

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: P1431875

Luminaire Tested: EHBR1-54-UNV-TASM-L840

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1431875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-54-UNV-TASM-L840
Description: Elevate Round Highbay at, 54000 lumens, 4000K 80CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

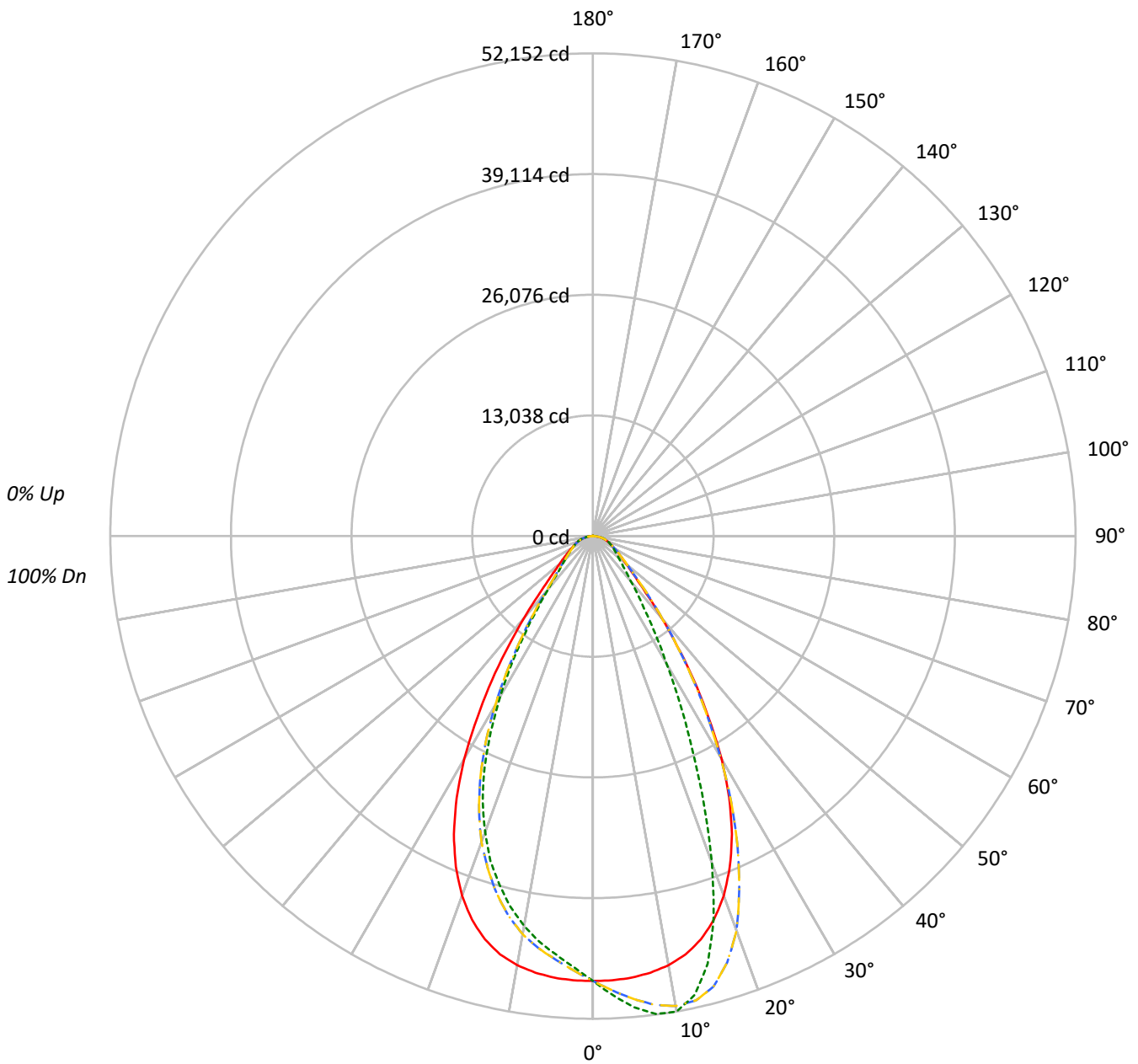
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53740.9 lumens
Efficiency: N/A
Efficacy: 181.6 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.84 / 0.9
Luminous Opening: Circular (Dia: 1.71' x H: 0')
CIE Type: Direct

Input Watts (W): 296
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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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			
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	92	90	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	83	81	
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	76	74	
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	69	67	
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	64	62	
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	59	57	
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	55	53	
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	51	49	
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	47	46	
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	45	43	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	225705	225705	225705	225705
5°	225794	240880	225794	214077
10°	224486	248690	224486	203939
15°	219326	232668	219326	189654
20°	206564	187877	206564	170114
25°	184183	131139	184183	143621
30°	150746	85998	150746	108317
35°	109069	56183	109069	72742
40°	71210	39105	71210	46326
45°	45693	30634	45693	33380
50°	34383	26377	34383	28174
55°	28527	24416	28527	25273
60°	25208	23735	25208	23879
65°	23604	23514	23604	23414
70°	23239	23932	23239	23623
75°	23058	24562	23058	23825
80°	22544	25811	22544	24128
85°	18988	23988	18988	22873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 64241 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4570.0	8.5
