

## Luminaire Property

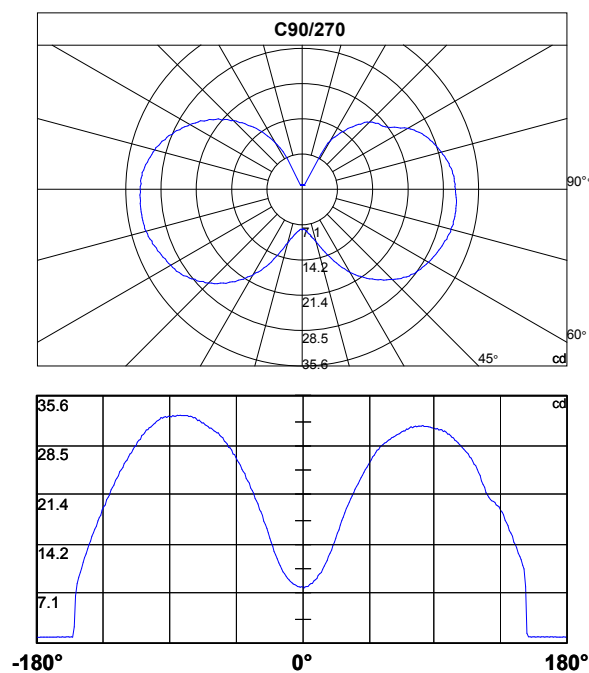
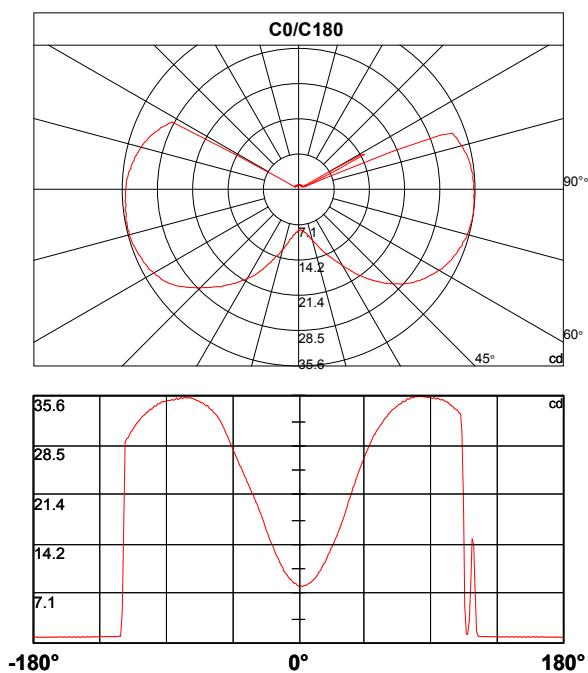
Report NO.: EST-G9-CP-4W  
 Test NO.:  
 Lamp:  
 Sum Lumens: 296.47 lm  
 Number of Lamps: 1  
 Diameter: 200mm  
 Length: mm  
 Photometric Type: Type C

Voltage: 220.5 V  
 Current: 0.03 A  
 Power: 3.0 W  
 Power Factor: 0.455  
 Ballast Type:  
 Width: mm  
 Height: mm  
 Remark:

## Photometric Results

Lumens: 296.47 lm  
 Efficiency: 100%  
 Central Intensity: 8.157cd  
 Maximum Intensity: 35.57cd  
 Beam Angle(10%): Left: -202.3 Right:38.7

Angle of maximum intensity: C:0.0 G:82.0  
 Half Peak Side Angle(50%): Left: -200.8 Right:30.2  
 Up Flux Rate: 39.83%  
 Down Flux Rate: 60.17%



