

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-UPL40

Issue Date: 3/20/2026

Test Information

Test Method: LM-79-2019
Report Number: REPORT IS A COMBINATION OF REPORTS P1431778 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-UPL40
Description: Elevate Round Highbay at, 36000 lumens, 4000K 80CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

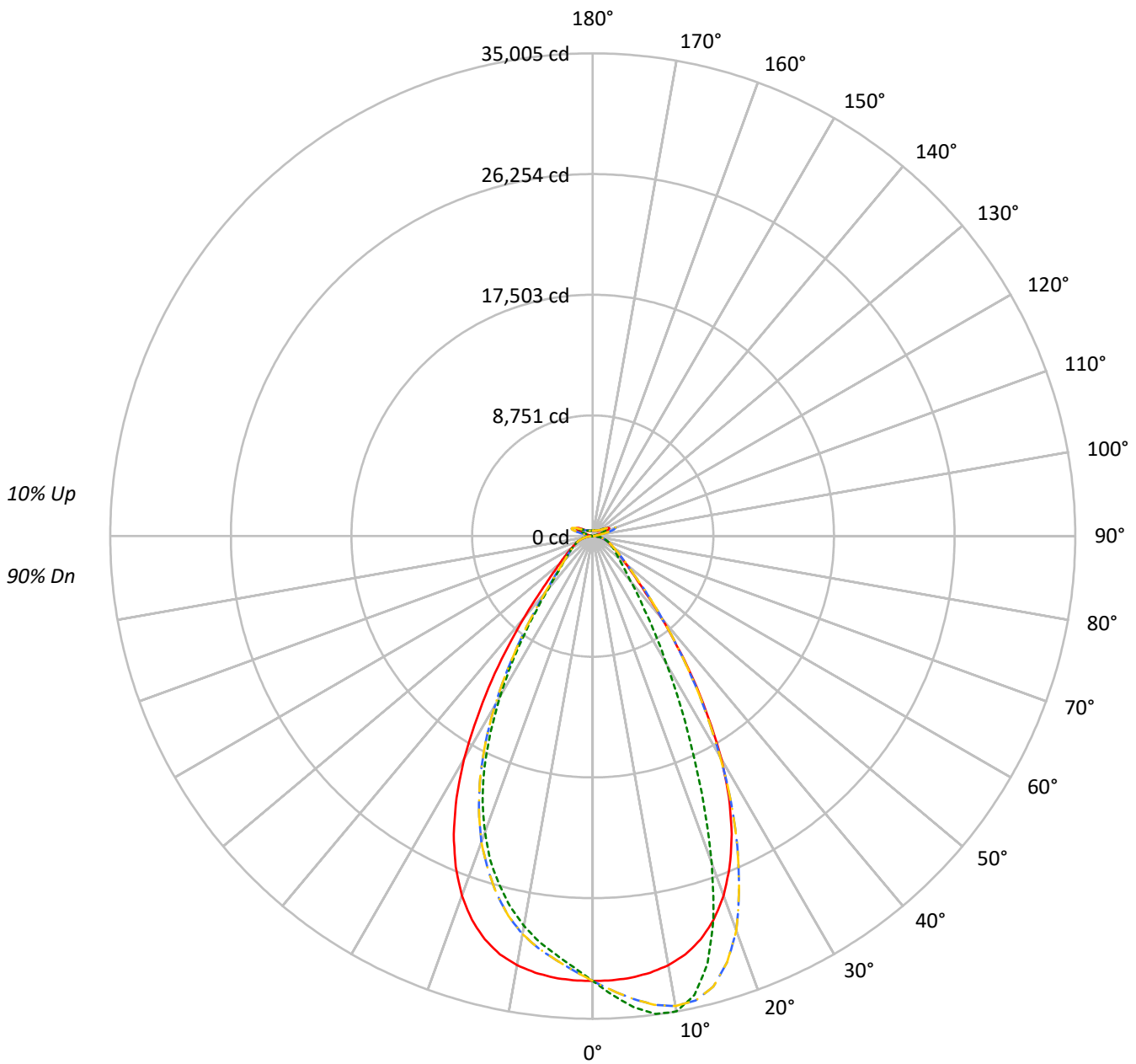
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39949.9 lumens
Efficiency: N/A
Efficacy: 180.0 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): 222
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-UPL40

