

Luminaire Property

Luminaire: RH-SPL03 3W 4000K

Report NO.:

Test NO.:

Lamp:

Sum Lumens: 148.56 lm

Number of Lamps: 1

Diameter: mm

Length: 85mm

Photometric Type: Type C

Voltage: 110.2 V

Current: 0.052 A

Power: 3.3 W

Power Factor: 0.576

Ballast Type: 300mA

Width: 85mm

Height: 25mm

Remark: SMD2835 3C5B

Photometric Results

Lumens: 148.56 lm

Efficiency: 45.0182 lm/W

Central Intensity: 47.669cd

Maximum Intensity: 49.435cd

Angle of maximum intensity: C:135.0 G:7.0

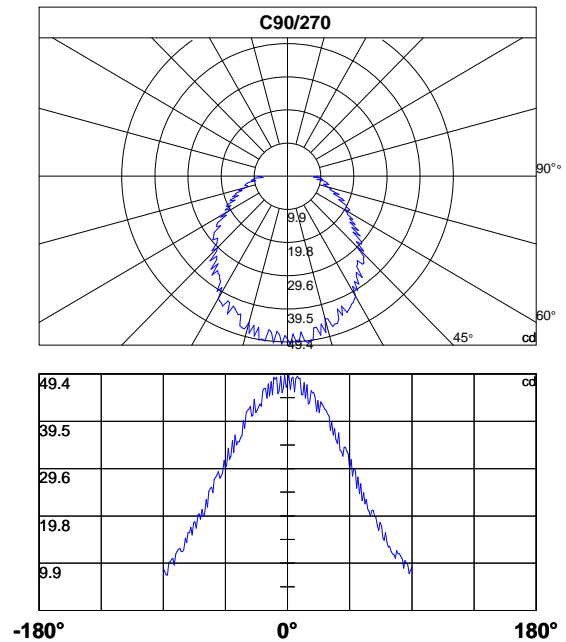
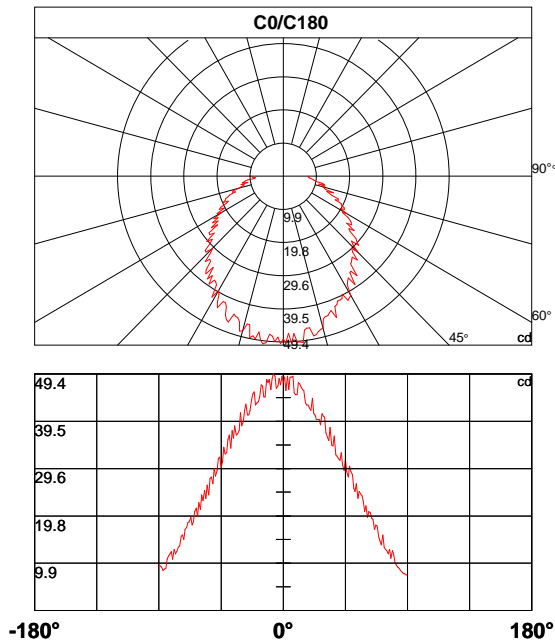
Half Peak Side Angle(50%): Left: -62.3 Right:50.2

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -56.4 Right:49.4



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	47.7	48.7	46.0	49.0	46.2	48.7	48.7	49.0	45.5	45.0
45.0	47.7	49.2	46.2	48.5	48.7	45.7	48.5	49.0	48.5	48.5
90.0	47.7	49.2	46.2	48.5	48.7	45.7	48.5	49.0	48.5	48.5
135.0	47.7	49.0	47.1	48.5	46.9	46.4	49.0	49.4	48.5	46.2
180.0	47.7	49.0	47.1	48.5	46.9	46.4	49.0	49.4	48.5	46.2
225.0	47.7	46.6	49.2	46.4	45.5	49.0	46.0	45.2	48.7	48.3
270.0	47.7	46.6	49.2	46.4	45.5	49.0	46.0	45.2	48.7	48.3
315.0	47.7	48.7	46.0	49.0	46.2	48.7	48.7	49.0	45.5	45.0
360.0	47.7	48.7	46.0	49.0	46.2	48.7	48.7	49.0	45.5	45.0

