

## Luminaire Property

Luminaire: RH-RPL03 3W 4000K

Report NO.:

Test NO.:

Lamp:

Sum Lumens: 165.4 lm

Number of Lamps: 1

Diameter: 85mm

Length: mm

Photometric Type: Type C

Voltage: 230.9 V

Current: 0.028 A

Power: 3.1 W

Power Factor: 0.486

Ballast Type: 300mA

Width: 85mm

Height: 25mm

Remark: SMD2835 3C5B

## Photometric Results

Lumens: 165.40 lm

Efficiency: 53.3548 lm/W

Central Intensity: 58.388cd

Maximum Intensity: 58.842cd

Beam Angle(10%): Left: -81.8 Right:80.1

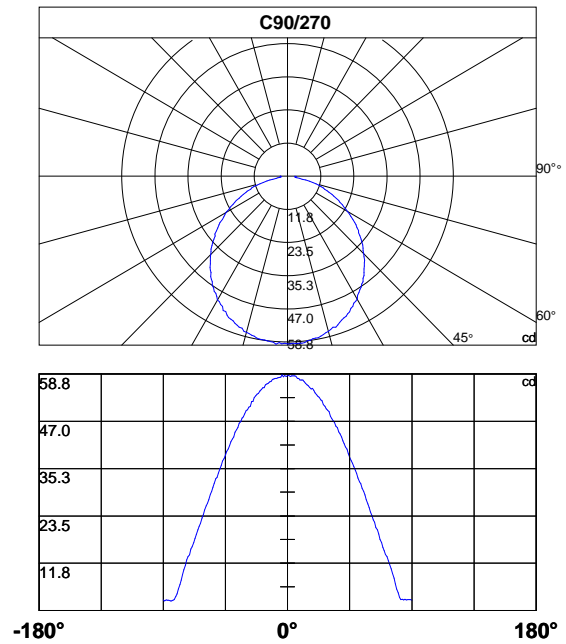
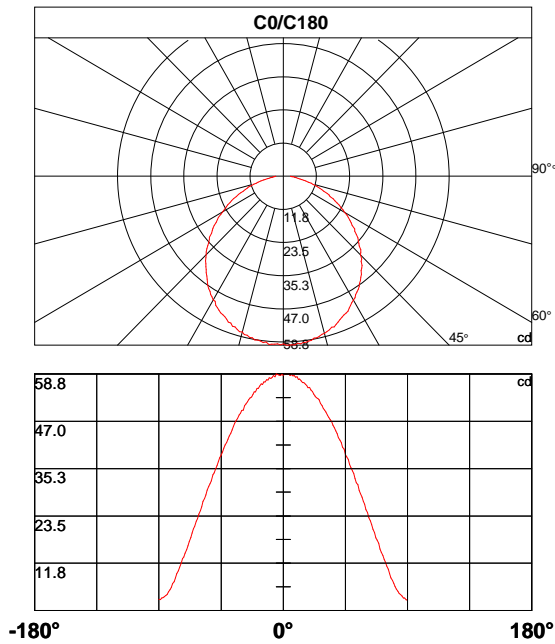
Angle of maximum intensity: C:0.0 G:1.0

Half Peak Side Angle(50%): Left: -56.4 Right:54.6

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%



### Photometric Data Table [cd]

C\G	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	58.4	58.8	58.8	58.8	58.8	58.4	58.7	58.3	58.4	58.0
45.0	58.4	58.4	58.2	58.3	58.3	58.3	58.2	57.7	57.7	57.3
90.0	58.4	58.4	58.2	58.3	58.3	58.3	58.2	57.7	57.7	57.3
135.0	58.4	58.7	58.4	58.5	58.6	58.8	58.1	58.4	58.0	57.7
180.0	58.4	58.7	58.4	58.5	58.6	58.8	58.1	58.4	58.0	57.7
225.0	58.4	58.2	58.4	58.1	58.6	58.0	57.9	57.9	57.7	57.7
270.0	58.4	58.2	58.4	58.1	58.6	58.0	57.9	57.9	57.7	57.7
315.0	58.4	58.8	58.8	58.8	58.8	58.4	58.7	58.3	58.4	58.0
360.0	58.4	58.8	58.8	58.8	58.8	58.4	58.7	58.3	58.4	58.0

