

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:

Luminaire Tested: EHBR1-48-UNV-TASM-L840-UPL24

Issue Date: 3/20/2026

**Test Information**

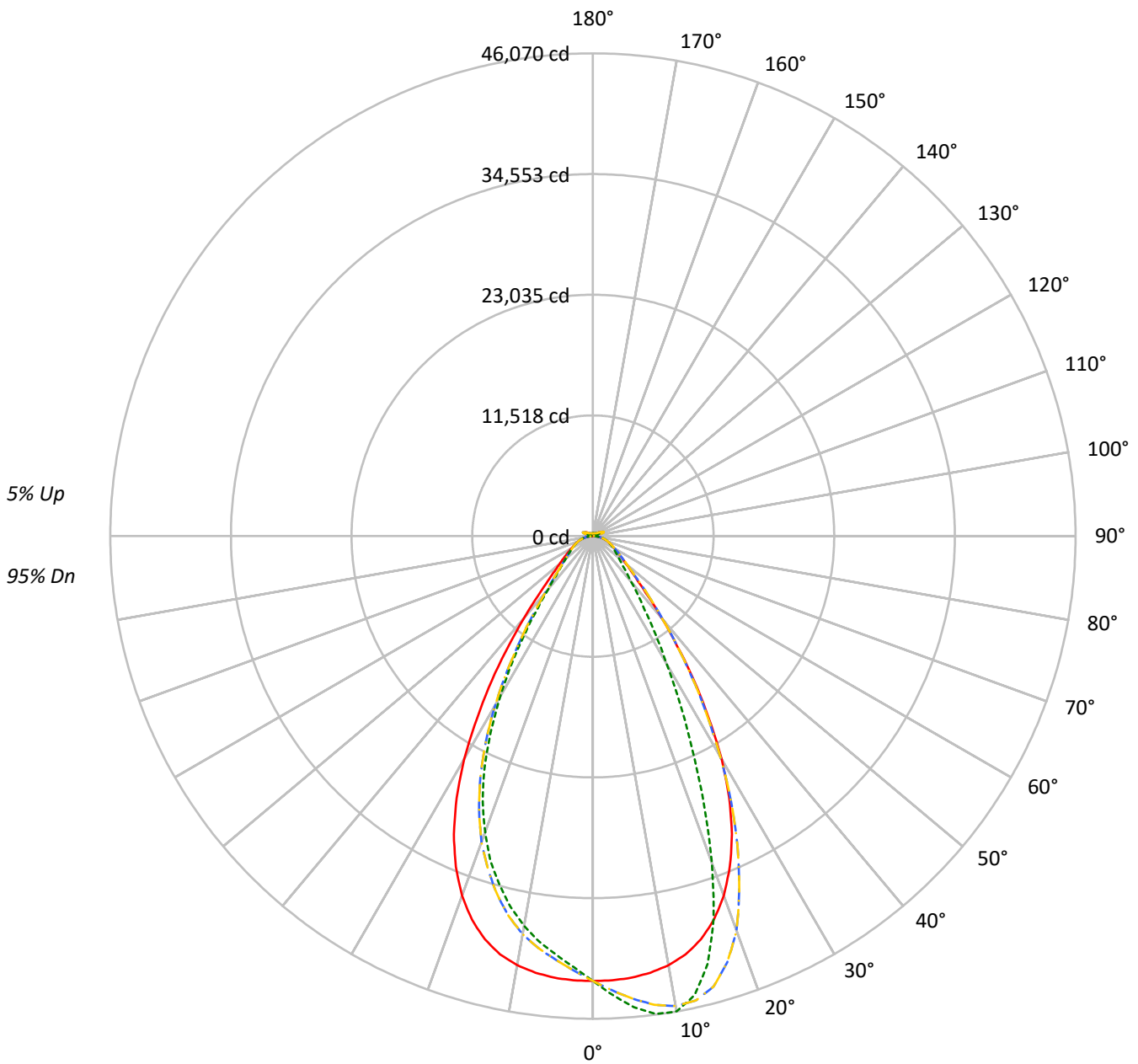
Test Method: LM-79-2019  
Report Number: REPORT IS A COMBINATION OF REPORTS P1431839 AND P1431635  
Test Lab: INNOVATION CENTER  
Issue Date: 3/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: EHBR1-48-UNV-TASM-L840-UPL24  
Description: Elevate Round Highbay at, 48000 lumens, 4000K 80CRI LEDs with TASM lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49906.1 lumens  
Efficiency: N/A  
Efficacy: 181.4 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.84 / 0.9  
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 275.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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:  
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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	0
RCR																					
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	98	98	98	95
1	111	107	104	101	108	105	102	99	100	97	95	95	93	92	91	89	88	88	88	88	86
2	104	98	93	89	101	96	91	87	91	88	85	88	85	82	84	82	80	84	82	80	77
3	97	90	84	79	95	88	82	78	84	80	76	81	77	74	78	75	72	78	75	72	70
4	91	82	76	71	89	81	75	70	78	73	69	75	71	67	73	69	66	73	69	66	64
5	86	76	69	64	84	75	69	64	72	67	63	70	65	62	68	64	61	68	64	61	59
6	81	71	64	59	79	70	63	59	68	62	58	66	61	57	64	59	56	64	59	56	54
7	77	66	59	54	75	65	59	54	63	57	53	62	56	53	60	55	52	60	55	52	50
8	72	62	55	50	71	61	54	50	59	54	49	58	53	49	56	52	48	56	52	48	47
9	69	58	51	47	67	57	51	47	56	50	46	54	49	46	53	49	45	53	49	45	44
10	65	54	48	44	64	54	48	44	53	47	43	51	46	43	50	46	42	50	46	42	41