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	45.0	47.6	47.3	46.6	46.2	46.0	43.4	42.9	42.9	42.2
45.0	45.0	45.0	47.6	44.3	47.1	43.1	43.4	46.0	45.5	45.5
90.0	45.0	45.0	47.6	44.3	47.1	43.1	43.4	46.0	45.5	45.5
135.0	48.3	47.6	48.3	44.6	44.6	46.9	47.1	44.6	43.6	43.4
180.0	48.3	47.6	48.3	44.6	44.6	46.9	47.1	44.6	43.6	43.4
225.0	48.7	45.0	47.8	44.8	47.3	44.3	46.4	46.4	46.0	42.7
270.0	48.7	45.0	47.8	44.8	47.3	44.3	46.4	46.4	46.0	42.7
315.0	45.0	47.6	47.3	46.6	46.2	46.0	43.4	42.9	42.9	42.2
360.0	45.0	47.6	47.3	46.6	46.2	46.0	43.4	42.9	42.9	42.2

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	41.8	44.3	41.1	40.8	39.9	39.9	39.9	38.8	41.1	40.6
45.0	44.6	41.6	43.9	41.3	43.6	43.1	42.7	42.0	41.8	41.1
90.0	44.6	41.6	43.9	41.3	43.6	43.1	42.7	42.0	41.8	41.1
135.0	42.9	45.7	45.2	44.1	41.8	40.8	40.8	43.1	41.8	39.5
180.0	42.9	45.7	45.2	44.1	41.8	40.8	40.8	43.1	41.8	39.5
225.0	43.1	42.5	41.8	41.3	44.1	40.8	40.6	42.7	42.0	41.8
270.0	43.1	42.5	41.8	41.3	44.1	40.8	40.6	42.7	42.0	41.8
315.0	41.8	44.3	41.1	40.8	39.9	39.9	39.9	38.8	41.1	40.6
360.0	41.8	44.3	41.1	40.8	39.9	39.9	39.9	38.8	41.1	40.6

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	40.4	37.1	36.2	35.5	38.3	34.6	34.4	36.5	32.5	32.3
45.0	40.6	37.6	39.5	36.7	38.0	35.7	34.8	37.1	33.4	33.2
90.0	40.6	37.6	39.5	36.7	38.0	35.7	34.8	37.1	33.4	33.2
135.0	38.5	41.3	37.6	36.9	36.7	38.5	36.0	37.6	33.9	36.7
180.0	38.5	41.3	37.6	36.9	36.7	38.5	36.0	37.6	33.9	36.7
225.0	41.3	38.0	39.7	36.7	36.2	35.3	35.3	34.6	36.7	33.0
270.0	41.3	38.0	39.7	36.7	36.2	35.3	35.3	34.6	36.7	33.0
315.0	40.4	37.1	36.2	35.5	38.3	34.6	34.4	36.5	32.5	32.3
360.0	40.4	37.1	36.2	35.5	38.3	34.6	34.4	36.5	32.5	32.3

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	31.8	31.3	33.0	30.4	29.2	31.5	29.0	27.9	30.2	29.0
45.0	32.3	34.1	34.1	33.2	32.7	29.5	31.5	28.1	29.7	29.2
90.0	32.3	34.1	34.1	33.2	32.7	29.5	31.5	28.1	29.7	29.2
135.0	35.7	33.0	32.7	34.1	31.1	30.0	32.0	31.8	29.2	28.1
180.0	35.7	33.0	32.7	34.1	31.1	30.0	32.0	31.8	29.2	28.1
225.0	35.5	32.3	31.5	33.9	30.4	29.7	31.3	28.8	28.1	27.6
270.0	35.5	32.3	31.5	33.9	30.4	29.7	31.3	28.8	28.1	27.6
315.0	31.8	31.3	33.0	30.4	29.2	31.5	29.0	27.9	30.2	29.0
360.0	31.8	31.3	33.0	30.4	29.2	31.5	29.0	27.9	30.2	29.0

