

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: P895003

Luminaire Tested: 8TMB-4SL-FLTU-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895003
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: 8TMB-4SL-FLTU-UNV-L940
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 400
Light Source: -
Ballast/Driver: -

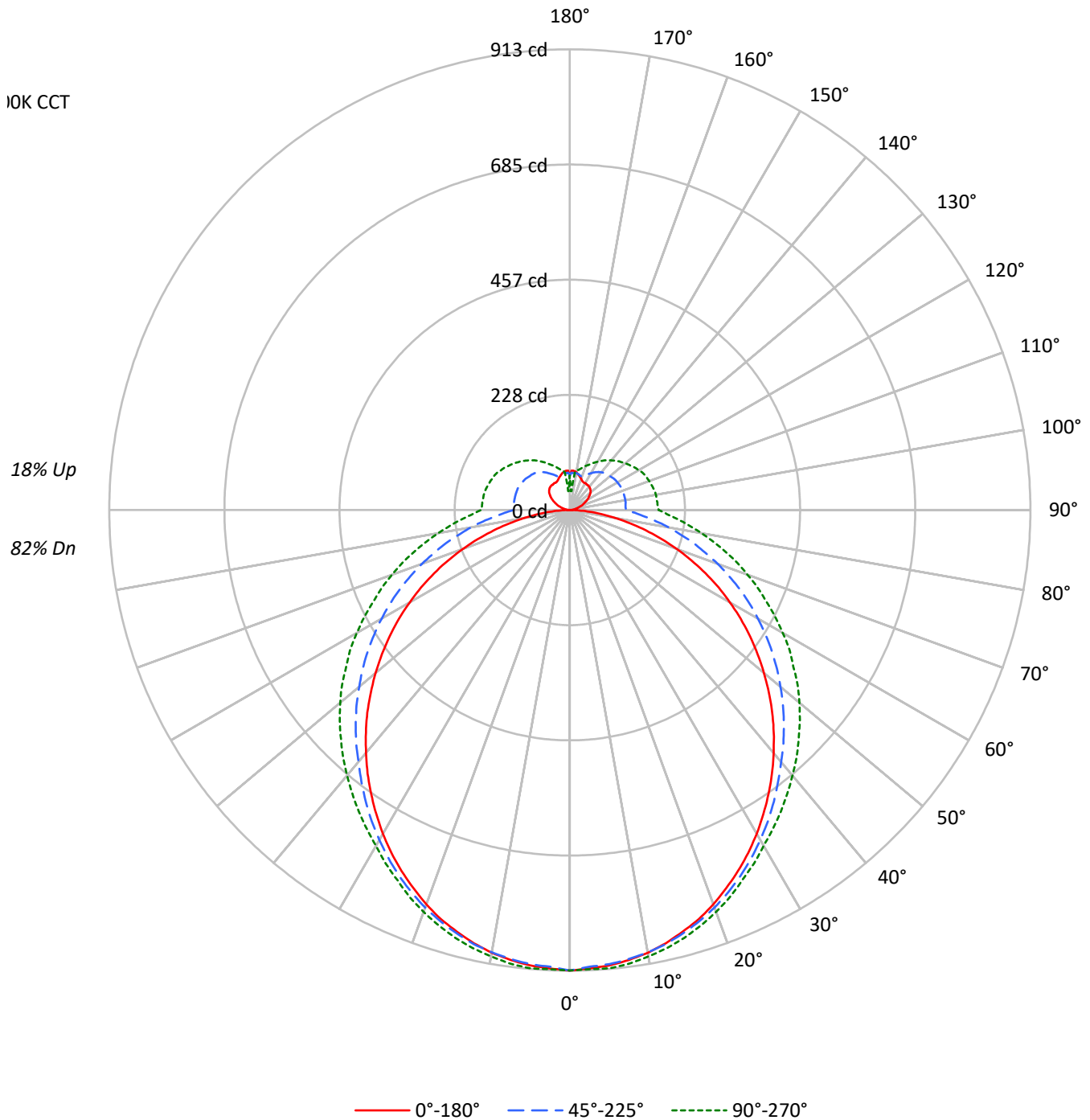
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3449.9 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P895003
CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L940

