

Luminaire Property

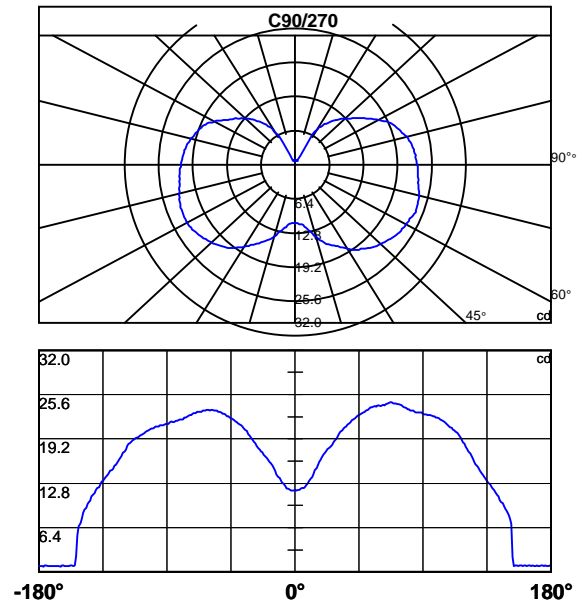
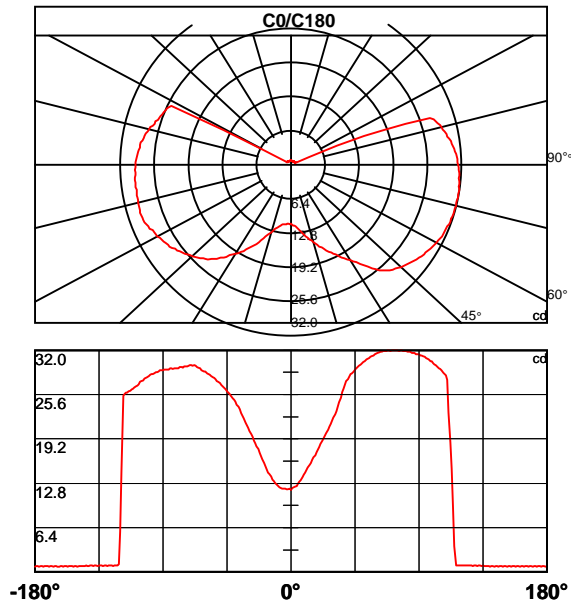
Report NO.: EST-G4-CP-4W
 Test NO.:
 Lamp:
 Sum Lumens: 245.65 lm
 Number of Lamps: 1
 Diameter: 200mm
 Length: mm
 Photometric Type: Type C

Voltage: 12.1 V
 Current: 0.298 A
 Power: 2.7 W
 Power Factor: 0.745
 Ballast Type:
 Width: mm
 Height: mm
 Remark:

Photometric Results

Lumens: 245.65 lm
 Efficiency: 100%
 Central Intensity: 11.857cd
 Maximum Intensity: 32.029cd
 Beam Angle(10%): Left:-189.6 Right:46.2

Angle of maximum intensity: C:0.0 G:69.0
 Half Peak Side Angle(50%): Left:-187.9 Right:43.7
 Up Flux Rate: 36.54%
 Down Flux Rate: 63.46%



Photometric Data Table [cd]

Cly	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	11.9	12.1	12.3	12.3	12.4	12.8	13.0	13.3	13.7	14.1
45.0	11.9	11.7	11.8	11.9	12.0	12.1	12.1	12.3	12.6	12.8
90.0	11.9	11.7	11.8	11.9	12.0	12.1	12.1	12.3	12.6	12.8
135.0	11.9	12.0	11.9	11.9	12.0	12.1	12.1	12.1	12.3	12.4
180.0	11.9	12.0	11.9	11.9	12.0	12.1	12.1	12.1	12.3	12.4
225.0	11.9	11.8	11.8	11.8	11.9	12.0	12.1	12.4	12.7	12.9
270.0	11.9	11.8	11.8	11.8	11.9	12.0	12.1	12.4	12.7	12.9
315.0	11.9	12.1	12.3	12.3	12.4	12.8	13.0	13.3	13.7	14.1
360.0	11.9	12.1	12.3	12.3	12.4	12.8	13.0	13.3	13.7	14.1

