

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: EHBR1-42-UNV-TASM-L840-UPL36

Issue Date: 3/20/2026

**Test Information**

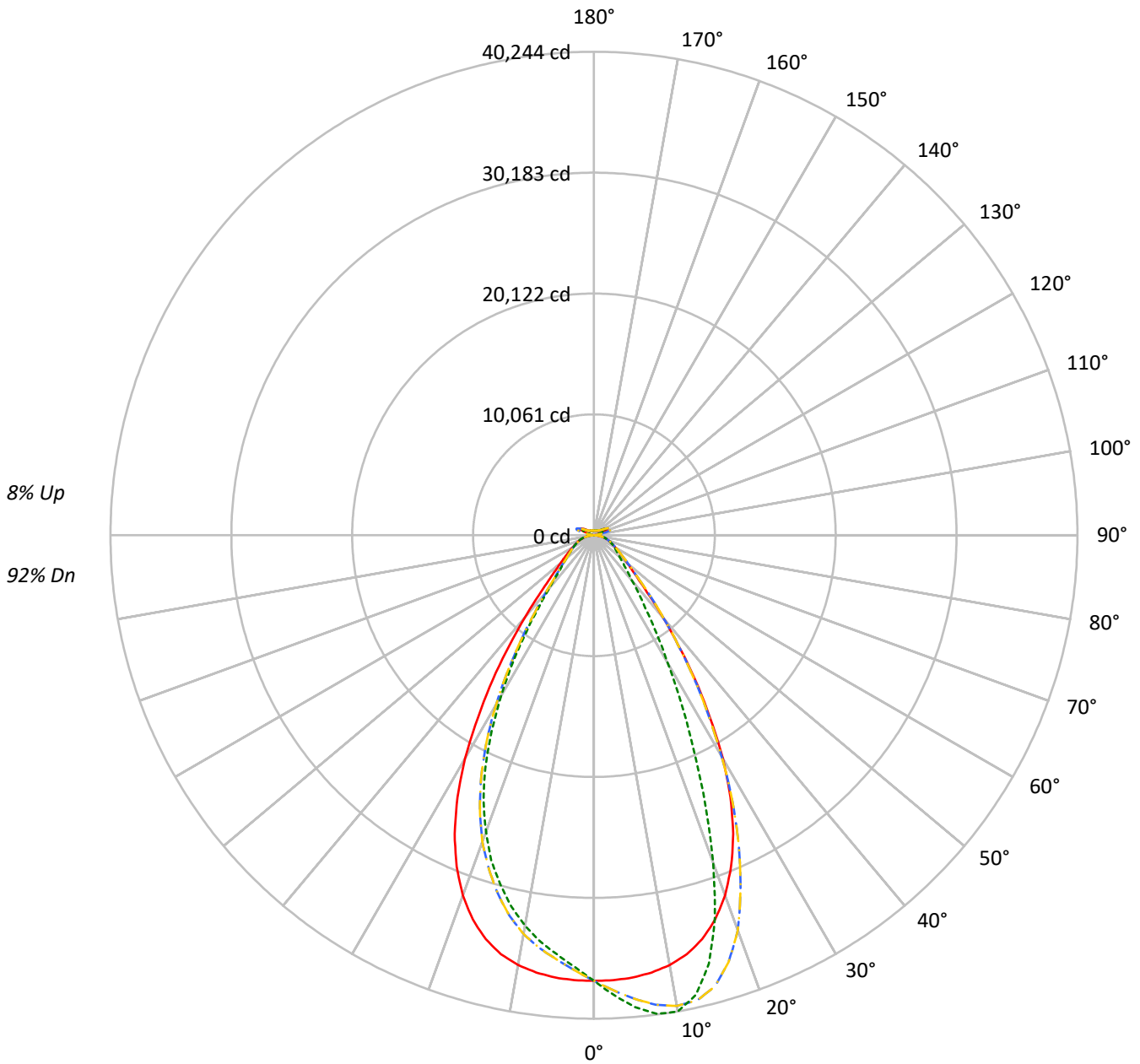
Test Method: LM-79-2019  
Report Number: REPORT IS A COMBINATION OF REPORTS P1431809 AND P1431635  
Test Lab: INNOVATION CENTER  
Issue Date: 3/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: EHBR1-42-UNV-TASM-L840-UPL36  
Description: Elevate Round Highbay at, 42000 lumens, 4000K 80CRI LEDs with TASM lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45152.1 lumens  
Efficiency: N/A  
Efficacy: 178.6 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): 252.8  
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:  
CATALOG NUMBER: EHBR1-42-UNV-TASM-L840-UPL36

