

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: EHBR1-42-UNV-TASM-L840-UPL24

Issue Date: 3/20/2026

Test Information

Test Method: LM-79-2019
Report Number:
REPORT IS A COMBINATION OF REPORTS P1431807 AND P1431635
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: EHBR1-42-UNV-TASM-L840-UPL24
Description: Elevate Round Highbay at, 42000 lumens, 4000K 80CRI LEDs with TASM lens
Light Source: -
Ballast/Driver: -

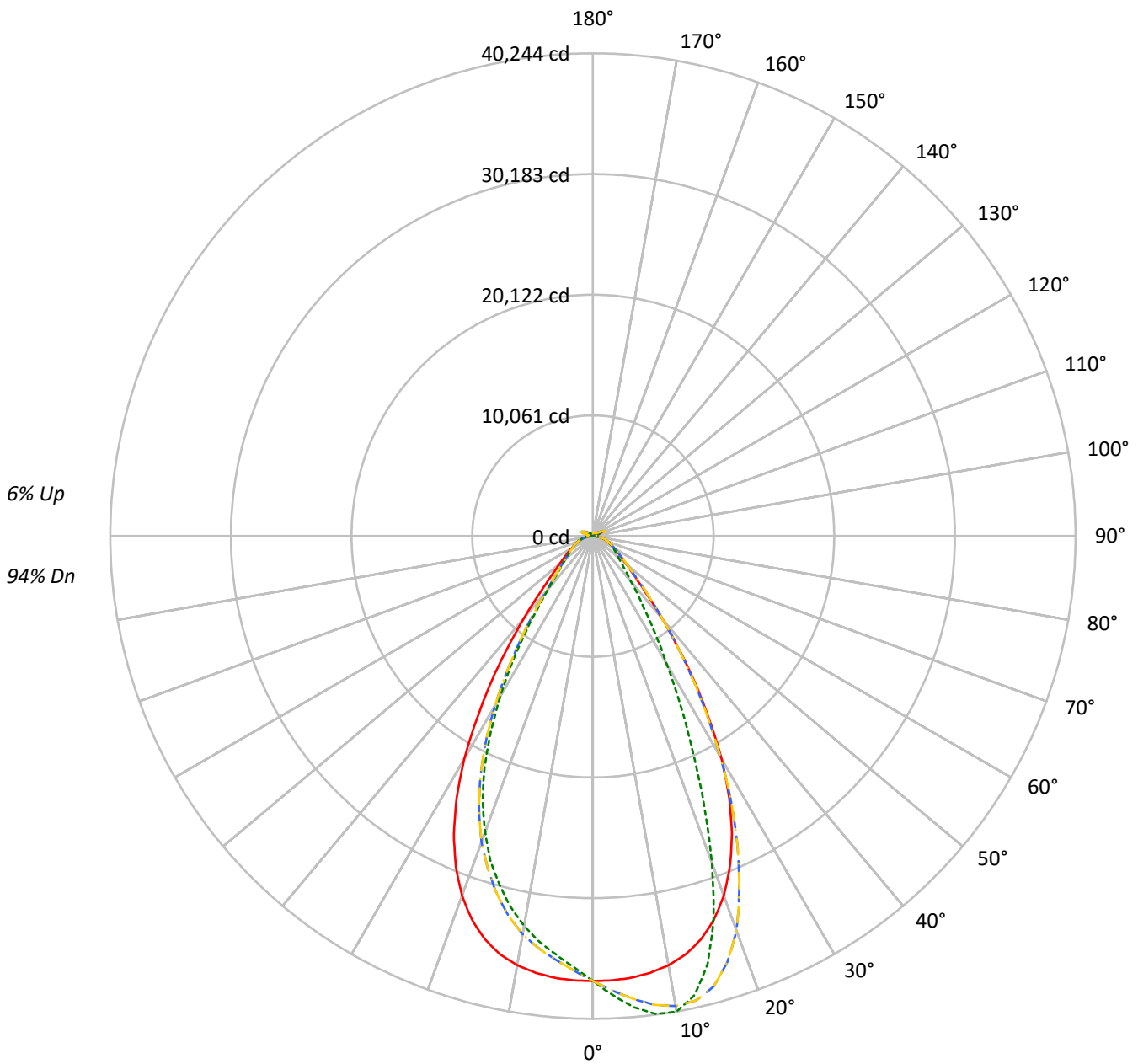
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43903.1 lumens
Efficiency: N/A
Efficacy: 182.2 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): 240.9
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

