

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: P895004

Luminaire Tested: 8TMB-4SL-FLTU-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895004
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-L950
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with FLAT FROSTED LENS WITH UPLIGHT, 90CRI, 500
Light Source: -
Ballast/Driver: -

Summary

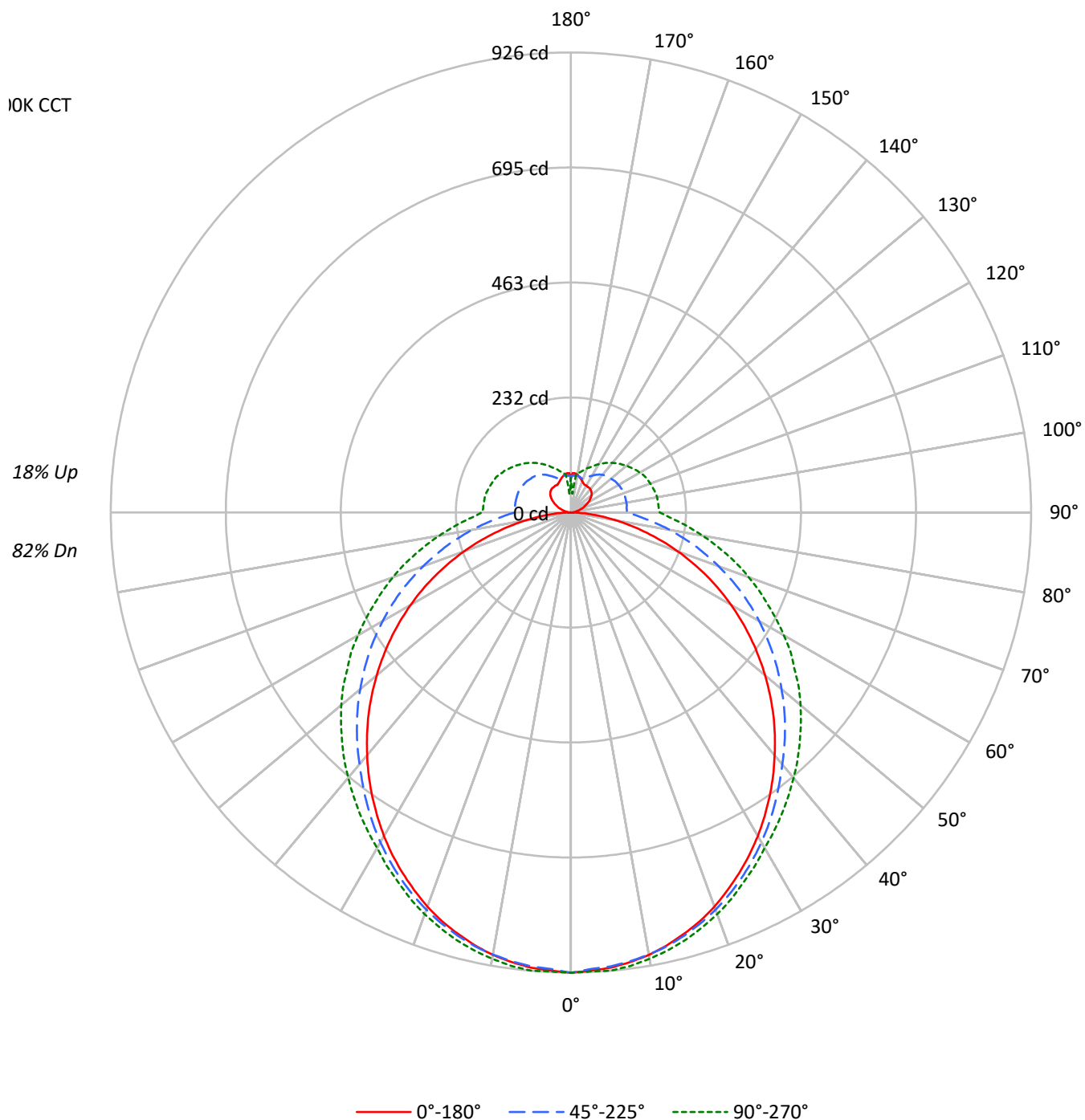
Lumens per Lamp: N/A
Luminaire Lumens: 3502.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 7.98' x H: 0.21')
CIE Type: Semi-Direct

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: P895004

CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L950

Luminous Intensity Polar Plot



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CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L950