Luminous Intensity Polar Plot





TEST NUMBER: P895003
 CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L940

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
RCR																				
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	82	
1	103	98	93	89	99	94	90	86	86	83	80	79	77	74	73	71	69	66	66	
2	93	85	77	71	89	81	75	69	75	69	65	69	64	61	63	60	57	54	54	
3	85	74	65	59	81	71	63	57	65	59	54	60	55	51	55	51	48	45	45	
4	77	65	56	49	74	63	54	48	58	51	45	53	48	43	49	45	41	38	38	
5	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	32	32	
6	66	52	43	37	62	50	42	36	47	39	34	43	37	32	40	35	31	28	28	
7	61	47	38	32	58	45	37	31	42	35	30	39	33	29	37	31	27	25	25	
8	56	43	34	29	54	41	33	28	39	32	27	36	30	26	34	28	24	22	22	
9	53	39	31	26	50	38	30	25	35	29	24	33	27	23	31	26	22	20	20	
10	49	36	28	23	47	35	28	23	33	26	22	31	25	21	29	24	20	18	18	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3238	3238	3238
5°	3219	3107	3099
10°	3195	2993	2952
15°	3156	2877	2811
20°	3111	2758	2668
25°	3053	2634	2523
30°	2990	2506	2392
35°	2921	2378	2283
40°	2848	2252	2179
45°	2776	2142	2080
50°	2690	2028	1984
55°	2600	1916	1877
60°	2490	1795	1775
65°	2359	1668	1660
70°	2187	1529	1553
75°	1946	1386	1437
80°	1632	1233	1318
85°	1229	1077	1210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2776 cd/sqm



TEST NUMBER: P895003
 CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	2.5
10°-20°	246.1	7.1
20°-30°	369.8	10.7
30°-40°	444.0	12.9
40°-50°	466.9	13.5
50°-60°	438.7	12.7
60°-70°	364.8	10.6
70°-80°	260.3	7.5
80°-90°	154.9	4.5
90°-100°	112.2	3.3
100°-110°	110.7	3.2
110°-120°	103.9	3.0
120°-130°	92.1	2.7
130°-140°	76.3	2.2
140°-150°	57.1	1.7
150°-160°	37.6	1.1
160°-170°	21.3	0.6
170°-180°	6.8	0.2
0°-30°	702.2	20.4
0°-40°	1146.3	33.2
0°-60°	2051.9	59.5
0°-90°	2831.9	82.1
90°-120°	326.8	9.5
90°-150°	552.3	16.0
90°-180°	618.0	17.9
0°-180°	3449.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	906	917	903	906	912	86
15°	865	878	868	874	878	244
25°	789	804	800	808	809	364
35°	687	703	705	723	729	430
45°	568	583	600	631	642	437
55°	436	453	489	529	541	389
65°	297	321	372	418	430	294
75°	156	191	254	303	319	166
85°	39	86	149	199	216	43
90°	0	49	111	159	176	3
95°	4	52	111	158	174	5
105°	16	58	112	156	171	17
115°	31	62	111	149	164	31
125°	47	67	108	140	151	42
135°	58	70	102	128	137	44
145°	61	68	92	113	120	38
155°	62	69	78	96	102	29
165°	71	75	72	73	85	20
175°	78	78	73	62	38	7
180°	68	68	68	68	68	



