

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: EHBR1-36-UNV-TASM-L840-UPL24

Issue Date: 3/20/2026

**Test Information**

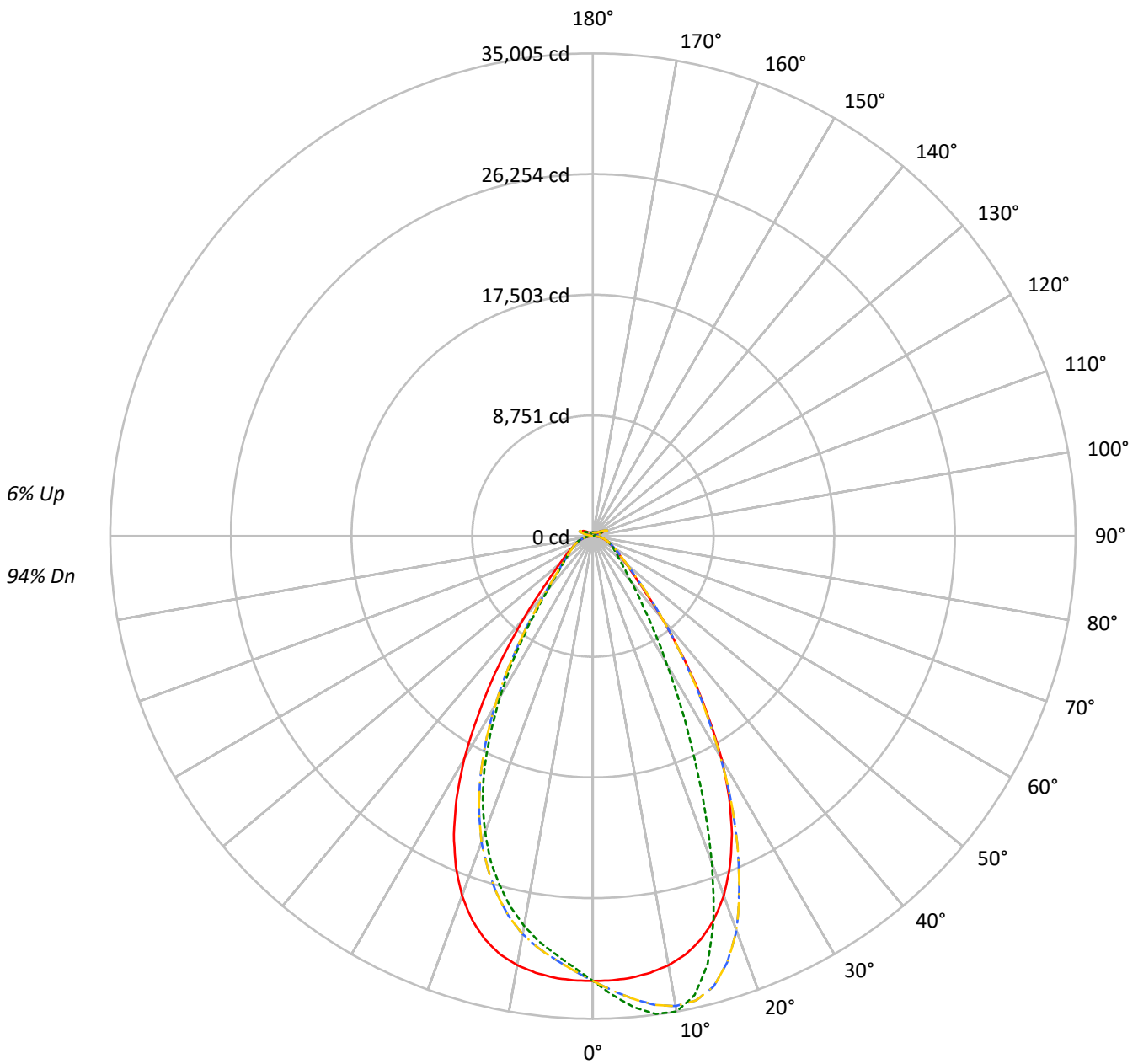
Test Method: LM-79-2019  
Report Number: REPORT IS A COMBINATION OF REPORTS P1431775 AND P1431635  
Test Lab: INNOVATION CENTER  
Issue Date: 3/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: EHBR1-36-UNV-TASM-L840-UPL24  
Description: Elevate Round Highbay at, 36000 lumens, 4000K 80CRI LEDs with TASM lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38503.9 lumens  
Efficiency: N/A  
Efficacy: 185.2 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): 207.9  
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:  
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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				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	114	114	114	114	108	108	108	102	102	102	96	96	96	96	96	96	94
1	110	107	104	101	107	104	101	99	99	97	95	94	92	91	89	88	87	87	87	87	85
2	103	97	92	88	100	95	91	87	91	87	84	87	84	81	83	81	78	78	78	78	76
3	97	89	83	78	94	87	82	77	84	79	75	80	76	73	77	74	71	71	71	71	69
4	91	82	75	70	89	80	74	70	77	72	68	74	70	67	72	68	65	65	65	65	63
5	86	76	69	64	83	74	68	63	72	66	62	69	65	61	67	63	60	60	60	60	58
6	81	70	63	58	79	69	63	58	67	61	57	65	60	56	63	59	55	55	55	55	54
7	76	66	59	54	74	65	58	53	63	57	53	61	56	52	59	55	51	51	51	51	50
8	72	61	55	50	70	60	54	50	59	53	49	57	52	48	56	51	48	48	48	48	46
9	68	57	51	46	67	57	50	46	55	50	46	54	49	45	52	48	45	45	45	45	43
10	65	54	48	43	63	53	47	43	52	46	43	51	46	42	50	45	42	42	42	42	40

