

Luminaire Property

Luminaire: RH-RPL04 4W 4000K

Report NO.:

Test NO.:

Lamp:

Sum Lumens: 216.09 lm

Number of Lamps: 1

Diameter: 105mm

Length: mm

Photometric Type: Type C

Voltage: 221.4 V

Current: 0.033 A

Power: 3.7 W

Power Factor: 0.502

Ballast Type: 300mA

Width: 105mm

Height: 25mm

Remark: SMD2835 4C5B

Photometric Results

Lumens: 216.09 lm

Efficiency: 58.4027 lm/W

Central Intensity: 99.2cd

Maximum Intensity: 99.842cd

Beam Angle(10%): Left: -71.1 Right:67.9

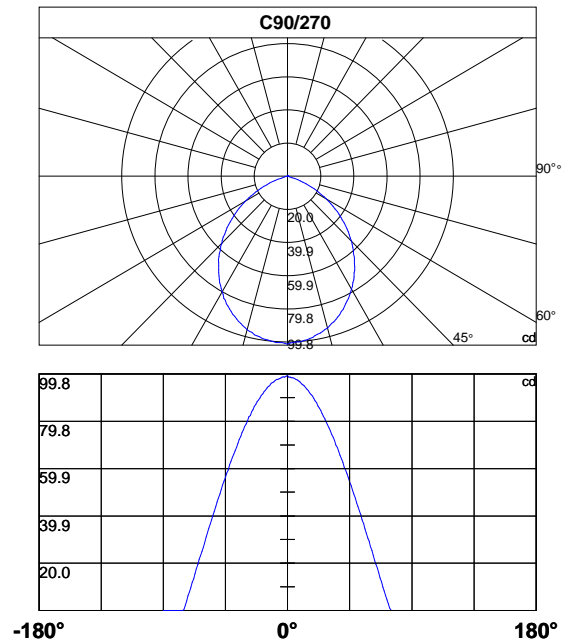
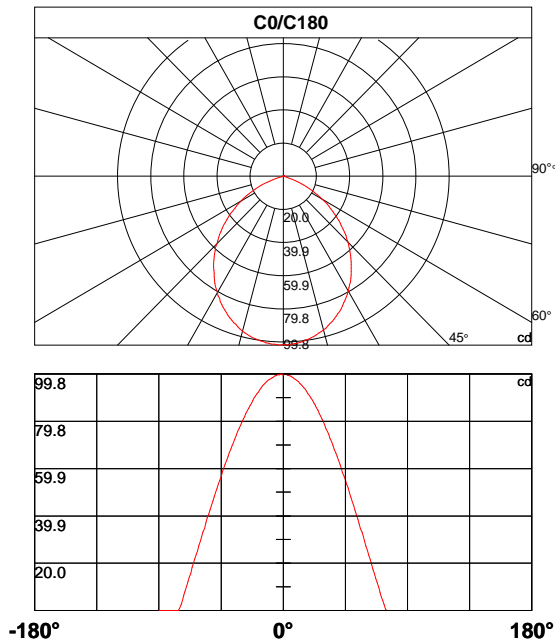
Angle of maximum intensity: C:0.0 G:1.0

Half Peak Side Angle(50%): Left: -49.9 Right:46.8

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	99.2	99.8	99.7	99.3	99.1	99.0	98.7	98.3	97.8	97.5
45.0	99.2	98.5	98.5	98.2	98.2	98.0	97.5	97.3	96.9	96.5
90.0	99.2	98.5	98.5	98.2	98.2	98.0	97.5	97.3	96.9	96.5
135.0	99.2	99.8	99.7	99.4	99.6	99.2	99.1	98.5	98.3	97.8
180.0	99.2	99.8	99.7	99.4	99.6	99.2	99.1	98.5	98.3	97.8
225.0	99.2	98.8	98.5	98.6	98.5	98.1	97.8	97.5	97.5	97.0
270.0	99.2	98.8	98.5	98.6	98.5	98.1	97.8	97.5	97.5	97.0
315.0	99.2	99.8	99.7	99.3	99.1	99.0	98.7	98.3	97.8	97.5
360.0	99.2	99.8	99.7	99.3	99.1	99.0	98.7	98.3	97.8	97.5

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	97.0	96.6	96.0	95.2	94.7	94.1	93.4	92.4	91.5	90.7
45.0	95.7	95.2	94.8	94.1	93.4	92.9	91.9	91.0	90.5	89.6
90.0	95.7	95.2	94.8	94.1	93.4	92.9	91.9	91.0	90.5	89.6
135.0	97.6	97.1	96.6	96.0	95.4	94.8	94.0	93.1	92.1	91.6
180.0	97.6	97.1	96.6	96.0	95.4	94.8	94.0	93.1	92.1	91.6
225.0	96.4	96.2	95.9	94.8	94.6	93.9	93.0	92.4	91.4	90.7
270.0	96.4	96.2	95.9	94.8	94.6	93.9	93.0	92.4	91.4	90.7
315.0	97.0	96.6	96.0	95.2	94.7	94.1	93.4	92.4	91.5	90.7
360.0	97.0	96.6	96.0	95.2	94.7	94.1	93.4	92.4	91.5	90.7