TEST NUMBER: P895003
 CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L940

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	912.6	912.6	912.6	912.6	912.6	912.6	912.6	912.6	912.6	912.6	912.6
2.5°	909.2	911.7	912.6	920.9	917.6	920.9	915.1	908.4	906.7	910.9	905.9
5°	905.9	908.4	909.2	917.6	914.3	916.8	911.7	905.1	903.4	908.4	903.4
7.5°	899.2	901.7	902.6	911.7	907.6	910.9	905.1	898.4	897.6	902.6	897.6
10°	890.9	893.4	894.2	902.6	899.2	902.6	896.7	890.1	889.2	895.1	890.1
12.5°	879.2	881.7	883.4	891.7	887.6	891.7	885.1	878.4	879.2	884.2	880.9
15°	865.1	868.4	869.2	877.6	874.2	878.4	871.7	865.1	866.7	871.7	868.4
17.5°	850.1	853.4	854.2	861.7	858.4	863.4	855.9	850.1	851.7	856.7	854.2
20°	831.7	835.1	836.7	844.2	840.9	845.9	838.4	833.4	835.1	840.9	838.4
22.5°	810.9	815.9	816.7	825.1	820.9	825.9	818.4	814.2	816.7	822.6	820.1
25°	789.2	794.2	795.1	803.4	800.1	804.2	796.7	792.6	795.9	801.7	800.1
27.5°	765.9	770.9	772.6	780.1	776.7	781.7	773.4	770.9	774.2	780.1	778.4
30°	740.9	745.9	746.7	754.2	751.7	756.7	749.2	745.9	750.9	756.7	755.1
32.5°	714.2	719.2	721.7	728.4	725.9	730.1	723.4	721.7	725.9	731.7	730.9
35°	686.7	691.7	694.2	701.7	698.4	702.6	695.9	694.2	700.9	705.1	705.1
37.5°	658.4	663.4	665.9	673.4	669.2	674.2	667.6	666.7	674.2	678.4	678.4
40°	628.4	634.2	636.7	643.4	640.1	644.2	638.4	639.2	645.9	650.9	651.7
42.5°	598.4	604.2	606.7	614.2	610.1	614.2	609.2	610.1	617.6	622.6	626.7
45°	567.6	572.6	575.1	583.4	578.4	583.4	578.4	580.1	587.6	595.1	600.1
47.5°	535.0	540.0	544.2	550.9	546.7	550.9	547.6	550.1	559.2	566.7	573.4
50°	502.5	507.5	511.7	517.5	513.4	519.2	515.0	518.4	530.0	537.5	545.0
52.5°	469.2	473.4	480.0	483.4	480.0	486.7	483.4	488.4	500.0	509.2	517.5
55°	435.9	440.0	446.7	449.2	445.9	453.4	450.9	457.5	470.0	480.0	489.2
57.5°	401.7	405.9	411.7	414.2	411.7	420.0	419.2	426.7	439.2	450.0	460.0
60°	366.7	370.9	375.9	378.4	378.4	386.7	386.7	395.9	409.2	419.2	430.9
62.5°	332.5	335.0	340.0	343.4	345.9	354.2	354.2	364.2	378.4	390.0	401.7
65°	296.7	299.2	303.4	307.5	311.7	320.9	321.7	332.5	346.7	358.4	371.7
67.5°	260.9	263.4	267.5	272.5	278.4	287.5	289.2	300.9	315.9	329.2	341.7
70°	225.9	226.7	231.7	238.4	245.0	254.2	256.7	269.2	285.0	298.4	311.7
72.5°	190.9	191.7	196.7	205.0	212.5	222.5	225.9	239.2	255.0	268.4	281.7
75°	155.8	156.7	163.3	173.3	181.7	190.9	195.0	209.2	225.0	239.2	254.2
77.5°	122.5	124.2	130.8	140.8	150.8	161.7	165.8	180.0	197.5	210.9	225.0
80°	91.7	93.3	100.8	111.7	122.5	132.5	137.5	151.7	170.0	183.4	199.2
82.5°	63.3	65.8	75.0	86.7	97.5	108.3	113.3	126.7	143.3	158.3	173.3
85°	39.2	42.5	51.7	64.2	75.8	85.8	90.8	105.0	120.8	135.0	149.2
87.5°	18.3	23.3	32.5	45.0	57.5	65.8	71.7	85.8	100.8	115.0	129.2
90°	0.0	7.5	16.7	29.2	41.7	49.2	55.8	69.2	84.2	97.5	110.8
92.5°	1.7	8.3	18.3	30.0	42.5	50.0	56.7	70.0	84.2	97.5	110.8
95°	4.2	9.2	19.2	31.7	44.2	51.7	57.5	70.8	85.0	98.3	110.8
97.5°	7.5	11.7	21.7	33.3	45.8	52.5	59.2	72.5	85.8	99.2	111.7
100°	10.0	13.3	23.3	35.0	47.5	54.2	60.8	73.3	86.7	100.0	111.7
102.5°	12.5	16.7	25.8	36.7	49.2	55.8	61.7	74.2	87.5	100.0	111.7
105°	15.8	19.2	27.5	39.2	50.8	57.5	63.3	75.8	88.3	100.8	111.7
107.5°	19.2	21.7	30.0	40.8	52.5	58.3	64.2	76.7	89.2	100.8	111.7
110°	23.3	25.0	32.5	42.5	53.3	60.0	65.8	77.5	89.2	100.8	111.7