10°-20°	12433.0	23.1
20°-30°	14581.3	27.1
30°-40°	10140.4	18.9
40°-50°	5039.3	9.4
50°-60°	3014.0	5.6
60°-70°	2121.4	3.9
70°-80°	1366.5	2.5
80°-90°	434.0	0.8
90°-100°	2.5	0.0
100°-110°	3.0	0.0
110°-120°	3.1	0.0
120°-130°	3.9	0.0
130°-140°	5.3	0.0
140°-150°	6.3	0.0
150°-160°	7.1	0.0
160°-170°	6.9	0.0
170°-180°	3.0	0.0
0°-30°	31584.3	58.8
0°-40°	41724.6	77.6
0°-60°	49778.0	92.6
0°-90°	53700.0	99.9
90°-120°	8.6	0.0
90°-150°	24.1	0.0
90°-180°	41.0	0.1
0°-180°	53740.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	48062	48062	48062	48062	48062	
5°	47898	51099	47898	45413	47898	4546
15°	45113	47857	45113	39009	45113	12607
25°	35546	25309	35546	27718	35546	16093
35°	19025	9800	19025	12689	19025	11877
45°	6880	4613	6880	5026	6880	5630
55°	3484	2982	3484	3087	3484	3186
65°	2124	2116	2124	2107	2124	2133
75°	1271	1354	1271	1313	1271	1334
85°	352	445	352	424	352	392
90°	1	7	1	1	1	17
95°	2	7	2	1	2	1
105°	2	8	2	2	2	2
115°	3	8	3	2	3	2
125°	4	9	4	3	4	4
135°	7	10	7	4	7	6
145°	11	12	11	10	11	7
155°	14	16	14	17	14	7
165°	24	30	24	25	24	7
175°	32	39	32	31	32	3
180°	33	33	33	33	33	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3
2.5°	48034.4	48655.3	49158.2	49489.9	49653.9	49489.9	49158.2	48655.3	48034.4	47417.0	46992.5
5°	47898.3	49142.0	50195.6	50885.0	51098.6	50885.0	50195.6	49142.0	47898.3	46723.1	45943.5
7.5°	47572.9	49510.6	51076.1	51880.9	52077.4	51880.9	51076.1	49510.6	47572.9	45909.3	44924.2
10°	47076.4	49743.1	51551.9	52128.7	52152.2	52128.7	51551.9	49743.1	47076.4	44835.0	43673.3
12.5°	46284.2	49660.2	51392.4	51203.2	50773.3	51203.2	51392.4	49660.2	46284.2	43522.8	42057.3
15°	45112.6	49169.0	50382.1	48841.9	47856.8	48841.9	50382.1	49169.0	45112.6	41750.9	40051.2
17.5°	43461.5	48249.8	48273.2	45226.1	43367.8	45226.1	48273.2	48249.8	43461.5	39584.3	37712.5
20°	41333.7	46775.3	45369.4	39796.1	37594.4	39796.1	45369.4	46775.3	41333.7	37023.0	35186.3
22.5°	38666.0	44787.2	41325.5	34333.7	31329.9	34333.7	41325.5	44787.2	38666.0	34044.4	32132.9
25°	35545.9	42351.2	36975.2	28381.9	25308.7	28381.9	36975.2	42351.2	35545.9	30495.3	28766.7
27.5°	31876.0	39263.5	32342.9	23192.6	20357.2	23192.6	32342.9	39263.5	31876.0	26830.9	25065.3
