

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-UPL30

Issue Date: 3/20/2026

Test Information

Test Method: LM-79-2019
Report Number: REPORT IS A COMBINATION OF REPORTS P1431776 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-UPL30
Description: Elevate Round Highbay at, 36000 lumens, 4000K 80CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

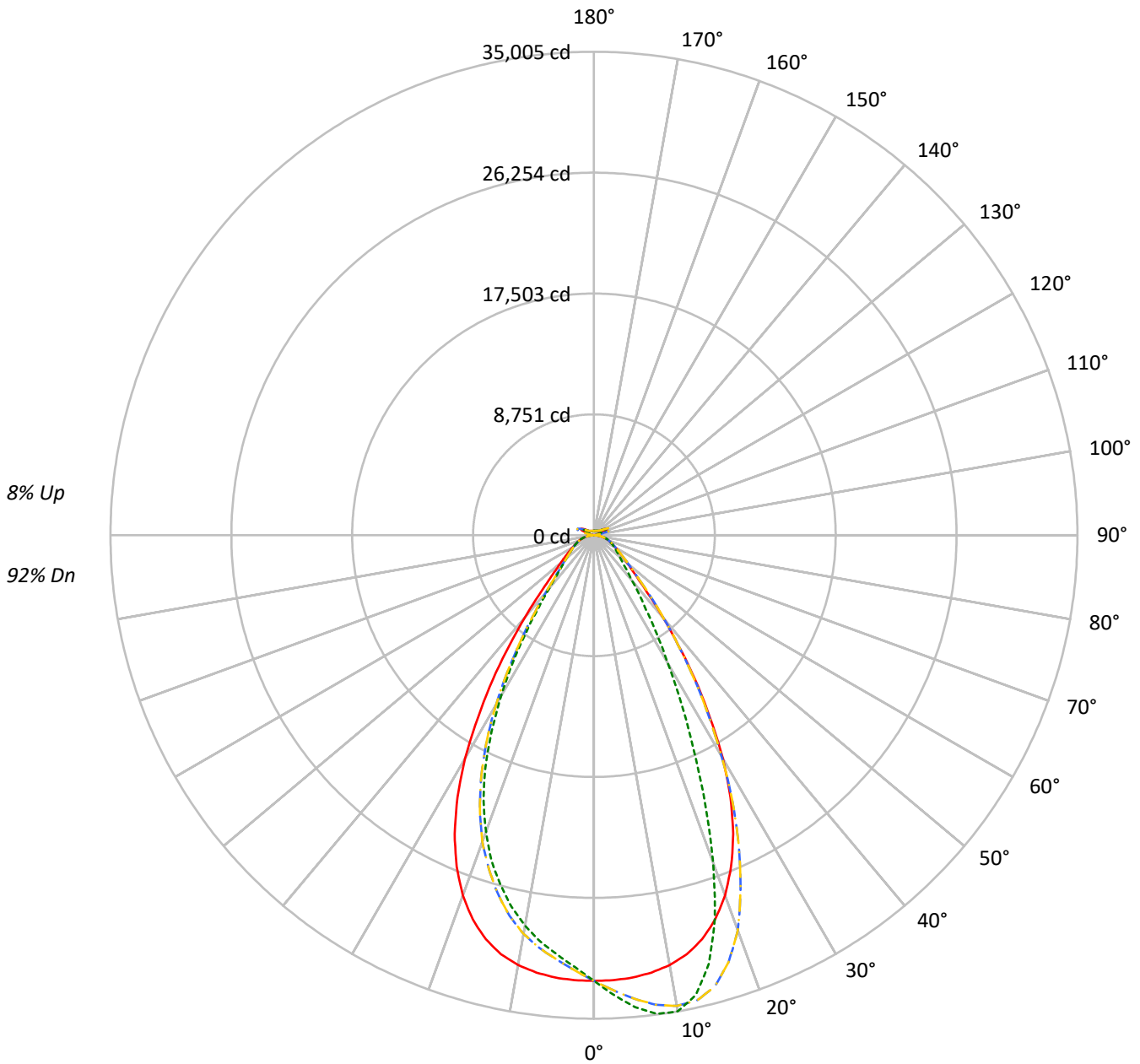
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39120.9 lumens
Efficiency: N/A
Efficacy: 183.3 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): 213.4
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