TEST NUMBER: P895003
 CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L940

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	27.5	27.5	35.0	44.2	55.0	60.8	66.7	78.3	90.0	100.8	111.7
115°	30.8	31.7	37.5	45.8	56.7	62.5	67.5	78.3	90.0	100.8	110.8
117.5°	35.0	35.0	40.8	47.5	57.5	63.3	69.2	79.2	90.0	100.0	110.0
120°	39.2	38.3	43.3	50.0	59.2	64.2	70.0	80.0	90.0	100.0	109.2
122.5°	43.3	41.7	45.0	51.7	60.0	65.8	70.0	80.0	90.0	99.2	108.3
125°	46.7	45.0	47.5	54.2	61.7	66.7	70.8	80.0	90.0	98.3	107.5
127.5°	50.0	48.3	50.8	55.8	62.5	66.7	71.7	80.0	90.0	97.5	105.8
130°	53.3	50.8	54.2	57.5	64.2	67.5	71.7	80.0	89.2	96.7	104.2
132.5°	55.8	53.3	56.7	59.2	65.0	68.3	72.5	80.0	88.3	95.8	103.3
135°	57.5	55.0	59.2	60.8	66.7	70.0	73.3	80.0	87.5	95.0	101.7
137.5°	59.2	55.8	60.8	62.5	67.5	70.8	73.3	79.2	86.7	93.3	100.0
140°	60.0	57.5	62.5	64.2	66.7	70.0	73.3	78.3	85.0	91.7	97.5
142.5°	60.8	57.5	63.3	65.0	66.7	69.2	72.5	76.7	83.3	89.2	95.0
145°	60.8	58.3	63.3	65.0	66.7	68.3	70.8	75.8	80.8	85.8	91.7
147.5°	60.8	59.2	64.2	65.8	67.5	67.5	69.2	74.2	78.3	83.3	88.3
150°	61.7	59.2	64.2	65.8	68.3	68.3	69.2	71.7	76.7	80.0	84.2
152.5°	60.8	60.0	63.3	66.7	68.3	69.2	69.2	70.0	74.2	77.5	80.8
155°	61.7	61.7	64.2	68.3	69.2	69.2	70.0	69.2	70.8	74.2	77.5
157.5°	63.3	65.0	65.0	69.2	70.8	70.8	71.7	70.8	70.0	70.8	74.2
160°	65.8	67.5	67.5	70.0	72.5	72.5	73.3	72.5	71.7	70.8	70.8
162.5°	68.3	70.0	70.0	70.8	73.3	74.2	75.0	74.2	73.3	71.7	70.8
165°	70.8	72.5	72.5	72.5	74.2	75.0	75.8	75.0	75.0	73.3	72.5
167.5°	73.3	75.0	75.0	74.2	75.0	75.8	76.7	75.8	75.8	75.0	73.3
170°	75.8	77.5	77.5	75.8	76.7	76.7	77.5	76.7	76.7	75.0	74.2
172.5°	77.5	79.2	78.3	77.5	77.5	77.5	77.5	76.7	75.8	74.2	74.2
175°	78.3	80.0	80.0	78.3	77.5	77.5	78.3	76.7	75.8	75.0	73.3
177.5°	78.3	80.0	80.0	78.3	78.3	77.5	78.3	77.5	77.5	75.8	74.2
180°	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3