Cly	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	14.3	14.7	15.1	15.5	15.8	16.2	16.6	16.9	17.3	17.7
45.0	13.1	13.5	13.7	14.2	14.7	15.0	15.4	16.0	16.2	16.5
90.0	13.1	13.5	13.7	14.2	14.7	15.0	15.4	16.0	16.2	16.5
135.0	12.6	12.9	13.1	13.3	13.8	14.2	14.4	14.8	15.2	15.7
180.0	12.6	12.9	13.1	13.3	13.8	14.2	14.4	14.8	15.2	15.7
225.0	13.2	13.6	13.7	14.1	14.6	15.0	15.4	15.8	15.9	16.2
270.0	13.2	13.6	13.7	14.1	14.6	15.0	15.4	15.8	15.9	16.2
315.0	14.3	14.7	15.1	15.5	15.8	16.2	16.6	16.9	17.3	17.7
360.0	14.3	14.7	15.1	15.5	15.8	16.2	16.6	16.9	17.3	17.7

Cly	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	18.1	18.5	18.9	19.3	19.7	20.0	20.5	21.0	21.4	21.8
45.0	17.0	17.2	17.5	17.8	17.9	18.1	18.3	18.7	18.9	19.2
90.0	17.0	17.2	17.5	17.8	17.9	18.1	18.3	18.7	18.9	19.2
135.0	16.3	16.8	17.2	17.8	18.1	18.6	19.0	19.6	19.9	20.3
180.0	16.3	16.8	17.2	17.8	18.1	18.6	19.0	19.6	19.9	20.3
225.0	16.4	16.6	16.9	17.3	17.4	17.7	18.0	18.2	18.6	18.8
270.0	16.4	16.6	16.9	17.3	17.4	17.7	18.0	18.2	18.6	18.8
315.0	18.1	18.5	18.9	19.3	19.7	20.0	20.5	21.0	21.4	21.8
360.0	18.1	18.5	18.9	19.3	19.7	20.0	20.5	21.0	21.4	21.8

Cly	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	22.3	22.7	23.2	23.9	24.5	25.1	26.0	26.4	27.0	27.5
45.0	19.6	20.0	20.2	20.5	20.7	20.9	21.0	21.3	21.5	21.6
90.0	19.6	20.0	20.2	20.5	20.7	20.9	21.0	21.3	21.5	21.6
135.0	20.8	21.1	21.6	22.2	22.6	22.9	23.5	23.8	24.1	24.6
180.0	20.8	21.1	21.6	22.2	22.6	22.9	23.5	23.8	24.1	24.6
225.0	19.1	19.4	19.7	19.9	20.3	20.6	20.7	21.0	21.1	21.2
270.0	19.1	19.4	19.7	19.9	20.3	20.6	20.7	21.0	21.1	21.2
315.0	22.3	22.7	23.2	23.9	24.5	25.1	26.0	26.4	27.0	27.5
360.0	22.3	22.7	23.2	23.9	24.5	25.1	26.0	26.4	27.0	27.5

Photometric Data Table [cd]

Cly	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	27.9	28.2	28.5	28.7	29.0	29.2	29.4	29.6	29.8	29.9
45.0	21.9	22.0	22.2	22.4	22.6	22.6	22.8	22.9	23.0	23.1
90.0	21.9	22.0	22.2	22.4	22.6	22.6	22.8	22.9	23.0	23.1
135.0	24.9	25.1	25.4	25.7	25.8	26.1	26.3	26.6	26.8	27.0
180.0	24.9	25.1	25.4	25.7	25.8	26.1	26.3	26.6	26.8	27.0
225.0	21.5	21.6	21.7	21.9	22.1	22.1	22.3	22.5	22.5	22.7
270.0	21.5	21.6	21.7	21.9	22.1	22.1	22.3	22.5	22.5	22.7
315.0	27.9	28.2	28.5	28.7	29.0	29.2	29.4	29.6	29.8	29.9
360.0	27.9	28.2	28.5	28.7	29.0	29.2	29.4	29.6	29.8	29.9