## Photometric Data Table [cd]

C\γ	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	8.2	8.3	8.2	8.2	8.3	8.4	8.5	8.6	8.7	8.9
45.0	8.2	7.9	8.1	8.1	8.1	8.4	8.6	8.6	9.0	9.1
90.0	8.2	7.9	8.1	8.1	8.1	8.4	8.6	8.6	9.0	9.1
135.0	8.2	8.4	8.6	8.6	8.8	9.1	9.2	9.5	9.9	10.0
180.0	8.2	8.4	8.6	8.6	8.8	9.1	9.2	9.5	9.9	10.0
225.0	8.2	8.0	8.1	8.1	8.3	8.4	8.5	8.7	8.9	9.1
270.0	8.2	8.0	8.1	8.1	8.3	8.4	8.5	8.7	8.9	9.1
315.0	8.2	8.3	8.2	8.2	8.3	8.4	8.5	8.6	8.7	8.9
360.0	8.2	8.3	8.2	8.2	8.3	8.4	8.5	8.6	8.7	8.9

C\γ	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	9.1	9.3	9.6	9.9	10.3	10.5	10.9	11.4	11.7	12.2
45.0	9.3	9.8	10.0	10.2	10.6	11.1	11.5	11.9	12.5	12.9
90.0	9.3	9.8	10.0	10.2	10.6	11.1	11.5	11.9	12.5	12.9
135.0	10.4	10.9	11.3	11.6	12.3	12.6	13.0	13.7	14.1	14.5
180.0	10.4	10.9	11.3	11.6	12.3	12.6	13.0	13.7	14.1	14.5
225.0	9.4	9.6	10.0	10.3	10.7	11.2	11.6	12.2	12.7	13.2
270.0	9.4	9.6	10.0	10.3	10.7	11.2	11.6	12.2	12.7	13.2
315.0	9.1	9.3	9.6	9.9	10.3	10.5	10.9	11.4	11.7	12.2
360.0	9.1	9.3	9.6	9.9	10.3	10.5	10.9	11.4	11.7	12.2

C\γ	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	12.7	13.1	13.6	14.0	14.6	15.0	15.5	16.1	16.5	17.1
45.0	13.4	14.1	14.6	15.1	15.9	16.3	17.0	17.7	18.1	18.8
90.0	13.4	14.1	14.6	15.1	15.9	16.3	17.0	17.7	18.1	18.8
135.0	15.1	15.8	16.2	16.9	17.6	18.1	18.7	19.3	19.9	20.3
180.0	15.1	15.8	16.2	16.9	17.6	18.1	18.7	19.3	19.9	20.3
225.0	14.0	14.5	15.1	15.9	16.5	17.1	17.5	18.4	18.9	19.2
270.0	14.0	14.5	15.1	15.9	16.5	17.1	17.5	18.4	18.9	19.2
315.0	12.7	13.1	13.6	14.0	14.6	15.0	15.5	16.1	16.5	17.1
360.0	12.7	13.1	13.6	14.0	14.6	15.0	15.5	16.1	16.5	17.1

C\γ	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	17.8	18.4	19.0	19.7	20.5	21.0	21.7	22.4	22.9	23.6
45.0	19.4	19.8	20.3	20.8	21.2	21.7	22.1	22.6	22.9	23.4
90.0	19.4	19.8	20.3	20.8	21.2	21.7	22.1	22.6	22.9	23.4
135.0	20.9	21.4	21.8	22.3	22.8	23.3	23.8	24.2	24.7	25.3
180.0	20.9	21.4	21.8	22.3	22.8	23.3	23.8	24.2	24.7	25.3
225.0	20.0	20.5	20.8	21.6	22.0	22.4	23.0	23.4	23.7	24.4
270.0	20.0	20.5	20.8	21.6	22.0	22.4	23.0	23.4	23.7	24.4
315.0	17.8	18.4	19.0	19.7	20.5	21.0	21.7	22.4	22.9	23.6
360.0	17.8	18.4	19.0	19.7	20.5	21.0	21.7	22.4	22.9	23.6