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	115	115	115	115	110	110	110	110	101	101	101		93	93	93		86
1	103	98	93	89	99	94	90	86	86	83	80		79	77	74		73
2	93	85	77	71	89	81	75	69	75	69	65		69	64	61		63
3	85	74	65	59	81	71	63	57	65	59	54		60	55	51		55
4	77	65	56	49	74	63	54	48	58	51	45		53	48	43		49
5	71	58	49	42	68	56	47	41	52	45	39		48	42	37		44
6	66	52	43	37	62	50	42	36	47	39	34		43	37	32		40
7	61	47	38	32	58	45	37	31	42	35	30		39	33	29		37
8	56	43	34	29	54	41	33	28	39	32	27		36	30	26		34
9	53	39	31	26	50	38	30	25	35	29	24		33	27	23		31
10	49	36	28	23	47	35	28	23	33	26	22		31	25	21		29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3287	3287	3287
5°	3268	3154	3146
10°	3243	3038	2996
15°	3203	2920	2853
20°	3158	2800	2709
25°	3099	2673	2561
30°	3036	2544	2428
35°	2965	2414	2317
40°	2891	2285	2212
45°	2817	2174	2112
50°	2731	2058	2014
55°	2638	1945	1905
60°	2527	1823	1802
65°	2395	1694	1685
70°	2220	1552	1576
75°	1976	1406	1459
80°	1657	1251	1338
85°	1248	1093	1228

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2817 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	2.5
10°-20°	249.9	7.1
20°-30°	375.4	10.7
30°-40°	450.7	12.9
40°-50°	474.0	13.5
50°-60°	445.3	12.7
60°-70°	370.3	10.6
70°-80°	264.2	7.5
80°-90°	157.3	4.5
90°-100°	113.9	3.3
100°-110°	112.3	3.2
110°-120°	105.5	3.0
120°-130°	93.5	2.7
130°-140°	77.5	2.2
140°-150°	58.0	1.7
150°-160°	38.1	1.1
160°-170°	21.6	0.6
170°-180°	6.9	0.2
0°-30°	712.8	20.4
0°-40°	1163.5	33.2
0°-60°	2082.8	59.5
0°-90°	2874.6	82.1
90°-120°	331.7	9.5
90°-150°	560.7	16.0
90°-180°	627.0	17.9
0°-180°	3502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	920	931	917	920	926	87
15°	878	892	882	887	891	248
25°	801	816	812	820	821	369
35°	697	713	716	734	740	436
45°	576	592	609	640	651	444
55°	442	460	497	537	549	395
65°	301	326	377	425	436	298
75°	158	194	258	308	324	168
85°	40	87	151	202	219	43
90°	0	50	112	162	178	3
95°	4	52	112	160	177	5
105°	16	58	113	158	173	17
115°	31	63	112	151	167	31
125°	47	68	109	142	153	42
135°	58	71	103	129	139	45
145°	62	69	93	115	122	39
155°	63	70	79	97	103	29
165°	72	76	74	74	86	20
175°	80	79	74	63	38	7
180°	69	69	69	69	69	