### 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				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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	95	95	95	92
1	110	106	103	100	106	103	101	98	98	96	94	93	91	89	88	87	85	85	85	85	83
2	103	97	92	88	100	94	90	86	90	86	83	85	82	80	81	79	77	77	77	77	75
3	96	89	83	78	94	87	81	77	83	78	74	79	75	72	76	73	70	70	70	70	68
4	90	82	75	70	88	80	74	69	76	71	67	73	69	66	71	67	64	64	64	64	62
5	85	75	68	63	83	74	67	63	71	66	61	68	64	60	66	62	59	59	59	59	57
6	80	70	63	58	78	69	62	57	66	61	56	64	59	55	62	58	54	54	54	54	53
7	76	65	58	53	74	64	57	53	62	56	52	60	55	51	58	54	50	50	50	50	49
8	72	61	54	49	70	60	53	49	58	52	48	56	51	48	55	50	47	47	47	47	45
9	68	57	50	46	66	56	50	46	54	49	45	53	48	44	52	47	44	44	44	44	42
10	64	54	47	43	63	53	47	43	51	46	42	50	45	42	49	44	41	41	41	41	40

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

	0°	90°	180°	270°
0°	174169	174169	174169	174169
5°	173108	184675	173108	164125
10°	170980	189415	170980	155331
15°	165932	176026	165932	143484
20°	155188	141149	155188	127804
25°	137354	97796	137354	107105
30°	111526	63623	111526	80136
35°	79990	41204	79990	53348
40°	51716	28400	51716	33644
45°	32814	21999	32814	23972
50°	24368	18694	24368	19968
55°	19895	17029	19895	17625
60°	17228	16222	17228	16320
65°	15705	15644	15705	15578
70°	14885	15329	14885	15130
75°	13920	14829	13920	14385
80°	12228	14000	12228	13088
85°	7911	9997	7911	9532

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 46134 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3526.5	7.8
10°-20°	9594.1	21.2
20°-30°	11251.9	24.9
30°-40°	7825.0	17.3
40°-50°	3888.6	8.6
50°-60°	2325.8	5.2
60°-70°	1637.0	3.6
70°-80°	1054.5	2.3
80°-90°	341.5	0.8
90°-100°	98.9	0.2
100°-110°	644.2	1.4
110°-120°	1189.8	2.6
120°-130°	707.4	1.6
130°-140°	428.1	0.9
140°-150°	296.4	0.7
150°-160°	193.8	0.4
160°-170°	111.6	0.2
170°-180°	37.2	0.1
0°-30°	24372.4	54.0
0°-40°	32197.4	71.3
0°-60°	38411.9	85.1
0°-90°	41444.9	91.8
90°-120°	1932.8	4.3
90°-150°	3364.7	7.5
90°-180°	3707.0	8.2
0°-180°	45152.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	37088	37088	37088	37088	37088	
5°	36961	39431	36961	35043	36961	3508
15°	34812	36929	34812	30102	34812	9729
25°	27430	19530	27430	21389	27430	12418
35°	14681	7562	14681	9791	14681	9165
45°	5309	3559	5309	3879	5309	4344
55°	2689	2301	2689	2382	2689	2459
65°	1639	1633	1639	1626	1639	1646
75°	981	1045	981	1013	981	1029
85°	272	344	272	328	272	302
90°	27	32	27	27	27	25
95°	52	51	52	46	52	56
105°	296	152	296	224	296	399
115°	1266	1082	1266	1028	1266	1154
125°	811	850	811	742	811	746
135°	513	593	513	543	513	407
145°	464	486	464	452	464	291
155°	414	432	414	402	414	193
165°	391	403	391	384	391	111
175°	390	398	390	384	390	37
180°	390	390	390	390	390	



