

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: EHBR1-54-UNV-TASM-L840-UPL24

Issue Date: 3/20/2026

**Test Information**

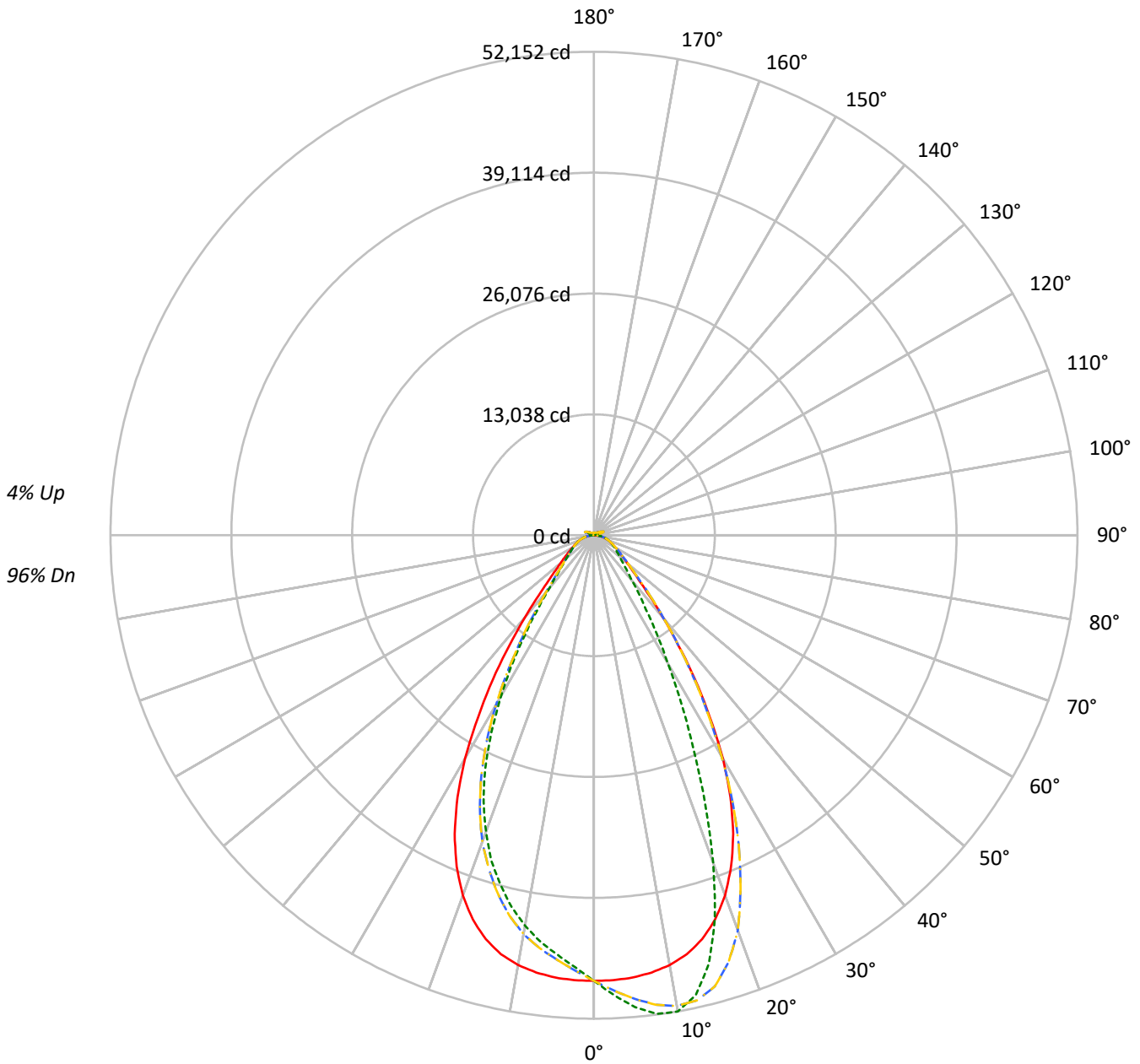
Test Method: LM-79-2019  
Report Number: REPORT IS A COMBINATION OF REPORTS P1431871 AND P1431635  
Test Lab: INNOVATION CENTER  
Issue Date: 3/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: EHBR1-54-UNV-TASM-L840-UPL24  
Description: Elevate Round Highbay at, 54000 lumens, 4000K 80CRI LEDs with TASM lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 56174.0 lumens  
Efficiency: N/A  
Efficacy: 179.8 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): 312.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: EHBR1-54-UNV-TASM-L840-UPL24

