

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: P1431779

Luminaire Tested: EHBR1-36-UNV-TASM-L840

Issue Date: 3/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1431779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-654-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-36-UNV-TASM-L840
Description: Elevate Round Highbay at, 36000 lumens, 4000K 80CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

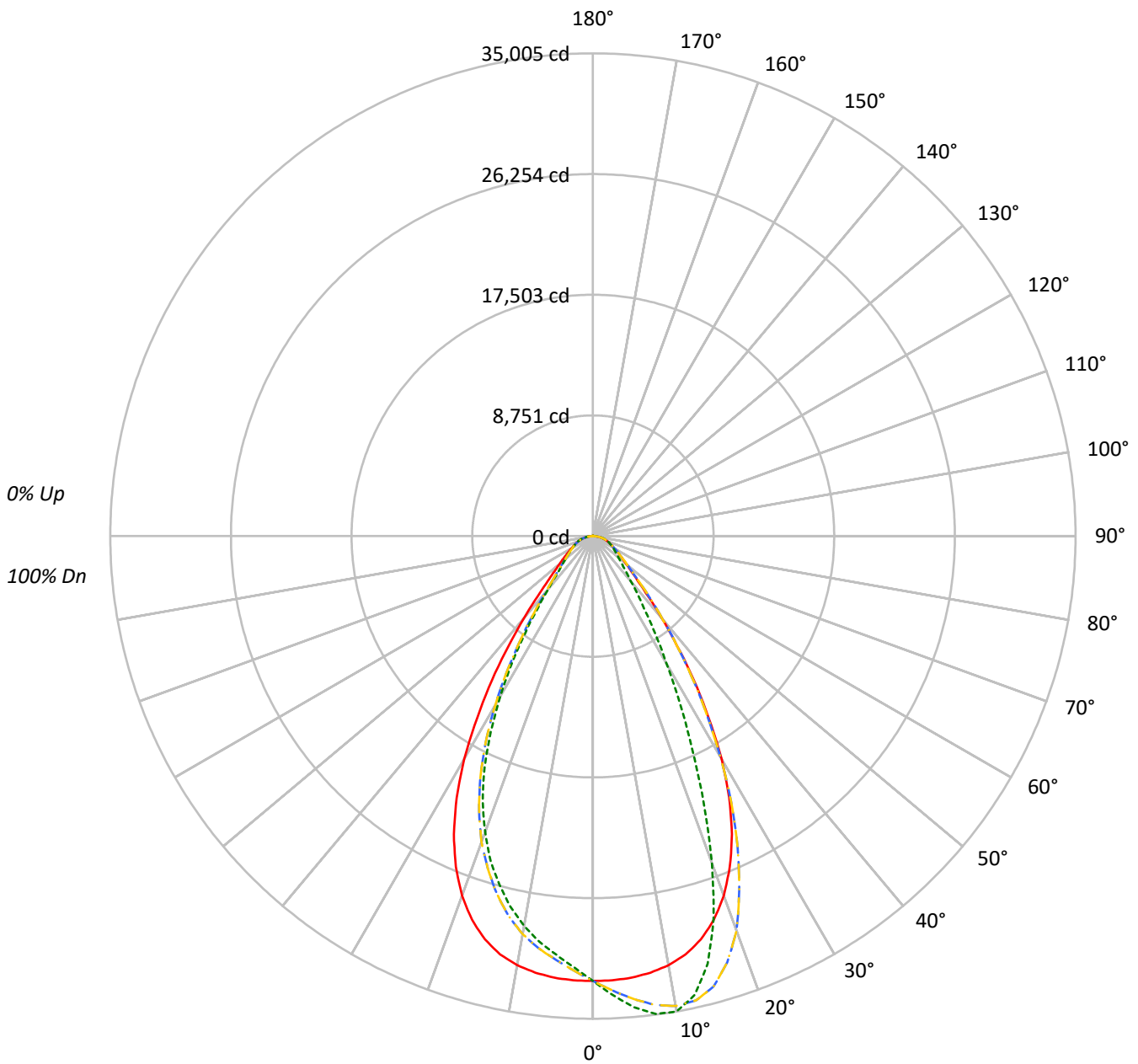
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36070.9 lumens
Efficiency: N/A
Efficacy: 188.5 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.84 / 0.9
Luminous Opening: Circular (Dia: 1.71' x H: 0')
CIE Type: Direct