Cly	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	30.1	30.3	30.4	30.7	30.8	30.9	31.1	31.2	31.3	31.4
45.0	23.3	23.4	23.6	23.7	23.7	23.8	23.9	23.9	24.0	24.0
90.0	23.3	23.4	23.6	23.7	23.7	23.8	23.9	23.9	24.0	24.0
135.0	27.2	27.5	27.6	27.9	28.1	28.1	28.3	28.5	28.6	28.6
180.0	27.2	27.5	27.6	27.9	28.1	28.1	28.3	28.5	28.6	28.6
225.0	22.8	22.8	23.0	23.1	23.1	23.3	23.3	23.3	23.4	23.4
270.0	22.8	22.8	23.0	23.1	23.1	23.3	23.3	23.3	23.4	23.4
315.0	30.1	30.3	30.4	30.7	30.8	30.9	31.1	31.2	31.3	31.4
360.0	30.1	30.3	30.4	30.7	30.8	30.9	31.1	31.2	31.3	31.4

Cly	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	31.6	31.6	31.7	31.8	31.8	31.9	31.9	31.9	32.0	32.0
45.0	23.9	24.0	24.1	24.0	24.3	24.4	24.4	24.5	24.5	24.4
90.0	23.9	24.0	24.1	24.0	24.3	24.4	24.4	24.5	24.5	24.4
135.0	28.9	29.0	29.0	29.1	29.4	29.5	29.6	29.8	29.9	29.8
180.0	28.9	29.0	29.0	29.1	29.4	29.5	29.6	29.8	29.9	29.8
225.0	23.3	23.4	23.4	23.3	23.3	23.3	23.1	23.1	23.1	23.1
270.0	23.3	23.4	23.4	23.3	23.3	23.3	23.1	23.1	23.1	23.1
315.0	31.6	31.6	31.7	31.8	31.8	31.9	31.9	31.9	32.0	32.0
360.0	31.6	31.6	31.7	31.8	31.8	31.9	31.9	31.9	32.0	32.0

Cly	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	31.9	32.0	32.0	32.0	32.0	32.0	31.9	32.0	32.0	31.9
45.0	24.4	24.4	24.2	24.2	24.2	24.0	23.9	23.8	23.6	23.5
90.0	24.4	24.4	24.2	24.2	24.2	24.0	23.9	23.8	23.6	23.5
135.0	29.9	29.9	29.8	29.7	29.7	29.7	29.5	29.5	29.5	29.4
180.0	29.9	29.9	29.8	29.7	29.7	29.7	29.5	29.5	29.5	29.4
225.0	22.9	22.9	22.8	22.7	22.6	22.6	22.4	22.3	22.3	22.0
270.0	22.9	22.9	22.8	22.7	22.6	22.6	22.4	22.3	22.3	22.0
315.0	31.9	32.0	32.0	32.0	32.0	32.0	31.9	32.0	32.0	31.9
360.0	31.9	32.0	32.0	32.0	32.0	32.0	31.9	32.0	32.0	31.9

Photometric Data Table [cd]

Cly	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	31.9	31.9	31.8	31.8	31.8	31.6	31.7	31.6	31.4	31.4
45.0	23.5	23.3	23.3	23.3	23.1	23.0	23.0	23.0	23.0	23.0
90.0	23.5	23.3	23.3	23.3	23.1	23.0	23.0	23.0	23.0	23.0
135.0	29.4	29.4	29.4	29.3	29.4	29.4	29.2	29.2	29.2	29.2
180.0	29.4	29.4	29.4	29.3	29.4	29.4	29.2	29.2	29.2	29.2
225.0	22.0	22.0	21.9	21.8	21.8	21.7	21.7	21.7	21.6	21.4
270.0	22.0	22.0	21.9	21.8	21.8	21.7	21.7	21.7	21.6	21.4
315.0	31.9	31.9	31.8	31.8	31.8	31.6	31.7	31.6	31.4	31.4
360.0	31.9	31.9	31.8	31.8	31.8	31.6	31.7	31.6	31.4	31.4