TEST NUMBER:  
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L840-UPL36

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0
2.5°	37066.4	37545.6	37933.6	38189.6	38316.1	38189.6	37933.6	37545.6	37066.4	36590.0	36262.5
5°	36961.4	37921.1	38734.1	39266.1	39431.0	39266.1	38734.1	37921.1	36961.4	36054.5	35453.0
7.5°	36710.3	38205.6	39413.6	40034.6	40186.2	40034.6	39413.6	38205.6	36710.3	35426.5	34666.4
10°	36327.1	38385.0	39780.8	40225.9	40243.9	40225.9	39780.8	38385.0	36327.1	34597.5	33701.1
12.5°	35715.8	38321.0	39657.7	39511.6	39179.9	39511.6	39657.7	38321.0	35715.8	33585.0	32454.1
15°	34811.7	37942.0	38878.1	37689.5	36929.4	37689.5	38878.1	37942.0	34811.7	32217.7	30906.1
17.5°	33537.7	37232.6	37250.7	34899.4	33465.3	34899.4	37250.7	37232.6	33537.7	30545.8	29101.4
20°	31895.7	36094.9	35009.9	30709.2	29010.2	30709.2	35009.9	36094.9	31895.7	28569.3	27152.0
22.5°	29837.1	34560.7	31889.4	26494.1	24176.1	26494.1	31889.4	34560.7	29837.1	26270.8	24795.8
25°	27429.5	32680.9	28532.5	21901.3	19529.8	21901.3	28532.5	32680.9	27429.5	23532.1	22198.3
27.5°	24597.6	30298.2	24957.8	17896.9	15709.0	17896.9	24957.8	30298.2	24597.6	20704.4	19342.0
30°	21452.0	27243.8	21237.8	14252.7	12237.9	14252.7	21237.8	27243.8	21452.0	17527.6	16307.7
32.5°	17930.2	24249.9	17665.3	11420.1	9713.4	11420.1	17665.3	24249.9	17930.2	14496.1	13221.3
35°	14681.1	20504.1	14443.9	8973.5	7562.4	8973.5	14443.9	20504.1	14681.1	11634.3	10382.5
37.5°	11521.6	16965.0	11514.0	7225.8	6133.9	7225.8	11514.0	16965.0	11521.6	9045.1	8029.0
40°	8963.7	13265.1	9021.5	5768.1	4922.4	5768.1	9021.5	13265.1	8963.7	6882.2	6232.0
42.5°	6791.8	10143.2	7090.9	4734.0	4181.1	4734.0	7090.9	10143.2	6791.8	5422.5	4935.7
45°	5309.1	7464.3	5537.2	3994.0	3559.3	3994.0	5537.2	7464.3	5309.1	4366.8	4039.9
47.5°	4323.6	5768.8	4487.8	3425.8	3121.2	3425.8	4487.8	5768.8	4323.6	3693.6	3448.8
50°	3631.7	4426.6	3726.3	2990.5	2786.0	2990.5	3726.3	4426.6	3631.7	3162.9	2999.5
52.5°	3119.8	3610.1	3173.4	2665.0	2527.3	2665.0	3173.4	3610.1	3119.8	2767.2	2665.7
55°	2688.6	3035.0	2759.6	2396.5	2301.3	2396.5	2759.6	3035.0	2688.6	2462.6	2387.5
57.5°	2361.1	2574.6	2396.5	2167.7	2104.4	2167.7	2396.5	2574.6	2361.1	2191.4	2151.0
60°	2071.1	2229.6	2114.9	1968.1	1950.1	1968.1	2114.9	2229.6	2071.1	1971.6	1945.2
62.5°	1847.8	1948.0	1870.1	1788.7	1772.7	1788.7	1870.1	1948.0	1847.8	1771.3	1776.2
65°	1639.2	1732.4	1671.2	1627.4	1632.9	1627.4	1671.2	1732.4	1639.2	1603.7	1611.4
67.5°	1477.8	1526.5	1500.1	1475.1	1481.3	1475.1	1500.1	1526.5	1477.8	1443.1	1454.9
70°	1306.1	1358.2	1331.1	1334.6	1345.0	1334.6	1331.1	1358.2	1306.1	1295.6	1304.7
72.5°	1141.9	1182.3	1173.2	1181.6	1192.7	1181.6	1173.2	1182.3	1141.9	1140.5	1141.2
75°	980.6	1011.2	1015.4	1027.2	1044.6	1027.2	1015.4	1011.2	980.6	970.2	982.7
77.5°	804.6	839.4	852.6	868.6	894.4	868.6	852.6	839.4	804.6	811.6	817.9
80°	643.3	659.3	688.5	700.3	736.5	700.3	688.5	659.3	643.3	631.5	640.5
82.5°	470.8	485.4	510.5	532.7	553.6	532.7	510.5	485.4	470.8	465.3	466.0
85°	271.9	294.2	310.9	337.3	343.6	337.3	310.9	294.2	271.9	278.2	271.9
87.5°	95.3	102.2	116.8	127.3	128.0	127.3	116.8	102.2	95.3	97.4	88.3
90°	27.3	46.4	79.8	45.1	32.2	45.1	79.8	46.4	27.3	47.7	74.3
92.5°	35.5	62.8	112.6	59.4	42.4	59.4	112.6	62.8	35.5	62.1	119.3
95°	52.5	77.1	143.2	65.6	50.6	65.6	143.2	77.1	52.5	82.5	166.4
97.5°	81.2	95.5	161.6	69.7	60.8	69.7	161.6	95.5	81.2	100.9	190.9
100°	107.8	107.8	294.6	79.9	69.0	79.9	294.6	107.8	107.8	124.1	297.3
102.5°	163.0	210.7	681.9	158.3	83.3	158.3	681.9	210.7	163.0	232.5	630.7
105°	295.9	480.7	1199.4	405.8	151.5	405.8	1199.4	480.7	295.9	486.2	1123.6
107.5°	559.8	895.9	1545.0	798.5	349.9	798.5	1545.0	895.9	559.8	860.5	1482.3
110°	895.2	1251.8	1686.2	1093.1	705.8	1093.1	1686.2	1251.8	895.2	1181.6	1553.9