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	28.3	25.5	24.8	26.5	23.4	24.8	24.4	23.9	22.7	20.7
45.0	25.5	27.9	24.4	26.5	23.0	24.6	22.3	23.2	21.1	20.7
90.0	25.5	27.9	24.4	26.5	23.0	24.6	22.3	23.2	21.1	20.7
135.0	29.7	26.5	27.9	27.6	24.1	26.2	23.4	25.1	23.0	24.1
180.0	29.7	26.5	27.9	27.6	24.1	26.2	23.4	25.1	23.0	24.1
225.0	29.0	28.3	27.9	27.4	24.6	25.8	25.5	24.8	21.6	23.2
270.0	29.0	28.3	27.9	27.4	24.6	25.8	25.5	24.8	21.6	23.2
315.0	28.3	25.5	24.8	26.5	23.4	24.8	24.4	23.9	22.7	20.7
360.0	28.3	25.5	24.8	26.5	23.4	24.8	24.4	23.9	22.7	20.7

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	21.8	19.5	20.7	20.4	19.3	19.0	16.9	17.9	17.6	15.3
45.0	19.7	20.9	20.9	19.7	19.5	17.6	16.7	18.4	17.6	15.1
90.0	19.7	20.9	20.9	19.7	19.5	17.6	16.7	18.4	17.6	15.1
135.0	21.1	22.5	19.7	21.4	20.7	18.6	17.9	19.5	18.6	18.4
180.0	21.1	22.5	19.7	21.4	20.7	18.6	17.9	19.5	18.6	18.4
225.0	20.2	19.7	21.1	19.0	20.2	19.9	17.2	18.6	18.4	15.8
270.0	20.2	19.7	21.1	19.0	20.2	19.9	17.2	18.6	18.4	15.8
315.0	21.8	19.5	20.7	20.4	19.3	19.0	16.9	17.9	17.6	15.3
360.0	21.8	19.5	20.7	20.4	19.3	19.0	16.9	17.9	17.6	15.3

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	14.5	13.7	15.8	13.2	12.8	12.5	11.9	12.8	10.9	12.5
45.0	14.6	16.3	14.2	13.2	13.4	12.3	11.9	11.6	10.9	12.5
90.0	14.6	16.3	14.2	13.2	13.4	12.3	11.9	11.6	10.9	12.5
135.0	17.4	16.9	14.9	15.8	15.5	13.4	13.2	12.3	11.9	12.8
180.0	17.4	16.9	14.9	15.8	15.5	13.4	13.2	12.3	11.9	12.8
225.0	17.4	16.3	16.3	14.2	15.1	12.8	12.3	12.3	13.0	12.8
270.0	17.4	16.3	16.3	14.2	15.1	12.8	12.3	12.3	13.0	12.8
315.0	14.5	13.7	15.8	13.2	12.8	12.5	11.9	12.8	10.9	12.5
360.0	14.5	13.7	15.8	13.2	12.8	12.5	11.9	12.8	10.9	12.5