Cly	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0	99.0
0.0	31.4	31.3	31.2	31.2	31.0	30.9	30.8	30.7	30.4	30.4
45.0	22.8	22.8	22.8	22.7	22.6	22.7	22.6	22.5	22.5	22.3
90.0	22.8	22.8	22.8	22.7	22.6	22.7	22.6	22.5	22.5	22.3
135.0	29.1	29.1	29.1	28.9	28.8	28.8	28.7	28.5	28.5	28.5
180.0	29.1	29.1	29.1	28.9	28.8	28.8	28.7	28.5	28.5	28.5
225.0	21.4	21.4	21.2	21.2	21.2	21.1	21.0	21.0	21.0	20.8
270.0	21.4	21.4	21.2	21.2	21.2	21.1	21.0	21.0	21.0	20.8
315.0	31.4	31.3	31.2	31.2	31.0	30.9	30.8	30.7	30.4	30.4
360.0	31.4	31.3	31.2	31.2	31.0	30.9	30.8	30.7	30.4	30.4

Cly	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0	108.0	109.0
0.0	30.2	29.9	29.9	29.6	29.4	29.3	29.1	28.8	28.6	28.4
45.0	22.3	22.2	22.0	21.9	21.8	21.7	21.5	21.3	21.1	20.9
90.0	22.3	22.2	22.0	21.9	21.8	21.7	21.5	21.3	21.1	20.9
135.0	28.3	28.1	28.0	27.9	27.6	27.5	27.4	27.1	26.9	26.8
180.0	28.3	28.1	28.0	27.9	27.6	27.5	27.4	27.1	26.9	26.8
225.0	20.7	20.7	20.6	20.4	20.3	20.2	20.0	19.9	19.8	19.7
270.0	20.7	20.7	20.6	20.4	20.3	20.2	20.0	19.9	19.8	19.7
315.0	30.2	29.9	29.9	29.6	29.4	29.3	29.1	28.8	28.6	28.4
360.0	30.2	29.9	29.9	29.6	29.4	29.3	29.1	28.8	28.6	28.4

Cly	110.0	111.0	112.0	113.0	114.0	115.0	116.0	117.0	118.0	119.0
0.0	27.7	23.0	18.7	14.9	9.5	3.7	0.9	1.0	0.9	0.9
45.0	20.8	20.6	20.4	20.2	20.0	19.8	19.6	19.2	18.8	18.4
90.0	20.8	20.6	20.4	20.2	20.0	19.8	19.6	19.2	18.8	18.4
135.0	26.6	26.4	26.3	26.2	26.1	25.9	25.8	25.7	25.4	14.4
180.0	26.6	26.4	26.3	26.2	26.1	25.9	25.8	25.7	25.4	14.4
225.0	19.5	19.4	19.3	19.1	19.0	18.9	18.6	18.4	18.2	17.7
270.0	19.5	19.4	19.3	19.1	19.0	18.9	18.6	18.4	18.2	17.7
315.0	27.7	23.0	18.7	14.9	9.5	3.7	0.9	1.0	0.9	0.9
360.0	27.7	23.0	18.7	14.9	9.5	3.7	0.9	1.0	0.9	0.9

Photometric Data Table [cd]

Cly	120.0	121.0	122.0	123.0	124.0	125.0	126.0	127.0	128.0	129.0
0.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9
45.0	18.1	17.8	17.4	17.1	16.7	16.3	16.0	15.6	15.3	15.0
90.0	18.1	17.8	17.4	17.1	16.7	16.3	16.0	15.6	15.3	15.0
135.0	5.9	1.2	0.9	1.0	1.0	0.8	0.9	0.9	0.9	0.8
180.0	5.9	1.2	0.9	1.0	1.0	0.8	0.9	0.9	0.9	0.8
225.0	17.4	17.2	16.7	16.4	16.2	15.7	15.5	15.3	14.9	14.7
270.0	17.4	17.2	16.7	16.4	16.2	15.7	15.5	15.3	14.9	14.7
315.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9
360.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.9