## Photometric Data Table [cd]

C\γ	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	24.2	24.7	25.4	25.9	26.4	27.0	27.4	28.0	28.5	28.9
45.0	23.8	24.2	24.6	25.0	25.3	25.7	26.1	26.4	26.8	27.1
90.0	23.8	24.2	24.6	25.0	25.3	25.7	26.1	26.4	26.8	27.1
135.0	25.6	26.1	26.6	27.1	27.6	28.1	28.6	29.1	29.6	30.1
180.0	25.6	26.1	26.6	27.1	27.6	28.1	28.6	29.1	29.6	30.1
225.0	24.7	25.1	25.6	26.0	26.3	26.7	27.2	27.3	27.8	28.1
270.0	24.7	25.1	25.6	26.0	26.3	26.7	27.2	27.3	27.8	28.1
315.0	24.2	24.7	25.4	25.9	26.4	27.0	27.4	28.0	28.5	28.9
360.0	24.2	24.7	25.4	25.9	26.4	27.0	27.4	28.0	28.5	28.9

C\γ	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	29.4	29.9	30.1	30.5	30.9	31.2	31.5	31.8	32.1	32.4
45.0	27.5	27.8	27.9	28.3	28.4	28.6	28.8	28.9	29.1	29.3
90.0	27.5	27.8	27.9	28.3	28.4	28.6	28.8	28.9	29.1	29.3
135.0	30.5	31.0	31.5	31.9	32.3	32.6	32.9	33.1	33.2	33.6
180.0	30.5	31.0	31.5	31.9	32.3	32.6	32.9	33.1	33.2	33.6
225.0	28.2	28.7	29.0	29.1	29.6	29.8	29.9	30.3	30.3	30.5
270.0	28.2	28.7	29.0	29.1	29.6	29.8	29.9	30.3	30.3	30.5
315.0	29.4	29.9	30.1	30.5	30.9	31.2	31.5	31.8	32.1	32.4
360.0	29.4	29.9	30.1	30.5	30.9	31.2	31.5	31.8	32.1	32.4

C\γ	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	32.7	33.0	33.2	33.5	33.7	33.8	34.0	34.1	34.4	34.5
45.0	29.4	29.6	29.7	29.8	30.0	30.1	30.2	30.3	30.5	30.5
90.0	29.4	29.6	29.7	29.8	30.0	30.1	30.2	30.3	30.5	30.5
135.0	33.7	33.9	34.2	34.2	34.4	34.6	34.6	34.7	34.9	34.9
180.0	33.7	33.9	34.2	34.2	34.4	34.6	34.6	34.7	34.9	34.9
225.0	30.5	30.8	31.0	31.0	31.2	31.3	31.4	31.7	31.7	31.9
270.0	30.5	30.8	31.0	31.0	31.2	31.3	31.4	31.7	31.7	31.9
315.0	32.7	33.0	33.2	33.5	33.7	33.8	34.0	34.1	34.4	34.5
360.0	32.7	33.0	33.2	33.5	33.7	33.8	34.0	34.1	34.4	34.5

C\γ	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	34.6	34.9	34.8	35.0	35.3	35.1	35.3	35.4	35.4	35.5
45.0	30.6	30.9	30.8	31.0	31.2	31.0	31.2	31.3	31.2	31.3
90.0	30.6	30.9	30.8	31.0	31.2	31.0	31.2	31.3	31.2	31.3
135.0	35.0	35.1	35.3	35.3	35.3	35.4	35.3	35.4	35.4	35.3
180.0	35.0	35.1	35.3	35.3	35.3	35.4	35.3	35.4	35.4	35.3
225.0	32.1	32.0	32.3	32.5	32.5	32.7	32.7	32.7	32.8	32.8
270.0	32.1	32.0	32.3	32.5	32.5	32.7	32.7	32.7	32.8	32.8
315.0	34.6	34.9	34.8	35.0	35.3	35.1	35.3	35.4	35.4	35.5
360.0	34.6	34.9	34.8	35.0	35.3	35.1	35.3	35.4	35.4	35.5