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	58.1	57.5	57.6	57.1	56.7	56.6	56.3	55.9	55.4	55.5
45.0	57.3	57.3	57.0	56.5	56.1	55.9	55.5	55.1	55.3	54.8
90.0	57.3	57.3	57.0	56.5	56.1	55.9	55.5	55.1	55.3	54.8
135.0	57.9	57.3	57.4	56.8	56.8	56.2	56.3	55.8	55.2	55.2
180.0	57.9	57.3	57.4	56.8	56.8	56.2	56.3	55.8	55.2	55.2
225.0	57.6	57.5	57.0	56.8	56.5	56.3	56.1	55.4	55.4	54.9
270.0	57.6	57.5	57.0	56.8	56.5	56.3	56.1	55.4	55.4	54.9
315.0	58.1	57.5	57.6	57.1	56.7	56.6	56.3	55.9	55.4	55.5
360.0	58.1	57.5	57.6	57.1	56.7	56.6	56.3	55.9	55.4	55.5

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	54.9	54.4	53.8	53.3	52.9	52.7	52.3	51.5	50.9	50.3
45.0	54.1	53.6	53.3	53.0	52.4	52.1	51.2	50.8	50.1	49.8
90.0	54.1	53.6	53.3	53.0	52.4	52.1	51.2	50.8	50.1	49.8
135.0	54.4	54.4	53.7	53.1	52.8	52.5	51.9	51.4	50.9	49.8
180.0	54.4	54.4	53.7	53.1	52.8	52.5	51.9	51.4	50.9	49.8
225.0	54.6	54.0	53.8	53.4	53.0	52.0	52.0	50.8	50.6	49.9
270.0	54.6	54.0	53.8	53.4	53.0	52.0	52.0	50.8	50.6	49.9
315.0	54.9	54.4	53.8	53.3	52.9	52.7	52.3	51.5	50.9	50.3
360.0	54.9	54.4	53.8	53.3	52.9	52.7	52.3	51.5	50.9	50.3

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	49.8	49.4	48.5	48.0	47.5	47.0	46.1	45.5	44.7	44.0
45.0	49.4	48.4	47.7	47.1	46.7	45.9	45.4	44.4	44.0	43.1
90.0	49.4	48.4	47.7	47.1	46.7	45.9	45.4	44.4	44.0	43.1
135.0	49.7	49.0	48.6	47.8	47.2	46.6	45.8	44.9	44.1	43.4
180.0	49.7	49.0	48.6	47.8	47.2	46.6	45.8	44.9	44.1	43.4
225.0	49.7	48.9	48.1	47.9	46.9	46.5	45.5	45.0	44.4	43.1
270.0	49.7	48.9	48.1	47.9	46.9	46.5	45.5	45.0	44.4	43.1
315.0	49.8	49.4	48.5	48.0	47.5	47.0	46.1	45.5	44.7	44.0
360.0	49.8	49.4	48.5	48.0	47.5	47.0	46.1	45.5	44.7	44.0

### Photometric Data Table [cd]

C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	42.9	42.4	41.8	40.5	40.1	38.8	38.2	37.6	36.3	35.5
45.0	42.2	41.5	40.6	40.1	39.0	38.1	37.3	36.7	35.8	34.9
90.0	42.2	41.5	40.6	40.1	39.0	38.1	37.3	36.7	35.8	34.9
135.0	42.5	41.8	41.1	40.4	39.4	38.6	38.0	37.0	36.0	35.1
180.0	42.5	41.8	41.1	40.4	39.4	38.6	38.0	37.0	36.0	35.1
225.0	42.7	42.0	41.0	40.2	39.5	38.6	37.8	37.2	36.0	35.3
270.0	42.7	42.0	41.0	40.2	39.5	38.6	37.8	37.2	36.0	35.3
315.0	42.9	42.4	41.8	40.5	40.1	38.8	38.2	37.6	36.3	35.5
360.0	42.9	42.4	41.8	40.5	40.1	38.8	38.2	37.6	36.3	35.5