### 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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	96
1	111	107	104	101	108	105	102	99	100	98	96	95	94	92	91	90	88	88	88	88	86
2	104	98	93	89	101	96	91	87	92	88	85	88	85	82	85	82	80	85	82	80	78
3	97	90	84	79	95	88	82	78	85	80	76	81	78	74	79	75	73	79	75	73	71
4	92	83	76	71	89	81	75	70	78	73	69	76	71	68	73	70	66	73	70	66	65
5	86	76	70	65	84	75	69	64	73	67	63	71	66	62	68	64	61	68	64	61	59
6	81	71	64	59	79	70	63	59	68	62	58	66	61	57	64	60	56	64	60	56	55
7	77	66	59	54	75	65	59	54	63	58	54	62	57	53	60	56	52	60	56	52	51
8	73	62	55	50	71	61	55	50	59	54	50	58	53	49	57	52	49	57	52	49	47
9	69	58	51	47	67	57	51	47	56	50	46	55	50	46	54	49	46	54	49	46	44
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	51	46	43	51	46	43	41

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	225705	225705	225705	225705
5°	224331	239320	224331	212690
10°	221574	245464	221574	201293
15°	215032	228112	215032	185940
20°	201109	182915	201109	165621
25°	177997	126734	177997	138797
30°	144527	82450	144527	103848
35°	103659	53396	103659	69134
40°	67019	36804	67019	43600
45°	42523	28509	42523	31065
50°	31579	24225	31579	25876
55°	25782	22068	25782	22842
60°	22326	21021	22326	21149
65°	20351	20274	20351	20187
70°	19289	19864	19289	19608
75°	18040	19217	18040	18640
80°	15846	18142	15846	16960
85°	10253	12953	10253	12351

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 59785 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4570.0	8.1
10°-20°	12433.0	22.1
20°-30°	14581.3	26.0
30°-40°	10140.4	18.1
40°-50°	5039.3	9.0
50°-60°	3014.0	5.4
60°-70°	2121.4	3.8
70°-80°	1366.5	2.4
80°-90°	438.4	0.8
90°-100°	66.6	0.1
100°-110°	427.1	0.8
110°-120°	787.7	1.4
120°-130°	469.3	0.8
130°-140°	285.4	0.5
140°-150°	199.0	0.4
150°-160°	131.5	0.2
160°-170°	77.1	0.1
170°-180°	26.0	0.0
0°-30°	31584.3	56.2
0°-40°	41724.6	74.3
0°-60°	49778.0	88.6
0°-90°	53704.3	95.6
90°-120°	1281.4	2.3
90°-150°	2235.0	4.0
90°-180°	2470.0	4.4
0°-180°	56174.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	48062	48062	48062	48062	48062	
5°	47898	51099	47898	45413	47898	4546
15°	45113	47857	45113	39009	45113	12607
25°	35546	25309	35546	27718	35546	16093
35°	19025	9800	19025	12689	19025	11877
45°	6880	4613	6880	5026	6880	5630
55°	3484	2982	3484	3087	3484	3186
65°	2124	2116	2124	2107	2124	2133
75°	1271	1354	1271	1313	1271	1334
85°	352	445	352	424	352	392
90°	18	25	18	18	18	25
95°	36	37	36	31	36	38
105°	196	104	196	149	196	265
115°	838	719	838	680	838	764
125°	538	566	538	492	538	495
135°	342	396	342	360	342	271
145°	312	327	312	303	312	196
155°	281	293	281	274	281	131
165°	270	281	270	266	270	77
175°	273	282	273	268	273	26
180°	274	274	274	274	274	