## Photometric Data Table [cd]

C\γ	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
<b>0.0</b>	35.5	35.5	35.6	35.5	35.5	35.5	35.5	35.5	35.4	35.5
<b>45.0</b>	31.3	31.3	31.3	31.2	31.2	31.2	31.2	31.1	31.0	31.0
<b>90.0</b>	31.3	31.3	31.3	31.2	31.2	31.2	31.2	31.1	31.0	31.0
<b>135.0</b>	35.4	35.3	35.1	35.3	35.1	35.0	35.1	35.0	34.9	34.9
<b>180.0</b>	35.4	35.3	35.1	35.3	35.1	35.0	35.1	35.0	34.9	34.9
<b>225.0</b>	32.8	32.8	32.8	32.8	32.8	32.8	32.7	32.7	32.8	32.6
<b>270.0</b>	32.8	32.8	32.8	32.8	32.8	32.8	32.7	32.7	32.8	32.6
<b>315.0</b>	35.5	35.5	35.6	35.5	35.5	35.5	35.5	35.5	35.4	35.5
<b>360.0</b>	35.5	35.5	35.6	35.5	35.5	35.5	35.5	35.5	35.4	35.5

C\γ	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0	99.0
<b>0.0</b>	35.3	35.3	35.4	35.3	35.2	35.3	35.1	35.0	35.1	34.9
<b>45.0</b>	30.9	30.9	30.9	30.7	30.8	30.8	30.5	30.5	30.4	30.1
<b>90.0</b>	30.9	30.9	30.9	30.7	30.8	30.8	30.5	30.5	30.4	30.1
<b>135.0</b>	34.9	34.8	34.8	34.8	34.6	34.5	34.5	34.1	34.1	34.0
<b>180.0</b>	34.9	34.8	34.8	34.8	34.6	34.5	34.5	34.1	34.1	34.0
<b>225.0</b>	32.7	32.7	32.5	32.7	32.6	32.4	32.5	32.2	32.1	32.0
<b>270.0</b>	32.7	32.7	32.5	32.7	32.6	32.4	32.5	32.2	32.1	32.0
<b>315.0</b>	35.3	35.3	35.4	35.3	35.2	35.3	35.1	35.0	35.1	34.9
<b>360.0</b>	35.3	35.3	35.4	35.3	35.2	35.3	35.1	35.0	35.1	34.9

C\γ	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0	108.0	109.0
<b>0.0</b>	34.8	34.7	34.6	34.4	34.2	34.1	33.8	33.7	33.6	33.2
<b>45.0</b>	30.1	29.9	29.7	29.5	29.2	29.1	28.9	28.6	28.4	28.2
<b>90.0</b>	30.1	29.9	29.7	29.5	29.2	29.1	28.9	28.6	28.4	28.2
<b>135.0</b>	33.7	33.7	33.5	33.3	33.1	32.9	32.7	32.5	32.2	32.0
<b>180.0</b>	33.7	33.7	33.5	33.3	33.1	32.9	32.7	32.5	32.2	32.0
<b>225.0</b>	31.7	31.6	31.3	31.1	31.0	30.8	30.7	30.3	30.1	29.9
<b>270.0</b>	31.7	31.6	31.3	31.1	31.0	30.8	30.7	30.3	30.1	29.9
<b>315.0</b>	34.8	34.7	34.6	34.4	34.2	34.1	33.8	33.7	33.6	33.2
<b>360.0</b>	34.8	34.7	34.6	34.4	34.2	34.1	33.8	33.7	33.6	33.2

C\γ	110.0	111.0	112.0	113.0	114.0	115.0	116.0	117.0	118.0	119.0
<b>0.0</b>	33.0	30.6	20.6	5.3	1.4	1.2	3.2	8.7	15.0	14.2
<b>45.0</b>	28.0	27.6	27.5	27.2	26.8	26.6	26.3	25.8	25.6	25.1
<b>90.0</b>	28.0	27.6	27.5	27.2	26.8	26.6	26.3	25.8	25.6	25.1
<b>135.0</b>	31.7	31.4	31.1	30.7	30.5	30.1	29.7	29.4	28.9	14.8
<b>180.0</b>	31.7	31.4	31.1	30.7	30.5	30.1	29.7	29.4	28.9	14.8
<b>225.0</b>	29.4	29.2	29.0	28.4	28.3	28.0	27.4	27.3	26.9	26.4
<b>270.0</b>	29.4	29.2	29.0	28.4	28.3	28.0	27.4	27.3	26.9	26.4
<b>315.0</b>	33.0	30.6	20.6	5.3	1.4	1.2	3.2	8.7	15.0	14.2
<b>360.0</b>	33.0	30.6	20.6	5.3	1.4	1.2	3.2	8.7	15.0	14.2