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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	97	97	97	97	97	97	94
1	111	107	104	101	107	104	102	99	99	97	95	94	93	91	90	89	87	87	87	87	85
2	104	98	93	88	101	95	91	87	91	87	84	87	84	82	84	81	79	79	79	79	77
3	97	89	83	79	94	87	82	78	84	79	76	81	77	74	78	75	72	72	72	72	70
4	91	82	76	71	89	81	75	70	78	73	68	75	71	67	72	69	66	66	66	66	64
5	86	76	69	64	84	75	68	64	72	67	62	70	65	61	68	64	60	60	60	60	59
6	81	71	64	59	79	69	63	58	67	62	57	65	60	57	63	59	56	56	56	56	54
7	76	66	59	54	75	65	58	54	63	57	53	61	56	52	60	55	52	52	52	52	50
8	72	61	55	50	71	61	54	50	59	53	49	57	52	49	56	52	48	48	48	48	47
9	68	58	51	47	67	57	51	46	55	50	46	54	49	45	53	48	45	45	45	45	43
10	65	54	48	44	64	54	47	43	52	47	43	51	46	43	50	45	42	42	42	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	174169	174169	174169	174169
5°	173108	184675	173108	164125
10°	170980	189415	170980	155331
15°	165932	176026	165932	143484
20°	155188	141149	155188	127804
25°	137354	97796	137354	107105
30°	111526	63623	111526	80136
35°	79990	41204	79990	53348
40°	51716	28400	51716	33644
45°	32814	21999	32814	23972
50°	24368	18694	24368	19968
55°	19895	17029	19895	17625
60°	17228	16222	17228	16320
65°	15705	15644	15705	15578
70°	14885	15329	14885	15130
75°	13920	14829	13920	14385
80°	12228	14000	12228	13088
85°	7911	9997	7911	9532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 46134 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3526.5	8.0
10°-20°	9594.1	21.9
20°-30°	11251.9	25.6
30°-40°	7825.0	17.8
40°-50°	3888.6	8.9
50°-60°	2325.8	5.3
60°-70°	1637.0	3.7
70°-80°	1054.5	2.4
80°-90°	339.2	0.8
90°-100°	66.0	0.2
100°-110°	426.5	1.0
110°-120°	787.0	1.8
120°-130°	468.4	1.1
130°-140°	284.3	0.6
140°-150°	197.5	0.4
150°-160°	129.9	0.3
160°-170°	75.6	0.2
170°-180°	25.3	0.1
0°-30°	24372.4	55.5
0°-40°	32197.4	73.3
0°-60°	38411.9	87.5
0°-90°	41442.6	94.4
90°-120°	1279.4	2.9
90°-150°	2229.7	5.1
90°-180°	2460.0	5.6
0°-180°	43903.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	37088	37088	37088	37088	37088	
5°	36961	39431	36961	35043	36961	3508
15°	34812	36929	34812	30102	34812	9729
25°	27430	19530	27430	21389	27430	12418
35°	14681	7562	14681	9791	14681	9165
45°	5309	3559	5309	3879	5309	4344
55°	2689	2301	2689	2382	2689	2459
65°	1639	1633	1639	1626	1639	1646
75°	981	1045	981	1013	981	1029
85°	272	344	272	328	272	302
90°	18	23	18	18	18	21
95°	35	35	35	30	35	37
105°	196	102	196	149	196	264
115°	837	717	837	680	837	763
125°	537	564	537	491	537	494
135°	341	394	341	360	341	270
145°	310	324	310	301	310	194
155°	277	290	277	270	277	130
165°	265	274	265	260	265	75
175°	266	273	266	262	266	25
180°	266	266	266	266	266	