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	92
1	110	106	103	101	107	104	101	98	98	96	94	93	91	90	88	87	86	88	87	86	83
2	103	97	92	88	100	95	90	86	90	86	83	86	83	80	82	79	77	82	79	77	75
3	97	89	83	78	94	87	81	77	83	78	75	79	75	72	76	73	70	76	73	70	68
4	91	82	75	70	88	80	74	69	77	72	67	74	69	66	71	67	64	71	67	64	62
5	85	75	69	63	83	74	68	63	71	66	62	69	64	60	66	62	59	66	62	59	57
6	80	70	63	58	78	69	62	58	66	61	57	64	59	56	62	58	55	62	58	55	53
7	76	65	58	53	74	64	58	53	62	56	52	60	55	51	58	54	51	58	54	51	49
8	72	61	54	49	70	60	54	49	58	52	48	56	51	48	55	50	47	55	50	47	45
9	68	57	50	46	66	56	50	46	55	49	45	53	48	45	52	47	44	52	47	44	42
10	64	54	47	43	63	53	47	43	51	46	42	50	45	42	49	44	41	49	44	41	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	7.8
10°-20°	8345.0	21.3
20°-30°	9787.0	25.0
30°-40°	6806.2	17.4
40°-50°	3382.4	8.6
50°-60°	2023.0	5.2
60°-70°	1423.9	3.6
70°-80°	917.2	2.3
80°-90°	296.7	0.8
90°-100°	82.0	0.2
100°-110°	533.7	1.4
110°-120°	985.6	2.5
120°-130°	586.0	1.5
130°-140°	354.7	0.9
140°-150°	245.8	0.6
150°-160°	160.8	0.4
160°-170°	92.7	0.2
170°-180°	30.9	0.1
0°-30°	21199.4	54.2
0°-40°	28005.6	71.6
0°-60°	33411.0	85.4
0°-90°	36048.8	92.1
90°-120°	1601.3	4.1
90°-150°	2787.7	7.1
90°-180°	3072.0	7.9
0°-180°	39120.9	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°	23	27	23	23	23	22
95°	44	42	44	38	44	46
105°	245	126	245	186	245	331
115°	1049	897	1049	852	1049	956
125°	672	704	672	615	672	618
135°	425	491	425	450	425	337
145°	385	403	385	374	385	241
155°	344	358	344	333	344	160
165°	325	335	325	318	325	92
175°	324	331	324	319	324	31
180°	324	324	324	324	324	



TEST NUMBER:
 CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL30

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°	22.6	38.5	66.2	37.5	26.8	37.5	66.2	38.5	22.6	39.6	61.6
92.5°	29.4	52.0	93.3	49.3	35.3	49.3	93.3	52.0	29.4	51.4	98.9
95°	43.6	63.9	118.7	54.4	42.1	54.4	118.7	63.9	43.6	68.4	137.8
97.5°	67.3	79.1	134.0	57.8	50.5	57.8	134.0	79.1	67.3	83.6	158.2
100°	89.3	89.3	244.1	66.3	57.3	66.3	244.1	89.3	89.3	102.9	246.3
102.5°	135.1	174.6	564.9	131.3	69.2	131.3	564.9	174.6	135.1	192.7	522.4
105°	245.2	398.3	993.6	336.3	125.7	336.3	993.6	398.3	245.2	402.8	930.8
107.5°	463.7	742.2	1279.9	661.6	290.0	661.6	1279.9	742.2	463.7	712.8	1227.9
110°	741.6	1037.0	1396.8	905.6	584.9	905.6	1396.8	1037.0	741.6	978.8	1287.2