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

	0°	90°	180°	270°
0°	199380	199380	199380	199380
5°	198167	211407	198167	187883
10°	195731	216835	195731	177816
15°	189952	201507	189952	164254
20°	177653	161581	177653	146304
25°	157237	111952	157237	122609
30°	127670	72833	127670	91736
35°	91569	47168	91569	61071
40°	59203	32511	59203	38514
45°	37563	25184	37563	27442
50°	27895	21400	27895	22858
55°	22775	19494	22775	20177
60°	19722	18569	19722	18682
65°	17978	17909	17978	17832
70°	17039	17548	17039	17321
75°	15935	16975	15935	16467
80°	13998	16026	13998	14983
85°	9057	11443	9057	10911

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 52812 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4037.0	8.1
10°-20°	10982.9	22.0
20°-30°	12880.6	25.8
30°-40°	8957.7	17.9
40°-50°	4451.5	8.9
50°-60°	2662.5	5.3
60°-70°	1874.0	3.8
70°-80°	1207.2	2.4
80°-90°	387.7	0.8
90°-100°	66.3	0.1
100°-110°	426.8	0.9
110°-120°	787.3	1.6
120°-130°	468.9	0.9
130°-140°	284.8	0.6
140°-150°	198.2	0.4
150°-160°	130.7	0.3
160°-170°	76.3	0.2
170°-180°	25.7	0.1
0°-30°	27900.5	55.9
0°-40°	36858.2	73.9
0°-60°	43972.2	88.1
0°-90°	47441.1	95.1
90°-120°	1280.4	2.6
90°-150°	2232.4	4.5
90°-180°	2465.0	4.9
0°-180°	49906.1	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°	18	24	18	18	18	23
95°	35	36	35	30	35	37
105°	196	103	196	149	196	264
115°	838	718	838	680	838	763
125°	537	565	537	492	537	495
135°	342	395	342	360	342	271
145°	311	325	311	302	311	195
155°	279	291	279	272	279	130
165°	268	278	268	263	268	76
175°	270	278	270	265	270	26
180°	270	270	270	270	270	



TEST NUMBER:

CATALOG NUMBER: EHBR1-48-UNV-TASM-L840-UPL24

**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°	18.4	31.3	53.8	31.8	24.0	31.8	53.8	31.3	18.4	31.9	49.5
92.5°	23.8	42.1	75.4	41.3	30.7	41.3	75.4	42.1	23.8	41.3	79.2
95°	35.4	51.6	95.7	45.3	36.1	45.3	95.7	51.6	35.4	54.9	110.3
97.5°	54.3	63.8	107.8	48.1	42.9	48.1	107.8	63.8	54.3	67.0	126.5
100°	71.9	71.9	195.7	54.8	48.3	54.8	195.7	71.9	71.9	82.7	196.8
102.5°	108.4	140.3	451.9	107.0	57.8	107.0	451.9	140.3	108.4	154.3	417.1
105°	196.2	318.7	793.9	270.5	103.2	270.5	793.9	318.7	196.2	321.9	742.8
107.5°	370.6	593.0	1022.3	530.0	234.3	530.0	1022.3	593.0	370.6	569.3	980.1
110°	592.2	828.2	1115.5	724.6	469.4	724.6	1115.5	828.2	592.2	781.5	1027.4