TEST NUMBER: P895004

CATALOG NUMBER: 8TMB-4SL-FLTU-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	926.3	926.3	926.3	926.3	926.3	926.3	926.3	926.3	926.3	926.3	926.3
2.5°	923.0	925.5	926.3	934.8	931.4	934.8	928.9	922.1	920.4	924.6	919.6
5°	919.6	922.1	923.0	931.4	928.0	930.6	925.5	918.7	917.0	922.1	917.0
7.5°	912.8	915.3	916.2	925.5	921.3	924.6	918.7	912.0	911.1	916.2	911.1
10°	904.3	906.9	907.7	916.2	912.8	916.2	910.3	903.5	902.7	908.6	903.5
12.5°	892.5	895.0	896.7	905.2	901.0	905.2	898.4	891.7	892.5	897.6	894.2
15°	878.1	881.5	882.3	890.8	887.4	891.7	884.9	878.1	879.8	884.9	881.5
17.5°	862.9	866.3	867.1	874.7	871.4	876.4	868.8	862.9	864.6	869.7	867.1
20°	844.3	847.7	849.4	857.0	853.6	858.7	851.0	846.0	847.7	853.6	851.0
22.5°	823.1	828.2	829.1	837.5	833.3	838.4	830.7	826.5	829.1	835.0	832.4
25°	801.1	806.2	807.1	815.5	812.1	816.4	808.7	804.5	807.9	813.8	812.1
27.5°	777.4	782.5	784.2	791.8	788.4	793.5	785.1	782.5	785.9	791.8	790.1
30°	752.1	757.1	758.0	765.6	763.1	768.1	760.5	757.1	762.2	768.1	766.4
32.5°	725.0	730.1	732.6	739.4	736.8	741.1	734.3	732.6	736.8	742.8	741.9
35°	697.1	702.2	704.7	712.3	708.9	713.2	706.4	704.7	711.5	715.7	715.7
37.5°	668.3	673.4	675.9	683.5	679.3	684.4	677.6	676.8	684.4	688.6	688.6
40°	637.9	643.8	646.3	653.1	649.7	653.9	648.0	648.9	655.6	660.7	661.5
42.5°	607.4	613.3	615.9	623.5	619.3	623.5	618.4	619.3	626.9	631.9	636.2
45°	576.1	581.2	583.7	592.2	587.1	592.2	587.1	588.8	596.4	604.0	609.1
47.5°	543.1	548.2	552.4	559.2	555.0	559.2	555.8	558.3	567.6	575.3	582.0
50°	510.1	515.2	519.4	525.3	521.1	527.0	522.8	526.2	538.0	545.7	553.3
52.5°	476.3	480.5	487.3	490.7	487.3	494.0	490.7	495.7	507.6	516.9	525.3
55°	442.4	446.7	453.4	456.0	452.6	460.2	457.7	464.4	477.1	487.3	496.6
57.5°	407.8	412.0	417.9	420.4	417.9	426.4	425.5	433.1	445.8	456.8	467.0
60°	372.2	376.5	381.5	384.1	384.1	392.5	392.5	401.8	415.4	425.5	437.4
62.5°	337.5	340.1	345.2	348.5	351.1	359.5	359.5	369.7	384.1	395.9	407.8
65°	301.2	303.7	307.9	312.2	316.4	325.7	326.5	337.5	351.9	363.8	377.3
67.5°	264.8	267.3	271.6	276.6	282.6	291.9	293.6	305.4	320.6	334.2	346.8
70°	229.3	230.1	235.2	241.9	248.7	258.0	260.6	273.2	289.3	302.9	316.4
72.5°	193.7	194.6	199.6	208.1	215.7	225.9	229.3	242.8	258.9	272.4	285.9
75°	158.2	159.0	165.8	176.0	184.4	193.7	198.0	212.3	228.4	242.8	258.0
77.5°	124.4	126.0	132.8	143.0	153.1	164.1	168.3	182.7	200.5	214.0	228.4
80°	93.1	94.7	102.4	113.4	124.4	134.5	139.6	154.0	172.6	186.1	202.2
82.5°	64.3	66.8	76.1	88.0	99.0	110.0	115.1	128.6	145.5	160.7	176.0
85°	39.8	43.1	52.5	65.1	77.0	87.1	92.2	106.6	122.7	137.0	151.4
87.5°	18.6	23.7	33.0	45.7	58.4	66.8	72.8	87.1	102.4	116.7	131.1