TEST NUMBER:  
 CATALOG NUMBER: EHBR1-54-UNV-TASM-L840-UPL24

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3
2.5°	48034.4	48655.3	49158.2	49489.9	49653.9	49489.9	49158.2	48655.3	48034.4	47417.0	46992.5
5°	47898.3	49142.0	50195.6	50885.0	51098.6	50885.0	50195.6	49142.0	47898.3	46723.1	45943.5
7.5°	47572.9	49510.6	51076.1	51880.9	52077.4	51880.9	51076.1	49510.6	47572.9	45909.3	44924.2
10°	47076.4	49743.1	51551.9	52128.7	52152.2	52128.7	51551.9	49743.1	47076.4	44835.0	43673.3
12.5°	46284.2	49660.2	51392.4	51203.2	50773.3	51203.2	51392.4	49660.2	46284.2	43522.8	42057.3
15°	45112.6	49169.0	50382.1	48841.9	47856.8	48841.9	50382.1	49169.0	45112.6	41750.9	40051.2
17.5°	43461.5	48249.8	48273.2	45226.1	43367.8	45226.1	48273.2	48249.8	43461.5	39584.3	37712.5
20°	41333.7	46775.3	45369.4	39796.1	37594.4	39796.1	45369.4	46775.3	41333.7	37023.0	35186.3
22.5°	38666.0	44787.2	41325.5	34333.7	31329.9	34333.7	41325.5	44787.2	38666.0	34044.4	32132.9
25°	35545.9	42351.2	36975.2	28381.9	25308.7	28381.9	36975.2	42351.2	35545.9	30495.3	28766.7
27.5°	31876.0	39263.5	32342.9	23192.6	20357.2	23192.6	32342.9	39263.5	31876.0	26830.9	25065.3
30°	27799.7	35305.2	27522.1	18470.0	15859.2	18470.0	27522.1	35305.2	27799.7	22714.0	21133.2
32.5°	23235.8	31425.4	22892.4	14799.3	12587.6	14799.3	22892.4	31425.4	23235.8	18785.5	17133.5
35°	19025.2	26571.3	18717.9	11628.7	9800.1	11628.7	18717.9	26571.3	19025.2	15076.9	13454.6
37.5°	14930.9	21984.9	14921.0	9363.9	7949.0	9363.9	14921.0	21984.9	14930.9	11721.6	10404.8
40°	11616.1	17190.3	11690.9	7474.9	6379.0	7474.9	11690.9	17190.3	11616.1	8918.7	8076.0
42.5°	8801.5	13144.6	9189.1	6134.8	5418.3	6134.8	9189.1	13144.6	8801.5	7027.0	6396.1
45°	6880.1	9673.0	7175.7	5175.8	4612.6	5175.8	7175.7	9673.0	6880.1	5658.9	5235.3
47.5°	5603.0	7475.8	5815.7	4439.5	4044.8	4439.5	5815.7	7475.8	5603.0	4786.5	4469.3
50°	4706.3	5736.4	4828.9	3875.3	3610.4	3875.3	4828.9	5736.4	4706.3	4098.8	3887.1
52.5°	4043.0	4678.3	4112.4	3453.6	3275.1	3453.6	4112.4	4678.3	4043.0	3586.0	3454.5
55°	3484.2	3933.0	3576.1	3105.7	2982.2	3105.7	3576.1	3933.0	3484.2	3191.3	3094.0
57.5°	3059.7	3336.4	3105.7	2809.2	2727.2	2809.2	3105.7	3336.4	3059.7	2839.8	2787.5
60°	2683.9	2889.4	2740.7	2550.5	2527.1	2550.5	2740.7	2889.4	2683.9	2555.0	2520.8
62.5°	2394.6	2524.4	2423.4	2318.0	2297.3	2318.0	2423.4	2524.4	2394.6	2295.5	2301.8
65°	2124.2	2245.0	2165.7	2108.9	2116.1	2108.9	2165.7	2245.0	2124.2	2078.3	2088.2
67.5°	1915.1	1978.2	1944.0	1911.5	1919.6	1911.5	1944.0	1978.2	1915.1	1870.1	1885.4
70°	1692.5	1760.1	1725.0	1729.5	1743.0	1729.5	1725.0	1760.1	1692.5	1679.0	1690.7
72.5°	1479.8	1532.1	1520.4	1531.2	1545.6	1531.2	1520.4	1532.1	1479.8	1478.0	1478.9
75°	1270.8	1310.4	1315.8	1331.1	1353.7	1331.1	1315.8	1310.4	1270.8	1257.2	1273.5
77.5°	1042.7	1087.8	1104.9	1125.7	1159.0	1125.7	1104.9	1087.8	1042.7	1051.7	1059.9
80°	833.6	854.4	892.2	907.6	954.4	907.6	892.2	854.4	833.6	818.3	830.0
82.5°	610.1	629.1	661.5	690.4	717.4	690.4	661.5	629.1	610.1	602.9	603.8
85°	352.4	381.2	402.9	437.1	445.2	437.1	402.9	381.2	352.4	360.5	352.4
87.5°	123.5	132.5	151.4	164.9	165.8	164.9	151.4	132.5	123.5	126.2	114.5
90°	18.5	31.5	54.1	32.4	24.8	32.4	54.1	31.5	18.5	32.0	49.6
92.5°	23.9	42.3	75.7	41.9	31.5	41.9	75.7	42.3	23.9	41.4	79.3
95°	35.6	51.8	96.0	45.9	36.9	45.9	96.0	51.8	35.6	55.0	110.4
97.5°	54.5	64.0	108.1	48.7	43.7	48.7	108.1	64.0	54.5	67.1	126.6
100°	72.1	72.1	196.0	55.4	49.1	55.4	196.0	72.1	72.1	82.9	196.9
102.5°	108.6	140.6	452.3	107.7	58.6	107.7	452.3	140.6	108.6	154.5	417.2
105°	196.4	319.0	794.3	271.2	104.1	271.2	794.3	319.0	196.4	322.1	742.9
107.5°	370.8	593.3	1022.7	530.7	235.2	530.7	1022.7	593.3	370.8	569.5	980.3
110°	592.4	828.5	1115.9	725.3	470.3	725.3	1115.9	828.5	592.4	781.7	1027.6