Input Watts (W): 191.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P1431779
CATALOG NUMBER: EHBR1-36-UNV-TASM-L840

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	108	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	92	92	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	83	83	83	81
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	76	76	76	74
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	69	69	69	67
5	87	78	71	66	86	77	70	65	75	69	65	73	68	64	71	67	64	64	64	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	59	59	59	57
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	55	55	55	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	51	51	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	47	47	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	45	45	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	151494	151494	151494	151494
5°	151553	161679	151553	143688
10°	150675	166921	150675	136884
15°	147212	156167	147212	127296
20°	138646	126103	138646	114180
25°	123624	88020	123624	96398
30°	101181	57722	101181	72702
35°	73207	37710	73207	48825
40°	47796	26248	47796	31094
45°	30669	20561	30669	22405
50°	23078	17704	23078	18910
55°	19147	16389	19147	16963
60°	16919	15931	16919	16028
65°	15843	15782	15843	15716
70°	15598	16063	15598	15856
75°	15475	16486	15475	15992
80°	15131	17324	15131	16196
85°	12743	16100	12743	15351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 43119 cd/sqm



TEST NUMBER: P1431779
 CATALOG NUMBER: EHBR1-36-UNV-TASM-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3067.4	8.5
10°-20°	8345.0	23.1
20°-30°	9787.0	27.1
30°-40°	6806.2	18.9
40°-50°	3382.4	9.4
50°-60°	2023.0	5.6
60°-70°	1423.9	3.9
70°-80°	917.2	2.5
80°-90°	291.3	0.8
90°-100°	1.7	0.0
100°-110°	2.0	0.0
110°-120°	2.1	0.0
120°-130°	2.6	0.0
130°-140°	3.5	0.0
140°-150°	4.3	0.0
150°-160°	4.8	0.0
160°-170°	4.6	0.0
170°-180°	2.0	0.0
0°-30°	21199.4	58.8
0°-40°	28005.6	77.6
0°-60°	33411.0	92.6
0°-90°	36043.4	99.9
90°-120°	5.7	0.0
90°-150°	16.1	0.0
90°-180°	27.0	0.1
0°-180°	36070.9	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°	1	5	1	1	1	12
95°	1	5	1	1	1	1
105°	1	5	1	1	1	1
115°	2	5	2	1	2	2
125°	2	6	2	2	2	2
135°	5	7	5	2	5	4
145°	7	8	7	7	7	4
155°	10	11	10	12	10	5
165°	16	20	16	17	16	4
175°	21	26	21	21	21	2
180°	22	22	22	22	22	



TEST NUMBER: P1431779
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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°	0.6	1.2	1.8	3.6	4.8	3.6	1.8	1.2	0.6	0.6	0.6
92.5°	0.6	1.2	1.8	3.6	4.8	3.6	1.8	1.2	0.6	0.6	0.6
95°	1.2	1.2	1.8	3.6	4.8	3.6	1.8	1.2	1.2	0.6	0.6
97.5°	1.2	1.2	1.8	3.6	4.8	3.6	1.8	1.2	1.2	0.6	0.6
100°	1.2	1.2	1.8	3.6	4.8	3.6	1.8	1.2	1.2	1.2	0.6
102.5°	1.2	1.8	2.4	4.2	4.8	4.2	2.4	1.8	1.2	1.2	0.6
105°	1.2	1.8	2.4	4.2	5.4	4.2	2.4	1.8	1.2	1.2	0.6
107.5°	1.2	1.8	2.4	4.2	5.4	4.2	2.4	1.8	1.2	1.2	1.2
110°	1.2	1.8	2.4	4.2	5.4	4.2	2.4	1.8	1.2	1.2	1.2



