

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: P1431843

Luminaire Tested: EHBR1-48-UNV-TASM-L840

Issue Date: 3/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1431843  
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: EHBR1-48-UNV-TASM-L840  
Description: Elevate Round Highbay at, 48000 lumens, 4000K 80CRI LEDs with TASM lens  
Light Source: -  
Ballast/Driver: -

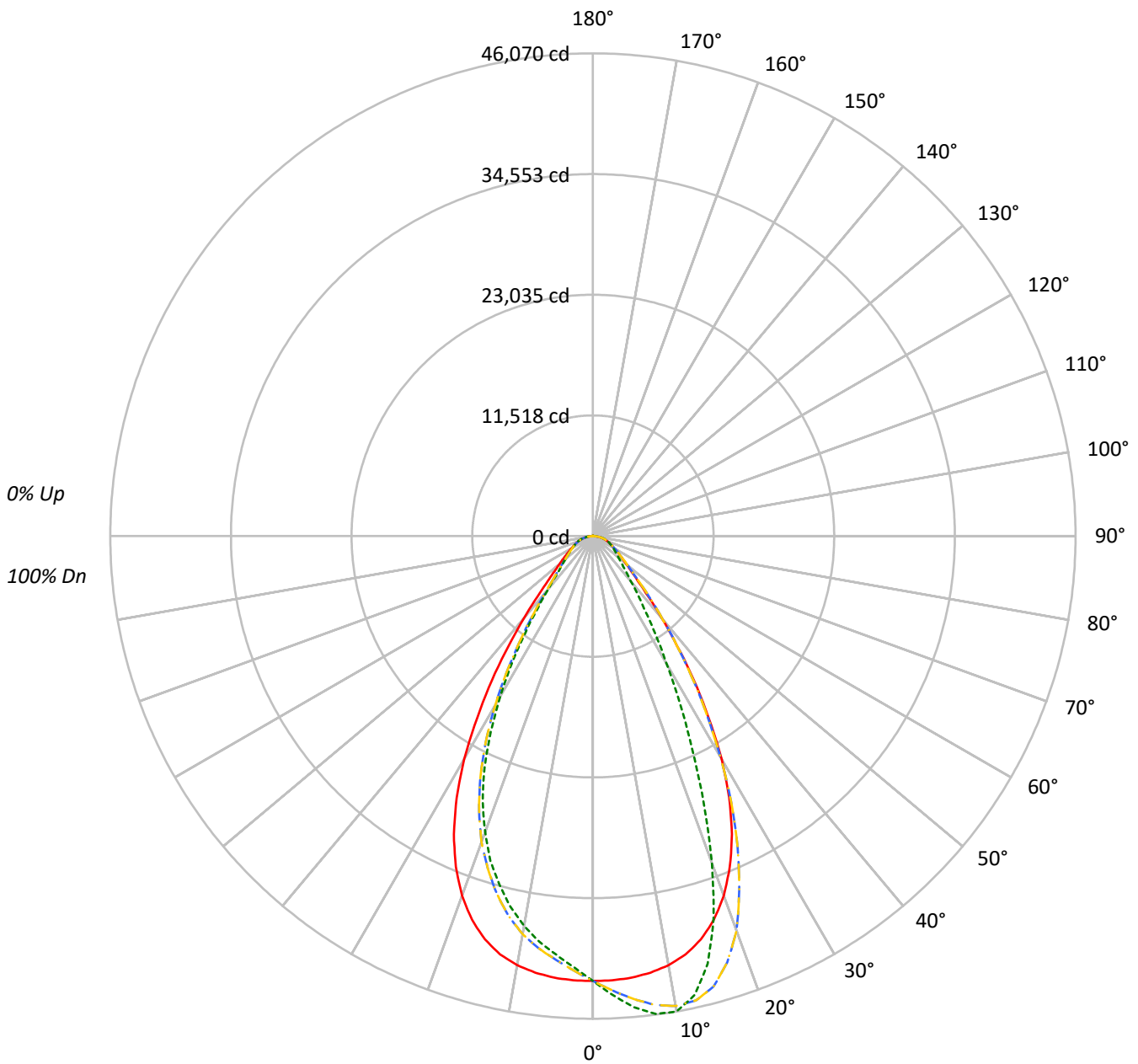
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47473.1 lumens  
Efficiency: N/A  
Efficacy: 183.6 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): 258.6  
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