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

	0°	90°	180°	270°
0°	151494	151494	151494	151494
5°	150572	160632	150572	142758
10°	148720	164756	148720	135108
15°	144330	153109	144330	124803
20°	134984	122773	134984	111165
25°	119472	85064	119472	93161
30°	97007	55340	97007	69703
35°	69576	35839	69576	46403
40°	44983	24703	44983	29264
45°	28542	19135	28542	20851
50°	21196	16260	21196	17368
55°	17305	14812	17305	15331
60°	14985	14110	14985	14195
65°	13660	13607	13660	13550
70°	12947	13333	12947	13161
75°	12108	12898	12108	12512
80°	10635	12177	10635	11384
85°	6881	8694	6881	8289

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 40128 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3067.4	8.0
10°-20°	8345.0	21.7
20°-30°	9787.0	25.4
30°-40°	6806.2	17.7
40°-50°	3382.4	8.8
50°-60°	2023.0	5.3
60°-70°	1423.9	3.7
70°-80°	917.2	2.4
80°-90°	295.6	0.8
90°-100°	65.7	0.2
100°-110°	426.1	1.1
110°-120°	786.7	2.0
120°-130°	468.0	1.2
130°-140°	283.7	0.7
140°-150°	196.9	0.5
150°-160°	129.2	0.3
160°-170°	74.9	0.2
170°-180°	25.0	0.1
0°-30°	21199.4	55.1
0°-40°	28005.6	72.7
0°-60°	33411.0	86.8
0°-90°	36047.7	93.6
90°-120°	1278.5	3.3
90°-150°	2227.1	5.8
90°-180°	2456.0	6.4
0°-180°	38503.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	32260	32260	32260	32260	32260	
5°	32149	34297	32149	30481	32149	3051
15°	30280	32122	30280	26183	30280	8462
25°	23858	16987	23858	18604	23858	10801
35°	12770	6578	12770	8517	12770	7972
45°	4618	3096	4618	3374	4618	3779
55°	2339	2002	2339	2072	2339	2139
65°	1426	1420	1426	1414	1426	1432
75°	853	909	853	881	853	895
85°	236	299	236	285	236	263
90°	18	22	18	18	18	20
95°	35	34	35	30	35	37
105°	196	101	196	148	196	264
115°	837	716	837	680	837	763
125°	536	563	536	491	536	494
135°	340	393	340	359	340	270
145°	309	323	309	300	309	193
155°	276	288	276	268	276	129
165°	262	271	262	258	262	75
175°	263	269	263	258	263	25
180°	263	263	263	263	263	



