20.57	22.55	23.17	23.29	23.93	24.77
	8H	18.50	19.06	19.25	19.82	20.68	23.33	23.89	24.08	24.65	25.51
	12H	18.59	19.09	19.34	19.84	20.76	24.20	24.69	24.94	25.44	26.36
12H	4H	18.01	18.67	18.73	19.41	20.26	21.09	21.75	21.81	22.50	23.34
	6H	18.60	19.16	19.35	19.92	20.78	22.57	23.13	23.32	23.89	24.75
	8H	18.84	19.33	19.59	20.09	21.00	23.40	23.90	24.15	24.65	25.57