30°	27799.7	35305.2	27522.1	18470.0	15859.2	18470.0	27522.1	35305.2	27799.7	22714.0	21133.2
32.5°	23235.8	31425.4	22892.4	14799.3	12587.6	14799.3	22892.4	31425.4	23235.8	18785.5	17133.5
35°	19025.2	26571.3	18717.9	11628.7	9800.1	11628.7	18717.9	26571.3	19025.2	15076.9	13454.6
37.5°	14930.9	21984.9	14921.0	9363.9	7949.0	9363.9	14921.0	21984.9	14930.9	11721.6	10404.8
40°	11616.1	17190.3	11690.9	7474.9	6379.0	7474.9	11690.9	17190.3	11616.1	8918.7	8076.0
42.5°	8801.5	13144.6	9189.1	6134.8	5418.3	6134.8	9189.1	13144.6	8801.5	7027.0	6396.1
45°	6880.1	9673.0	7175.7	5175.8	4612.6	5175.8	7175.7	9673.0	6880.1	5658.9	5235.3
47.5°	5603.0	7475.8	5815.7	4439.5	4044.8	4439.5	5815.7	7475.8	5603.0	4786.5	4469.3
50°	4706.3	5736.4	4828.9	3875.3	3610.4	3875.3	4828.9	5736.4	4706.3	4098.8	3887.1
52.5°	4043.0	4678.3	4112.4	3453.6	3275.1	3453.6	4112.4	4678.3	4043.0	3586.0	3454.5
55°	3484.2	3933.0	3576.1	3105.7	2982.2	3105.7	3576.1	3933.0	3484.2	3191.3	3094.0
57.5°	3059.7	3336.4	3105.7	2809.2	2727.2	2809.2	3105.7	3336.4	3059.7	2839.8	2787.5
60°	2683.9	2889.4	2740.7	2550.5	2527.1	2550.5	2740.7	2889.4	2683.9	2555.0	2520.8
62.5°	2394.6	2524.4	2423.4	2318.0	2297.3	2318.0	2423.4	2524.4	2394.6	2295.5	2301.8
65°	2124.2	2245.0	2165.7	2108.9	2116.1	2108.9	2165.7	2245.0	2124.2	2078.3	2088.2
67.5°	1915.1	1978.2	1944.0	1911.5	1919.6	1911.5	1944.0	1978.2	1915.1	1870.1	1885.4
70°	1692.5	1760.1	1725.0	1729.5	1743.0	1729.5	1725.0	1760.1	1692.5	1679.0	1690.7
72.5°	1479.8	1532.1	1520.4	1531.2	1545.6	1531.2	1520.4	1532.1	1479.8	1478.0	1478.9
75°	1270.8	1310.4	1315.8	1331.1	1353.7	1331.1	1315.8	1310.4	1270.8	1257.2	1273.5
77.5°	1042.7	1087.8	1104.9	1125.7	1159.0	1125.7	1104.9	1087.8	1042.7	1051.7	1059.9
80°	833.6	854.4	892.2	907.6	954.4	907.6	892.2	854.4	833.6	818.3	830.0
82.5°	610.1	629.1	661.5	690.4	717.4	690.4	661.5	629.1	610.1	602.9	603.8
85°	352.4	381.2	402.9	437.1	445.2	437.1	402.9	381.2	352.4	360.5	352.4
87.5°	123.5	132.5	151.4	164.9	165.8	164.9	151.4	132.5	123.5	126.2	114.5
90°	0.9	1.8	2.7	5.4	7.2	5.4	2.7	1.8	0.9	0.9	0.9
92.5°	0.9	1.8	2.7	5.4	7.2	5.4	2.7	1.8	0.9	0.9	0.9