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

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	32259.5	32259.5	32259.5	32259.5	32259.5	32259.5	32259.5	32259.5	32259.5	32259.5	32259.5
2.5°	32240.7	32657.5	32995.0	33217.7	33327.7	33217.7	32995.0	32657.5	32240.7	31826.3	31541.4
5°	32149.4	32984.2	33691.3	34154.1	34297.4	34154.1	33691.3	32984.2	32149.4	31360.6	30837.3
7.5°	31931.0	33231.6	34282.3	34822.5	34954.4	34822.5	34282.3	33231.6	31931.0	30814.3	30153.2
10°	31597.7	33387.6	34601.7	34988.8	35004.6	34988.8	34601.7	33387.6	31597.7	30093.3	29313.5
12.5°	31066.0	33332.0	34494.6	34367.6	34079.0	34367.6	34494.6	33332.0	31066.0	29212.5	28228.9
15°	30279.6	33002.3	33816.5	32782.7	32121.5	32782.7	33816.5	33002.3	30279.6	28023.3	26882.4
17.5°	29171.4	32385.3	32401.0	30355.8	29108.5	30355.8	32401.0	32385.3	29171.4	26569.0	25312.6
20°	27743.2	31395.7	30452.0	26711.2	25233.4	26711.2	30452.0	31395.7	27743.2	24849.9	23617.1
22.5°	25952.6	30061.2	27737.7	23044.8	21028.6	23044.8	27737.7	30061.2	25952.6	22850.6	21567.6
25°	23858.4	28426.1	24817.8	19050.0	16987.2	19050.0	24817.8	28426.1	23858.4	20468.5	19308.3
27.5°	21395.2	26353.7	21708.6	15566.9	13663.8	15566.9	21708.6	26353.7	21395.2	18008.9	16823.9
30°	18659.2	23696.9	18472.9	12397.1	10644.7	12397.1	18472.9	23696.9	18659.2	15245.7	14184.6
32.5°	15595.9	21092.8	15365.4	9933.3	8448.8	9933.3	15365.4	21092.8	15595.9	12608.8	11500.0
35°	12769.7	17834.7	12563.5	7805.2	6577.8	7805.2	12563.5	17834.7	12769.7	10119.6	9030.8
37.5°	10021.6	14756.3	10015.0	6285.1	5335.3	6285.1	10015.0	14756.3	10021.6	7867.5	6983.7
40°	7796.7	11538.1	7846.9	5017.2	4281.6	5017.2	7846.9	11538.1	7796.7	5986.2	5420.6
42.5°	5907.6	8822.7	6167.7	4117.7	3636.7	4117.7	6167.7	8822.7	5907.6	4716.5	4293.1
45°	4617.9	6492.5	4816.3	3474.0	3096.0	3474.0	4816.3	6492.5	4617.9	3798.3	3513.9
47.5°	3760.8	5017.8	3903.5	2979.8	2714.9	2979.8	3903.5	5017.8	3760.8	3212.7	2999.8
50°	3158.9	3850.3	3241.1	2601.1	2423.3	2601.1	3241.1	3850.3	3158.9	2751.1	2609.0
52.5°	2713.6	3140.1	2760.2	2318.0	2198.3	2318.0	2760.2	3140.1	2713.6	2407.0	2318.6
55°	2338.6	2639.8	2400.3	2084.5	2001.7	2084.5	2400.3	2639.8	2338.6	2142.0	2076.7
57.5°	2053.7	2239.4	2084.5	1885.5	1830.5	1885.5	2084.5	2239.4	2053.7	1906.1	1871.0
60°	1801.4	1939.4	1839.5	1711.9	1696.2	1711.9	1839.5	1939.4	1801.4	1714.9	1691.9
62.5°	1607.3	1694.4	1626.6	1555.8	1541.9	1555.8	1626.6	1694.4	1607.3	1540.7	1545.0
65°	1425.8	1506.8	1453.6	1415.5	1420.3	1415.5	1453.6	1506.8	1425.8	1394.9	1401.6
67.5°	1285.4	1327.8	1304.8	1283.0	1288.5	1283.0	1304.8	1327.8	1285.4	1255.2	1265.5
70°	1136.0	1181.4	1157.8	1160.8	1169.9	1160.8	1157.8	1181.4	1136.0	1127.0	1134.8
72.5°	993.3	1028.4	1020.5	1027.7	1037.4	1027.7	1020.5	1028.4	993.3	992.1	992.7
75°	852.9	879.5	883.2	893.5	908.6	893.5	883.2	879.5	852.9	843.9	854.7
77.5°	699.9	730.1	741.6	755.5	777.9	755.5	741.6	730.1	699.9	705.9	711.4
80°	559.5	573.5	598.9	609.1	640.6	609.1	598.9	573.5	559.5	549.3	557.1
82.5°	409.5	422.2	444.0	463.4	481.5	463.4	444.0	422.2	409.5	404.7	405.3
85°	236.5	255.9	270.4	293.4	298.8	293.4	270.4	255.9	236.5	242.0	236.5
87.5°	82.9	88.9	101.6	110.7	111.3	110.7	101.6	88.9	82.9	84.7	76.8
90°	18.2	30.9	53.2	30.6	22.4	30.6	53.2	30.9	18.2	31.7	49.3
92.5°	23.6	41.7	74.8	40.1	29.1	40.1	74.8	41.7	23.6	41.1	79.0
95°	35.0	51.2	95.1	44.1	34.5	44.1	95.1	51.2	35.0	54.7	110.1
97.5°	53.9	63.4	107.2	46.9	41.3	46.9	107.2	63.4	53.9	66.8	126.3
100°	71.5	71.5	195.1	53.6	46.7	53.6	195.1	71.5	71.5	82.3	196.6
102.5°	108.0	139.7	451.1	105.6	56.2	105.6	451.1	139.7	108.0	153.9	416.9
105°	195.8	318.1	793.1	269.1	101.4	269.1	793.1	318.1	195.8	321.5	742.6
107.5°	370.2	592.4	1021.5	528.6	232.5	528.6	1021.5	592.4	370.2	568.9	979.7
110°	591.8	827.6	1114.7	723.2	467.6	723.2	1114.7	827.6	591.8	781.1	1027.0