TEST NUMBER: P1431843  
CATALOG NUMBER: EHBR1-48-UNV-TASM-L840

### 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	82	78	76	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	76	72	69	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	67	62	59	57
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	63	58	55	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	53	48	45	43

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	199380	199380	199380	199380
5°	199459	212786	199459	189108
10°	198303	219684	198303	180153
15°	193745	205531	193745	167534
20°	182472	165964	182472	150273
25°	162701	115843	162701	126870
30°	133164	75967	133164	95684
35°	96348	49630	96348	64258
40°	62905	34544	62905	40923
45°	40363	27061	40363	29487
50°	30373	23300	30373	24888
55°	25199	21569	25199	22325
60°	22268	20966	22268	21094
65°	20851	20771	20851	20683
70°	20528	21141	20528	20868
75°	20367	21697	20367	21047
80°	19915	22801	19915	21316
85°	16773	21192	16773	20206

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 56748 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4037.0	8.5
10°-20°	10982.9	23.1
20°-30°	12880.6	27.1
30°-40°	8957.7	18.9
40°-50°	4451.5	9.4
50°-60°	2662.5	5.6
60°-70°	1874.0	3.9
70°-80°	1207.2	2.5
80°-90°	383.4	0.8
90°-100°	2.2	0.0
100°-110°	2.7	0.0
110°-120°	2.7	0.0
120°-130°	3.5	0.0
130°-140°	4.7	0.0
140°-150°	5.6	0.0
150°-160°	6.2	0.0
160°-170°	6.1	0.0
170°-180°	2.6	0.0
0°-30°	27900.5	58.8
0°-40°	36858.2	77.6
0°-60°	43972.2	92.6
0°-90°	47436.7	99.9
90°-120°	7.6	0.0
90°-150°	21.4	0.0
90°-180°	36.0	0.1
0°-180°	47473.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	42457	42457	42457	42457	42457	
5°	42312	45139	42312	40116	42312	4015
15°	39851	42275	39851	34460	39851	11137
25°	31400	22357	31400	24485	31400	14216
35°	16806	8657	16806	11209	16806	10492
45°	6078	4075	6078	4440	6078	4973
55°	3078	2634	3078	2727	3078	2815
65°	1876	1869	1876	1861	1876	1885
75°	1122	1196	1122	1160	1122	1178
85°	311	393	311	375	311	346
90°	1	6	1	1	1	15
95°	2	6	2	1	2	1
105°	2	7	2	2	2	2
115°	2	7	2	2	2	2
125°	3	8	3	2	3	3
135°	6	9	6	3	6	5
145°	10	10	10	9	10	6
155°	13	14	13	15	13	6
165°	22	26	22	22	22	6
175°	28	34	28	27	28	3
180°	30	30	30	30	30	