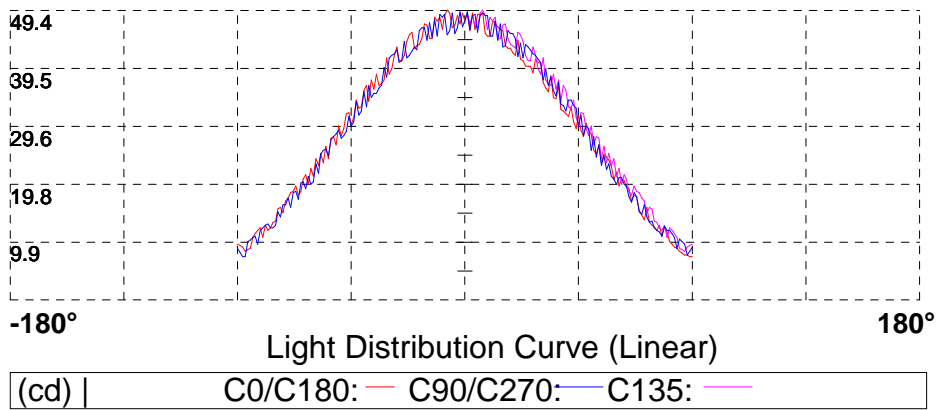
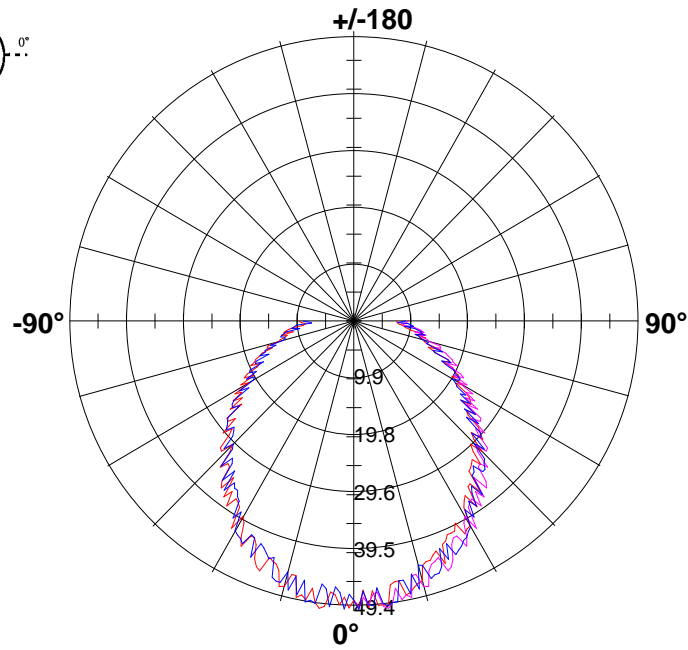
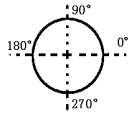
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.6	10.0	9.5	9.0	8.8	8.3	8.0	7.7	7.7	7.4
45.0	11.9	11.9	11.3	10.7	8.8	10.4	10.0	9.5	7.7	8.4
90.0	11.9	11.9	11.3	10.7	8.8	10.4	10.0	9.5	7.7	8.4
135.0	10.7	12.3	11.9	11.3	10.7	8.8	8.6	8.3	9.0	9.3
180.0	10.7	12.3	11.9	11.3	10.7	8.8	8.6	8.3	9.0	9.3
225.0	12.3	11.9	9.5	10.9	10.7	10.2	10.0	7.4	7.4	8.1
270.0	12.3	11.9	9.5	10.9	10.7	10.2	10.0	7.4	7.4	8.1
315.0	11.6	10.0	9.5	9.0	8.8	8.3	8.0	7.7	7.7	7.4
360.0	11.6	10.0	9.5	9.0	8.8	8.3	8.0	7.7	7.7	7.4