95°	1.8	1.8	2.7	5.4	7.2	5.4	2.7	1.8	1.8	0.9	0.9
97.5°	1.8	1.8	2.7	5.4	7.2	5.4	2.7	1.8	1.8	0.9	0.9
100°	1.8	1.8	2.7	5.4	7.2	5.4	2.7	1.8	1.8	1.8	0.9
102.5°	1.8	2.7	3.6	6.3	7.2	6.3	3.6	2.7	1.8	1.8	0.9
105°	1.8	2.7	3.6	6.3	8.1	6.3	3.6	2.7	1.8	1.8	0.9
107.5°	1.8	2.7	3.6	6.3	8.1	6.3	3.6	2.7	1.8	1.8	1.8
110°	1.8	2.7	3.6	6.3	8.1	6.3	3.6	2.7	1.8	1.8	1.8



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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°	1.8	2.7	3.6	6.3	8.1	6.3	3.6	2.7	1.8	1.8	1.8
115°	2.7	2.7	3.6	6.3	8.1	6.3	3.6	2.7	2.7	1.8	1.8
117.5°	2.7	2.7	3.6	6.3	8.1	6.3	3.6	2.7	2.7	2.7	1.8
120°	2.7	2.7	4.5	6.3	8.1	6.3	4.5	2.7	2.7	2.7	1.8
122.5°	3.6	3.6	4.5	7.2	8.1	7.2	4.5	3.6	3.6	3.6	2.7
125°	3.6	3.6	5.4	7.2	9.0	7.2	5.4	3.6	3.6	4.5	3.6
127.5°	4.5	4.5	5.4	7.2	9.0	7.2	5.4	4.5	4.5	4.5	3.6
130°	5.4	4.5	5.4	8.1	9.0	8.1	5.4	4.5	5.4	5.4	4.5
132.5°	6.3	5.4	6.3	9.0	9.9	9.0	6.3	5.4	6.3	7.2	6.3
135°	7.2	5.4	7.2	8.1	9.9	8.1	7.2	5.4	7.2	8.1	6.3
137.5°	8.1	6.3	7.2	9.0	9.9	9.0	7.2	6.3	8.1	9.0	8.1
140°	9.0	7.2	7.2	9.0	10.8	9.0	7.2	7.2	9.0	9.0	9.0
142.5°	9.9	8.1	8.1	9.9	10.8	9.9	8.1	8.1	9.9	9.9	9.9
145°	10.8	9.9	9.0	9.9	11.7	9.9	9.0	9.9	10.8	9.9	10.8
147.5°	10.8	9.9	9.9	10.8	12.6	10.8	9.9	9.9	10.8	10.8	11.7
150°	11.7	11.7	10.8	11.7	13.5	11.7	10.8	11.7	11.7	11.7	12.6
152.5°	12.6	12.6	12.6	13.5	14.4	13.5	12.6	12.6	12.6	12.6	13.5
155°	14.4	14.4	14.4	15.3	16.2	15.3	14.4	14.4	14.4	13.5	15.3
157.5°	16.2	17.1	17.1	18.0	18.9	18.0	17.1	17.1	16.2	16.2	17.1
160°	19.8	19.8	20.7	21.6	22.5	21.6	20.7	19.8	19.8	18.9	19.8
162.5°	21.6	21.6	23.4	24.3	26.1	24.3	23.4	21.6	21.6	21.6	21.6
165°	24.3	24.3	26.1	27.9	29.7	27.9	26.1	24.3	24.3	23.4	23.4
167.5°	26.1	26.1	27.9	30.6	32.4	30.6	27.9	26.1	26.1	25.2	25.2
170°	27.0	27.9	29.7	32.4	34.2	32.4	29.7	27.9	27.0	27.0	26.1
172.5°	29.7	29.7	32.4	35.1	37.0	35.1	32.4	29.7	29.7	28.8	28.8
175°	31.5	32.4	34.2	37.0	38.8	37.0	34.2	32.4	31.5	30.6	30.6
177.5°	31.5	33.3	35.1	37.9	39.7	37.9	35.1	33.3	31.5	30.6	30.6
180°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3
2.5°	46666.3	46635.7	46666.3	46992.5	47417.0	48034.4
5°	45582.1	45412.7	45582.1	45943.5	46723.1	47898.3
7.5°	44319.5	44221.2	44319.5	44924.2	45909.3	47572.9