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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°	1.2	1.8	2.4	4.2	5.4	4.2	2.4	1.8	1.2	1.2	1.2
115°	1.8	1.8	2.4	4.2	5.4	4.2	2.4	1.8	1.8	1.2	1.2
117.5°	1.8	1.8	2.4	4.2	5.4	4.2	2.4	1.8	1.8	1.8	1.2
120°	1.8	1.8	3.0	4.2	5.4	4.2	3.0	1.8	1.8	1.8	1.2
122.5°	2.4	2.4	3.0	4.8	5.4	4.8	3.0	2.4	2.4	2.4	1.8
125°	2.4	2.4	3.6	4.8	6.0	4.8	3.6	2.4	2.4	3.0	2.4
127.5°	3.0	3.0	3.6	4.8	6.0	4.8	3.6	3.0	3.0	3.0	2.4
130°	3.6	3.0	3.6	5.4	6.0	5.4	3.6	3.0	3.6	3.6	3.0
132.5°	4.2	3.6	4.2	6.0	6.7	6.0	4.2	3.6	4.2	4.8	4.2
135°	4.8	3.6	4.8	5.4	6.7	5.4	4.8	3.6	4.8	5.4	4.2
137.5°	5.4	4.2	4.8	6.0	6.7	6.0	4.8	4.2	5.4	6.0	5.4
140°	6.0	4.8	4.8	6.0	7.3	6.0	4.8	4.8	6.0	6.0	6.0
142.5°	6.7	5.4	5.4	6.7	7.3	6.7	5.4	5.4	6.7	6.7	6.7
145°	7.3	6.7	6.0	6.7	7.9	6.7	6.0	6.7	7.3	6.7	7.3
147.5°	7.3	6.7	6.7	7.3	8.5	7.3	6.7	6.7	7.3	7.3	7.9
150°	7.9	7.9	7.3	7.9	9.1	7.9	7.3	7.9	7.9	7.9	8.5
152.5°	8.5	8.5	8.5	9.1	9.7	9.1	8.5	8.5	8.5	8.5	9.1
155°	9.7	9.7	9.7	10.3	10.9	10.3	9.7	9.7	9.7	9.1	10.3
157.5°	10.9	11.5	11.5	12.1	12.7	12.1	11.5	11.5	10.9	10.9	11.5
160°	13.3	13.3	13.9	14.5	15.1	14.5	13.9	13.3	13.3	12.7	13.3
162.5°	14.5	14.5	15.7	16.3	17.5	16.3	15.7	14.5	14.5	14.5	14.5
165°	16.3	16.3	17.5	18.8	20.0	18.8	17.5	16.3	16.3	15.7	15.7
167.5°	17.5	17.5	18.8	20.6	21.8	20.6	18.8	17.5	17.5	16.9	16.9
170°	18.1	18.8	20.0	21.8	23.0	21.8	20.0	18.8	18.1	18.1	17.5
172.5°	20.0	20.0	21.8	23.6	24.8	23.6	21.8	20.0	20.0	19.4	19.4
175°	21.2	21.8	23.0	24.8	26.0	24.8	23.0	21.8	21.2	20.6	20.6
177.5°	21.2	22.4	23.6	25.4	26.6	25.4	23.6	22.4	21.2	20.6	20.6
180°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4



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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°	0.6	0.6	0.6	0.6	0.6	0.6
92.5°	0.6	0.6	0.6	0.6	0.6	0.6
95°	0.6	0.6	0.6	0.6	0.6	1.2
97.5°	0.6	1.2	0.6	0.6	0.6	1.2
100°	0.6	1.2	0.6	0.6	1.2	1.2
102.5°	0.6	1.2	0.6	0.6	1.2	1.2
105°	0.6	1.2	0.6	0.6	1.2	1.2
107.5°	0.6	1.2	0.6	1.2	1.2	1.2
110°	0.6	1.2	0.6	1.2	1.2	1.2