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	106	106	106	99	99	99	93	93	93	93	93	93	90
1	109	106	103	100	106	103	100	98	97	95	93	92	90	88	87	85	84	87	85	84	81
2	102	96	91	87	99	94	89	86	89	85	82	84	81	79	80	78	76	80	78	76	74
3	96	88	82	77	93	86	81	76	82	77	74	78	74	71	75	72	69	75	72	69	67
4	90	81	74	69	87	79	73	68	76	71	67	72	68	65	69	66	63	69	66	63	61
5	85	75	68	63	82	73	67	62	70	65	61	67	63	59	65	61	58	65	61	58	56
6	80	69	62	58	77	68	62	57	65	60	56	63	58	55	61	57	53	61	57	53	52
7	75	65	58	53	73	63	57	52	61	56	51	59	54	51	57	53	50	57	53	50	48
8	71	60	54	49	69	59	53	49	57	52	48	55	51	47	54	49	46	54	49	46	44
9	67	57	50	45	66	56	49	45	54	48	44	52	47	44	51	46	43	51	46	43	42
10	64	53	47	42	62	52	46	42	51	45	42	49	44	41	48	44	40	48	44	40	39

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	7.7
10°-20°	8345.0	20.9
20°-30°	9787.0	24.5
30°-40°	6806.2	17.0
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°	298.2	0.7
90°-100°	103.8	0.3
100°-110°	678.2	1.7
110°-120°	1253.0	3.1
120°-130°	744.6	1.9
130°-140°	450.2	1.1
140°-150°	311.4	0.8
150°-160°	203.2	0.5
160°-170°	116.6	0.3
170°-180°	38.7	0.1
0°-30°	21199.4	53.1
0°-40°	28005.6	70.1
0°-60°	33411.0	83.6
0°-90°	36050.3	90.2
90°-120°	2034.9	5.1
90°-150°	3541.1	8.9
90°-180°	3900.0	9.8
0°-180°	39949.9	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°	29	33	29	29	29	24
95°	55	52	55	48	55	59
105°	312	158	312	236	312	420
115°	1334	1139	1334	1083	1334	1215
125°	854	894	854	782	854	786
135°	539	623	539	571	539	428
145°	488	510	488	474	488	306
155°	434	453	434	421	434	203
165°	408	421	408	400	408	116
175°	407	414	407	400	407	39
180°	406	406	406	406	406	



TEST NUMBER:
 CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL40

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°	28.6	48.6	83.7	46.7	32.8	46.7	83.7	48.6	28.6	50.2	78.2
92.5°	37.2	65.8	118.2	61.8	43.6	61.8	118.2	65.8	37.2	65.2	125.6
95°	55.1	80.9	150.5	68.2	52.2	68.2	150.5	80.9	55.1	86.8	175.1
97.5°	85.2	100.3	169.9	72.6	63.0	72.6	169.9	100.3	85.2	106.2	201.0
100°	113.3	113.3	309.9	83.3	71.6	83.3	309.9	113.3	113.3	130.5	313.1
102.5°	171.4	221.6	717.8	165.8	86.7	165.8	717.8	221.6	171.4	244.7	664.3
105°	311.5	506.0	1263.0	426.5	158.4	426.5	1263.0	506.0	311.5	511.9	1183.6
107.5°	589.5	943.5	1627.1	840.3	367.4	840.3	1627.1	943.5	589.5	906.2	1561.3
110°	942.9	1318.4	1775.8	1150.6	742.4	1150.6	1775.8	1318.4	942.9	1244.5	1636.7



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CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL40