TEST NUMBER: P895003
 CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L940

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	912.6	912.6	912.6	912.6	912.6	912.6	912.6	912.6	912.6	912.6
2.5°	909.2	908.4	903.4	909.2	909.2	907.6	914.3	913.4	912.6	910.9
5°	905.9	905.1	900.1	905.9	905.9	905.1	911.7	912.6	913.4	911.7
7.5°	900.9	900.1	895.1	900.9	900.9	900.1	907.6	908.4	909.2	906.7
10°	893.4	892.6	887.6	893.4	894.2	893.4	899.2	900.1	901.7	898.4
12.5°	883.4	883.4	878.4	884.2	885.1	884.2	890.1	891.7	893.4	889.2
15°	870.9	871.7	867.6	873.4	874.2	874.2	880.1	880.9	883.4	877.6
17.5°	855.9	857.6	854.2	860.1	860.9	861.7	865.1	867.6	870.1	863.4
20°	840.1	840.9	838.4	843.4	845.1	844.2	848.4	851.7	854.2	847.6
22.5°	820.9	821.7	819.2	824.2	825.9	826.7	830.1	834.2	835.9	830.1
25°	799.2	802.6	800.9	805.9	807.6	807.6	810.9	815.1	817.6	809.2
27.5°	778.4	782.6	780.9	785.9	787.6	788.4	790.1	795.1	797.6	790.1
30°	755.1	760.1	759.2	764.2	765.9	765.1	768.4	773.4	776.7	768.4
32.5°	729.2	735.9	735.1	741.7	743.4	744.2	746.7	753.4	756.7	749.2
35°	704.2	711.7	712.6	720.1	722.6	723.4	726.7	733.4	736.7	729.2
37.5°	678.4	688.4	690.9	698.4	700.9	701.7	705.1	712.6	715.9	708.4
40°	653.4	665.1	668.4	675.1	677.6	680.1	682.6	690.1	694.2	686.7
42.5°	628.4	640.9	645.1	651.7	654.2	656.7	660.1	668.4	671.7	665.1
45°	602.6	615.9	620.9	627.6	630.9	633.4	636.7	644.2	648.4	641.7
47.5°	576.7	590.1	595.1	602.6	605.9	609.2	611.7	620.9	625.1	618.4
50°	549.2	564.2	570.1	576.7	581.7	584.2	587.6	595.9	600.1	594.2
52.5°	521.7	537.5	544.2	550.9	555.9	560.1	561.7	570.9	575.1	569.2
55°	493.4	509.2	516.7	524.2	529.2	534.2	535.9	545.0	549.2	540.9
57.5°	465.0	481.7	489.2	497.5	501.7	507.5	510.0	518.4	522.5	516.7
60°	436.7	452.5	461.7	469.2	475.0	480.0	481.7	490.9	495.0	487.5
62.5°	407.5	424.2	433.4	441.7	446.7	452.5	455.0	463.4	466.7	459.2
65°	377.5	394.2	404.2	411.7	418.4	423.4	425.0	434.2	437.5	430.0
67.5°	347.5	364.2	375.0	383.4	389.2	395.0	396.7	405.9	409.2	403.4
70°	318.4	335.0	345.9	355.9	360.0	365.9	368.4	376.7	380.0	375.0
72.5°	289.2	305.9	317.5	327.5	331.7	337.5	340.9	347.5	352.5	348.4
75°	260.9	277.5	289.2	299.2	303.4	309.2	312.5	319.2	322.5	319.2
77.5°	233.4	250.0	260.9	270.9	275.9	280.9	284.2	290.9	295.0	291.7
80°	206.7	223.4	234.2	243.4	248.4	253.4	256.7	264.2	267.5	265.0
82.5°	181.7	197.5	209.2	218.4	223.4	228.4	231.7	238.4	242.5	239.2
85°	159.2	175.0	185.9	195.0	199.2	204.2	207.5	214.2	217.5	215.9
87.5°	137.5	151.7	164.2	173.3	177.5	182.5	186.7	191.7	195.9	193.4
90°	120.8	133.3	145.0	154.2	159.2	164.2	169.2	174.2	177.5	175.8
92.5°	121.7	133.3	144.2	152.5	157.5	162.5	167.5	173.3	175.8	174.2
95°	121.7	133.3	144.2	152.5	157.5	162.5	167.5	173.3	175.8	174.2
97.5°	121.7	133.3	144.2	152.5	157.5	162.5	167.5	173.3	175.8	173.3
100°	121.7	133.3	144.2	152.5	157.5	161.7	166.7	172.5	175.0	173.3
102.5°	121.7	133.3	143.3	151.7	156.7	160.8	165.8	171.7	174.2	172.5
105°	121.7	132.5	143.3	150.8	155.8	160.0	165.0	170.0	172.5	170.8
107.5°	120.8	131.7	141.7	150.0	154.2	158.3	163.3	168.3	170.8	169.2
110°	120.8	130.8	140.8	148.3	152.5	156.7	161.7	166.7	169.2	167.5