TEST NUMBER: P1431779
 CATALOG NUMBER: EHBR1-36-UNV-TASM-L840

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.6	1.2	0.6	1.2	1.2	1.2
115°	0.6	1.2	0.6	1.2	1.2	1.8
117.5°	0.6	1.2	0.6	1.2	1.8	1.8
120°	0.6	1.2	0.6	1.2	1.8	1.8
122.5°	1.2	1.2	1.2	1.8	2.4	2.4
125°	1.2	1.8	1.2	2.4	3.0	2.4
127.5°	1.2	1.8	1.2	2.4	3.0	3.0
130°	1.8	1.8	1.8	3.0	3.6	3.6
132.5°	2.4	2.4	2.4	4.2	4.8	4.2
135°	3.0	2.4	3.0	4.2	5.4	4.8
137.5°	3.6	3.0	3.6	5.4	6.0	5.4
140°	4.8	4.2	4.8	6.0	6.0	6.0
142.5°	5.4	5.4	5.4	6.7	6.7	6.7
145°	6.7	6.7	6.7	7.3	6.7	7.3
147.5°	7.9	7.9	7.9	7.9	7.3	7.3
150°	9.1	9.1	9.1	8.5	7.9	7.9
152.5°	9.7	10.3	9.7	9.1	8.5	8.5
155°	10.9	11.5	10.9	10.3	9.1	9.7
157.5°	12.1	13.3	12.1	11.5	10.9	10.9
160°	13.9	14.5	13.9	13.3	12.7	13.3
162.5°	15.1	15.7	15.1	14.5	14.5	14.5
165°	16.3	16.9	16.3	15.7	15.7	16.3
167.5°	16.9	16.9	16.9	16.9	16.9	17.5
170°	17.5	18.1	17.5	17.5	18.1	18.1
172.5°	18.8	19.4	18.8	19.4	19.4	20.0
175°	20.0	20.6	20.0	20.6	20.6	21.2
177.5°	20.6	21.2	20.6	20.6	20.6	21.2
180°	22.4	22.4	22.4	22.4	22.4	22.4



TEST NUMBER: P1431779
 CATALOG NUMBER: EHBR1-36-UNV-TASM-L840

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	19.09	20.30	19.46	20.61	20.93	18.41	19.62	18.78	19.93	20.25
	3H	20.73	21.81	21.11	22.14	22.51	20.36	21.44	20.74	21.77	22.14
	4H	21.44	22.44	21.84	22.79	23.18	21.22	22.22	21.63	22.58	22.96
	6H	22.01	22.93	22.43	23.30	23.70	21.97	22.89	22.39	23.27	23.66
	8H	22.21	23.08	22.65	23.48	23.88	22.26	23.13	22.69	23.52	23.93
	12H	22.34	23.17	22.77	23.55	23.98	22.46	23.29	22.89	23.67	24.11
4H	2H	19.56	20.56	19.96	20.91	21.30	19.04	20.04	19.45	20.40	20.78
	3H	21.47	22.29	21.88	22.70	23.10	21.22	22.04	21.63	22.45	22.86
	4H	22.32	23.06	22.76	23.49	23.93	22.22	22.96	22.65	23.38	23.82
	6H	23.05	23.69	23.51	24.13	24.60	23.11	23.75	23.58	24.20	24.67
	8H	23.31	23.90	23.78	24.35	24.82	23.46	24.05	23.93	24.50	24.98
	12H	23.47	24.00	23.96	24.48	24.96	23.71	24.23	24.20	24.72	25.19
8H	4H	22.63	23.23	23.10	23.68	24.15	22.56	23.15	23.03	23.60	24.08
	6H	23.51	23.99	24.01	24.49	24.98	23.61	24.09	24.12	24.59	25.08
	8H	23.86	24.29	24.39	24.81	25.31	24.06	24.49	24.58	25.01	25.50
	12H	24.12	24.50	24.64	24.99	25.57	24.41	24.79	24.93	25.29	25.87
12H	4H	22.66	23.19	23.15	23.67	24.15	22.59	23.11	23.08	23.60	24.07
	6H	23.58	24.01	24.11	24.53	25.03	23.68	24.11	24.21	24.63	25.13
	8H	24.00	24.37	24.51	24.87	25.45	24.20	24.58	24.72	25.07	25.65