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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°	1165.2	1395.0	1647.3	1211.7	975.8	1211.7	1647.3	1395.0	1165.2	1304.3	1488.4
115°	1266.2	1374.6	1471.4	1207.6	1082.2	1207.6	1471.4	1374.6	1266.2	1273.6	1328.9
117.5°	1223.2	1258.0	1270.9	1134.0	1088.3	1134.0	1270.9	1258.0	1223.2	1145.5	1128.4
120°	1104.6	1090.3	1071.2	1025.6	1027.0	1025.6	1071.2	1090.3	1104.6	1000.3	942.3
122.5°	956.0	925.3	905.5	915.8	943.1	915.8	905.5	925.3	956.0	851.6	808.0
125°	810.7	780.1	789.6	821.7	849.7	821.7	789.6	780.1	810.7	723.5	712.6
127.5°	688.7	674.4	705.8	741.9	765.8	741.9	705.8	674.4	688.7	633.5	645.1
130°	601.5	604.8	646.5	677.2	692.2	677.2	646.5	604.8	601.5	574.9	602.8
132.5°	546.9	562.6	602.2	628.8	637.7	628.8	602.2	562.6	546.9	539.4	573.5
135°	512.9	536.0	572.2	589.2	592.7	589.2	572.2	536.0	512.9	515.6	546.9
137.5°	493.1	516.2	543.5	557.2	553.8	557.2	543.5	516.2	493.1	499.9	523.8
140°	481.5	504.7	516.9	532.7	529.9	532.7	516.9	504.7	481.5	485.6	504.0
142.5°	470.0	491.1	497.2	508.8	505.3	508.8	497.2	491.1	470.0	474.1	486.3
145°	464.4	480.2	475.4	490.4	485.6	490.4	475.4	480.2	464.4	465.9	472.6
147.5°	454.2	465.9	459.7	472.6	467.9	472.6	459.7	465.9	454.2	454.2	456.9
150°	442.6	450.8	441.9	456.9	456.3	456.9	441.9	450.8	442.6	440.6	443.3
152.5°	427.0	435.1	427.0	444.0	442.7	444.0	427.0	435.1	427.0	424.9	427.7
155°	414.0	418.1	414.0	431.1	431.8	431.1	414.0	418.1	414.0	413.3	414.7
157.5°	405.2	408.0	405.9	420.9	421.6	420.9	405.9	408.0	405.2	405.2	405.9
160°	397.8	401.9	400.5	413.5	414.2	413.5	400.5	401.9	397.8	399.1	399.8
162.5°	395.1	395.1	394.5	407.4	408.8	407.4	394.5	395.1	395.1	395.1	397.1
165°	391.1	393.1	390.4	400.0	403.4	400.0	390.4	393.1	391.1	392.4	392.4
167.5°	390.4	388.4	389.8	397.9	401.4	397.9	389.8	388.4	390.4	391.8	391.8
170°	387.0	387.7	387.1	395.2	398.7	395.2	387.1	387.7	387.0	389.1	390.4
172.5°	389.1	389.1	387.0	393.2	398.7	393.2	387.0	389.1	389.1	390.5	392.5
175°	390.4	389.1	388.4	392.6	398.1	392.6	388.4	389.1	390.4	389.7	389.7
177.5°	388.4	389.8	391.2	395.3	402.9	395.3	391.2	389.8	388.4	389.7	389.7