TEST NUMBER: P895003
 CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L940

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	120.0	130.0	140.0	146.7	150.8	155.0	159.2	165.0	167.5	165.8
115°	119.2	129.2	138.3	145.0	149.2	152.5	157.5	163.3	165.0	164.2
117.5°	118.3	127.5	136.7	143.3	147.5	150.8	155.0	160.0	162.5	161.7
120°	117.5	125.8	135.0	140.8	145.0	148.3	151.7	156.7	159.2	157.5
122.5°	115.8	124.2	133.3	139.2	142.5	145.8	149.2	153.3	155.8	155.0
125°	114.2	122.5	130.8	136.7	140.0	142.5	145.8	150.0	151.7	150.8
127.5°	112.5	120.8	128.3	133.3	137.5	140.0	142.5	146.7	148.3	147.5
130°	110.8	118.3	125.8	130.8	134.2	136.7	139.2	143.3	144.2	144.2
132.5°	109.2	115.8	123.3	128.3	131.7	133.3	135.8	139.2	140.8	140.0
135°	107.5	113.3	120.8	125.0	127.5	130.0	132.5	135.8	136.7	136.7
137.5°	105.0	110.8	117.5	121.7	124.2	125.8	128.3	131.7	132.5	132.5
140°	102.5	108.3	114.2	117.5	120.8	122.5	124.2	127.5	128.3	128.3
142.5°	100.0	105.0	110.8	114.2	117.5	118.3	120.8	123.3	124.2	124.2
145°	96.7	102.5	107.5	110.8	113.3	114.2	116.7	119.2	119.2	120.0
147.5°	92.5	97.5	104.2	106.7	109.2	110.0	112.5	114.2	115.0	115.0
150°	88.3	93.3	99.2	103.3	105.8	106.7	107.5	110.0	110.0	110.8
152.5°	84.2	88.3	94.2	98.3	101.7	102.5	103.3	105.0	105.0	105.8
155°	80.0	83.3	88.3	92.5	95.8	97.5	99.2	100.8	100.8	101.7
157.5°	76.7	80.0	84.2	87.5	90.0	92.5	95.0	96.7	96.7	96.7
160°	72.5	75.0	79.2	81.7	85.0	86.7	90.8	92.5	92.5	93.3
162.5°	70.0	70.8	73.3	75.8	78.3	80.0	84.2	88.3	88.3	89.2
165°	70.8	70.0	70.8	71.7	73.3	74.2	76.7	82.5	84.2	85.0
167.5°	72.5	70.0	70.0	70.0	71.7	71.7	74.2	77.5	83.3	81.7
170°	72.5	70.0	68.3	68.3	69.2	68.3	70.0	72.5	75.8	79.2
172.5°	73.3	70.8	68.3	65.0	65.8	65.0	63.3	63.3	64.2	75.0
175°	72.5	70.8	67.5	63.3	62.5	60.0	55.0	50.8	48.3	37.5
177.5°	71.7	69.2	66.7	63.3	61.7	59.2	53.3	46.7	40.0	38.3
180°	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3



TEST NUMBER: P895003
 CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L940

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	11.79	13.11	12.41	13.74	14.46	14.42	15.74	15.03	16.37	17.09
	3H	13.19	14.39	13.82	15.04	15.79	16.88	18.08	17.51	18.72	19.48
	4H	13.62	14.76	14.27	15.41	16.18	18.05	19.19	18.70	19.84	20.61
	6H	13.86	14.91	14.52	15.58	16.36	19.23	20.29	19.89	20.95	21.74
	8H	13.90	14.91	14.57	15.60	16.39	19.82	20.83	20.49	21.52	22.31
	12H	13.91	14.88	14.59	15.56	16.38	20.45	21.42	21.13	22.10	22.92
4H	2H	12.69	13.83	13.34	14.48	15.25	14.76	15.90	15.41	16.56	17.32
	3H	14.32	15.28	14.98	15.97	16.76	17.43	18.39	18.09	19.09	19.87
	4H	14.87	15.75	15.55	16.45	17.27	18.74	19.63	19.42	20.32	21.14
	6H	15.21	15.99	15.91	16.71	17.53	20.09	20.87	20.79	21.59	22.42
	8H	15.28	16.01	15.99	16.73	17.57	20.78	21.52	21.49	22.23	23.08
	12H	15.31	15.98	16.04	16.72	17.57	21.54	22.20	22.26	22.94	23.79
8H	4H	15.53	16.26	16.24	16.98	17.82	18.89	19.62	19.59	20.34	21.18
	6H	16.04	16.65	16.77	17.41	18.26	20.38	21.00	21.12	21.76	22.61
	8H	16.19	16.75	16.94	17.51	18.37	21.19	21.75	21.94	22.51	23.37
	12H	16.28	16.77	17.03	17.53	18.44	22.11	22.60	22.85	23.35	24.27
12H	4H	15.70	16.37	16.43	17.11	17.96	18.88	19.54	19.61	20.29	21.13
	6H	16.30	16.86	17.05	17.62	18.48	20.40	20.96	21.15	21.72	22.58
	8H	16.54	17.03	17.28	17.78	18.70	21.26	21.76	22.01	22.51	23.43