TEST NUMBER:

CATALOG NUMBER: EHBR1-54-UNV-TASM-L840-UPL24

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	770.8	923.1	1090.3	803.7	648.7	803.7	1090.3	923.1	770.8	862.7	984.4
115°	838.0	909.6	974.0	801.0	719.0	801.0	974.0	909.6	838.0	842.5	879.0
117.5°	809.6	832.6	841.6	752.4	723.1	752.4	841.6	832.6	809.6	758.2	746.5
120°	731.2	721.7	710.0	680.7	682.5	680.7	710.0	721.7	731.2	662.3	623.5
122.5°	633.4	613.2	600.5	608.6	627.1	608.6	600.5	613.2	633.4	564.5	535.2
125°	537.5	517.2	524.4	546.5	565.8	546.5	524.4	517.2	537.5	480.3	472.6
127.5°	457.3	447.8	469.0	493.8	510.4	493.8	469.0	447.8	457.3	420.8	428.0
130°	400.1	401.9	429.8	451.4	461.8	451.4	429.8	401.9	400.1	382.5	400.5
132.5°	364.5	374.4	401.0	419.9	426.2	419.9	401.0	374.4	364.5	360.0	382.0
135°	342.4	356.8	381.6	393.3	396.4	393.3	381.6	356.8	342.4	344.6	364.5
137.5°	329.8	344.2	362.7	372.6	370.8	372.6	362.7	344.2	329.8	334.7	350.0
140°	322.6	337.0	345.1	356.4	355.4	356.4	345.1	337.0	322.6	325.3	337.4
142.5°	315.4	328.4	332.5	341.0	339.2	341.0	332.5	328.4	315.4	318.1	326.2
145°	312.2	322.1	318.5	328.9	326.6	328.9	318.5	322.1	312.2	312.7	317.6
147.5°	305.4	312.7	308.6	317.6	315.4	317.6	308.6	312.7	305.4	305.4	307.7
150°	298.2	303.6	297.3	307.7	308.1	307.7	297.3	303.6	298.2	296.9	299.1
152.5°	288.3	293.7	288.3	300.0	299.6	300.0	288.3	293.7	288.3	287.0	289.2
155°	280.7	283.4	280.7	292.4	293.3	292.4	280.7	283.4	280.7	279.8	281.6
157.5°	275.7	278.0	276.6	287.0	287.9	287.0	276.6	278.0	275.7	275.7	276.6
160°	272.5	275.2	274.8	283.8	284.7	283.8	274.8	275.2	272.5	273.0	273.9
162.5°	271.6	271.6	272.1	281.1	282.9	281.1	272.1	271.6	271.6	271.6	273.0
165°	270.3	271.6	270.7	277.9	281.1	277.9	270.7	271.6	270.3	270.7	270.7
167.5°	270.7	269.4	271.2	277.9	281.1	277.9	271.2	269.4	270.7	271.2	271.2
170°	268.9	269.8	270.3	277.0	280.2	277.0	270.3	269.8	268.9	270.3	270.7
172.5°	271.6	271.6	271.6	277.0	281.6	277.0	271.6	271.6	271.6	272.1	273.4
175°	273.4	273.0	273.4	277.6	282.1	277.6	273.4	273.0	273.4	272.5	272.5
177.5°	272.1	273.9	275.7	279.8	285.7	279.8	275.7	273.9	272.1	272.5	272.5
180°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	48062.3	48062.3	48062.3	48062.3	48062.3	48062.3