## Photometric Data Table [cd]

C\γ	120.0	121.0	122.0	123.0	124.0	125.0	126.0	127.0	128.0	129.0
0.0	8.0	1.6	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0
45.0	24.6	24.2	23.4	22.9	22.5	21.7	21.4	21.0	20.7	20.5
90.0	24.6	24.2	23.4	22.9	22.5	21.7	21.4	21.0	20.7	20.5
135.0	4.4	1.0	1.0	1.0	0.9	1.0	1.0	0.9	1.0	1.0
180.0	4.4	1.0	1.0	1.0	0.9	1.0	1.0	0.9	1.0	1.0
225.0	26.2	25.8	25.3	25.0	24.7	24.1	23.7	23.5	22.8	22.4
270.0	26.2	25.8	25.3	25.0	24.7	24.1	23.7	23.5	22.8	22.4
315.0	8.0	1.6	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0
360.0	8.0	1.6	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0

C\γ	130.0	131.0	132.0	133.0	134.0	135.0	136.0	137.0	138.0	139.0
0.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.8	0.9	0.9
45.0	20.4	20.3	19.9	19.8	19.6	19.1	18.9	18.5	17.7	17.4
90.0	20.4	20.3	19.9	19.8	19.6	19.1	18.9	18.5	17.7	17.4
135.0	0.9	1.0	1.0	0.9	1.0	1.0	0.9	0.9	0.9	0.9
180.0	0.9	1.0	1.0	0.9	1.0	1.0	0.9	0.9	0.9	0.9
225.0	22.1	21.4	21.0	20.7	19.9	19.7	19.2	18.4	18.1	17.6
270.0	22.1	21.4	21.0	20.7	19.9	19.7	19.2	18.4	18.1	17.6
315.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.8	0.9	0.9
360.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.8	0.9	0.9

C\γ	140.0	141.0	142.0	143.0	144.0	145.0	146.0	147.0	148.0	149.0
0.0	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.8
45.0	16.9	16.2	15.9	15.4	14.6	14.2	13.7	12.9	12.5	12.1
90.0	16.9	16.2	15.9	15.4	14.6	14.2	13.7	12.9	12.5	12.1
135.0	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.9	0.8	0.8
180.0	0.9	0.9	0.8	0.9	0.9	0.8	0.8	0.9	0.8	0.8
225.0	16.8	16.4	15.9	15.4	14.7	14.2	13.6	12.8	12.3	11.6
270.0	16.8	16.4	15.9	15.4	14.7	14.2	13.6	12.8	12.3	11.6
315.0	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.8
360.0	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.8

C\γ	150.0	151.0	152.0	153.0	154.0	155.0	156.0	157.0	158.0	159.0
0.0	0.9	0.9	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.9
45.0	11.2	10.7	8.1	1.4	0.9	0.9	0.8	0.9	0.9	0.8
90.0	11.2	10.7	8.1	1.4	0.9	0.9	0.8	0.9	0.9	0.8
135.0	0.9	0.8	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.9
180.0	0.9	0.8	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.9
225.0	10.8	10.2	9.5	8.6	6.8	2.3	0.8	0.9	0.8	0.9
270.0	10.8	10.2	9.5	8.6	6.8	2.3	0.8	0.9	0.8	0.9
315.0	0.9	0.9	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.9
360.0	0.9	0.9	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.9