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	34.7	34.1	32.8	31.7	31.3	29.9	29.1	28.2	27.1	26.4
45.0	34.1	33.0	32.0	31.5	30.4	29.6	28.7	27.6	26.5	25.6
90.0	34.1	33.0	32.0	31.5	30.4	29.6	28.7	27.6	26.5	25.6
135.0	34.2	33.7	32.3	31.5	30.9	29.9	28.7	27.8	27.1	25.8
180.0	34.2	33.7	32.3	31.5	30.9	29.9	28.7	27.8	27.1	25.8
225.0	34.1	33.1	32.8	31.6	30.6	29.6	28.9	27.6	26.6	26.1
270.0	34.1	33.1	32.8	31.6	30.6	29.6	28.9	27.6	26.6	26.1
315.0	34.7	34.1	32.8	31.7	31.3	29.9	29.1	28.2	27.1	26.4
360.0	34.7	34.1	32.8	31.7	31.3	29.9	29.1	28.2	27.1	26.4

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	25.1	24.3	23.1	22.3	21.3	20.2	19.4	18.1	17.5	16.7
45.0	24.5	23.6	22.5	21.9	20.6	20.0	19.0	17.7	16.9	15.6
90.0	24.5	23.6	22.5	21.9	20.6	20.0	19.0	17.7	16.9	15.6
135.0	24.8	23.9	22.8	22.2	21.0	20.3	19.2	18.1	17.1	16.1
180.0	24.8	23.9	22.8	22.2	21.0	20.3	19.2	18.1	17.1	16.1
225.0	25.0	23.8	23.0	21.7	20.9	20.0	18.9	17.9	16.9	15.8
270.0	25.0	23.8	23.0	21.7	20.9	20.0	18.9	17.9	16.9	15.8
315.0	25.1	24.3	23.1	22.3	21.3	20.2	19.4	18.1	17.5	16.7
360.0	25.1	24.3	23.1	22.3	21.3	20.2	19.4	18.1	17.5	16.7

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	15.2	14.5	13.6	12.7	12.0	11.0	10.2	9.1	8.1	7.5
45.0	14.9	14.0	13.4	12.4	11.5	10.4	9.2	8.0	6.6	5.4
90.0	14.9	14.0	13.4	12.4	11.5	10.4	9.2	8.0	6.6	5.4
135.0	15.1	14.2	13.3	12.9	11.8	10.7	9.9	9.2	8.1	7.2
180.0	15.1	14.2	13.3	12.9	11.8	10.7	9.9	9.2	8.1	7.2
225.0	15.3	13.9	13.4	12.6	11.2	10.1	8.9	7.5	6.4	5.4
270.0	15.3	13.9	13.4	12.6	11.2	10.1	8.9	7.5	6.4	5.4
315.0	15.2	14.5	13.6	12.7	12.0	11.0	10.2	9.1	8.1	7.5
360.0	15.2	14.5	13.6	12.7	12.0	11.0	10.2	9.1	8.1	7.5

