

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-UPL36

Issue Date: 3/20/2026

**Test Information**

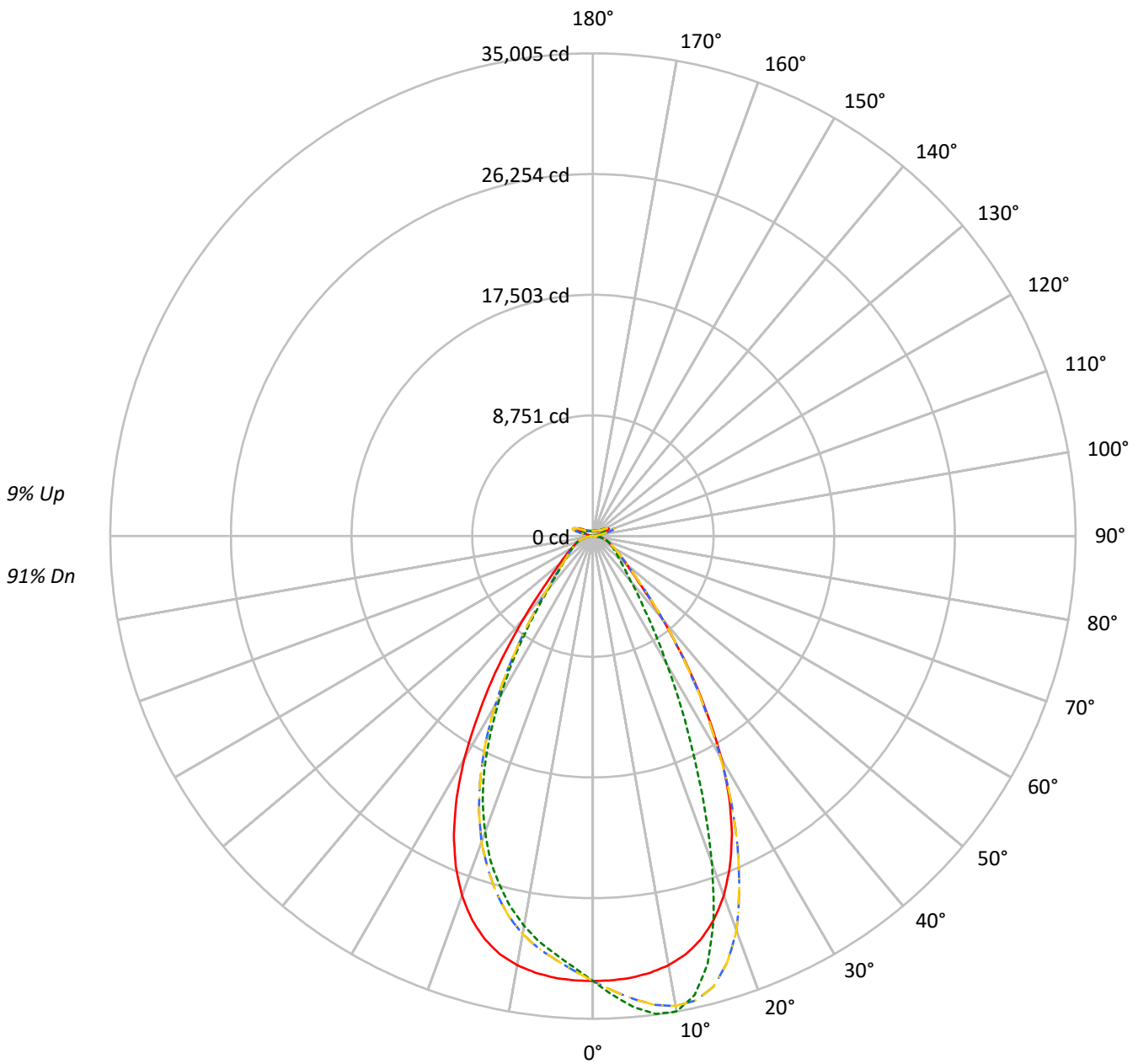
Test Method: LM-79-2019  
Report Number: REPORT IS A COMBINATION OF REPORTS P1431777 AND P1431635  
Test Lab: INNOVATION CENTER  
Issue Date: 3/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: EHBR1-36-UNV-TASM-L840-UPL36  
Description: Elevate Round Highbay at, 36000 lumens, 4000K 80CRI LEDs with TASM lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39752.9 lumens  
Efficiency: N/A  
Efficacy: 180.9 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): 219.8  
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: EHBR1-36-UNV-TASM-L840-UPL36

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - · - · 90°-270°    - · - · 135°-315°