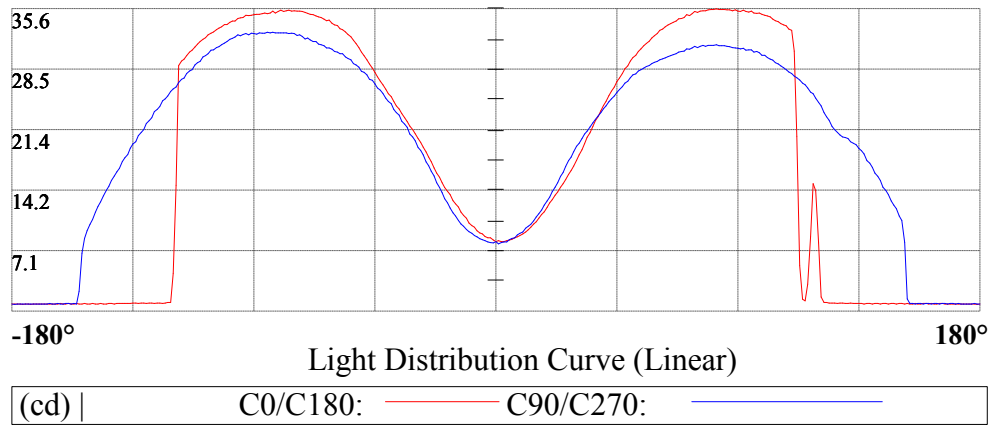
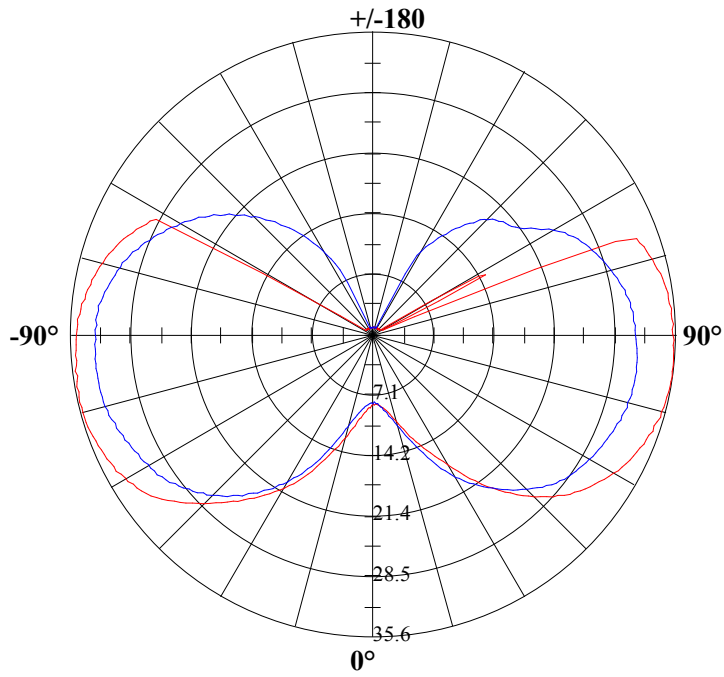
## Photometric Data Table [cd]

C\γ	160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0
0.0	0.9	0.8	0.9	0.8	0.8	0.9	0.9	0.8	0.8	0.8
45.0	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.9
90.0	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.9
135.0	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180.0	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8
225.0	0.9	0.8	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.8
270.0	0.9	0.8	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.8
315.0	0.9	0.8	0.9	0.8	0.8	0.9	0.9	0.8	0.8	0.8
360.0	0.9	0.8	0.9	0.8	0.8	0.9	0.9	0.8	0.8	0.8