90°	0.0	7.6	16.9	29.6	42.3	49.9	56.7	70.2	85.4	99.0	112.5
92.5°	1.7	8.5	18.6	30.5	43.1	50.8	57.5	71.1	85.4	99.0	112.5
95°	4.2	9.3	19.5	32.1	44.8	52.5	58.4	71.9	86.3	99.8	112.5
97.5°	7.6	11.8	22.0	33.8	46.5	53.3	60.1	73.6	87.1	100.7	113.4
100°	10.2	13.5	23.7	35.5	48.2	55.0	61.8	74.4	88.0	101.5	113.4
102.5°	12.7	16.9	26.2	37.2	49.9	56.7	62.6	75.3	88.8	101.5	113.4
105°	16.1	19.5	27.9	39.8	51.6	58.4	64.3	77.0	89.7	102.4	113.4
107.5°	19.5	22.0	30.5	41.5	53.3	59.2	65.1	77.8	90.5	102.4	113.4
110°	23.7	25.4	33.0	43.1	54.1	60.9	66.8	78.7	90.5	102.4	113.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	27.9	27.9	35.5	44.8	55.8	61.8	67.7	79.5	91.4	102.4	113.4
115°	31.3	32.1	38.1	46.5	57.5	63.4	68.5	79.5	91.4	102.4	112.5
117.5°	35.5	35.5	41.5	48.2	58.4	64.3	70.2	80.4	91.4	101.5	111.7
120°	39.8	38.9	44.0	50.8	60.1	65.1	71.1	81.2	91.4	101.5	110.8
122.5°	44.0	42.3	45.7	52.5	60.9	66.8	71.1	81.2	91.4	100.7	110.0
125°	47.4	45.7	48.2	55.0	62.6	67.7	71.9	81.2	91.4	99.8	109.1
127.5°	50.8	49.1	51.6	56.7	63.4	67.7	72.8	81.2	91.4	99.0	107.4
130°	54.1	51.6	55.0	58.4	65.1	68.5	72.8	81.2	90.5	98.1	105.7
132.5°	56.7	54.1	57.5	60.1	66.0	69.4	73.6	81.2	89.7	97.3	104.9
135°	58.4	55.8	60.1	61.8	67.7	71.1	74.4	81.2	88.8	96.4	103.2
137.5°	60.1	56.7	61.8	63.4	68.5	71.9	74.4	80.4	88.0	94.7	101.5
140°	60.9	58.4	63.4	65.1	67.7	71.1	74.4	79.5	86.3	93.1	99.0
142.5°	61.8	58.4	64.3	66.0	67.7	70.2	73.6	77.8	84.6	90.5	96.4
145°	61.8	59.2	64.3	66.0	67.7	69.4	71.9	77.0	82.1	87.1	93.1
147.5°	61.8	60.1	65.1	66.8	68.5	68.5	70.2	75.3	79.5	84.6	89.7
150°	62.6	60.1	65.1	66.8	69.4	69.4	70.2	72.8	77.8	81.2	85.4
152.5°	61.8	60.9	64.3	67.7	69.4	70.2	70.2	71.1	75.3	78.7	82.1
155°	62.6	62.6	65.1	69.4	70.2	70.2	71.1	70.2	71.9	75.3	78.7
157.5°	64.3	66.0	66.0	70.2	71.9	71.9	72.8	71.9	71.1	71.9	75.3
160°	66.8	68.5	68.5	71.1	73.6	73.6	74.4	73.6	72.8	71.9	71.9
162.5°	69.4	71.1	71.1	71.9	74.4	75.3	76.1	75.3	74.4	72.8	71.9
165°	71.9	73.6	73.6	73.6	75.3	76.1	77.0	76.1	76.1	74.4	73.6
167.5°	74.4	76.1	76.1	75.3	76.1	77.0	77.8	77.0	77.0	76.1	74.4
170°	77.0	78.7	78.7	77.0	77.8	77.8	78.7	77.8	77.8	76.1	75.3
172.5°	78.7	80.4	79.5	78.7	78.7	78.7	78.7	77.8	77.0	75.3	75.3
175°	79.5	81.2	81.2	79.5	78.7	78.7	79.5	77.8	77.0	76.1	74.4
177.5°	79.5	81.2	81.2	79.5	79.5	78.7	79.5	78.7	78.7	77.0	75.3
180°	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	926.3	926.3	926.3	926.3	926.3	926.3	926.3	926.3	926.3	926.3
2.5°	923.0	922.1	917.0	923.0	923.0	921.3	928.0	927.2	926.3	924.6
5°	919.6	918.7	913.6	919.6	919.6	918.7	925.5	926.3	927.2	925.5
7.5°	914.5	913.6	908.6	914.5	914.5	913.6	921.3	922.1	923.0	920.4
10°	906.9	906.0	901.0	906.9	907.7	906.9	912.8	913.6	915.3	912.0