TEST NUMBER: P1431843  
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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	42456.6	42456.6	42456.6	42456.6	42456.6	42456.6	42456.6	42456.6	42456.6	42456.6	42456.6
2.5°	42432.0	42980.5	43424.7	43717.7	43862.6	43717.7	43424.7	42980.5	42432.0	41886.6	41511.6
5°	42311.8	43410.4	44341.1	44950.1	45138.8	44950.1	44341.1	43410.4	42311.8	41273.6	40585.0
7.5°	42024.3	43736.0	45118.9	45829.8	46003.4	45829.8	45118.9	43736.0	42024.3	40554.7	39684.5
10°	41585.7	43941.4	45539.2	46048.8	46069.5	46048.8	45539.2	43941.4	41585.7	39605.7	38579.5
12.5°	40885.9	43868.2	45398.3	45231.1	44851.4	45231.1	45398.3	43868.2	40885.9	38446.6	37152.1
15°	39850.9	43434.3	44505.9	43145.3	42275.1	43145.3	44505.9	43434.3	39850.9	36881.4	35379.9
17.5°	38392.4	42622.2	42642.9	39951.2	38309.6	39951.2	42642.9	42622.2	38392.4	34967.5	33313.9
20°	36512.8	41319.8	40077.8	35154.6	33209.6	35154.6	40077.8	41319.8	36512.8	32704.9	31082.4
22.5°	34156.2	39563.5	36505.6	30329.2	27675.8	30329.2	36505.6	39563.5	34156.2	30073.7	28385.1
25°	31400.0	37411.6	32662.7	25071.6	22356.8	25071.6	32662.7	37411.6	31400.0	26938.5	25411.6
27.5°	28158.2	34684.1	28570.6	20487.5	17982.9	20487.5	28570.6	34684.1	28158.2	23701.5	22141.9
30°	24557.3	31187.5	24312.1	16315.8	14009.4	16315.8	24312.1	31187.5	24557.3	20064.8	18668.4
32.5°	20525.7	27760.1	20222.4	13073.2	11119.5	13073.2	20222.4	27760.1	20525.7	16594.5	15135.2
35°	16806.2	23472.2	16534.8	10272.4	8657.1	10272.4	16534.8	23472.2	16806.2	13318.4	11885.4
37.5°	13189.4	19420.7	13180.7	8271.8	7021.8	8271.8	13180.7	19420.7	13189.4	10354.4	9191.3
40°	10261.3	15185.3	10327.4	6603.1	5635.0	6603.1	10327.4	15185.3	10261.3	7878.5	7134.1
42.5°	7775.0	11611.5	8117.3	5419.2	4786.3	5419.2	8117.3	11611.5	7775.0	6207.4	5650.1
45°	6077.6	8544.8	6338.8	4572.2	4074.6	4572.2	6338.8	8544.8	6077.6	4998.9	4624.7
47.5°	4949.5	6603.9	5137.4	3921.7	3573.0	3921.7	5137.4	6603.9	4949.5	4228.2	3948.0
50°	4157.4	5067.3	4265.6	3423.3	3189.3	3423.3	4265.6	5067.3	4157.4	3620.8	3433.7
52.5°	3571.4	4132.7	3632.7	3050.8	2893.1	3050.8	3632.7	4132.7	3571.4	3167.8	3051.6
55°	3077.8	3474.3	3159.0	2743.5	2634.4	2743.5	3159.0	3474.3	3077.8	2819.1	2733.1
57.5°	2702.9	2947.3	2743.5	2481.5	2409.1	2481.5	2743.5	2947.3	2702.9	2508.6	2462.4
60°	2370.9	2552.4	2421.0	2253.0	2232.3	2253.0	2421.0	2552.4	2370.9	2257.0	2226.8
62.5°	2115.3	2230.0	2140.8	2047.6	2029.3	2047.6	2140.8	2230.0	2115.3	2027.7	2033.3
65°	1876.5	1983.2	1913.1	1862.9	1869.3	1862.9	1913.1	1983.2	1876.5	1835.9	1844.6
67.5°	1691.8	1747.5	1717.2	1688.6	1695.8	1688.6	1717.2	1747.5	1691.8	1652.0	1665.5
70°	1495.1	1554.8	1523.8	1527.8	1539.7	1527.8	1523.8	1554.8	1495.1	1483.2	1493.5
72.5°	1307.2	1353.4	1343.1	1352.6	1365.4	1352.6	1343.1	1353.4	1307.2	1305.6	1306.4
75°	1122.5	1157.6	1162.3	1175.9	1195.8	1175.9	1162.3	1157.6	1122.5	1110.6	1124.9
77.5°	921.1	960.9	976.1	994.4	1023.8	994.4	976.1	960.9	921.1	929.1	936.2
80°	736.4	754.7	788.2	801.7	843.1	801.7	788.2	754.7	736.4	722.9	733.2
82.5°	539.0	555.7	584.4	609.8	633.7	609.8	584.4	555.7	539.0	532.6	533.4
85°	311.3	336.8	355.9	386.1	393.3	386.1	355.9	336.8	311.3	318.5	311.3
87.5°	109.1	117.0	133.7	145.7	146.5	145.7	133.7	117.0	109.1	111.5	101.1
90°	0.8	1.6	2.4	4.8	6.4	4.8	2.4	1.6	0.8	0.8	0.8
92.5°	0.8	1.6	2.4	4.8	6.4	4.8	2.4	1.6	0.8	0.8	0.8
95°	1.6	1.6	2.4	4.8	6.4	4.8	2.4	1.6	1.6	0.8	0.8
97.5°	1.6	1.6	2.4	4.8	6.4	4.8	2.4	1.6	1.6	0.8	0.8
100°	1.6	1.6	2.4	4.8	6.4	4.8	2.4	1.6	1.6	1.6	0.8
102.5°	1.6	2.4	3.2	5.6	6.4	5.6	3.2	2.4	1.6	1.6	0.8
105°	1.6	2.4	3.2	5.6	7.2	5.6	3.2	2.4	1.6	1.6	0.8
107.5°	1.6	2.4	3.2	5.6	7.2	5.6	3.2	2.4	1.6	1.6	1.6
110°	1.6	2.4	3.2	5.6	7.2	5.6	3.2	2.4	1.6	1.6	1.6