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3067.4	7.7
10°-20°	8345.0	21.0
20°-30°	9787.0	24.6
30°-40°	6806.2	17.1
40°-50°	3382.4	8.5
50°-60°	2023.0	5.1
60°-70°	1423.9	3.6
70°-80°	917.2	2.3
80°-90°	297.8	0.7
90°-100°	98.6	0.2
100°-110°	643.8	1.6
110°-120°	1189.4	3.0
120°-130°	706.9	1.8
130°-140°	427.5	1.1
140°-150°	295.8	0.7
150°-160°	193.1	0.5
160°-170°	110.9	0.3
170°-180°	36.9	0.1
0°-30°	21199.4	53.3
0°-40°	28005.6	70.4
0°-60°	33411.0	84.0
0°-90°	36049.9	90.7
90°-120°	1931.9	4.9
90°-150°	3362.1	8.5
90°-180°	3703.0	9.3
0°-180°	39752.9	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°	27	31	27	27	27	24
95°	52	50	52	46	52	56
105°	296	151	296	224	296	399
115°	1266	1081	1266	1028	1266	1154
125°	810	849	810	742	810	746
135°	512	592	512	542	512	406
145°	463	484	463	451	463	290
155°	413	430	413	400	413	193
165°	389	400	389	381	389	111
175°	387	394	387	381	387	37
180°	386	386	386	386	386	



TEST NUMBER:

CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL36

**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°	27.2	46.2	79.5	44.5	31.4	44.5	79.5	46.2	27.2	47.6	74.2
92.5°	35.4	62.6	112.3	58.8	41.6	58.8	112.3	62.6	35.4	62.0	119.2
95°	52.3	76.9	142.9	65.0	49.8	65.0	142.9	76.9	52.3	82.4	166.3
97.5°	81.0	95.3	161.3	69.1	60.0	69.1	161.3	95.3	81.0	100.8	190.8
100°	107.6	107.6	294.3	79.3	68.2	79.3	294.3	107.6	107.6	123.9	297.2
102.5°	162.8	210.4	681.5	157.6	82.5	157.6	681.5	210.4	162.8	232.3	630.6
105°	295.7	480.4	1199.0	405.1	150.6	405.1	1199.0	480.4	295.7	486.0	1123.5
107.5°	559.6	895.6	1544.6	797.8	349.0	797.8	1544.6	895.6	559.6	860.3	1482.1
110°	895.0	1251.5	1685.8	1092.4	704.9	1092.4	1685.8	1251.5	895.0	1181.4	1553.7



TEST NUMBER:

CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1165.0	1394.7	1646.9	1211.0	974.9	1211.0	1646.9	1394.7	1165.0	1304.1	1488.2
115°	1265.9	1374.3	1471.0	1206.9	1081.3	1206.9	1471.0	1374.3	1265.9	1273.4	1328.7
117.5°	1222.9	1257.7	1270.5	1133.3	1087.4	1133.3	1270.5	1257.7	1222.9	1145.2	1128.2
120°	1104.3	1090.0	1070.7	1024.9	1026.1	1024.9	1070.7	1090.0	1104.3	1000.0	942.1
122.5°	955.6	924.9	905.0	915.0	942.2	915.0	905.0	924.9	955.6	851.2	807.7
125°	810.3	779.7	789.0	820.9	848.7	820.9	789.0	779.7	810.3	723.0	712.2
127.5°	688.2	673.9	705.2	741.1	764.8	741.1	705.2	673.9	688.2	633.0	644.7
130°	600.9	604.3	645.9	676.3	691.2	676.3	645.9	604.3	600.9	574.3	602.3
132.5°	546.2	562.0	601.5	627.8	636.7	627.8	601.5	562.0	546.2	538.6	572.8
135°	512.1	535.4	571.4	588.3	591.7	588.3	571.4	535.4	512.1	514.7	546.2
137.5°	492.2	515.5	542.7	556.2	552.8	556.2	542.7	515.5	492.2	498.9	522.9
140°	480.5	503.9	516.1	531.7	528.9	531.7	516.1	503.9	480.5	484.6	503.0
142.5°	469.0	490.2	496.3	507.8	504.3	507.8	496.3	490.2	469.0	473.1	485.3
145°	463.4	479.2	474.4	489.4	484.5	489.4	474.4	479.2	463.4	464.9	471.6
147.5°	453.2	464.9	458.7	471.6	466.7	471.6	458.7	464.9	453.2	453.2	455.8
150°	441.5	449.7	440.9	455.8	455.0	455.8	440.9	449.7	441.5	439.5	442.1
152.5°	425.8	433.9	425.8	442.7	441.3	442.7	425.8	433.9	425.8	423.7	426.4
155°	412.6	416.7	412.6	429.6	430.2	429.6	412.6	416.7	412.6	412.0	413.2
157.5°	403.6	406.3	404.2	419.1	419.7	419.1	404.2	406.3	403.6	403.6	404.2
160°	395.8	399.9	398.4	411.3	411.9	411.3	398.4	399.9	395.8	397.2	397.8
162.5°	392.9	392.9	392.1	404.9	406.1	404.9	392.1	392.9	392.9	392.9	394.9
165°	388.6	390.6	387.7	397.2	400.4	397.2	387.7	390.6	388.6	390.0	390.0
167.5°	387.7	385.7	387.0	394.9	398.2	394.9	387.0	385.7	387.7	389.2	389.2
170°	384.2	384.9	384.1	392.0	395.3	392.0	384.1	384.9	384.2	386.3	387.7
172.5°	386.1	386.1	383.8	389.7	395.0	389.7	383.8	386.1	386.1	387.6	389.6
175°	387.3	385.9	385.0	388.9	394.2	388.9	385.0	385.9	387.3	386.7	386.7
177.5°	385.3	386.5	387.7	391.5	398.9	391.5	387.7	386.5	385.3	386.7	386.7
180°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5