12.5°	896.7	896.7	891.7	897.6	898.4	897.6	903.5	905.2	906.9	902.7
15°	884.0	884.9	880.7	886.6	887.4	887.4	893.3	894.2	896.7	890.8
17.5°	868.8	870.5	867.1	873.0	873.9	874.7	878.1	880.7	883.2	876.4
20°	852.7	853.6	851.0	856.1	857.8	857.0	861.2	864.6	867.1	860.4
22.5°	833.3	834.1	831.6	836.7	838.4	839.2	842.6	846.8	848.5	842.6
25°	811.3	814.7	813.0	818.1	819.7	819.7	823.1	827.4	829.9	821.4
27.5°	790.1	794.4	792.7	797.8	799.4	800.3	802.0	807.1	809.6	802.0
30°	766.4	771.5	770.7	775.8	777.4	776.6	780.0	785.1	788.4	780.0
32.5°	740.2	747.0	746.1	752.9	754.6	755.5	758.0	764.8	768.1	760.5
35°	714.8	722.5	723.3	730.9	733.5	734.3	737.7	744.5	747.8	740.2
37.5°	688.6	698.8	701.3	708.9	711.5	712.3	715.7	723.3	726.7	719.1
40°	663.2	675.1	678.5	685.2	687.8	690.3	692.9	700.5	704.7	697.1
42.5°	637.9	650.6	654.8	661.5	664.1	666.6	670.0	678.5	681.9	675.1
45°	611.6	625.2	630.2	637.0	640.4	642.9	646.3	653.9	658.2	651.4
47.5°	585.4	598.9	604.0	611.6	615.0	618.4	620.9	630.2	634.5	627.7
50°	557.5	572.7	578.6	585.4	590.5	593.0	596.4	604.9	609.1	603.2
52.5°	529.6	545.7	552.4	559.2	564.3	568.5	570.2	579.5	583.7	577.8
55°	500.8	516.9	524.5	532.1	537.2	542.3	544.0	553.3	557.5	549.0
57.5°	472.1	489.0	496.6	505.0	509.3	515.2	517.7	526.2	530.4	524.5
60°	443.3	459.4	468.7	476.3	482.2	487.3	489.0	498.3	502.5	494.9
62.5°	413.7	430.6	439.9	448.4	453.4	459.4	461.9	470.4	473.7	466.1
65°	383.2	400.1	410.3	417.9	424.7	429.8	431.4	440.8	444.1	436.5
67.5°	352.8	369.7	380.7	389.1	395.1	401.0	402.7	412.0	415.4	409.4
70°	323.2	340.1	351.1	361.2	365.5	371.4	373.9	382.4	385.8	380.7
72.5°	293.6	310.5	322.3	332.5	336.7	342.6	346.0	352.8	357.8	353.6
75°	264.8	281.7	293.6	303.7	307.9	313.9	317.2	324.0	327.4	324.0
77.5°	236.9	253.8	264.8	274.9	280.0	285.1	288.5	295.2	299.5	296.1
80°	209.8	226.7	237.7	247.0	252.1	257.2	260.6	268.2	271.6	269.0
82.5°	184.4	200.5	212.3	221.6	226.7	231.8	235.2	241.9	246.2	242.8
85°	161.6	177.7	188.7	198.0	202.2	207.3	210.6	217.4	220.8	219.1
87.5°	139.6	154.0	166.7	176.0	180.2	185.3	189.5	194.6	198.8	196.3
90°	122.7	135.4	147.2	156.5	161.6	166.7	171.7	176.8	180.2	178.5
92.5°	123.5	135.4	146.4	154.8	159.9	165.0	170.0	176.0	178.5	176.8
95°	123.5	135.4	146.4	154.8	159.9	165.0	170.0	176.0	178.5	176.8
97.5°	123.5	135.4	146.4	154.8	159.9	165.0	170.0	176.0	178.5	176.0
100°	123.5	135.4	146.4	154.8	159.9	164.1	169.2	175.1	177.7	176.0
102.5°	123.5	135.4	145.5	154.0	159.0	163.3	168.3	174.3	176.8	175.1
105°	123.5	134.5	145.5	153.1	158.2	162.4	167.5	172.6	175.1	173.4
107.5°	122.7	133.7	143.8	152.3	156.5	160.7	165.8	170.9	173.4	171.7
110°	122.7	132.8	143.0	150.6	154.8	159.0	164.1	169.2	171.7	170.0