180°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0
2.5°	36010.7	35987.1	36010.7	36262.5	36590.0	37066.4
5°	35174.1	35043.3	35174.1	35453.0	36054.5	36961.4
7.5°	34199.7	34123.9	34199.7	34666.4	35426.5	36710.3
10°	33173.9	33002.2	33173.9	33701.1	34597.5	36327.1
12.5°	31909.6	31682.2	31909.6	32454.1	33585.0	35715.8
15°	30301.7	30102.1	30301.7	30906.1	32217.7	34811.7
17.5°	28576.3	28395.5	28576.3	29101.4	30545.8	33537.7
20°	26409.2	26267.4	26409.2	27152.0	28569.3	31895.7
22.5°	24135.8	24003.0	24135.8	24795.8	26270.8	29837.1
25°	21461.1	21388.7	21461.1	22198.3	23532.1	27429.5
27.5°	18570.8	18447.7	18570.8	19342.0	20704.4	24597.6
30°	15617.9	15414.1	15617.9	16307.7	17527.6	21452.0
32.5°	12729.6	12582.9	12729.6	13221.3	14496.1	17930.2
35°	9938.1	9791.3	9938.1	10382.5	11634.3	14681.1
37.5°	7743.9	7484.5	7743.9	8029.0	9045.1	11521.6
40°	5873.1	5831.4	5873.1	6232.0	6882.2	8963.7
42.5°	4781.3	4667.9	4781.3	4935.7	5422.5	6791.8
45°	3923.1	3878.6	3923.1	4039.9	4366.8	5309.1
47.5°	3373.7	3393.1	3373.7	3448.8	3693.6	4323.6
50°	2964.0	2975.9	2964.0	2999.5	3162.9	3631.7
52.5°	2662.2	2651.8	2662.2	2665.7	2767.2	3119.8
55°	2395.2	2381.9	2395.2	2387.5	2462.6	2688.6
57.5°	2161.5	2171.2	2161.5	2151.0	2191.4	2361.1
60°	1952.8	1961.9	1952.8	1945.2	1971.6	2071.1
62.5°	1776.9	1782.5	1776.9	1776.2	1771.3	1847.8
65°	1619.7	1626.0	1619.7	1611.4	1603.7	1639.2
67.5°	1469.5	1469.5	1469.5	1454.9	1443.1	1477.8
70°	1328.3	1327.6	1328.3	1304.7	1295.6	1306.1
72.5°	1158.6	1175.3	1158.6	1141.2	1140.5	1141.9
75°	993.8	1013.3	993.8	982.7	970.2	980.6
77.5°	826.9	856.8	826.9	817.9	811.6	804.6
80°	655.8	688.5	655.8	640.5	631.5	643.3
82.5°	484.7	509.1	484.7	466.0	465.3	470.8
85°	288.6	327.6	288.6	271.9	278.2	271.9
87.5°	92.5	118.2	92.5	88.3	97.4	95.3
90°	43.7	27.3	43.7	74.3	47.7	27.3
92.5°	66.2	39.6	66.2	119.3	62.1	35.5
95°	76.4	45.7	76.4	166.4	82.5	52.5
97.5°	84.6	58.7	84.6	190.9	100.9	81.2
100°	98.9	77.1	98.9	297.3	124.1	107.8
102.5°	209.3	130.3	209.3	630.7	232.5	163.0
105°	440.5	224.3	440.5	1123.6	486.2	295.9
107.5°	788.2	388.0	788.2	1482.3	860.5	559.8
110°	1045.9	723.4	1045.9	1553.9	1181.6	895.2