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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°	1.6	2.4	3.2	5.6	7.2	5.6	3.2	2.4	1.6	1.6	1.6
115°	2.4	2.4	3.2	5.6	7.2	5.6	3.2	2.4	2.4	1.6	1.6
117.5°	2.4	2.4	3.2	5.6	7.2	5.6	3.2	2.4	2.4	2.4	1.6
120°	2.4	2.4	4.0	5.6	7.2	5.6	4.0	2.4	2.4	2.4	1.6
122.5°	3.2	3.2	4.0	6.4	7.2	6.4	4.0	3.2	3.2	3.2	2.4
125°	3.2	3.2	4.8	6.4	8.0	6.4	4.8	3.2	3.2	4.0	3.2
127.5°	4.0	4.0	4.8	6.4	8.0	6.4	4.8	4.0	4.0	4.0	3.2
130°	4.8	4.0	4.8	7.2	8.0	7.2	4.8	4.0	4.8	4.8	4.0
132.5°	5.6	4.8	5.6	8.0	8.8	8.0	5.6	4.8	5.6	6.4	5.6
135°	6.4	4.8	6.4	7.2	8.8	7.2	6.4	4.8	6.4	7.2	5.6
137.5°	7.2	5.6	6.4	8.0	8.8	8.0	6.4	5.6	7.2	8.0	7.2
140°	8.0	6.4	6.4	8.0	9.6	8.0	6.4	6.4	8.0	8.0	8.0
142.5°	8.8	7.2	7.2	8.8	9.6	8.8	7.2	7.2	8.8	8.8	8.8
145°	9.6	8.8	8.0	8.8	10.3	8.8	8.0	8.8	9.6	8.8	9.6
147.5°	9.6	8.8	8.8	9.6	11.1	9.6	8.8	8.8	9.6	9.6	10.3
150°	10.3	10.3	9.6	10.3	11.9	10.3	9.6	10.3	10.3	10.3	11.1
152.5°	11.1	11.1	11.1	11.9	12.7	11.9	11.1	11.1	11.1	11.1	11.9
155°	12.7	12.7	12.7	13.5	14.3	13.5	12.7	12.7	12.7	11.9	13.5
157.5°	14.3	15.1	15.1	15.9	16.7	15.9	15.1	15.1	14.3	14.3	15.1
160°	17.5	17.5	18.3	19.1	19.9	19.1	18.3	17.5	17.5	16.7	17.5
162.5°	19.1	19.1	20.7	21.5	23.1	21.5	20.7	19.1	19.1	19.1	19.1
165°	21.5	21.5	23.1	24.7	26.3	24.7	23.1	21.5	21.5	20.7	20.7
167.5°	23.1	23.1	24.7	27.1	28.7	27.1	24.7	23.1	23.1	22.3	22.3
170°	23.9	24.7	26.3	28.7	30.3	28.7	26.3	24.7	23.9	23.9	23.1
172.5°	26.3	26.3	28.7	31.0	32.6	31.0	28.7	26.3	26.3	25.5	25.5
175°	27.9	28.7	30.3	32.6	34.2	32.6	30.3	28.7	27.9	27.1	27.1
177.5°	27.9	29.5	31.0	33.4	35.0	33.4	31.0	29.5	27.9	27.1	27.1
180°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	42456.6	42456.6	42456.6	42456.6	42456.6	42456.6
2.5°	41223.4	41196.4	41223.4	41511.6	41886.6	42432.0
5°	40265.7	40116.0	40265.7	40585.0	41273.6	42311.8
7.5°	39150.3	39063.6	39150.3	39684.5	40554.7	42024.3
10°	37976.0	37779.4	37976.0	38579.5	39605.7	41585.7
12.5°	36528.7	36268.4	36528.7	37152.1	38446.6	40885.9
15°	34688.0	34459.6	34688.0	35379.9	36881.4	39850.9
17.5°	32712.9	32505.9	32712.9	33313.9	34967.5	38392.4
20°	30232.1	30069.7	30232.1	31082.4	32704.9	36512.8
22.5°	27629.6	27477.5	27629.6	28385.1	30073.7	34156.2
25°	24567.7	24484.9	24567.7	25411.6	26938.5	31400.0
27.5°	21259.0	21118.1	21259.0	22141.9	23701.5	28158.2
30°	17878.6	17645.4	17878.6	18668.4	20064.8	24557.3
32.5°	14572.3	14404.3	14572.3	15135.2	16594.5	20525.7
35°	11376.7	11208.7	11376.7	11885.4	13318.4	16806.2
37.5°	8864.9	8567.9	8864.9	9191.3	10354.4	13189.4
40°	6723.3	6675.5	6723.3	7134.1	7878.5	10261.3
42.5°	5473.4	5343.6	5473.4	5650.1	6207.4	7775.0
45°	4491.0	4440.0	4491.0	4624.7	4998.9	6077.6
47.5°	3862.0	3884.3	3862.0	3948.0	4228.2	4949.5
50°	3393.1	3406.6	3393.1	3433.7	3620.8	4157.4
52.5°	3047.6	3035.6	3047.6	3051.6	3167.8	3571.4
55°	2741.9	2726.7	2741.9	2733.1	2819.1	3077.8
57.5°	2474.4	2485.5	2474.4	2462.4	2508.6	2702.9
60°	2235.5	2245.9	2235.5	2226.8	2257.0	2370.9
62.5°	2034.1	2040.5	2034.1	2033.3	2027.7	2115.3
65°	1854.2	1861.3	1854.2	1844.6	1835.9	1876.5
67.5°	1682.2	1682.2	1682.2	1665.5	1652.0	1691.8
70°	1520.6	1519.8	1520.6	1493.5	1483.2	1495.1
72.5°	1326.3	1345.5	1326.3	1306.4	1305.6	1307.2
75°	1137.7	1160.0	1137.7	1124.9	1110.6	1122.5
77.5°	946.6	980.8	946.6	936.2	929.1	921.1
80°	750.7	788.2	750.7	733.2	722.9	736.4
82.5°	554.9	582.8	554.9	533.4	532.6	539.0
85°	330.4	375.0	330.4	311.3	318.5	311.3
87.5°	105.9	135.3	105.9	101.1	111.5	109.1
90°	0.8	0.8	0.8	0.8	0.8	0.8
92.5°	0.8	0.8	0.8	0.8	0.8	0.8
95°	0.8	0.8	0.8	0.8	0.8	1.6
97.5°	0.8	1.6	0.8	0.8	0.8	1.6
100°	0.8	1.6	0.8	0.8	1.6	1.6
102.5°	0.8	1.6	0.8	0.8	1.6	1.6
105°	0.8	1.6	0.8	0.8	1.6	1.6
107.5°	0.8	1.6	0.8	1.6	1.6	1.6
110°	0.8	1.6	0.8	1.6	1.6	1.6