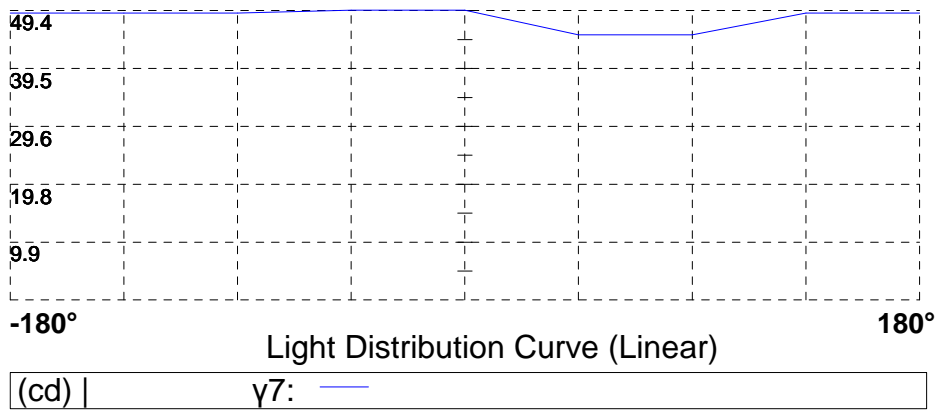
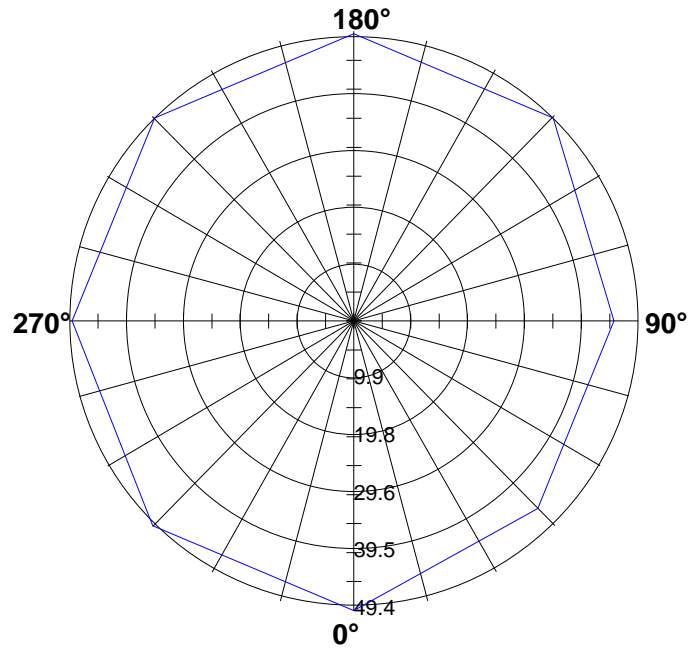
C\G	90.0
0.0	7.4
45.0	9.0
90.0	9.0
135.0	9.5
180.0	9.5
225.0	8.8
270.0	8.8
315.0	7.4
360.0	7.4

Light Distribution Curve [Unit: cd]