TEST NUMBER:

CATALOG NUMBER: EHBR1-42-UNV-TASM-L840-UPL36

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1123.6	977.1	1123.6	1488.4	1304.3	1165.2
115°	1080.7	1028.2	1080.7	1328.9	1273.6	1266.2
117.5°	986.6	993.4	986.6	1128.4	1145.5	1223.2
120°	878.2	919.8	878.2	942.3	1000.3	1104.6
122.5°	778.7	827.7	778.7	808.0	851.6	956.0
125°	692.7	742.5	692.7	712.6	723.5	810.7
127.5°	633.4	666.9	633.4	645.1	633.5	688.7
130°	587.1	615.7	587.1	602.8	574.9	601.5
132.5°	555.1	573.5	555.1	573.5	539.4	546.9
135°	527.1	542.8	527.1	546.9	515.6	512.9
137.5°	503.3	516.9	503.3	523.8	499.9	493.1
140°	482.2	493.8	482.2	504.0	485.6	481.5
142.5°	460.4	468.6	460.4	486.3	474.1	470.0
145°	445.4	451.6	445.4	472.6	465.9	464.4
147.5°	432.4	436.5	432.4	456.9	454.2	454.2
150°	419.5	423.6	419.5	443.3	440.6	442.6
152.5°	405.9	410.7	405.9	427.7	424.9	427.0
155°	397.0	401.8	397.0	414.7	413.3	414.0
157.5°	392.3	395.7	392.3	405.9	405.2	405.2
160°	388.3	391.0	388.3	399.8	399.1	397.8
162.5°	383.5	386.3	383.5	397.1	395.1	395.1
165°	382.9	383.6	382.9	392.4	392.4	391.1
167.5°	381.5	383.6	381.5	391.8	391.8	390.4
170°	382.2	382.9	382.2	390.4	389.1	387.0
172.5°	383.6	384.3	383.6	392.5	390.5	389.1
175°	383.0	383.6	383.0	389.7	389.7	390.4
177.5°	385.6	386.3	385.6	389.7	389.7	388.4
180°	389.8	389.8	389.8	389.8	389.8	389.8



TEST NUMBER: CATALOG  
 CATALOG NUMBER: EHBR1-42-UNV-TASM-L840-UPL36

**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	18.45	19.53	18.95	20.01	20.53	17.76	18.85	18.27	19.33	19.85
	3H	19.99	20.96	20.51	21.45	22.02	19.61	20.57	20.13	21.07	21.64
	4H	20.63	21.53	21.17	22.04	22.62	20.39	21.29	20.94	21.80	22.39
	6H	21.11	21.93	21.66	22.46	23.06	21.03	21.86	21.59	22.39	22.98
	8H	21.26	22.04	21.83	22.59	23.19	21.25	22.04	21.82	22.58	23.19
	12H	21.33	22.08	21.90	22.62	23.24	21.38	22.13	21.95	22.67	23.29
4H	2H	18.86	19.76	19.40	20.27	20.85	18.34	19.24	18.88	19.75	20.33
	3H	20.65	21.40	21.21	21.96	22.56	20.39	21.14	20.95	21.70	22.29
	4H	21.43	22.10	22.00	22.67	23.30	21.30	21.97	21.87	22.54	23.17
	6H	22.04	22.62	22.64	23.21	23.87	22.07	22.65	22.67	23.24	23.89
	8H	22.24	22.78	22.84	23.37	24.03	22.34	22.88	22.94	23.47	24.13
	12H	22.34	22.82	22.96	23.44	24.10	22.51	22.98	23.13	23.61	24.27
8H	4H	21.68	22.22	22.28	22.81	23.47	21.58	22.12	22.18	22.71	23.37
	6H	22.42	22.86	23.05	23.49	24.16	22.48	22.92	23.12	23.56	24.22
	8H	22.69	23.08	23.34	23.73	24.41	22.84	23.23	23.49	23.88	24.55
	12H	22.86	23.20	23.51	23.83	24.58	23.08	23.42	23.73	24.06	24.81
12H	4H	21.68	22.16	22.31	22.78	23.45	21.59	22.06	22.21	22.69	23.35
	6H	22.46	22.85	23.11	23.50	24.18	22.53	22.92	23.18	23.57	24.25
	8H	22.78	23.12	23.43	23.75	24.50	22.93	23.27	23.58	23.90	24.66