TEST NUMBER: P1431843  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.8	1.6	0.8	1.6	1.6	1.6
115°	0.8	1.6	0.8	1.6	1.6	2.4
117.5°	0.8	1.6	0.8	1.6	2.4	2.4
120°	0.8	1.6	0.8	1.6	2.4	2.4
122.5°	1.6	1.6	1.6	2.4	3.2	3.2
125°	1.6	2.4	1.6	3.2	4.0	3.2
127.5°	1.6	2.4	1.6	3.2	4.0	4.0
130°	2.4	2.4	2.4	4.0	4.8	4.8
132.5°	3.2	3.2	3.2	5.6	6.4	5.6
135°	4.0	3.2	4.0	5.6	7.2	6.4
137.5°	4.8	4.0	4.8	7.2	8.0	7.2
140°	6.4	5.6	6.4	8.0	8.0	8.0
142.5°	7.2	7.2	7.2	8.8	8.8	8.8
145°	8.8	8.8	8.8	9.6	8.8	9.6
147.5°	10.3	10.3	10.3	10.3	9.6	9.6
150°	11.9	11.9	11.9	11.1	10.3	10.3
152.5°	12.7	13.5	12.7	11.9	11.1	11.1
155°	14.3	15.1	14.3	13.5	11.9	12.7
157.5°	15.9	17.5	15.9	15.1	14.3	14.3
160°	18.3	19.1	18.3	17.5	16.7	17.5
162.5°	19.9	20.7	19.9	19.1	19.1	19.1
165°	21.5	22.3	21.5	20.7	20.7	21.5
167.5°	22.3	22.3	22.3	22.3	22.3	23.1
170°	23.1	23.9	23.1	23.1	23.9	23.9
172.5°	24.7	25.5	24.7	25.5	25.5	26.3
175°	26.3	27.1	26.3	27.1	27.1	27.9
177.5°	27.1	27.9	27.1	27.1	27.1	27.9
180°	29.5	29.5	29.5	29.5	29.5	29.5