TEST NUMBER:

CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL36

**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°	43.6	27.2	43.6	74.2	47.6	27.2
92.5°	66.1	39.5	66.1	119.2	62.0	35.4
95°	76.3	45.6	76.3	166.3	82.4	52.3
97.5°	84.5	58.5	84.5	190.8	100.8	81.0
100°	98.8	76.9	98.8	297.2	123.9	107.6
102.5°	209.2	130.1	209.2	630.6	232.3	162.8
105°	440.4	224.1	440.4	1123.5	486.0	295.7
107.5°	788.1	387.8	788.1	1482.1	860.3	559.6
110°	1045.8	723.2	1045.8	1553.7	1181.4	895.0



TEST NUMBER:

CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL36

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1123.5	976.9	1123.5	1488.2	1304.1	1165.0
115°	1080.6	1028.0	1080.6	1328.7	1273.4	1265.9
117.5°	986.5	993.2	986.5	1128.2	1145.2	1222.9
120°	878.1	919.6	878.1	942.1	1000.0	1104.3
122.5°	778.5	827.5	778.5	807.7	851.2	955.6
125°	692.5	742.2	692.5	712.2	723.0	810.3
127.5°	633.2	666.6	633.2	644.7	633.0	688.2
130°	586.8	615.4	586.8	602.3	574.3	600.9
132.5°	554.7	573.1	554.7	572.8	538.6	546.2
135°	526.6	542.4	526.6	546.2	514.7	512.1
137.5°	502.7	516.4	502.7	522.9	498.9	492.2
140°	481.4	493.1	481.4	503.0	484.6	480.5
142.5°	459.5	467.7	459.5	485.3	473.1	469.0
145°	444.4	450.6	444.4	471.6	464.9	463.4
147.5°	431.3	435.4	431.3	455.8	453.2	453.2
150°	418.2	422.3	418.2	442.1	439.5	441.5
152.5°	404.5	409.2	404.5	426.4	423.7	425.8
155°	395.4	400.1	395.4	413.2	412.0	412.6
157.5°	390.5	393.7	390.5	404.2	403.6	403.6
160°	386.2	388.8	386.2	397.8	397.2	395.8
162.5°	381.2	383.9	381.2	394.9	392.9	392.9
165°	380.4	381.0	380.4	390.0	390.0	388.6
167.5°	378.9	381.0	378.9	389.2	389.2	387.7
170°	379.5	380.1	379.5	387.7	386.3	384.2
172.5°	380.8	381.4	380.8	389.6	387.6	386.1
175°	380.0	380.6	380.0	386.7	386.7	387.3
177.5°	382.6	383.2	382.6	386.7	386.7	385.3
180°	386.5	386.5	386.5	386.5	386.5	386.5



TEST NUMBER: CATALOG  
 CATALOG NUMBER: EHBR1-36-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	17.87	18.94	18.40	19.44	19.99	17.19	18.26	17.72	18.76	19.31
	3H	19.42	20.37	19.96	20.89	21.48	19.04	19.99	19.58	20.51	21.10
	4H	20.05	20.94	20.62	21.47	22.08	19.82	20.71	20.38	21.24	21.85
	6H	20.53	21.35	21.11	21.90	22.51	20.46	21.28	21.03	21.82	22.44
	8H	20.68	21.46	21.27	22.02	22.65	20.68	21.45	21.27	22.02	22.64
	12H	20.75	21.49	21.34	22.05	22.70	20.81	21.54	21.40	22.10	22.75
4H	2H	18.28	19.17	18.85	19.71	20.31	17.76	18.65	18.33	19.18	19.79
	3H	20.08	20.81	20.65	21.39	22.01	19.82	20.55	20.39	21.13	21.75
	4H	20.85	21.52	21.44	22.10	22.76	20.73	21.39	21.32	21.97	22.63
	6H	21.47	22.04	22.08	22.65	23.32	21.50	22.07	22.11	22.68	23.35
	8H	21.66	22.19	22.28	22.80	23.49	21.77	22.30	22.39	22.91	23.59
	12H	21.77	22.24	22.40	22.88	23.56	21.93	22.40	22.57	23.04	23.73
8H	4H	21.10	21.63	21.72	22.24	22.92	21.00	21.54	21.62	22.14	22.83
	6H	21.84	22.27	22.49	22.93	23.62	21.91	22.34	22.56	23.00	23.68
	8H	22.11	22.50	22.78	23.16	23.87	22.26	22.65	22.93	23.31	24.01
	12H	22.28	22.62	22.95	23.27	24.04	22.51	22.85	23.17	23.49	24.27
12H	4H	21.11	21.58	21.75	22.22	22.90	21.01	21.48	21.65	22.12	22.81
	6H	21.89	22.27	22.55	22.94	23.64	21.95	22.34	22.62	23.00	23.71
	8H	22.20	22.54	22.87	23.19	23.96	22.36	22.69	23.02	23.34	24.11