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°	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0
2.5°	37066.4	37545.6	37933.6	38189.6	38316.1	38189.6	37933.6	37545.6	37066.4	36590.0	36262.5
5°	36961.4	37921.1	38734.1	39266.1	39431.0	39266.1	38734.1	37921.1	36961.4	36054.5	35453.0
7.5°	36710.3	38205.6	39413.6	40034.6	40186.2	40034.6	39413.6	38205.6	36710.3	35426.5	34666.4
10°	36327.1	38385.0	39780.8	40225.9	40243.9	40225.9	39780.8	38385.0	36327.1	34597.5	33701.1
12.5°	35715.8	38321.0	39657.7	39511.6	39179.9	39511.6	39657.7	38321.0	35715.8	33585.0	32454.1
15°	34811.7	37942.0	38878.1	37689.5	36929.4	37689.5	38878.1	37942.0	34811.7	32217.7	30906.1
17.5°	33537.7	37232.6	37250.7	34899.4	33465.3	34899.4	37250.7	37232.6	33537.7	30545.8	29101.4
20°	31895.7	36094.9	35009.9	30709.2	29010.2	30709.2	35009.9	36094.9	31895.7	28569.3	27152.0
22.5°	29837.1	34560.7	31889.4	26494.1	24176.1	26494.1	31889.4	34560.7	29837.1	26270.8	24795.8
25°	27429.5	32680.9	28532.5	21901.3	19529.8	21901.3	28532.5	32680.9	27429.5	23532.1	22198.3
27.5°	24597.6	30298.2	24957.8	17896.9	15709.0	17896.9	24957.8	30298.2	24597.6	20704.4	19342.0
30°	21452.0	27243.8	21237.8	14252.7	12237.9	14252.7	21237.8	27243.8	21452.0	17527.6	16307.7
32.5°	17930.2	24249.9	17665.3	11420.1	9713.4	11420.1	17665.3	24249.9	17930.2	14496.1	13221.3
35°	14681.1	20504.1	14443.9	8973.5	7562.4	8973.5	14443.9	20504.1	14681.1	11634.3	10382.5
37.5°	11521.6	16965.0	11514.0	7225.8	6133.9	7225.8	11514.0	16965.0	11521.6	9045.1	8029.0
40°	8963.7	13265.1	9021.5	5768.1	4922.4	5768.1	9021.5	13265.1	8963.7	6882.2	6232.0
42.5°	6791.8	10143.2	7090.9	4734.0	4181.1	4734.0	7090.9	10143.2	6791.8	5422.5	4935.7
45°	5309.1	7464.3	5537.2	3994.0	3559.3	3994.0	5537.2	7464.3	5309.1	4366.8	4039.9
47.5°	4323.6	5768.8	4487.8	3425.8	3121.2	3425.8	4487.8	5768.8	4323.6	3693.6	3448.8
50°	3631.7	4426.6	3726.3	2990.5	2786.0	2990.5	3726.3	4426.6	3631.7	3162.9	2999.5
52.5°	3119.8	3610.1	3173.4	2665.0	2527.3	2665.0	3173.4	3610.1	3119.8	2767.2	2665.7
55°	2688.6	3035.0	2759.6	2396.5	2301.3	2396.5	2759.6	3035.0	2688.6	2462.6	2387.5
57.5°	2361.1	2574.6	2396.5	2167.7	2104.4	2167.7	2396.5	2574.6	2361.1	2191.4	2151.0
60°	2071.1	2229.6	2114.9	1968.1	1950.1	1968.1	2114.9	2229.6	2071.1	1971.6	1945.2
62.5°	1847.8	1948.0	1870.1	1788.7	1772.7	1788.7	1870.1	1948.0	1847.8	1771.3	1776.2
65°	1639.2	1732.4	1671.2	1627.4	1632.9	1627.4	1671.2	1732.4	1639.2	1603.7	1611.4
67.5°	1477.8	1526.5	1500.1	1475.1	1481.3	1475.1	1500.1	1526.5	1477.8	1443.1	1454.9
70°	1306.1	1358.2	1331.1	1334.6	1345.0	1334.6	1331.1	1358.2	1306.1	1295.6	1304.7
72.5°	1141.9	1182.3	1173.2	1181.6	1192.7	1181.6	1173.2	1182.3	1141.9	1140.5	1141.2
75°	980.6	1011.2	1015.4	1027.2	1044.6	1027.2	1015.4	1011.2	980.6	970.2	982.7
77.5°	804.6	839.4	852.6	868.6	894.4	868.6	852.6	839.4	804.6	811.6	817.9
80°	643.3	659.3	688.5	700.3	736.5	700.3	688.5	659.3	643.3	631.5	640.5
82.5°	470.8	485.4	510.5	532.7	553.6	532.7	510.5	485.4	470.8	465.3	466.0
85°	271.9	294.2	310.9	337.3	343.6	337.3	310.9	294.2	271.9	278.2	271.9
87.5°	95.3	102.2	116.8	127.3	128.0	127.3	116.8	102.2	95.3	97.4	88.3
90°	18.3	31.1	53.5	31.2	23.2	31.2	53.5	31.1	18.3	31.8	49.4
92.5°	23.7	41.9	75.1	40.7	29.9	40.7	75.1	41.9	23.7	41.2	79.1
95°	35.2	51.4	95.4	44.7	35.3	44.7	95.4	51.4	35.2	54.8	110.2
97.5°	54.1	63.6	107.5	47.5	42.1	47.5	107.5	63.6	54.1	66.9	126.4
100°	71.7	71.7	195.4	54.2	47.5	54.2	195.4	71.7	71.7	82.5	196.7
102.5°	108.2	140.0	451.5	106.3	57.0	106.3	451.5	140.0	108.2	154.1	417.0
105°	196.0	318.4	793.5	269.8	102.3	269.8	793.5	318.4	196.0	321.7	742.7
107.5°	370.4	592.7	1021.9	529.3	233.4	529.3	1021.9	592.7	370.4	569.1	979.9
110°	592.0	827.9	1115.1	723.9	468.5	723.9	1115.1	827.9	592.0	781.3	1027.2