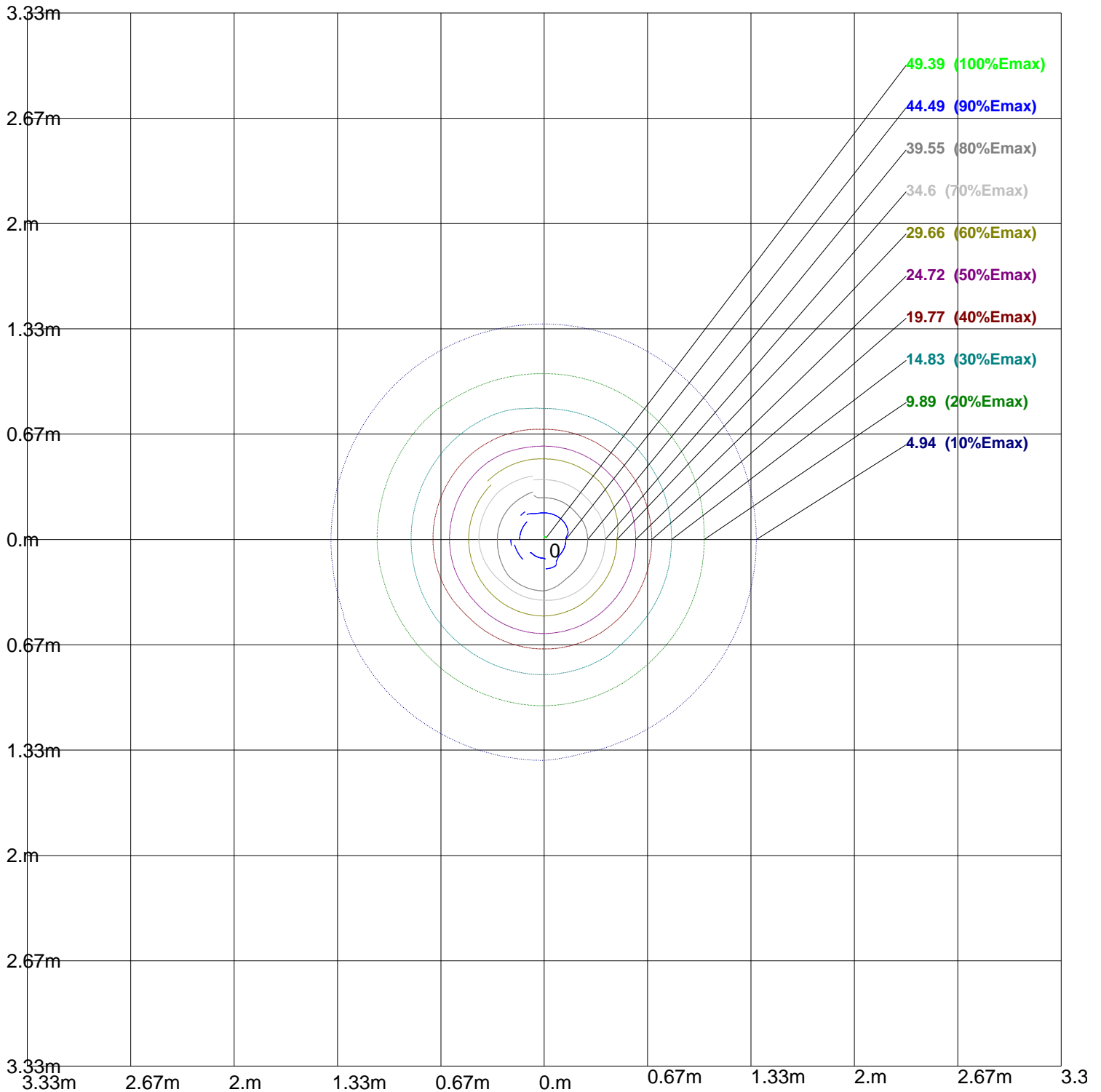
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 49.44lx