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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°	965.3	1155.6	1364.6	1003.8	808.5	1003.8	1364.6	1155.6	965.3	1080.5	1233.0
115°	1048.9	1138.7	1218.9	1000.5	896.6	1000.5	1218.9	1138.7	1048.9	1055.1	1100.8
117.5°	1013.3	1042.1	1052.9	939.5	901.7	939.5	1052.9	1042.1	1013.3	948.9	934.8
120°	915.0	903.2	887.4	849.7	850.9	849.7	887.4	903.2	915.0	828.6	780.6
122.5°	792.0	766.5	750.2	758.8	781.4	758.8	750.2	766.5	792.0	705.5	669.4
125°	671.7	646.2	654.2	680.8	704.1	680.8	654.2	646.2	671.7	599.4	590.3
127.5°	570.6	558.7	584.7	614.8	634.6	614.8	584.7	558.7	570.6	524.8	534.4
130°	498.3	501.1	535.6	561.1	573.6	561.1	535.6	501.1	498.3	476.3	499.4
132.5°	453.2	466.1	498.9	521.1	528.5	521.1	498.9	466.1	453.2	447.0	475.2
135°	425.0	444.1	474.1	488.3	491.3	488.3	474.1	444.1	425.0	427.3	453.2
137.5°	408.6	427.8	450.4	461.8	459.1	461.8	450.4	427.8	408.6	414.3	434.1
140°	399.1	418.2	428.4	441.4	439.4	441.4	428.4	418.2	399.1	402.5	417.7
142.5°	389.6	407.0	412.0	421.8	419.0	421.8	412.0	407.0	389.6	393.0	403.2
145°	385.1	398.1	394.0	406.6	402.7	406.6	394.0	398.1	385.1	386.2	391.9
147.5°	376.7	386.2	381.1	391.9	388.0	391.9	381.1	386.2	376.7	376.7	379.0
150°	367.1	373.9	366.5	379.0	378.5	379.0	366.5	373.9	367.1	365.4	367.7
152.5°	354.1	360.9	354.1	368.3	367.2	368.3	354.1	360.9	354.1	352.4	354.7
155°	343.5	346.9	343.5	357.6	358.2	357.6	343.5	346.9	343.5	342.9	344.1
157.5°	336.2	338.5	336.8	349.3	349.9	349.3	336.8	338.5	336.2	336.2	336.8
160°	330.1	333.5	332.4	343.2	343.8	343.2	332.4	333.5	330.1	331.2	331.8
162.5°	327.9	327.9	327.5	338.2	339.4	338.2	327.5	327.9	327.9	327.9	329.6
165°	324.7	326.4	324.2	332.2	335.1	332.2	324.2	326.4	324.7	325.8	325.8
167.5°	324.2	322.5	323.8	330.7	333.6	330.7	323.8	322.5	324.2	325.3	325.3
170°	321.4	322.1	321.6	328.5	331.4	328.5	321.6	322.1	321.4	323.1	324.2
172.5°	323.3	323.3	321.7	326.9	331.5	326.9	321.7	323.3	323.3	324.4	326.1
175°	324.5	323.4	322.9	326.4	331.0	326.4	322.9	323.4	324.5	323.9	323.9
177.5°	322.8	324.0	325.2	328.7	335.0	328.7	325.2	324.0	322.8	323.9	323.9
180°	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0	324.0



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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°	36.2	22.6	36.2	61.6	39.6	22.6
92.5°	54.8	32.8	54.8	98.9	51.4	29.4
95°	63.3	37.9	63.3	137.8	68.4	43.6
97.5°	70.1	48.6	70.1	158.2	83.6	67.3
100°	81.9	63.9	81.9	246.3	102.9	89.3
102.5°	173.4	107.9	173.4	522.4	192.7	135.1
105°	364.9	185.9	364.9	930.8	402.8	245.2
107.5°	652.9	321.4	652.9	1227.9	712.8	463.7
110°	866.4	599.3	866.4	1287.2	978.8	741.6



TEST NUMBER:

CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL30

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	930.8	809.4	930.8	1233.0	1080.5	965.3
115°	895.2	851.7	895.2	1100.8	1055.1	1048.9
117.5°	817.3	822.9	817.3	934.8	948.9	1013.3
120°	727.5	761.9	727.5	780.6	828.6	915.0
122.5°	645.0	685.7	645.0	669.4	705.5	792.0
125°	573.9	615.1	573.9	590.3	599.4	671.7
127.5°	524.7	552.5	524.7	534.4	524.8	570.6
130°	486.4	510.1	486.4	499.4	476.3	498.3
132.5°	459.9	475.1	459.9	475.2	447.0	453.2
135°	436.7	449.7	436.7	453.2	427.3	425.0
137.5°	417.0	428.3	417.0	434.1	414.3	408.6
140°	399.6	409.1	399.6	417.7	402.5	399.1
142.5°	381.5	388.3	381.5	403.2	393.0	389.6
145°	369.3	374.4	369.3	391.9	386.2	385.1
147.5°	358.6	362.0	358.6	379.0	376.7	376.7
150°	348.0	351.4	348.0	367.7	365.4	367.1
152.5°	336.7	340.7	336.7	354.7	352.4	354.1
155°	329.4	333.4	329.4	344.1	342.9	343.5
157.5°	325.5	328.4	325.5	336.8	336.2	336.2
160°	322.3	324.6	322.3	331.8	331.2	330.1
162.5°	318.4	320.7	318.4	329.6	327.9	327.9
165°	317.9	318.5	317.9	325.8	325.8	324.7
167.5°	316.8	318.5	316.8	325.3	325.3	324.2
170°	317.4	318.0	317.4	324.2	323.1	321.4
172.5°	318.7	319.3	318.7	326.1	324.4	323.3
175°	318.2	318.8	318.2	323.9	323.9	324.5
177.5°	320.5	321.1	320.5	323.9	323.9	322.8
180°	324.0	324.0	324.0	324.0	324.0	324.0



TEST NUMBER: CATALOG
 CATALOG NUMBER: EHBR1-36-UNV-TASM-L840-UPL30

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	17.99	19.08	18.49	19.55	20.06	17.31	18.40	17.81	18.87	19.38
	3H	19.54	20.50	20.05	20.99	21.55	19.15	20.12	19.67	20.61	21.17
	4H	20.17	21.08	20.71	21.58	22.16	19.93	20.84	20.47	21.35	21.92
	6H	20.65	21.48	21.20	22.01	22.59	20.58	21.41	21.13	21.93	22.52
	8H	20.80	21.59	21.37	22.13	22.72	20.80	21.59	21.36	22.13	22.72
	12H	20.87	21.63	21.44	22.16	22.77	20.93	21.68	21.49	22.21	22.83
4H	2H	18.40	19.31	18.94	19.81	20.39	17.88	18.79	18.42	19.29	19.87
	3H	20.20	20.95	20.75	21.50	22.09	19.94	20.68	20.49	21.24	21.83
	4H	20.97	21.65	21.54	22.21	22.83	20.84	21.52	21.41	22.08	22.71
	6H	21.59	22.17	22.18	22.75	23.40	21.61	22.19	22.21	22.78	23.43
	8H	21.78	22.32	22.38	22.91	23.56	21.88	22.43	22.48	23.01	23.66
	12H	21.89	22.36	22.50	22.98	23.64	22.05	22.53	22.67	23.15	23.80
8H	4H	21.22	21.76	21.82	22.35	23.00	21.12	21.66	21.72	22.25	22.90
	6H	21.96	22.40	22.59	23.04	23.69	22.03	22.47	22.66	23.10	23.76
	8H	22.23	22.62	22.88	23.27	23.94	22.38	22.77	23.03	23.42	24.09
	12H	22.40	22.75	23.05	23.37	24.12	22.63	22.97	23.27	23.60	24.34
12H	4H	21.23	21.71	21.85	22.32	22.98	21.13	21.61	21.75	22.23	22.88
	6H	22.01	22.40	22.65	23.04	23.71	22.07	22.46	22.72	23.11	23.78
	8H	22.32	22.66	22.96	23.29	24.04	22.48	22.82	23.12	23.44	24.19