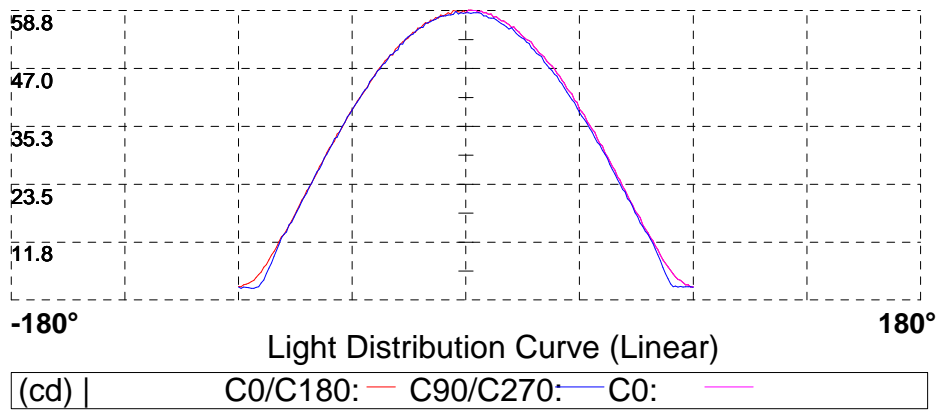
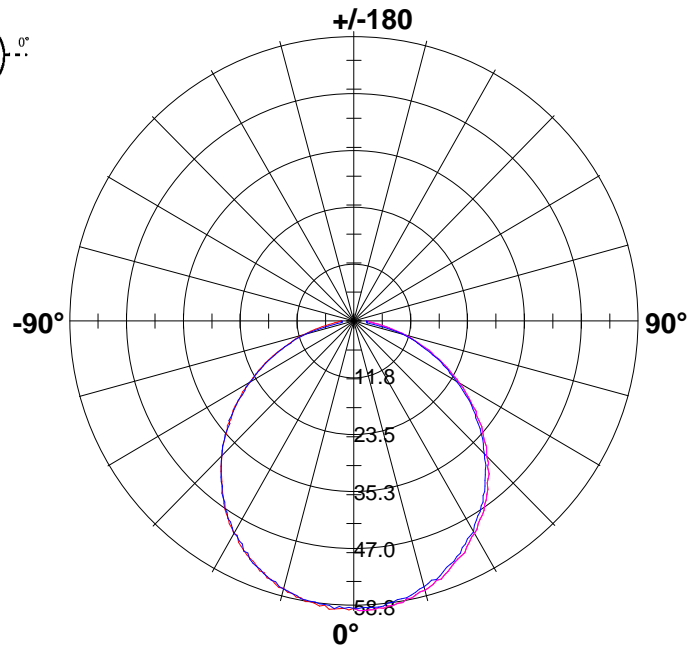
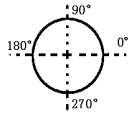
### Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.7	6.0	5.3	4.8	4.2	4.0	3.5	3.1	3.1	2.7
45.0	4.3	3.3	2.7	2.8	2.7	2.8	2.7	2.7	2.7	2.7
90.0	4.3	3.3	2.7	2.8	2.7	2.8	2.7	2.7	2.7	2.7
135.0	6.7	5.7	5.2	4.6	4.0	3.7	3.4	3.2	3.1	2.7
180.0	6.7	5.7	5.2	4.6	4.0	3.7	3.4	3.2	3.1	2.7
225.0	4.1	3.5	2.7	2.6	2.4	2.4	2.5	2.6	2.6	2.4
270.0	4.1	3.5	2.7	2.6	2.4	2.4	2.5	2.6	2.6	2.4
315.0	6.7	6.0	5.3	4.8	4.2	4.0	3.5	3.1	3.1	2.7
360.0	6.7	6.0	5.3	4.8	4.2	4.0	3.5	3.1	3.1	2.7