Cly	130.0	131.0	132.0	133.0	134.0	135.0	136.0	137.0	138.0	139.0
0.0	0.9	0.8	0.9	0.9	0.8	0.9	0.8	0.8	0.8	0.8
45.0	14.6	14.3	14.0	13.7	13.4	13.2	12.9	12.7	12.3	12.0
90.0	14.6	14.3	14.0	13.7	13.4	13.2	12.9	12.7	12.3	12.0
135.0	0.9	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.9	0.8
180.0	0.9	0.9	0.8	0.9	0.9	0.9	0.8	0.9	0.9	0.8
225.0	14.6	14.2	14.0	13.8	13.4	13.2	13.0	12.7	12.3	12.1
270.0	14.6	14.2	14.0	13.8	13.4	13.2	13.0	12.7	12.3	12.1
315.0	0.9	0.8	0.9	0.9	0.8	0.9	0.8	0.8	0.8	0.8
360.0	0.9	0.8	0.9	0.9	0.8	0.9	0.8	0.8	0.8	0.8

Cly	140.0	141.0	142.0	143.0	144.0	145.0	146.0	147.0	148.0	149.0
0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
45.0	11.8	11.4	11.1	10.9	10.4	10.1	9.9	9.4	9.0	8.8
90.0	11.8	11.4	11.1	10.9	10.4	10.1	9.9	9.4	9.0	8.8
135.0	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8
180.0	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8
225.0	11.8	11.4	11.2	10.9	10.3	10.1	9.8	9.2	9.0	8.6
270.0	11.8	11.4	11.2	10.9	10.3	10.1	9.8	9.2	9.0	8.6
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

Cly	150.0	151.0	152.0	153.0	154.0	155.0	156.0	157.0	158.0	159.0
0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
45.0	8.2	7.7	6.9	2.2	0.8	0.9	0.9	0.8	0.9	0.9
90.0	8.2	7.7	6.9	2.2	0.8	0.9	0.9	0.8	0.9	0.9
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	7.7	7.0	6.6	5.3	2.3	0.9	0.8	0.9	0.9	0.8
270.0	7.7	7.0	6.6	5.3	2.3	0.9	0.8	0.9	0.9	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

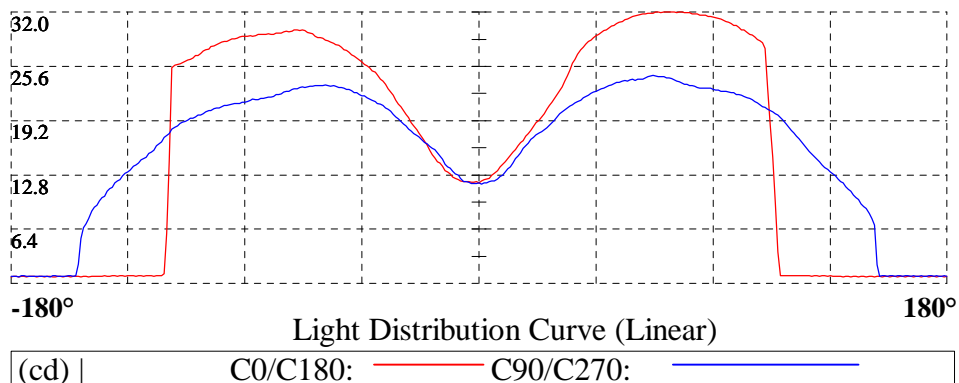
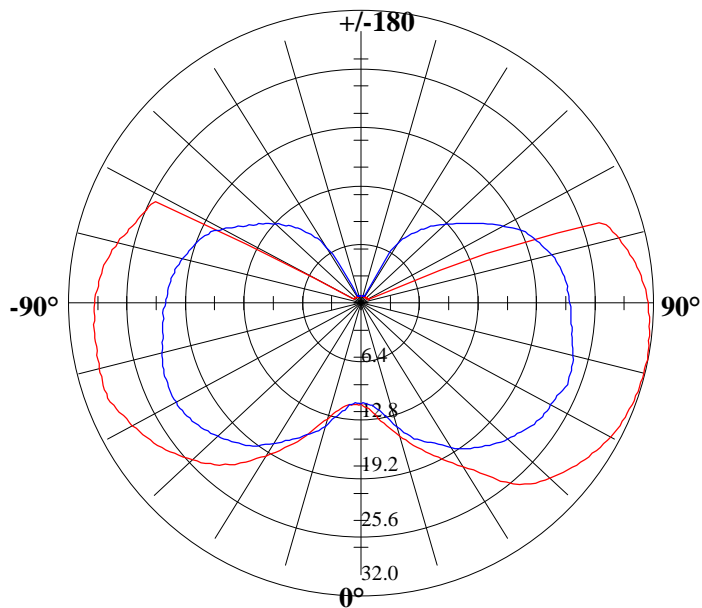
Photometric Data Table [cd]