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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°	770.2	922.2	1089.1	801.6	646.0	801.6	1089.1	922.2	770.2	862.1	983.8
115°	837.1	908.7	972.8	798.9	716.3	798.9	972.8	908.7	837.1	841.9	878.4
117.5°	808.7	831.7	840.4	750.3	720.4	750.3	840.4	831.7	808.7	757.3	745.9
120°	730.3	720.8	708.5	678.6	679.8	678.6	708.5	720.8	730.3	661.4	622.9
122.5°	632.2	612.0	599.0	606.2	624.4	606.2	599.0	612.0	632.2	563.3	534.3
125°	536.3	516.0	522.6	544.1	562.8	544.1	522.6	516.0	536.3	478.8	471.4
127.5°	455.8	446.3	467.2	491.4	507.4	491.4	467.2	446.3	455.8	419.3	426.8
130°	398.3	400.4	428.0	448.7	458.8	448.7	428.0	400.4	398.3	380.7	399.0
132.5°	362.4	372.6	398.9	416.9	423.0	416.9	398.9	372.6	362.4	357.6	379.9
135°	340.0	355.0	379.2	390.6	393.2	390.6	379.2	355.0	340.0	341.9	362.4
137.5°	327.1	342.1	360.3	369.6	367.6	369.6	360.3	342.1	327.1	331.7	347.3
140°	319.6	334.6	342.7	353.4	351.9	353.4	342.7	334.6	319.6	322.3	334.4
142.5°	312.2	325.7	329.8	337.8	335.7	337.8	329.8	325.7	312.2	314.9	323.0
145°	308.7	318.9	315.5	325.7	322.8	325.7	315.5	318.9	308.7	309.5	314.1
147.5°	301.9	309.5	305.4	314.1	311.3	314.1	305.4	309.5	301.9	301.9	303.9
150°	294.4	299.8	293.8	303.9	303.7	303.9	293.8	299.8	294.4	293.1	295.0
152.5°	284.2	289.6	284.2	295.6	294.9	295.6	284.2	289.6	284.2	282.9	284.8
155°	276.0	278.7	276.0	287.4	288.0	287.4	276.0	278.7	276.0	275.4	276.6
157.5°	270.4	272.4	271.0	281.1	281.7	281.1	271.0	272.4	270.4	270.4	271.0
160°	266.0	268.7	268.0	276.7	277.3	276.7	268.0	268.7	266.0	266.8	267.4
162.5°	264.5	264.5	264.4	273.1	274.3	273.1	264.4	264.5	264.5	264.5	265.9
165°	262.3	263.6	262.1	268.8	271.4	268.8	262.1	263.6	262.3	263.0	263.0
167.5°	262.1	260.8	262.1	267.9	270.5	267.9	262.1	260.8	262.1	262.9	262.9
170°	260.0	260.7	260.6	266.4	269.0	266.4	260.6	260.7	260.0	261.4	262.1
172.5°	261.9	261.9	261.0	265.5	269.4	265.5	261.0	261.9	261.9	262.7	264.0
175°	263.1	262.4	262.2	265.4	269.3	265.4	262.2	262.4	263.1	262.5	262.5
177.5°	261.8	263.0	264.2	267.3	272.6	267.3	264.2	263.0	261.8	262.5	262.5