10°	42990.1	42767.5	42990.1	43673.3	44835.0	47076.4
12.5°	41351.7	41057.0	41351.7	42057.3	43522.8	46284.2
15°	39268.0	39009.3	39268.0	40051.2	41750.9	45112.6
17.5°	37032.0	36797.7	37032.0	37712.5	39584.3	43461.5
20°	34223.8	34039.9	34223.8	35186.3	37023.0	41333.7
22.5°	31277.6	31105.5	31277.6	32132.9	34044.4	38666.0
25°	27811.4	27717.7	27811.4	28766.7	30495.3	35545.9
27.5°	24065.9	23906.3	24065.9	25065.3	26830.9	31876.0
30°	20239.2	19975.1	20239.2	21133.2	22714.0	27799.7
32.5°	16496.3	16306.2	16496.3	17133.5	18785.5	23235.8
35°	12878.7	12688.6	12878.7	13454.6	15076.9	19025.2
37.5°	10035.3	9699.2	10035.3	10404.8	11721.6	14930.9
40°	7611.0	7556.9	7611.0	8076.0	8918.7	11616.1
42.5°	6196.0	6049.1	6196.0	6396.1	7027.0	8801.5
45°	5083.9	5026.2	5083.9	5235.3	5658.9	6880.1
47.5°	4371.9	4397.2	4371.9	4469.3	4786.5	5603.0
50°	3841.1	3856.4	3841.1	3887.1	4098.8	4706.3
52.5°	3450.0	3436.4	3450.0	3454.5	3586.0	4043.0
55°	3103.9	3086.8	3103.9	3094.0	3191.3	3484.2
57.5°	2801.1	2813.7	2801.1	2787.5	2839.8	3059.7
60°	2530.7	2542.4	2530.7	2520.8	2555.0	2683.9
62.5°	2302.7	2309.9	2302.7	2301.8	2295.5	2394.6
65°	2099.0	2107.1	2099.0	2088.2	2078.3	2124.2
67.5°	1904.3	1904.3	1904.3	1885.4	1870.1	1915.1
70°	1721.4	1720.5	1721.4	1690.7	1679.0	1692.5
72.5°	1501.5	1523.1	1501.5	1478.9	1478.0	1479.8
75°	1287.9	1313.1	1287.9	1273.5	1257.2	1270.8
77.5°	1071.6	1110.3	1071.6	1059.9	1051.7	1042.7
80°	849.9	892.2	849.9	830.0	818.3	833.6
82.5°	628.2	659.7	628.2	603.8	602.9	610.1
85°	374.0	424.5	374.0	352.4	360.5	352.4
87.5°	119.9	153.2	119.9	114.5	126.2	123.5
90°	0.9	0.9	0.9	0.9	0.9	0.9
92.5°	0.9	0.9	0.9	0.9	0.9	0.9
95°	0.9	0.9	0.9	0.9	0.9	1.8
97.5°	0.9	1.8	0.9	0.9	0.9	1.8
100°	0.9	1.8	0.9	0.9	1.8	1.8
102.5°	0.9	1.8	0.9	0.9	1.8	1.8
105°	0.9	1.8	0.9	0.9	1.8	1.8
107.5°	0.9	1.8	0.9	1.8	1.8	1.8
110°	0.9	1.8	0.9	1.8	1.8	1.8



TEST NUMBER: P1431875
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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.9	1.8	0.9	1.8	1.8	1.8
115°	0.9	1.8	0.9	1.8	1.8	2.7
117.5°	0.9	1.8	0.9	1.8	2.7	2.7
120°	0.9	1.8	0.9	1.8	2.7	2.7
122.5°	1.8	1.8	1.8	2.7	3.6	3.6