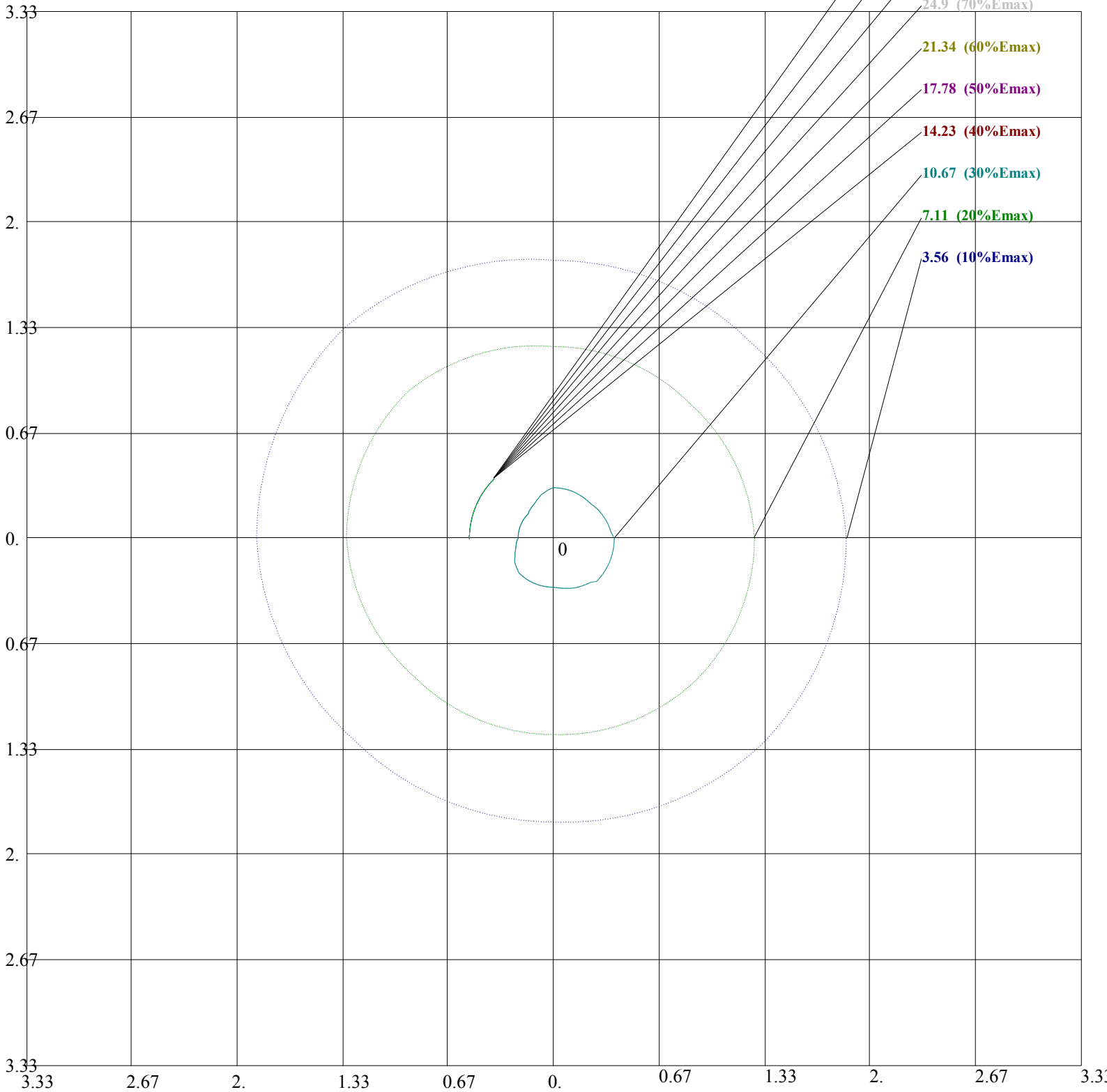
C\γ	170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
45.0	0.9	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.8
90.0	0.9	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.9	0.8
135.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
225.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
270.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
315.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
360.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

C\γ	180.0
0.0	0.8
45.0	0.8
90.0	0.8
135.0	0.8
180.0	0.8
225.0	0.8
270.0	0.8
315.0	0.8
360.0	0.8