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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°	770.6	922.8	1089.9	803.0	647.8	803.0	1089.9	922.8	770.6	862.5	984.2
115°	837.7	909.3	973.6	800.3	718.1	800.3	973.6	909.3	837.7	842.3	878.8
117.5°	809.3	832.3	841.2	751.7	722.2	751.7	841.2	832.3	809.3	757.9	746.3
120°	730.9	721.4	709.5	680.0	681.6	680.0	709.5	721.4	730.9	662.0	623.3
122.5°	633.0	612.8	600.0	607.8	626.2	607.8	600.0	612.8	633.0	564.1	534.9
125°	537.1	516.8	523.8	545.7	564.8	545.7	523.8	516.8	537.1	479.8	472.2
127.5°	456.8	447.3	468.4	493.0	509.4	493.0	468.4	447.3	456.8	420.3	427.6
130°	399.5	401.4	429.2	450.5	460.8	450.5	429.2	401.4	399.5	381.9	400.0
132.5°	363.8	373.8	400.3	418.9	425.1	418.9	400.3	373.8	363.8	359.2	381.3
135°	341.6	356.2	380.8	392.4	395.3	392.4	380.8	356.2	341.6	343.7	363.8
137.5°	328.9	343.5	361.9	371.6	369.7	371.6	361.9	343.5	328.9	333.7	349.1
140°	321.6	336.2	344.3	355.4	354.2	355.4	344.3	336.2	321.6	324.3	336.4
142.5°	314.3	327.5	331.6	339.9	338.0	339.9	331.6	327.5	314.3	317.0	325.1
145°	311.0	321.0	317.5	327.8	325.2	327.8	317.5	321.0	311.0	311.6	316.4
147.5°	304.2	311.6	307.5	316.4	313.9	316.4	307.5	311.6	304.2	304.2	306.3
150°	296.8	302.2	296.1	306.3	306.5	306.3	296.1	302.2	296.8	295.5	297.6
152.5°	286.8	292.2	286.8	298.4	297.9	298.4	286.8	292.2	286.8	285.5	287.6
155°	279.0	281.7	279.0	290.6	291.4	290.6	279.0	281.7	279.0	278.2	279.8
157.5°	273.8	276.0	274.6	284.9	285.7	284.9	274.6	276.0	273.8	273.8	274.6
160°	270.2	272.9	272.4	281.3	282.1	281.3	272.4	272.9	270.2	270.8	271.6
162.5°	269.1	269.1	269.4	278.3	279.9	278.3	269.4	269.1	269.1	269.1	270.5
165°	267.5	268.8	267.7	274.7	277.7	274.7	267.7	268.8	267.5	268.0	268.0
167.5°	267.7	266.4	268.0	274.4	277.4	274.4	268.0	266.4	267.7	268.3	268.3
170°	265.8	266.6	266.9	273.3	276.3	273.3	266.9	266.6	265.8	267.2	267.7
172.5°	268.2	268.2	267.9	272.9	277.2	272.9	267.9	268.2	268.2	268.8	270.1
175°	269.8	269.3	269.5	273.2	277.5	273.2	269.5	269.3	269.8	269.0	269.0
177.5°	268.5	270.1	271.6	275.3	281.0	275.3	271.6	270.1	268.5	269.0	269.0
180°	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1	270.1



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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°	29.2	18.4	29.2	49.5	31.9	18.4
92.5°	44.1	26.5	44.1	79.2	41.3	23.8
95°	50.8	30.5	50.8	110.3	54.9	35.4
97.5°	56.2	39.4	56.2	126.5	67.0	54.3
100°	65.7	51.6	65.7	196.8	82.7	71.9
102.5°	138.7	86.7	138.7	417.1	154.3	108.4
105°	291.4	148.9	291.4	742.8	321.9	196.2
107.5°	521.2	257.0	521.2	980.1	569.3	370.6
110°	691.4	478.7	691.4	1027.4	781.5	592.2