Cly	160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0
0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
45.0	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.8	0.8
90.0	0.8	0.9	0.9	0.8	0.9	0.9	0.8	0.9	0.8	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	0.9	0.9	0.8	0.8	0.8	0.8	0.8
270.0	0.8	0.8	0.8	0.9	0.9	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

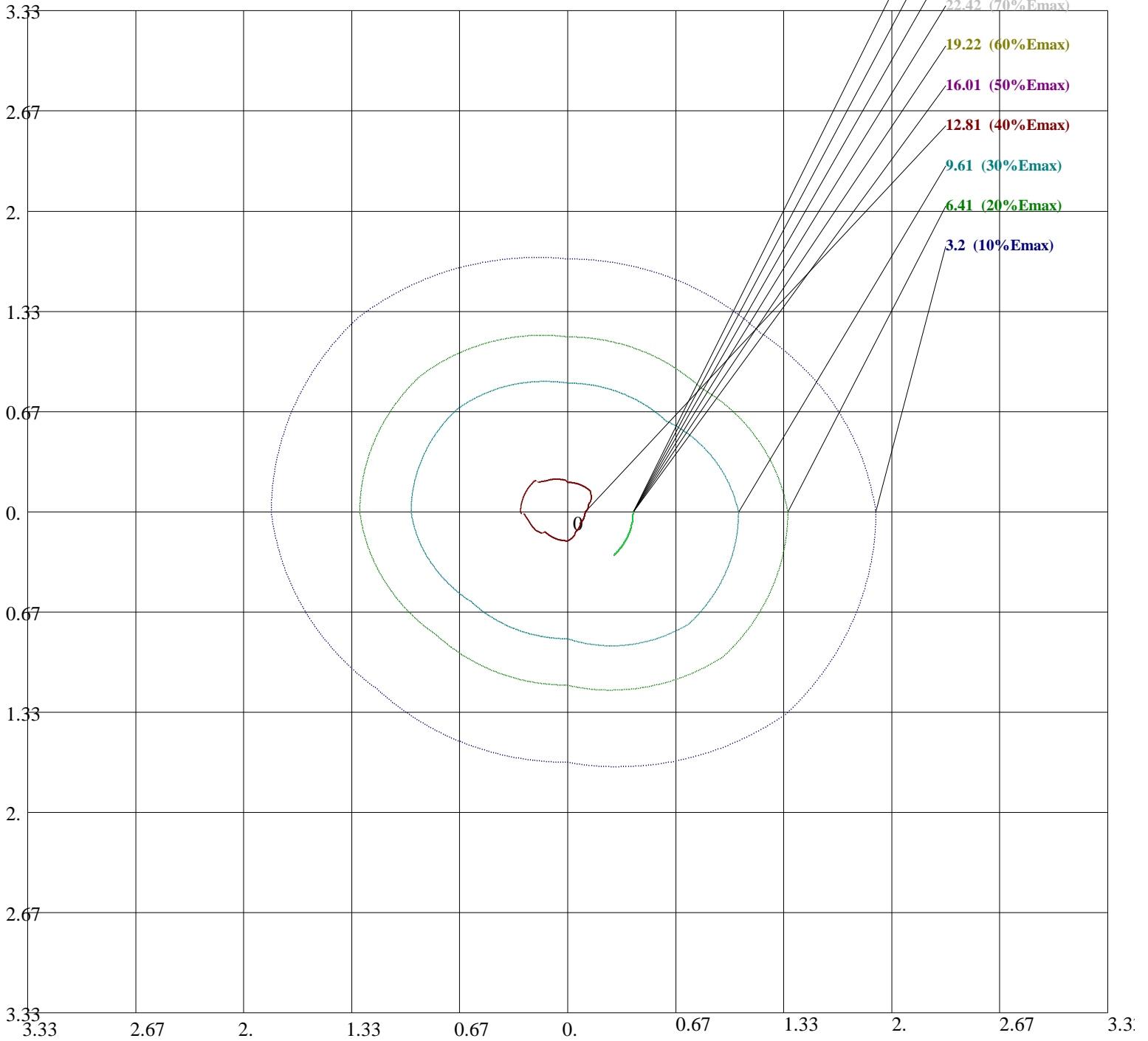
Cly	170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
45.0	0.9	0.8	0.8	0.9	0.9	0.8	0.9	0.8	0.8	0.9
90.0	0.9	0.8	0.8	0.9	0.9	0.8	0.9	0.8	0.8	0.9
135.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
225.0	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.8
270.0	0.8	0.8	0.8	0.8	0.8	0.9	0.9	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