125°	1.8	2.7	1.8	3.6	4.5	3.6
127.5°	1.8	2.7	1.8	3.6	4.5	4.5
130°	2.7	2.7	2.7	4.5	5.4	5.4
132.5°	3.6	3.6	3.6	6.3	7.2	6.3
135°	4.5	3.6	4.5	6.3	8.1	7.2
137.5°	5.4	4.5	5.4	8.1	9.0	8.1
140°	7.2	6.3	7.2	9.0	9.0	9.0
142.5°	8.1	8.1	8.1	9.9	9.9	9.9
145°	9.9	9.9	9.9	10.8	9.9	10.8
147.5°	11.7	11.7	11.7	11.7	10.8	10.8
150°	13.5	13.5	13.5	12.6	11.7	11.7
152.5°	14.4	15.3	14.4	13.5	12.6	12.6
155°	16.2	17.1	16.2	15.3	13.5	14.4
157.5°	18.0	19.8	18.0	17.1	16.2	16.2
160°	20.7	21.6	20.7	19.8	18.9	19.8
162.5°	22.5	23.4	22.5	21.6	21.6	21.6
165°	24.3	25.2	24.3	23.4	23.4	24.3
167.5°	25.2	25.2	25.2	25.2	25.2	26.1
170°	26.1	27.0	26.1	26.1	27.0	27.0
172.5°	27.9	28.8	27.9	28.8	28.8	29.7
175°	29.7	30.6	29.7	30.6	30.6	31.5
177.5°	30.6	31.5	30.6	30.6	30.6	31.5
180°	33.3	33.3	33.3	33.3	33.3	33.3



TEST NUMBER: P1431875
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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	20.48	21.69	20.85	22.00	22.32	19.80	21.00	20.16	21.32	21.64
	3H	22.12	23.19	22.50	23.52	23.89	21.75	22.82	22.13	23.15	23.52
	4H	22.82	23.82	23.23	24.18	24.56	22.61	23.61	23.01	23.96	24.35
	6H	23.39	24.31	23.81	24.69	25.08	23.36	24.28	23.78	24.65	25.05
	8H	23.60	24.47	24.03	24.86	25.27	23.65	24.52	24.08	24.91	25.32
	12H	23.72	24.55	24.16	24.94	25.37	23.84	24.67	24.28	25.06	25.49
4H	2H	20.94	21.94	21.35	22.29	22.68	20.43	21.43	20.83	21.78	22.17
	3H	22.85	23.68	23.27	24.08	24.49	22.60	23.43	23.02	23.84	24.24
	4H	23.71	24.45	24.15	24.87	25.32	23.60	24.34	24.04	24.76	25.21
	6H	24.43	25.07	24.90	25.52	25.99	24.50	25.13	24.96	25.58	26.05
	8H	24.69	25.29	25.16	25.74	26.21	24.84	25.44	25.31	25.89	26.36
	12H	24.86	25.38	25.35	25.87	26.35	25.09	25.62	25.58	26.10	26.58
8H	4H	24.02	24.61	24.49	25.06	25.54	23.94	24.54	24.41	24.99	25.46
	6H	24.89	25.38	25.40	25.88	26.36	25.00	25.48	25.50	25.98	26.46
	8H	25.24	25.68	25.77	26.20	26.69	25.44	25.88	25.97	26.39	26.89
	12H	25.50	25.88	26.02	26.38	26.96	25.80	26.18	26.32	26.68	27.25
12H	4H	24.05	24.57	24.54	25.06	25.53	23.97	24.50	24.46	24.98	25.46
	6H	24.96	25.40	25.49	25.92	26.41	25.07	25.50	25.59	26.02	26.51
	8H	25.38	25.76	25.90	26.26	26.83	25.58	25.96	26.10	26.46	27.03