TEST NUMBER: P1431843  
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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	20.05	21.26	20.41	21.57	21.89	19.37	20.57	19.73	20.89	21.21
	3H	21.69	22.76	22.07	23.09	23.46	21.32	22.39	21.70	22.72	23.09
	4H	22.39	23.39	22.80	23.75	24.13	22.18	23.18	22.58	23.53	23.92
	6H	22.96	23.88	23.38	24.26	24.65	22.93	23.85	23.35	24.22	24.62
	8H	23.17	24.04	23.60	24.43	24.84	23.22	24.09	23.65	24.48	24.89
	12H	23.29	24.12	23.72	24.51	24.94	23.41	24.24	23.85	24.63	25.06
4H	2H	20.51	21.51	20.92	21.86	22.25	20.00	21.00	20.40	21.35	21.74
	3H	22.42	23.25	22.84	23.65	24.06	22.17	23.00	22.59	23.41	23.81
	4H	23.28	24.02	23.72	24.44	24.89	23.17	23.91	23.61	24.33	24.78
	6H	24.00	24.64	24.47	25.09	25.56	24.07	24.70	24.53	25.15	25.62
	8H	24.26	24.86	24.73	25.30	25.78	24.41	25.01	24.88	25.46	25.93
	12H	24.43	24.95	24.92	25.44	25.92	24.66	25.18	25.15	25.67	26.15
8H	4H	23.59	24.18	24.06	24.63	25.11	23.51	24.11	23.98	24.56	25.03
	6H	24.46	24.95	24.97	25.45	25.93	24.56	25.05	25.07	25.55	26.03
	8H	24.81	25.25	25.34	25.76	26.26	25.01	25.44	25.54	25.96	26.46
	12H	25.07	25.45	25.59	25.95	26.52	25.37	25.75	25.89	26.24	26.82
12H	4H	23.62	24.14	24.10	24.63	25.10	23.54	24.07	24.03	24.55	25.03
	6H	24.53	24.97	25.06	25.48	25.98	24.64	25.07	25.16	25.59	26.08
	8H	24.95	25.33	25.47	25.82	26.40	25.15	25.53	25.67	26.03	26.60