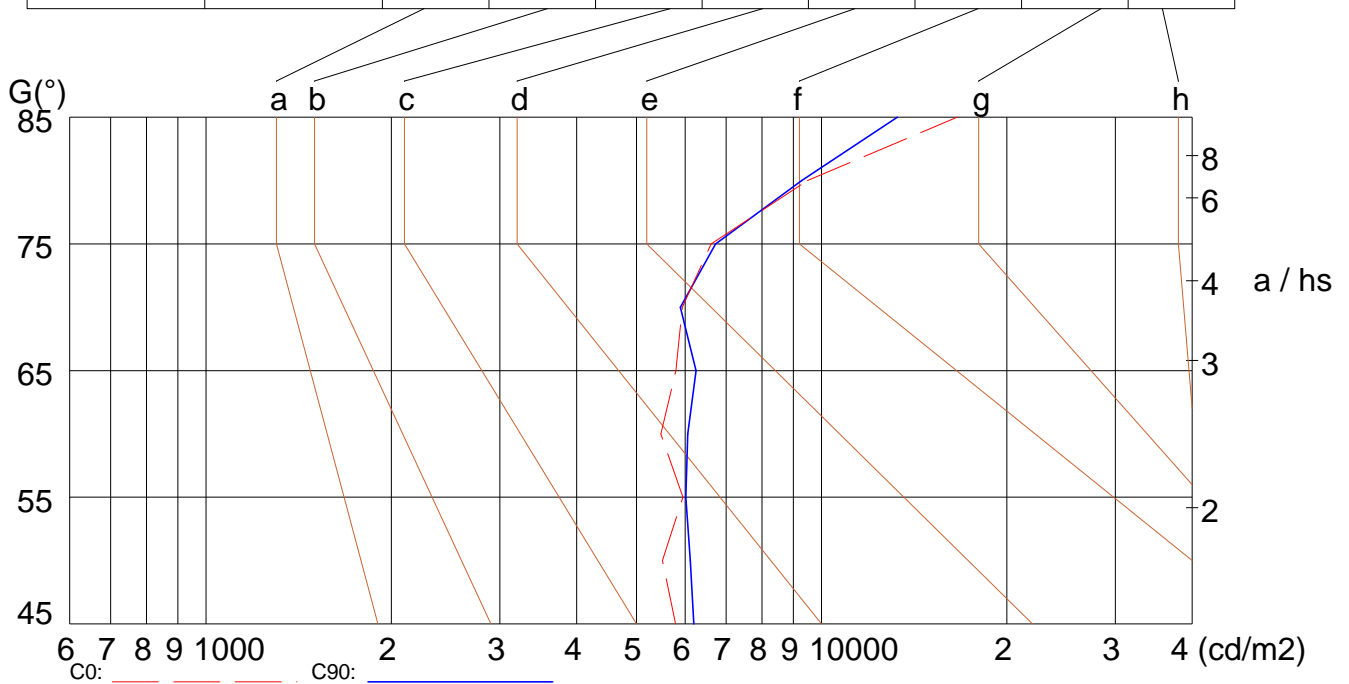
Luminance Limiting Curve

Diameter: mm
Length: 85mm
Width: 85mm
Height: 25mm

(cd/m²)