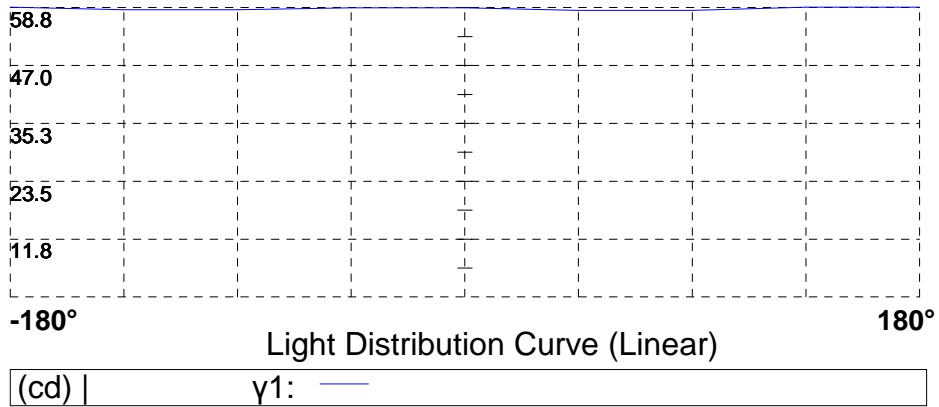
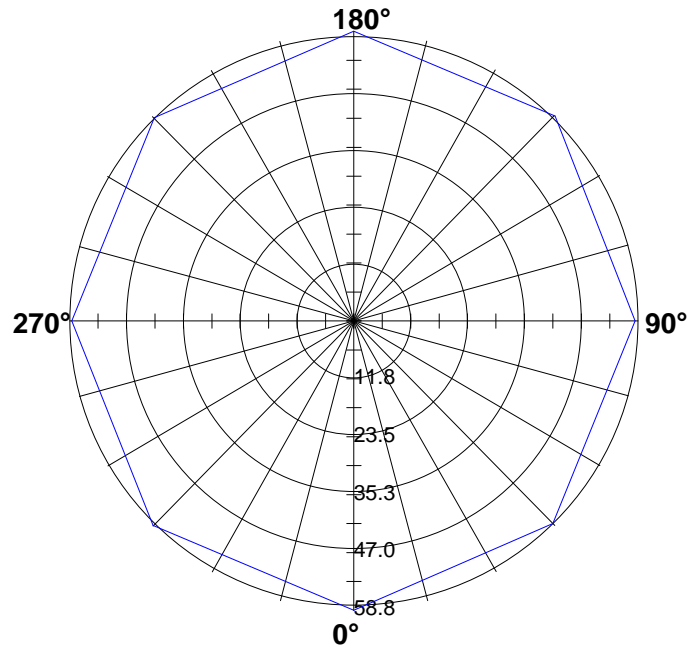
C\G	90.0
0.0	2.7
45.0	2.6
90.0	2.6
135.0	2.8
180.0	2.8
225.0	2.7
270.0	2.7
315.0	2.7
360.0	2.7

Light Distribution Curve [Unit: cd]