180°	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	32259.5	32259.5	32259.5	32259.5	32259.5	32259.5
2.5°	31322.5	31301.9	31322.5	31541.4	31826.3	32240.7
5°	30594.7	30481.0	30594.7	30837.3	31360.6	32149.4
7.5°	29747.3	29681.3	29747.3	30153.2	30814.3	31931.0
10°	28855.0	28705.6	28855.0	29313.5	30093.3	31597.7
12.5°	27755.3	27557.5	27755.3	28228.9	29212.5	31066.0
15°	26356.7	26183.1	26356.7	26882.4	28023.3	30279.6
17.5°	24855.9	24698.6	24855.9	25312.6	26569.0	29171.4
20°	22971.0	22847.6	22971.0	23617.1	24849.9	27743.2
22.5°	20993.5	20878.0	20993.5	21567.6	22850.6	25952.6
25°	18667.0	18604.1	18667.0	19308.3	20468.5	23858.4
27.5°	16153.0	16046.0	16153.0	16823.9	18008.9	21395.2
30°	13584.6	13407.3	13584.6	14184.6	15245.7	18659.2
32.5°	11072.3	10944.7	11072.3	11500.0	12608.8	15595.9
35°	8644.2	8516.6	8644.2	9030.8	10119.6	12769.7
37.5°	6735.7	6510.1	6735.7	6983.7	7867.5	10021.6
40°	5108.5	5072.2	5108.5	5420.6	5986.2	7796.7
42.5°	4158.8	4060.2	4158.8	4293.1	4716.5	5907.6
45°	3412.3	3373.6	3412.3	3513.9	3798.3	4617.9
47.5°	2934.4	2951.4	2934.4	2999.8	3212.7	3760.8
50°	2578.1	2588.4	2578.1	2609.0	2751.1	3158.9
52.5°	2315.6	2306.5	2315.6	2318.6	2407.0	2713.6
55°	2083.3	2071.8	2083.3	2076.7	2142.0	2338.6
57.5°	1880.1	1888.5	1880.1	1871.0	1906.1	2053.7
60°	1698.6	1706.5	1698.6	1691.9	1714.9	1801.4
62.5°	1545.6	1550.4	1545.6	1545.0	1540.7	1607.3
65°	1408.8	1414.3	1408.8	1401.6	1394.9	1425.8
67.5°	1278.2	1278.2	1278.2	1265.5	1255.2	1285.4
70°	1155.4	1154.8	1155.4	1134.8	1127.0	1136.0
72.5°	1007.8	1022.3	1007.8	992.7	992.1	993.3
75°	864.4	881.4	864.4	854.7	843.9	852.9
77.5°	719.2	745.3	719.2	711.4	705.9	699.9
80°	570.4	598.9	570.4	557.1	549.3	559.5
82.5°	421.6	442.8	421.6	405.3	404.7	409.5
85°	251.0	284.9	251.0	236.5	242.0	236.5
87.5°	80.5	102.8	80.5	76.8	84.7	82.9
90°	29.0	18.2	29.0	49.3	31.7	18.2
92.5°	43.9	26.3	43.9	79.0	41.1	23.6
95°	50.6	30.3	50.6	110.1	54.7	35.0
97.5°	56.0	39.0	56.0	126.3	66.8	53.9
100°	65.5	51.2	65.5	196.6	82.3	71.5
102.5°	138.5	86.3	138.5	416.9	153.9	108.0
105°	291.2	148.5	291.2	742.6	321.5	195.8
107.5°	521.0	256.6	521.0	979.7	568.9	370.2
110°	691.2	478.3	691.2	1027.0	781.1	591.8