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1227.3	1469.2	1734.9	1275.6	1026.8	1275.6	1734.9	1469.2	1227.3	1373.8	1567.8
115°	1333.5	1447.7	1549.6	1271.2	1138.8	1271.2	1549.6	1447.7	1333.5	1341.5	1399.7
117.5°	1288.2	1324.9	1338.4	1193.7	1145.3	1193.7	1338.4	1324.9	1288.2	1206.4	1188.5
120°	1163.3	1148.2	1127.8	1079.5	1080.7	1079.5	1127.8	1148.2	1163.3	1053.4	992.4
122.5°	1006.6	974.2	953.3	963.7	992.3	963.7	953.3	974.2	1006.6	896.7	850.8
125°	853.6	821.2	831.1	864.6	893.8	864.6	831.1	821.2	853.6	761.5	750.1
127.5°	724.9	709.8	742.7	780.5	805.4	780.5	742.7	709.8	724.9	666.7	679.0
130°	632.8	636.5	680.2	712.2	727.9	712.2	680.2	636.5	632.8	604.8	634.4
132.5°	575.2	591.9	633.4	661.1	670.4	661.1	633.4	591.9	575.2	567.2	603.2
135°	539.2	563.9	601.7	619.5	623.0	619.5	601.7	563.9	539.2	542.0	575.2
137.5°	518.3	542.9	571.5	585.7	582.0	585.7	571.5	542.9	518.3	525.3	550.6
140°	505.9	530.6	543.5	559.8	556.8	559.8	543.5	530.6	505.9	510.2	529.6
142.5°	493.7	516.1	522.6	534.6	530.9	534.6	522.6	516.1	493.7	498.0	510.9
145°	487.8	504.5	499.5	515.2	510.0	515.2	499.5	504.5	487.8	489.4	496.4
147.5°	477.1	489.4	482.9	496.4	491.2	496.4	482.9	489.4	477.1	477.1	479.8
150°	464.7	473.3	464.1	479.8	478.9	479.8	464.1	473.3	464.7	462.6	465.3
152.5°	448.1	456.7	448.1	465.9	464.4	465.9	448.1	456.7	448.1	445.9	448.7
155°	434.2	438.5	434.2	452.0	452.6	452.0	434.2	438.5	434.2	433.6	434.8
157.5°	424.6	427.4	425.2	440.9	441.5	440.9	425.2	427.4	424.6	424.6	425.2
160°	416.3	420.6	419.0	432.5	433.1	432.5	419.0	420.6	416.3	417.8	418.4
162.5°	413.1	413.1	412.2	425.7	426.9	425.7	412.2	413.1	413.1	413.1	415.3
165°	408.5	410.6	407.5	417.4	420.8	417.4	407.5	410.6	408.5	410.0	410.0
167.5°	407.5	405.4	406.7	414.9	418.3	414.9	406.7	405.4	407.5	409.1	409.1
170°	403.8	404.5	403.6	411.8	415.2	411.8	403.6	404.5	403.8	406.0	407.5
172.5°	405.7	405.7	403.2	409.3	414.8	409.3	403.2	405.7	405.7	407.3	409.4
175°	406.9	405.4	404.4	408.4	413.9	408.4	404.4	405.4	406.9	406.3	406.3
177.5°	404.8	406.0	407.2	411.1	418.8	411.1	407.2	406.0	404.8	406.3	406.3
180°	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0



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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°	45.9	28.6	45.9	78.2	50.2	28.6
92.5°	69.6	41.5	69.6	125.6	65.2	37.2
95°	80.3	48.0	80.3	175.1	86.8	55.1
97.5°	88.9	61.5	88.9	201.0	106.2	85.2
100°	104.0	80.9	104.0	313.1	130.5	113.3
102.5°	220.4	137.0	220.4	664.3	244.7	171.4
105°	463.9	236.1	463.9	1183.6	511.9	311.5
107.5°	830.2	408.5	830.2	1561.3	906.2	589.5
110°	1101.7	761.9	1101.7	1636.7	1244.5	942.9



TEST NUMBER:

CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL40

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1183.6	1029.1	1183.6	1567.8	1373.8	1227.3
115°	1138.4	1082.9	1138.4	1399.7	1341.5	1333.5
117.5°	1039.2	1046.3	1039.2	1188.5	1206.4	1288.2
120°	925.0	968.7	925.0	992.4	1053.4	1163.3
122.5°	820.0	871.8	820.0	850.8	896.7	1006.6
125°	729.5	781.8	729.5	750.1	761.5	853.6
127.5°	667.0	702.1	667.0	679.0	666.7	724.9
130°	618.1	648.3	618.1	634.4	604.8	632.8
132.5°	584.2	603.6	584.2	603.2	567.2	575.2
135°	554.6	571.3	554.6	575.2	542.0	539.2
137.5°	529.4	543.9	529.4	550.6	525.3	518.3
140°	506.9	519.2	506.9	529.6	510.2	505.9
142.5°	483.8	492.4	483.8	510.9	498.0	493.7
145°	467.8	474.3	467.8	496.4	489.4	487.8
147.5°	454.0	458.3	454.0	479.8	477.1	477.1
150°	440.1	444.4	440.1	465.3	462.6	464.7
152.5°	425.6	430.5	425.6	448.7	445.9	448.1
155°	416.0	420.9	416.0	434.8	433.6	434.2
157.5°	410.7	414.1	410.7	425.2	424.6	424.6
160°	406.1	408.8	406.1	418.4	417.8	416.3
162.5°	400.8	403.6	400.8	415.3	413.1	413.1
165°	399.9	400.5	399.9	410.0	410.0	408.5
167.5°	398.3	400.5	398.3	409.1	409.1	407.5
170°	398.9	399.5	398.9	407.5	406.0	403.8
172.5°	400.2	400.8	400.2	409.4	407.3	405.7
175°	399.3	399.9	399.3	406.3	406.3	406.9
177.5°	402.0	402.6	402.0	406.3	406.3	404.8
180°	406.0	406.0	406.0	406.0	406.0	406.0



TEST NUMBER: CATALOG
 CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL40

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	17.84	18.90	18.37	19.41	19.97	17.16	18.22	17.69	18.73	19.29
	3H	19.38	20.33	19.93	20.85	21.45	19.00	19.95	19.55	20.47	21.07
	4H	20.02	20.90	20.59	21.44	22.06	19.78	20.67	20.35	21.21	21.82
	6H	20.50	21.31	21.08	21.86	22.49	20.42	21.24	21.00	21.79	22.42
	8H	20.65	21.42	21.24	21.99	22.62	20.64	21.41	21.24	21.99	22.62
	12H	20.72	21.45	21.31	22.02	22.68	20.77	21.50	21.37	22.07	22.73
4H	2H	18.25	19.13	18.82	19.67	20.29	17.73	18.61	18.30	19.15	19.77
	3H	20.04	20.77	20.62	21.36	21.99	19.78	20.51	20.36	21.10	21.73
	4H	20.82	21.48	21.42	22.07	22.74	20.69	21.35	21.29	21.94	22.61
	6H	21.43	22.00	22.05	22.62	23.30	21.46	22.03	22.08	22.64	23.33
	8H	21.63	22.16	22.25	22.77	23.46	21.73	22.26	22.36	22.87	23.57
	12H	21.73	22.20	22.37	22.84	23.54	21.90	22.36	22.54	23.01	23.70
8H	4H	21.06	21.59	21.69	22.21	22.90	20.97	21.50	21.59	22.11	22.80
	6H	21.81	22.24	22.46	22.90	23.60	21.87	22.30	22.53	22.96	23.66
	8H	22.08	22.46	22.75	23.13	23.84	22.22	22.61	22.90	23.28	23.99
	12H	22.25	22.58	22.92	23.24	24.02	22.47	22.81	23.14	23.46	24.24
12H	4H	21.07	21.54	21.72	22.19	22.88	20.98	21.44	21.62	22.09	22.78
	6H	21.85	22.23	22.52	22.90	23.62	21.92	22.30	22.59	22.97	23.68
	8H	22.17	22.50	22.84	23.15	23.94	22.32	22.65	22.99	23.31	24.09