2.5°	46666.3	46635.7	46666.3	46992.5	47417.0	48034.4
5°	45582.1	45412.7	45582.1	45943.5	46723.1	47898.3
7.5°	44319.5	44221.2	44319.5	44924.2	45909.3	47572.9
10°	42990.1	42767.5	42990.1	43673.3	44835.0	47076.4
12.5°	41351.7	41057.0	41351.7	42057.3	43522.8	46284.2
15°	39268.0	39009.3	39268.0	40051.2	41750.9	45112.6
17.5°	37032.0	36797.7	37032.0	37712.5	39584.3	43461.5
20°	34223.8	34039.9	34223.8	35186.3	37023.0	41333.7
22.5°	31277.6	31105.5	31277.6	32132.9	34044.4	38666.0
25°	27811.4	27717.7	27811.4	28766.7	30495.3	35545.9
27.5°	24065.9	23906.3	24065.9	25065.3	26830.9	31876.0
30°	20239.2	19975.1	20239.2	21133.2	22714.0	27799.7
32.5°	16496.3	16306.2	16496.3	17133.5	18785.5	23235.8
35°	12878.7	12688.6	12878.7	13454.6	15076.9	19025.2
37.5°	10035.3	9699.2	10035.3	10404.8	11721.6	14930.9
40°	7611.0	7556.9	7611.0	8076.0	8918.7	11616.1
42.5°	6196.0	6049.1	6196.0	6396.1	7027.0	8801.5
45°	5083.9	5026.2	5083.9	5235.3	5658.9	6880.1
47.5°	4371.9	4397.2	4371.9	4469.3	4786.5	5603.0
50°	3841.1	3856.4	3841.1	3887.1	4098.8	4706.3
52.5°	3450.0	3436.4	3450.0	3454.5	3586.0	4043.0
55°	3103.9	3086.8	3103.9	3094.0	3191.3	3484.2
57.5°	2801.1	2813.7	2801.1	2787.5	2839.8	3059.7
60°	2530.7	2542.4	2530.7	2520.8	2555.0	2683.9
62.5°	2302.7	2309.9	2302.7	2301.8	2295.5	2394.6
65°	2099.0	2107.1	2099.0	2088.2	2078.3	2124.2
67.5°	1904.3	1904.3	1904.3	1885.4	1870.1	1915.1
70°	1721.4	1720.5	1721.4	1690.7	1679.0	1692.5
72.5°	1501.5	1523.1	1501.5	1478.9	1478.0	1479.8
75°	1287.9	1313.1	1287.9	1273.5	1257.2	1270.8
77.5°	1071.6	1110.3	1071.6	1059.9	1051.7	1042.7
80°	849.9	892.2	849.9	830.0	818.3	833.6
82.5°	628.2	659.7	628.2	603.8	602.9	610.1
85°	374.0	424.5	374.0	352.4	360.5	352.4
87.5°	119.9	153.2	119.9	114.5	126.2	123.5
90°	29.3	18.5	29.3	49.6	32.0	18.5
92.5°	44.2	26.6	44.2	79.3	41.4	23.9
95°	50.9	30.6	50.9	110.4	55.0	35.6
97.5°	56.3	39.6	56.3	126.6	67.1	54.5
100°	65.8	51.8	65.8	196.9	82.9	72.1
102.5°	138.8	86.9	138.8	417.2	154.5	108.6
105°	291.5	149.1	291.5	742.9	322.1	196.4
107.5°	521.3	257.2	521.3	980.3	569.5	370.8
110°	691.5	478.9	691.5	1027.6	781.7	592.4