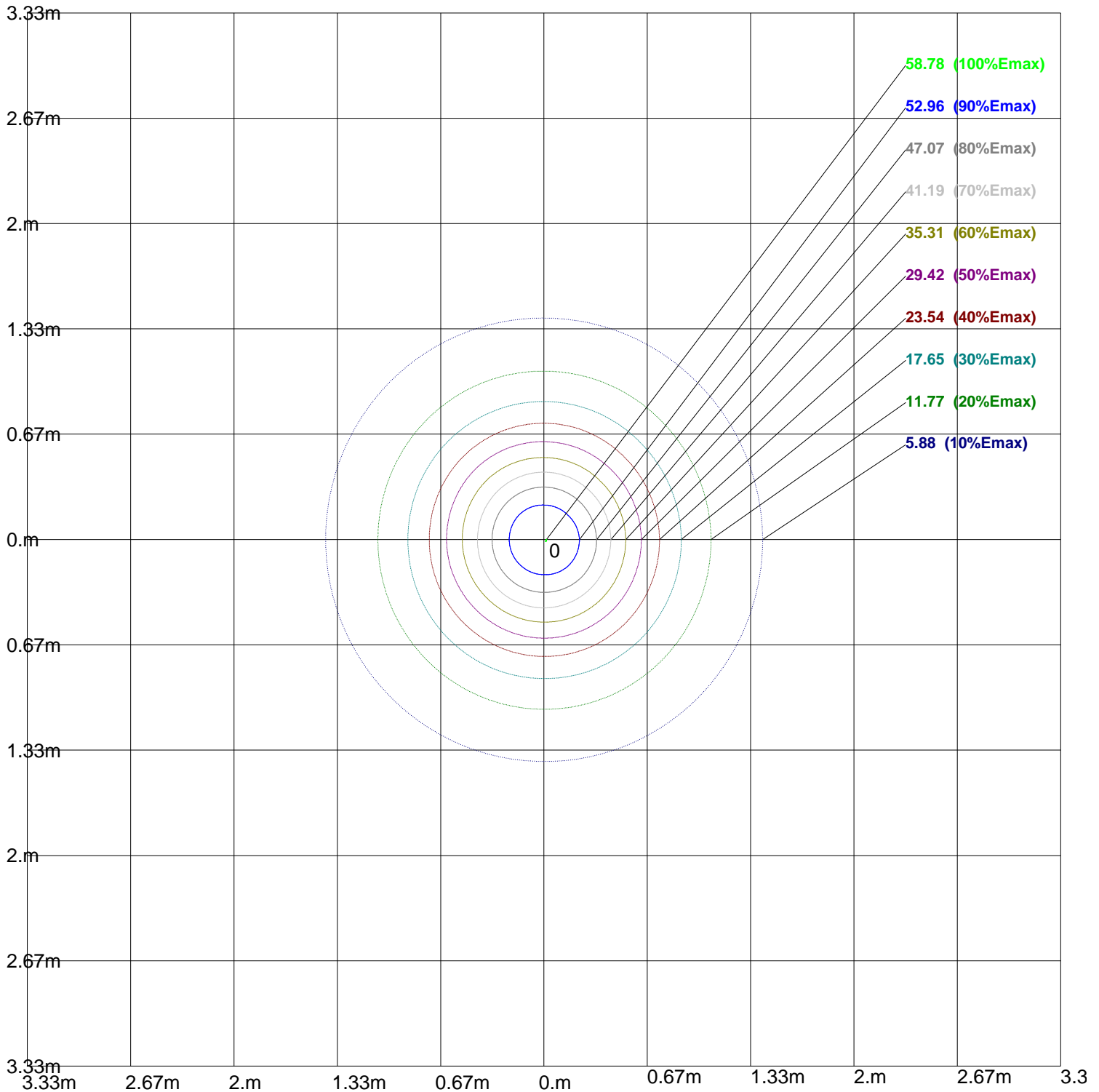
Luminaire



**Max Plane Light Distribution Curve [Unit: cd]**



### Iso-Lux[lx]



Height: 1 m  
Max Illuminance : 58.84lx

## Luminance Limiting Curve

Diameter: 85mm

Length: mm

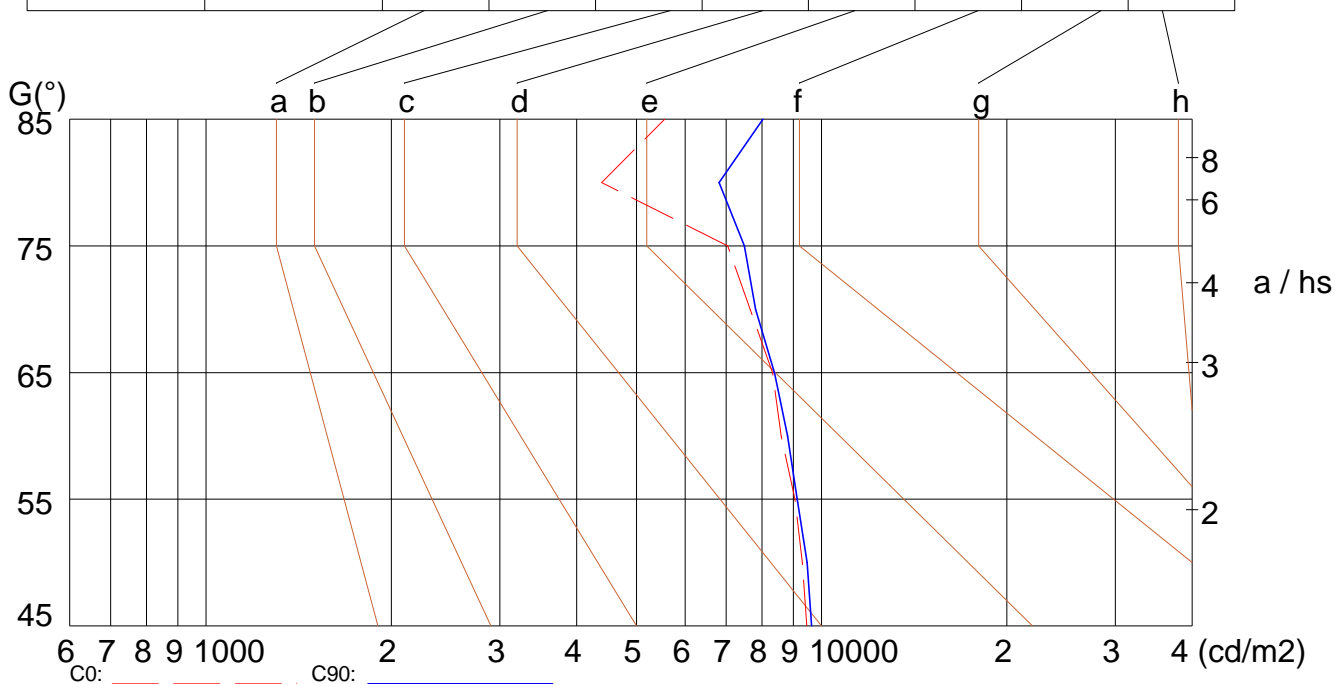
Width: 85mm

Height: 25mm

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

$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	9462	9307	9054	8592	8319	7657	7035	4390	5557
C90	9627	9474	9132	8807	8383	7815	7485	6818	8027