TEST NUMBER:

CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL24

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	742.6	645.9	742.6	983.8	862.1	770.2
115°	714.2	679.7	714.2	878.4	841.9	837.1
117.5°	652.1	656.7	652.1	745.9	757.3	808.7
120°	580.4	608.1	580.4	622.9	661.4	730.3
122.5°	514.8	547.2	514.8	534.3	563.3	632.2
125°	458.0	491.1	458.0	471.4	478.8	536.3
127.5°	418.8	441.1	418.8	426.8	419.3	455.8
130°	388.3	407.3	388.3	399.0	380.7	398.3
132.5°	367.3	379.5	367.3	379.9	357.6	362.4
135°	349.0	359.2	349.0	362.4	341.9	340.0
137.5°	333.4	342.2	333.4	347.3	331.7	327.1
140°	319.7	327.2	319.7	334.4	322.3	319.6
142.5°	305.4	310.9	305.4	323.0	314.9	312.2
145°	295.9	300.0	295.9	314.1	309.5	308.7
147.5°	287.7	290.4	287.7	303.9	301.9	301.9
150°	279.4	282.1	279.4	295.0	293.1	294.4
152.5°	270.6	273.9	270.6	284.8	282.9	284.2
155°	265.0	268.3	265.0	276.6	275.4	276.0
157.5°	262.1	264.7	262.1	271.0	270.4	270.4
160°	259.9	261.8	259.9	267.4	266.8	266.0
162.5°	257.0	259.0	257.0	265.9	264.5	264.5
165°	256.9	257.5	256.9	263.0	263.0	262.3
167.5°	256.1	257.5	256.1	262.9	262.9	262.1
170°	256.7	257.3	256.7	262.1	261.4	260.0
172.5°	258.0	258.6	258.0	264.0	262.7	261.9
175°	257.9	258.5	257.9	262.5	262.5	263.1
177.5°	259.8	260.4	259.8	262.5	262.5	261.8
180°	263.0	263.0	263.0	263.0	263.0	263.0



TEST NUMBER: CATALOG  
 CATALOG NUMBER: EHBR1-36-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	18.11	19.22	18.58	19.66	20.14	17.42	18.53	17.90	18.98	19.46
	3H	19.65	20.64	20.15	21.10	21.63	19.27	20.26	19.77	20.72	21.24
	4H	20.29	21.21	20.81	21.69	22.23	20.05	20.98	20.57	21.46	22.00
	6H	20.77	21.62	21.30	22.11	22.66	20.70	21.54	21.22	22.04	22.59
	8H	20.92	21.72	21.46	22.24	22.80	20.92	21.72	21.46	22.23	22.79
	12H	20.99	21.76	21.54	22.27	22.85	21.05	21.81	21.59	22.32	22.90
4H	2H	18.52	19.44	19.04	19.92	20.46	18.00	18.92	18.52	19.40	19.94
	3H	20.32	21.08	20.84	21.61	22.16	20.06	20.82	20.58	21.35	21.90
	4H	21.09	21.78	21.64	22.31	22.91	20.96	21.65	21.51	22.19	22.78
	6H	21.71	22.30	22.28	22.86	23.47	21.74	22.33	22.31	22.89	23.50
	8H	21.90	22.45	22.48	23.02	23.63	22.01	22.56	22.58	23.12	23.74
	12H	22.01	22.49	22.60	23.09	23.71	22.17	22.66	22.77	23.25	23.88
8H	4H	21.34	21.89	21.92	22.45	23.07	21.24	21.79	21.82	22.36	22.98
	6H	22.08	22.53	22.69	23.14	23.77	22.15	22.59	22.76	23.20	23.83
	8H	22.35	22.75	22.98	23.37	24.01	22.50	22.90	23.13	23.52	24.16
	12H	22.53	22.87	23.15	23.48	24.19	22.75	23.10	23.37	23.70	24.42
12H	4H	21.35	21.84	21.94	22.43	23.05	21.25	21.74	21.85	22.33	22.96
	6H	22.13	22.53	22.75	23.15	23.79	22.19	22.59	22.82	23.21	23.85
	8H	22.44	22.79	23.06	23.40	24.11	22.60	22.95	23.22	23.55	24.26