TEST NUMBER:

CATALOG NUMBER: EHBR1-54-UNV-TASM-L840-UPL24

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	742.9	646.5	742.9	984.4	862.7	770.8
115°	714.5	680.3	714.5	879.0	842.5	838.0
117.5°	652.4	657.3	652.4	746.5	758.2	809.6
120°	580.7	608.7	580.7	623.5	662.3	731.2
122.5°	515.4	547.8	515.4	535.2	564.5	633.4
125°	458.6	492.0	458.6	472.6	480.3	537.5
127.5°	419.4	442.0	419.4	428.0	420.8	457.3
130°	389.2	408.2	389.2	400.5	382.5	400.1
132.5°	368.5	380.7	368.5	382.0	360.0	364.5
135°	350.5	360.4	350.5	364.5	344.6	342.4
137.5°	335.2	343.7	335.2	350.0	334.7	329.8
140°	322.1	329.3	322.1	337.4	325.3	322.6
142.5°	308.1	313.6	308.1	326.2	318.1	315.4
145°	299.1	303.2	299.1	317.6	312.7	312.2
147.5°	291.5	294.2	291.5	307.7	305.4	305.4
150°	283.8	286.5	283.8	299.1	296.9	298.2
152.5°	275.3	278.9	275.3	289.2	287.0	288.3
155°	270.3	273.9	270.3	281.6	279.8	280.7
157.5°	268.0	271.2	268.0	276.6	275.7	275.7
160°	266.7	268.9	266.7	273.9	273.0	272.5
162.5°	264.4	266.7	264.4	273.0	271.6	271.6
165°	264.9	265.8	264.9	270.7	270.7	270.3
167.5°	264.4	265.8	264.4	271.2	271.2	270.7
170°	265.3	266.2	265.3	270.7	270.3	268.9
172.5°	267.1	268.0	267.1	273.4	272.1	271.6
175°	267.6	268.5	267.6	272.5	272.5	273.4
177.5°	269.8	270.7	269.8	272.5	272.5	272.1
180°	273.9	273.9	273.9	273.9	273.9	273.9



TEST NUMBER: CATALOG  
 CATALOG NUMBER: EHBR1-54-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	19.65	20.79	20.09	21.19	21.62	18.97	20.11	19.41	20.51	20.94
	3H	21.20	22.21	21.66	22.63	23.11	20.82	21.83	21.28	22.25	22.73
	4H	21.83	22.78	22.32	23.22	23.72	21.60	22.54	22.08	22.99	23.48
	6H	22.32	23.18	22.81	23.65	24.15	22.24	23.11	22.74	23.57	24.07
	8H	22.47	23.29	22.98	23.77	24.28	22.47	23.29	22.97	23.77	24.28
	12H	22.54	23.33	23.05	23.80	24.33	22.59	23.38	23.10	23.85	24.39
4H	2H	20.07	21.01	20.55	21.45	21.95	19.54	20.49	20.03	20.93	21.43
	3H	21.86	22.64	22.36	23.14	23.65	21.60	22.38	22.10	22.88	23.39
	4H	22.64	23.34	23.15	23.84	24.39	22.51	23.21	23.02	23.72	24.27
	6H	23.26	23.86	23.80	24.39	24.96	23.28	23.89	23.82	24.42	24.99
	8H	23.45	24.02	24.00	24.54	25.12	23.55	24.12	24.10	24.65	25.22
	12H	23.56	24.05	24.12	24.62	25.19	23.72	24.22	24.29	24.78	25.36
8H	4H	22.89	23.45	23.44	23.98	24.56	22.79	23.36	23.34	23.88	24.46
	6H	23.63	24.09	24.21	24.67	25.25	23.70	24.15	24.27	24.73	25.31
	8H	23.90	24.31	24.50	24.90	25.50	24.05	24.46	24.65	25.05	25.64
	12H	24.08	24.43	24.67	25.00	25.68	24.30	24.66	24.89	25.23	25.90
12H	4H	22.90	23.40	23.46	23.96	24.54	22.80	23.30	23.37	23.86	24.44
	6H	23.67	24.08	24.27	24.67	25.27	23.74	24.15	24.34	24.74	25.34
	8H	23.99	24.35	24.58	24.92	25.59	24.15	24.50	24.74	25.08	25.75