TEST NUMBER: P895004

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	121.8	132.0	142.1	148.9	153.1	157.4	161.6	167.5	170.0	168.3
115°	121.0	131.1	140.4	147.2	151.4	154.8	159.9	165.8	167.5	166.7
117.5°	120.1	129.4	138.7	145.5	149.7	153.1	157.4	162.4	165.0	164.1
120°	119.3	127.7	137.0	143.0	147.2	150.6	154.0	159.0	161.6	159.9
122.5°	117.6	126.0	135.4	141.3	144.7	148.0	151.4	155.7	158.2	157.4
125°	115.9	124.4	132.8	138.7	142.1	144.7	148.0	152.3	154.0	153.1
127.5°	114.2	122.7	130.3	135.4	139.6	142.1	144.7	148.9	150.6	149.7
130°	112.5	120.1	127.7	132.8	136.2	138.7	141.3	145.5	146.4	146.4
132.5°	110.8	117.6	125.2	130.3	133.7	135.4	137.9	141.3	143.0	142.1
135°	109.1	115.1	122.7	126.9	129.4	132.0	134.5	137.9	138.7	138.7
137.5°	106.6	112.5	119.3	123.5	126.0	127.7	130.3	133.7	134.5	134.5
140°	104.1	110.0	115.9	119.3	122.7	124.4	126.0	129.4	130.3	130.3
142.5°	101.5	106.6	112.5	115.9	119.3	120.1	122.7	125.2	126.0	126.0
145°	98.1	104.1	109.1	112.5	115.1	115.9	118.4	121.0	121.0	121.8
147.5°	93.9	99.0	105.7	108.3	110.8	111.7	114.2	115.9	116.7	116.7
150°	89.7	94.7	100.7	104.9	107.4	108.3	109.1	111.7	111.7	112.5
152.5°	85.4	89.7	95.6	99.8	103.2	104.1	104.9	106.6	106.6	107.4
155°	81.2	84.6	89.7	93.9	97.3	99.0	100.7	102.4	102.4	103.2
157.5°	77.8	81.2	85.4	88.8	91.4	93.9	96.4	98.1	98.1	98.1
160°	73.6	76.1	80.4	82.9	86.3	88.0	92.2	93.9	93.9	94.7
162.5°	71.1	71.9	74.4	77.0	79.5	81.2	85.4	89.7	89.7	90.5
165°	71.9	71.1	71.9	72.8	74.4	75.3	77.8	83.8	85.4	86.3
167.5°	73.6	71.1	71.1	71.1	72.8	72.8	75.3	78.7	84.6	82.9
170°	73.6	71.1	69.4	69.4	70.2	69.4	71.1	73.6	77.0	80.4
172.5°	74.4	71.9	69.4	66.0	66.8	66.0	64.3	64.3	65.1	76.1
175°	73.6	71.9	68.5	64.3	63.4	60.9	55.8	51.6	49.1	38.1
177.5°	72.8	70.2	67.7	64.3	62.6	60.1	54.1	47.4	40.6	38.9
180°	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4

TEST NUMBER: P895004

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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	11.84	13.16	12.46	13.79	14.52	14.47	15.79	15.09	16.42	17.15
	3H	13.25	14.45	13.87	15.09	15.84	16.93	18.13	17.56	18.77	19.53
	4H	13.67	14.81	14.32	15.47	16.23	18.10	19.24	18.75	19.89	20.66
	6H	13.91	14.97	14.57	15.63	16.42	19.28	20.34	19.94	21.00	21.79
	8H	13.95	14.96	14.62	15.65	16.44	19.87	20.88	20.55	21.57	22.36
	12H	13.96	14.93	14.64	15.61	16.43	20.51	21.48	21.19	22.16	22.97
4H	2H	12.74	13.88	13.39	14.54	15.31	14.82	15.95	15.47	16.61	17.38
	3H	14.37	15.33	15.03	16.03	16.81	17.48	18.44	18.14	19.14	19.93
	4H	14.92	15.81	15.60	16.50	17.32	18.79	19.68	19.47	20.38	21.19
	6H	15.26	16.04	15.96	16.76	17.59	20.15	20.92	20.84	21.65	22.47
	8H	15.33	16.07	16.04	16.78	17.63	20.84	21.57	21.54	22.29	23.13
	12H	15.36	16.03	16.09	16.77	17.62	21.59	22.25	22.31	22.99	23.84
8H	4H	15.58	16.32	16.29	17.03	17.87	18.94	19.67	19.65	20.39	21.23
	6H	16.09	16.71	16.82	17.47	18.31	20.44	21.05	21.17	21.81	22.66
	8H	16.24	16.80	16.99	17.56	18.42	21.25	21.80	21.99	22.56	23.42
	12H	16.33	16.83	17.08	17.58	18.50	22.16	22.65	22.91	23.40	24.32
12H	4H	15.75	16.42	16.48	17.16	18.01	18.93	19.60	19.66	20.34	21.19
	6H	16.35	16.91	17.10	17.67	18.53	20.45	21.01	21.20	21.77	22.63
	8H	16.59	17.08	17.34	17.83	18.75	21.31	21.81	22.06	22.56	23.48