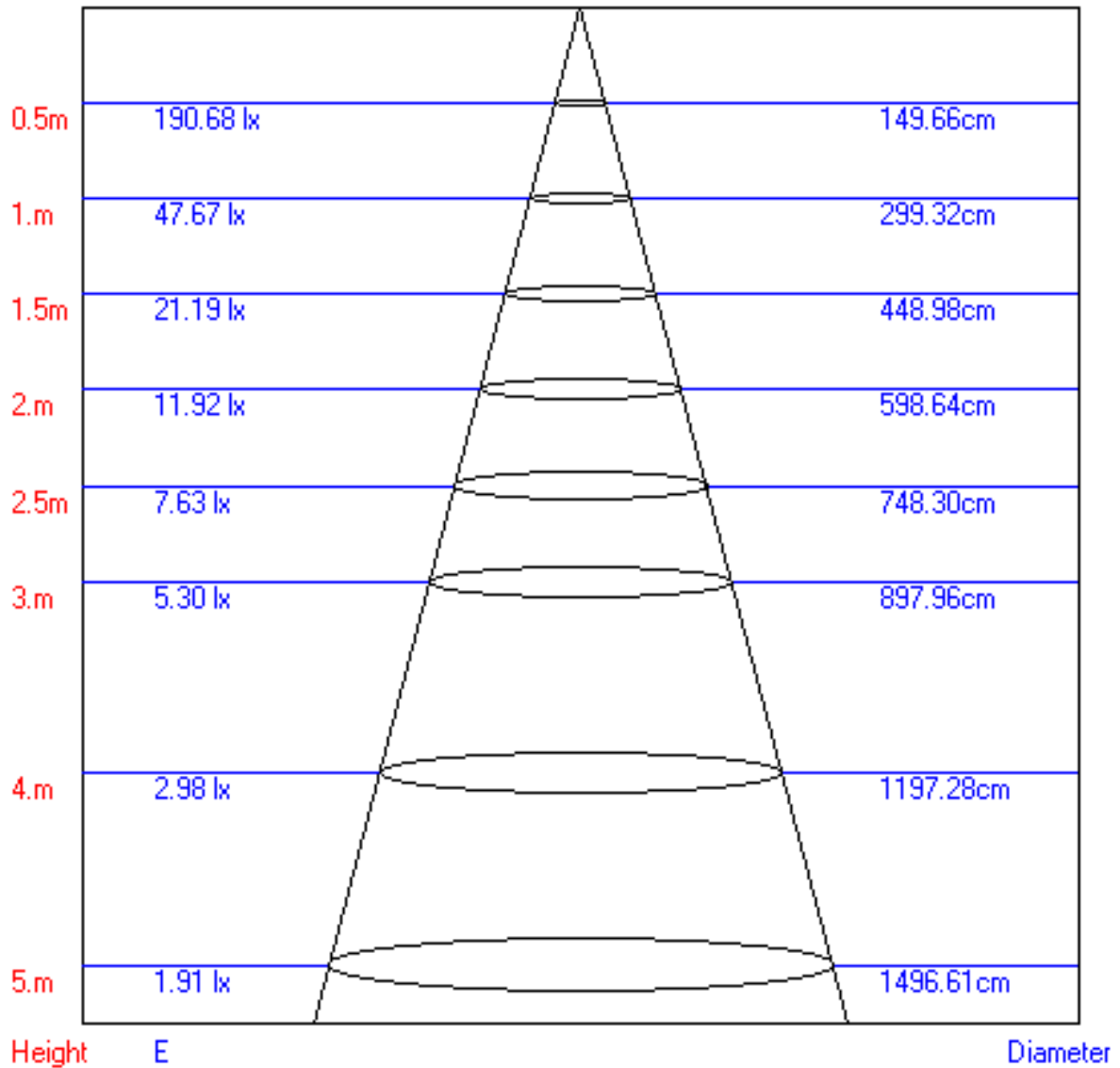
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	5794	5512	5954	5481	5796	5937	6612	9486	16619
C90	6196	6120	6016	6064	6250	5896	6721	9282	13279

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:112.50°

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	0.99	0.97	0.95	0.98	0.96	0.93	0.95	0.92	0.90	0.91	0.88	0.85	0.85	0.82	0.79	0.74
2	0.83	0.80	0.77	0.82	0.79	0.76	0.81	0.76	0.73	0.78	0.73	0.69	0.74	0.69	0.65	0.60
3	0.70	0.67	0.64	0.70	0.66	0.63	0.69	0.65	0.61	0.68	0.62	0.58	0.65	0.59	0.54	0.50
4	0.60	0.57	0.55	0.61	0.56	0.54	0.61	0.55	0.51	0.60	0.54	0.49	0.58	0.52	0.46	0.42
5	0.52	0.49	0.47	0.53	0.49	0.46	0.54	0.48	0.44	0.53	0.47	0.42	0.53	0.46	0.40	0.36
6	0.46	0.43	0.41	0.47	0.43	0.40	0.48	0.43	0.39	0.48	0.42	0.37	0.48	0.41	0.35	0.32
7	0.41	0.38	0.36	0.42	0.38	0.36	0.43	0.38	0.34	0.44	0.38	0.33	0.44	0.37	0.31	0.28
8	0.37	0.34	0.32	0.38	0.34	0.32	0.39	0.34	0.31	0.40	0.34	0.29	0.40	0.33	0.28	0.25
9	0.33	0.31	0.29	0.34	0.31	0.29	0.36	0.31	0.28	0.37	0.31	0.26	0.37	0.31	0.25	0.22
10	0.30	0.28	0.26	0.31	0.28	0.26	0.33	0.28	0.25	0.34	0.28	0.24	0.35	0.28	0.23	0.20