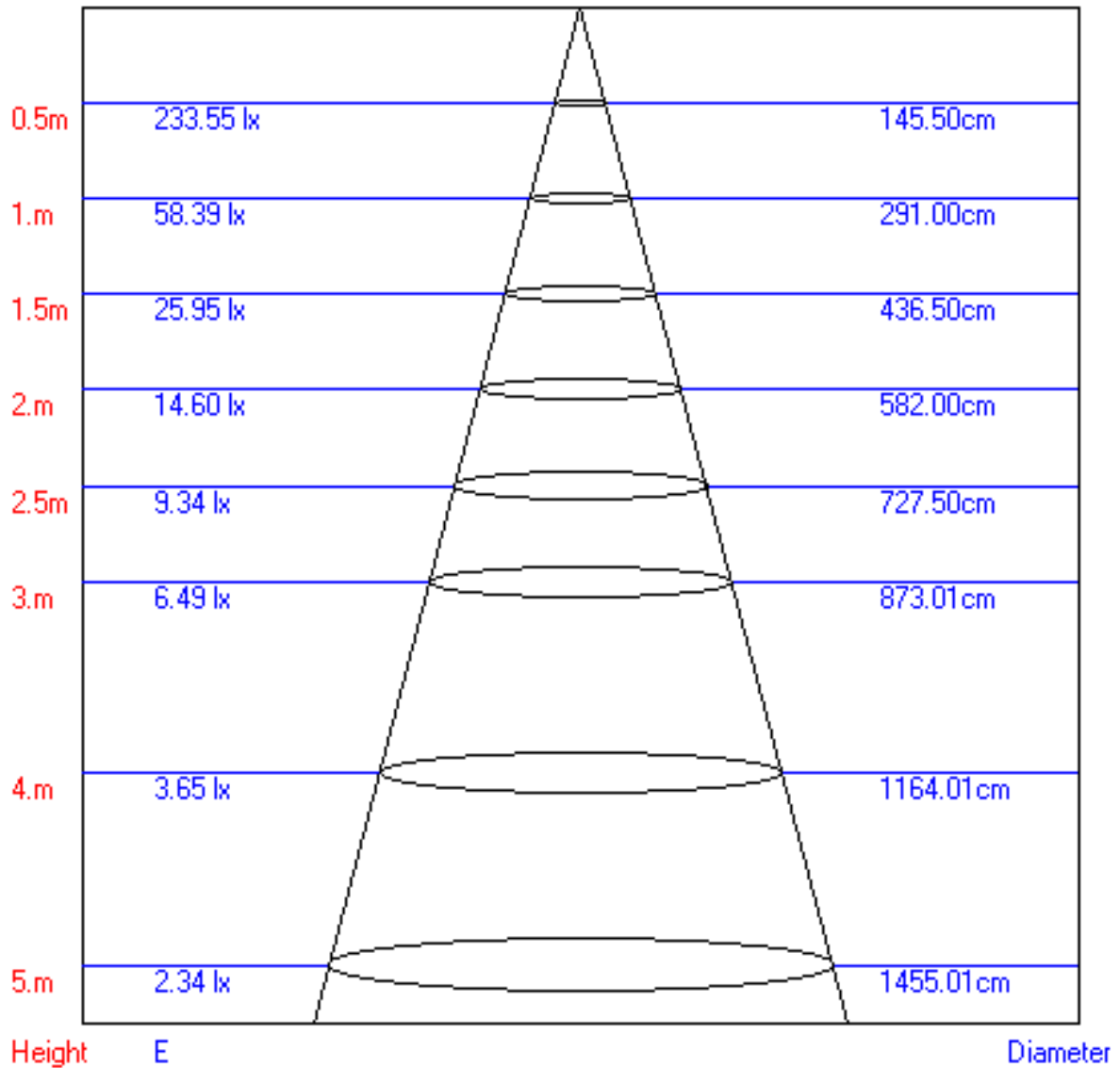
Glare	Quality	Service Values Illuminance (lx)							
1.15	A	2000	1000	500	≤300				
1.5	B		2000	1000	500	≤300			
1.85	C			2000	1000	500	≤300		
2.2	D				2000	1000	500	≤300	
2.55	E					2000	1000	500	≤300



Lum. Limiting Curve (C0/C90)



### Lux-Distance Curve



Beam Angle:111.00°

Utilization Coefficient Table

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.04	1.02	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.88	0.86	0.83	0.78
2	0.88	0.86	0.84	0.88	0.85	0.82	0.86	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.70	0.65
3	0.76	0.73	0.71	0.76	0.72	0.69	0.74	0.70	0.66	0.72	0.67	0.63	0.69	0.64	0.59	0.55
4	0.65	0.62	0.60	0.66	0.62	0.59	0.65	0.60	0.57	0.64	0.59	0.54	0.62	0.56	0.51	0.47
5	0.57	0.54	0.52	0.58	0.54	0.51	0.58	0.53	0.49	0.57	0.51	0.47	0.56	0.50	0.44	0.41
6	0.50	0.47	0.46	0.51	0.47	0.45	0.52	0.47	0.43	0.52	0.46	0.41	0.51	0.44	0.39	0.36
7	0.45	0.42	0.40	0.46	0.42	0.40	0.47	0.42	0.38	0.47	0.41	0.36	0.47	0.40	0.35	0.31
8	0.40	0.38	0.36	0.41	0.38	0.35	0.42	0.37	0.34	0.43	0.37	0.33	0.43	0.36	0.31	0.28
9	0.36	0.34	0.32	0.37	0.34	0.32	0.39	0.34	0.31	0.39	0.34	0.29	0.40	0.33	0.28	0.25
10	0.33	0.31	0.29	0.34	0.31	0.29	0.36	0.31	0.28	0.36	0.31	0.27	0.37	0.30	0.26	0.23