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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°	770.4	922.5	1089.5	802.3	646.9	802.3	1089.5	922.5	770.4	862.3	984.0
115°	837.4	909.0	973.2	799.6	717.2	799.6	973.2	909.0	837.4	842.1	878.6
117.5°	809.0	832.0	840.8	751.0	721.3	751.0	840.8	832.0	809.0	757.6	746.1
120°	730.6	721.1	709.0	679.3	680.7	679.3	709.0	721.1	730.6	661.7	623.1
122.5°	632.6	612.4	599.5	607.0	625.3	607.0	599.5	612.4	632.6	563.7	534.6
125°	536.7	516.4	523.2	544.9	563.8	544.9	523.2	516.4	536.7	479.3	471.8
127.5°	456.3	446.8	467.8	492.2	508.4	492.2	467.8	446.8	456.3	419.8	427.2
130°	398.9	400.9	428.6	449.6	459.8	449.6	428.6	400.9	398.9	381.3	399.5
132.5°	363.1	373.2	399.6	417.9	424.0	417.9	399.6	373.2	363.1	358.4	380.6
135°	340.8	355.6	380.0	391.5	394.2	391.5	380.0	355.6	340.8	342.8	363.1
137.5°	328.0	342.8	361.1	370.6	368.6	370.6	361.1	342.8	328.0	332.7	348.2
140°	320.6	335.4	343.5	354.4	352.9	354.4	343.5	335.4	320.6	323.3	335.4
142.5°	313.2	326.6	330.7	338.8	336.7	338.8	330.7	326.6	313.2	315.9	324.0
145°	309.7	319.9	316.5	326.7	323.9	326.7	316.5	319.9	309.7	310.5	315.1
147.5°	302.9	310.5	306.4	315.1	312.5	315.1	306.4	310.5	302.9	302.9	305.0
150°	295.5	300.9	294.8	305.0	305.0	305.0	294.8	300.9	295.5	294.2	296.2
152.5°	285.4	290.8	285.4	296.9	296.3	296.9	285.4	290.8	285.4	284.1	286.1
155°	277.4	280.1	277.4	288.9	289.6	288.9	277.4	280.1	277.4	276.7	278.1
157.5°	272.0	274.1	272.7	282.9	283.6	282.9	272.7	274.1	272.0	272.0	272.7
160°	268.0	270.7	270.1	278.9	279.6	278.9	270.1	270.7	268.0	268.7	269.4
162.5°	266.7	266.7	266.8	275.6	277.0	275.6	266.8	266.7	266.7	266.7	268.1
165°	264.8	266.1	264.8	271.6	274.4	271.6	264.8	266.1	264.8	265.4	265.4
167.5°	264.8	263.5	264.9	270.9	273.7	270.9	264.9	263.5	264.8	265.5	265.5
170°	262.8	263.5	263.6	269.6	272.4	269.6	263.6	263.5	262.8	264.2	264.8
172.5°	264.9	264.9	264.2	269.0	273.1	269.0	264.2	264.9	264.9	265.6	266.9
175°	266.2	265.6	265.6	269.1	273.2	269.1	265.6	265.6	266.2	265.5	265.5
177.5°	264.9	266.3	267.7	271.1	276.6	271.1	267.7	266.3	264.9	265.5	265.5
180°	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3	266.3