### Light Distribution Curve [Unit: cd]



# Iso-Lux[lx]



Height: 1 m  
Max Illuminance : 35.57lx



# Luminance Limiting Curve

Diameter: 200mm

Length: mm

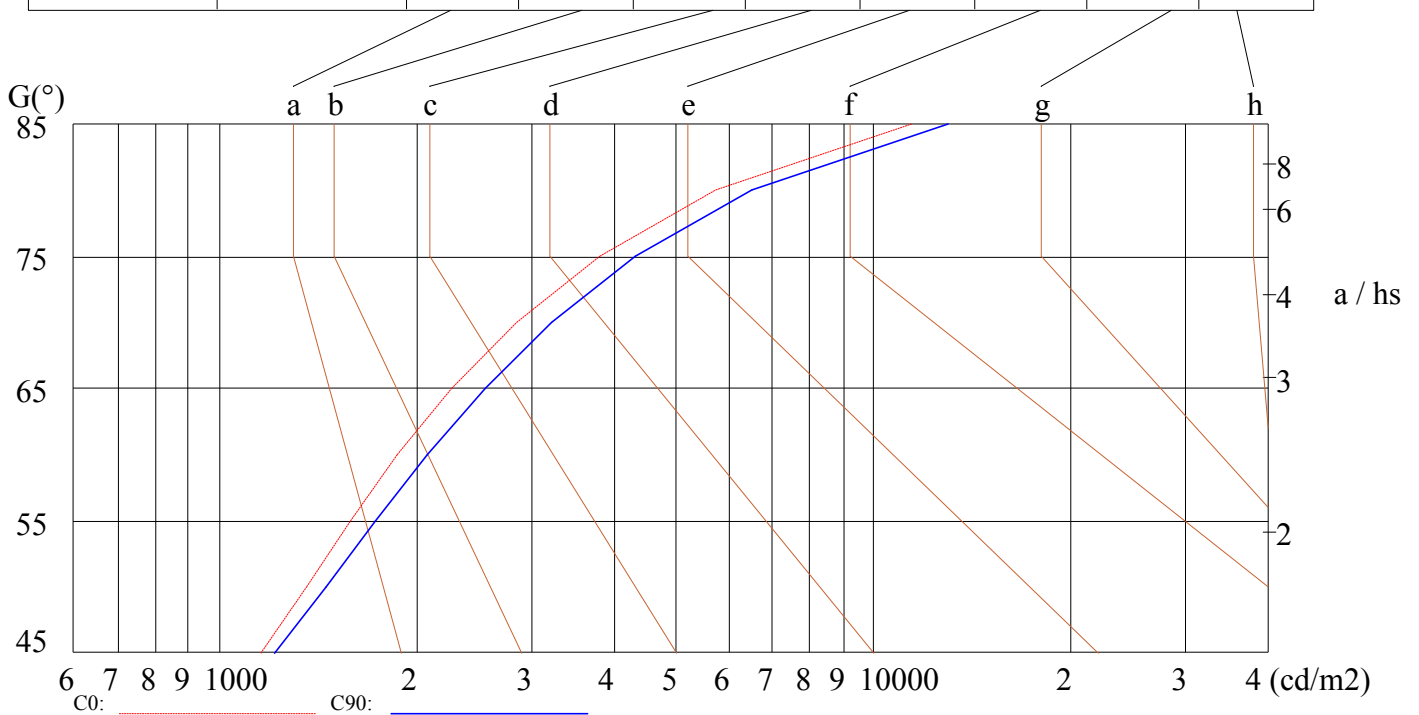
Width: mm

Height: mm

(cd/m<sup>2</sup>)

$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	1159	1362	1588	1872	2266	2849	3818	5738	11414
C90	1216	1459	1734	2080	2549	3219	4325	6514	12978

Glare	Quality	Service Values Illuminance (lx)							
1.15	A	2000	1000	500	≤300				
1.5	B		2000	1000	500	≤300			
1.85	C			2000	1000	500	≤300		
2.2	D				2000	1000	500	≤300	
2.55	E					2000	1000	500	≤300



Lum. Limiting Curve (C0/C90)

Lux-Distance Curve