TEST NUMBER:

CATALOG NUMBER: EHBR1-48-UNV-TASM-L840-UPL24

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	742.8	646.3	742.8	984.2	862.5	770.6
115°	714.4	680.1	714.4	878.8	842.3	837.7
117.5°	652.3	657.1	652.3	746.3	757.9	809.3
120°	580.6	608.5	580.6	623.3	662.0	730.9
122.5°	515.2	547.6	515.2	534.9	564.1	633.0
125°	458.4	491.7	458.4	472.2	479.8	537.1
127.5°	419.2	441.7	419.2	427.6	420.3	456.8
130°	388.9	407.9	388.9	400.0	381.9	399.5
132.5°	368.1	380.3	368.1	381.3	359.2	363.8
135°	350.0	360.0	350.0	363.8	343.7	341.6
137.5°	334.6	343.2	334.6	349.1	333.7	328.9
140°	321.3	328.6	321.3	336.4	324.3	321.6
142.5°	307.2	312.7	307.2	325.1	317.0	314.3
145°	298.0	302.1	298.0	316.4	311.6	311.0
147.5°	290.1	292.8	290.1	306.3	304.2	304.2
150°	282.2	284.9	282.2	297.6	295.5	296.8
152.5°	273.6	277.1	273.6	287.6	285.5	286.8
155°	268.4	271.9	268.4	279.8	278.2	279.0
157.5°	265.9	268.9	265.9	274.6	273.8	273.8
160°	264.3	266.4	264.3	271.6	270.8	270.2
162.5°	261.8	264.0	261.8	270.5	269.1	269.1
165°	262.1	262.9	262.1	268.0	268.0	267.5
167.5°	261.5	262.9	261.5	268.3	268.3	267.7
170°	262.3	263.1	262.3	267.7	267.2	265.8
172.5°	263.9	264.7	263.9	270.1	268.8	268.2
175°	264.2	265.0	264.2	269.0	269.0	269.8
177.5°	266.3	267.1	266.3	269.0	269.0	268.5
180°	270.1	270.1	270.1	270.1	270.1	270.1



TEST NUMBER: CATALOG  
 CATALOG NUMBER: EHBR1-48-UNV-TASM-L840-UPL24

**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	19.18	20.31	19.63	20.72	21.17	18.49	19.62	18.95	20.04	20.48
	3H	20.72	21.73	21.19	22.16	22.65	20.34	21.35	20.81	21.78	22.27
	4H	21.36	22.30	21.85	22.75	23.26	21.12	22.06	21.62	22.52	23.02
	6H	21.84	22.70	22.35	23.17	23.69	21.77	22.63	22.27	23.10	23.62
	8H	21.99	22.81	22.51	23.30	23.82	21.99	22.81	22.51	23.29	23.82
	12H	22.07	22.85	22.59	23.33	23.88	22.12	22.90	22.64	23.38	23.93
4H	2H	19.59	20.53	20.08	20.98	21.49	19.07	20.01	19.56	20.46	20.97
	3H	21.39	22.16	21.89	22.67	23.19	21.13	21.90	21.63	22.40	22.93
	4H	22.16	22.86	22.69	23.37	23.94	22.04	22.73	22.56	23.25	23.81
	6H	22.78	23.38	23.33	23.92	24.50	22.81	23.41	23.36	23.95	24.53
	8H	22.98	23.54	23.53	24.07	24.66	23.08	23.64	23.63	24.18	24.76
	12H	23.08	23.58	23.65	24.15	24.74	23.25	23.74	23.82	24.31	24.90
8H	4H	22.41	22.97	22.97	23.51	24.10	22.32	22.88	22.87	23.41	24.00
	6H	23.16	23.61	23.74	24.20	24.79	23.22	23.68	23.81	24.26	24.86
	8H	23.43	23.83	24.03	24.43	25.04	23.57	23.98	24.18	24.58	25.19
	12H	23.60	23.95	24.20	24.54	25.22	23.82	24.18	24.42	24.76	25.44
12H	4H	22.42	22.92	23.00	23.49	24.08	22.33	22.82	22.90	23.39	23.98
	6H	23.20	23.61	23.80	24.21	24.81	23.27	23.67	23.87	24.27	24.88
	8H	23.52	23.87	24.12	24.45	25.14	23.67	24.03	24.27	24.61	25.29