Cly	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 : 32.03lx

Luminance Limiting Curve

Diameter: 200mm

Length: mm

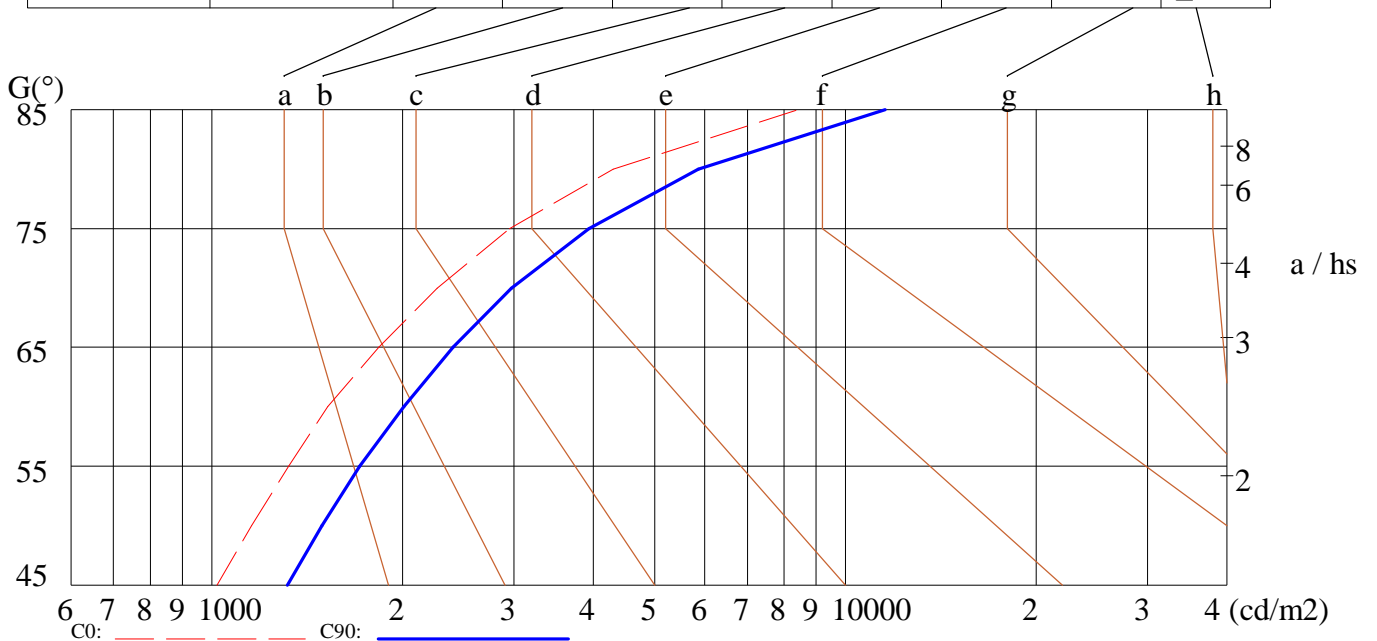
Width: mm

Height: mm

(cd/m²)

γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	1019	1155	1324	1525	1836	2269	2953	4304	8420
C90	1316	1493	1714	2010	2402	2973	3941	5855	11549

Glare	Quality	Service Values Illuminance (lx)							
		2000	1000	500	≤300				
1.15	A								
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