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	37088.0	37088.0	37088.0	37088.0	37088.0	37088.0
2.5°	36010.7	35987.1	36010.7	36262.5	36590.0	37066.4
5°	35174.1	35043.3	35174.1	35453.0	36054.5	36961.4
7.5°	34199.7	34123.9	34199.7	34666.4	35426.5	36710.3
10°	33173.9	33002.2	33173.9	33701.1	34597.5	36327.1
12.5°	31909.6	31682.2	31909.6	32454.1	33585.0	35715.8
15°	30301.7	30102.1	30301.7	30906.1	32217.7	34811.7
17.5°	28576.3	28395.5	28576.3	29101.4	30545.8	33537.7
20°	26409.2	26267.4	26409.2	27152.0	28569.3	31895.7
22.5°	24135.8	24003.0	24135.8	24795.8	26270.8	29837.1
25°	21461.1	21388.7	21461.1	22198.3	23532.1	27429.5
27.5°	18570.8	18447.7	18570.8	19342.0	20704.4	24597.6
30°	15617.9	15414.1	15617.9	16307.7	17527.6	21452.0
32.5°	12729.6	12582.9	12729.6	13221.3	14496.1	17930.2
35°	9938.1	9791.3	9938.1	10382.5	11634.3	14681.1
37.5°	7743.9	7484.5	7743.9	8029.0	9045.1	11521.6
40°	5873.1	5831.4	5873.1	6232.0	6882.2	8963.7
42.5°	4781.3	4667.9	4781.3	4935.7	5422.5	6791.8
45°	3923.1	3878.6	3923.1	4039.9	4366.8	5309.1
47.5°	3373.7	3393.1	3373.7	3448.8	3693.6	4323.6
50°	2964.0	2975.9	2964.0	2999.5	3162.9	3631.7
52.5°	2662.2	2651.8	2662.2	2665.7	2767.2	3119.8
55°	2395.2	2381.9	2395.2	2387.5	2462.6	2688.6
57.5°	2161.5	2171.2	2161.5	2151.0	2191.4	2361.1
60°	1952.8	1961.9	1952.8	1945.2	1971.6	2071.1
62.5°	1776.9	1782.5	1776.9	1776.2	1771.3	1847.8
65°	1619.7	1626.0	1619.7	1611.4	1603.7	1639.2
67.5°	1469.5	1469.5	1469.5	1454.9	1443.1	1477.8
70°	1328.3	1327.6	1328.3	1304.7	1295.6	1306.1
72.5°	1158.6	1175.3	1158.6	1141.2	1140.5	1141.9
75°	993.8	1013.3	993.8	982.7	970.2	980.6
77.5°	826.9	856.8	826.9	817.9	811.6	804.6
80°	655.8	688.5	655.8	640.5	631.5	643.3
82.5°	484.7	509.1	484.7	466.0	465.3	470.8
85°	288.6	327.6	288.6	271.9	278.2	271.9
87.5°	92.5	118.2	92.5	88.3	97.4	95.3
90°	29.1	18.3	29.1	49.4	31.8	18.3
92.5°	44.0	26.4	44.0	79.1	41.2	23.7
95°	50.7	30.4	50.7	110.2	54.8	35.2
97.5°	56.1	39.2	56.1	126.4	66.9	54.1
100°	65.6	51.4	65.6	196.7	82.5	71.7
102.5°	138.6	86.5	138.6	417.0	154.1	108.2
105°	291.3	148.7	291.3	742.7	321.7	196.0
107.5°	521.1	256.8	521.1	979.9	569.1	370.4
110°	691.3	478.5	691.3	1027.2	781.3	592.0



TEST NUMBER:

CATALOG NUMBER: EHBR1-42-UNV-TASM-L840-UPL24

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	742.7	646.1	742.7	984.0	862.3	770.4
115°	714.3	679.9	714.3	878.6	842.1	837.4
117.5°	652.2	656.9	652.2	746.1	757.6	809.0
120°	580.5	608.3	580.5	623.1	661.7	730.6
122.5°	515.0	547.4	515.0	534.6	563.7	632.6
125°	458.2	491.4	458.2	471.8	479.3	536.7
127.5°	419.0	441.4	419.0	427.2	419.8	456.3
130°	388.6	407.6	388.6	399.5	381.3	398.9
132.5°	367.7	379.9	367.7	380.6	358.4	363.1
135°	349.5	359.6	349.5	363.1	342.8	340.8
137.5°	334.0	342.7	334.0	348.2	332.7	328.0
140°	320.5	327.9	320.5	335.4	323.3	320.6
142.5°	306.3	311.8	306.3	324.0	315.9	313.2
145°	296.9	301.0	296.9	315.1	310.5	309.7
147.5°	288.8	291.5	288.8	305.0	302.9	302.9
150°	280.7	283.4	280.7	296.2	294.2	295.5
152.5°	272.0	275.4	272.0	286.1	284.1	285.4
155°	266.6	270.0	266.6	278.1	276.7	277.4
157.5°	263.9	266.7	263.9	272.7	272.0	272.0
160°	262.0	264.0	262.0	269.4	268.7	268.0
162.5°	259.3	261.4	259.3	268.1	266.7	266.7
165°	259.4	260.1	259.4	265.4	265.4	264.8
167.5°	258.7	260.1	258.7	265.5	265.5	264.8
170°	259.4	260.1	259.4	264.8	264.2	262.8
172.5°	260.8	261.5	260.8	266.9	265.6	264.9
175°	260.9	261.5	260.9	265.5	265.5	266.2
177.5°	262.8	263.5	262.8	265.5	265.5	264.9
180°	266.3	266.3	266.3	266.3	266.3	266.3



TEST NUMBER: CATALOG
 CATALOG NUMBER: EHBR1-42-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	18.65	19.77	19.12	20.20	20.66	17.97	19.09	18.44	19.52	19.98
	3H	20.20	21.20	20.68	21.64	22.15	19.82	20.82	20.30	21.26	21.77
	4H	20.84	21.77	21.34	22.23	22.75	20.60	21.53	21.10	22.00	22.52
	6H	21.32	22.17	21.83	22.66	23.19	21.24	22.10	21.76	22.58	23.11
	8H	21.47	22.28	22.00	22.78	23.32	21.47	22.27	22.00	22.78	23.32
	12H	21.54	22.31	22.07	22.81	23.37	21.59	22.37	22.12	22.86	23.42
4H	2H	19.07	20.00	19.57	20.46	20.99	18.55	19.48	19.05	19.94	20.46
	3H	20.87	21.63	21.38	22.15	22.69	20.60	21.37	21.12	21.89	22.43
	4H	21.64	22.33	22.17	22.86	23.43	21.51	22.20	22.05	22.73	23.30
	6H	22.26	22.85	22.81	23.40	24.00	22.28	22.88	22.84	23.43	24.03
	8H	22.45	23.01	23.02	23.56	24.16	22.55	23.11	23.12	23.66	24.26
	12H	22.56	23.05	23.14	23.63	24.23	22.72	23.21	23.30	23.79	24.40
8H	4H	21.89	22.45	22.45	22.99	23.60	21.79	22.35	22.36	22.90	23.50
	6H	22.63	23.08	23.23	23.68	24.29	22.70	23.15	23.29	23.74	24.35
	8H	22.90	23.30	23.52	23.91	24.54	23.05	23.45	23.66	24.06	24.68
	12H	23.07	23.43	23.68	24.02	24.72	23.30	23.65	23.91	24.24	24.94
12H	4H	21.90	22.39	22.48	22.97	23.58	21.80	22.29	22.38	22.87	23.48
	6H	22.67	23.08	23.29	23.69	24.31	22.74	23.14	23.36	23.75	24.38
	8H	22.99	23.34	23.60	23.94	24.63	23.15	23.50	23.75	24.09	24.79