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	89.7	88.8	87.7	86.9	85.7	84.6	83.2	82.2	80.8	79.7
45.0	88.5	87.7	86.3	85.5	84.4	83.1	81.9	80.8	79.5	78.4
90.0	88.5	87.7	86.3	85.5	84.4	83.1	81.9	80.8	79.5	78.4
135.0	90.5	89.8	88.7	87.5	86.4	85.4	84.5	83.2	81.8	80.8
180.0	90.5	89.8	88.7	87.5	86.4	85.4	84.5	83.2	81.8	80.8
225.0	89.7	88.7	88.1	87.0	86.0	84.7	83.9	82.3	81.7	80.1
270.0	89.7	88.7	88.1	87.0	86.0	84.7	83.9	82.3	81.7	80.1
315.0	89.7	88.8	87.7	86.9	85.7	84.6	83.2	82.2	80.8	79.7
360.0	89.7	88.8	87.7	86.9	85.7	84.6	83.2	82.2	80.8	79.7

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	78.4	76.7	75.5	74.3	72.6	71.3	69.7	67.9	66.4	65.1
45.0	76.9	75.8	74.2	73.1	71.7	69.8	68.7	67.1	65.5	64.0
90.0	76.9	75.8	74.2	73.1	71.7	69.8	68.7	67.1	65.5	64.0
135.0	79.2	78.1	76.8	75.5	74.0	72.3	70.8	69.6	68.1	66.6
180.0	79.2	78.1	76.8	75.5	74.0	72.3	70.8	69.6	68.1	66.6
225.0	78.7	77.6	76.2	75.1	73.5	72.1	70.6	68.8	67.3	65.9
270.0	78.7	77.6	76.2	75.1	73.5	72.1	70.6	68.8	67.3	65.9
315.0	78.4	76.7	75.5	74.3	72.6	71.3	69.7	67.9	66.4	65.1
360.0	78.4	76.7	75.5	74.3	72.6	71.3	69.7	67.9	66.4	65.1

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	63.5	61.7	60.0	58.1	56.6	55.2	53.2	51.6	49.4	47.9
45.0	62.6	60.6	59.5	57.7	56.0	54.3	52.6	50.8	49.1	47.4
90.0	62.6	60.6	59.5	57.7	56.0	54.3	52.6	50.8	49.1	47.4
135.0	64.8	63.4	61.8	60.2	58.6	56.4	54.8	53.3	51.6	49.7
180.0	64.8	63.4	61.8	60.2	58.6	56.4	54.8	53.3	51.6	49.7
225.0	64.7	62.9	61.5	59.3	57.9	56.0	54.6	53.0	51.0	49.1
270.0	64.7	62.9	61.5	59.3	57.9	56.0	54.6	53.0	51.0	49.1
315.0	63.5	61.7	60.0	58.1	56.6	55.2	53.2	51.6	49.4	47.9
360.0	63.5	61.7	60.0	58.1	56.6	55.2	53.2	51.6	49.4	47.9

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	45.7	44.1	42.3	40.4	38.5	36.5	34.5	33.1	31.2	29.2
45.0	45.3	43.8	41.9	40.3	38.2	36.6	34.4	32.6	30.6	29.2
90.0	45.3	43.8	41.9	40.3	38.2	36.6	34.4	32.6	30.6	29.2
135.0	47.9	46.3	44.2	42.4	40.7	39.0	37.0	34.6	33.2	31.4
180.0	47.9	46.3	44.2	42.4	40.7	39.0	37.0	34.6	33.2	31.4
225.0	47.4	45.8	43.9	41.8	40.1	38.3	36.6	34.7	32.8	31.0
270.0	47.4	45.8	43.9	41.8	40.1	38.3	36.6	34.7	32.8	31.0
315.0	45.7	44.1	42.3	40.4	38.5	36.5	34.5	33.1	31.2	29.2
360.0	45.7	44.1	42.3	40.4	38.5	36.5	34.5	33.1	31.2	29.2

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	27.1	25.2	23.3	21.4	19.3	17.3	15.3	13.4	11.9	9.8
45.0	27.0	25.3	23.2	21.2	19.5	17.8	15.9	13.8	12.0	9.9
90.0	27.0	25.3	23.2	21.2	19.5	17.8	15.9	13.8	12.0	9.9
135.0	29.4	27.5	25.2	23.7	21.8	19.9	18.3	15.7	14.1	12.2
180.0	29.4	27.5	25.2	23.7	21.8	19.9	18.3	15.7	14.1	12.2
225.0	28.5	26.6	24.9	23.1	21.5	19.5	17.6	15.6	13.3	11.8
270.0	28.5	26.6	24.9	23.1	21.5	19.5	17.6	15.6	13.3	11.8
315.0	27.1	25.2	23.3	21.4	19.3	17.3	15.3	13.4	11.9	9.8
360.0	27.1	25.2	23.3	21.4	19.3	17.3	15.3	13.4	11.9	9.8

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	7.7	5.8	4.0	2.4	0.6	0.0	0.0	0.0	0.0	0.0
45.0	8.2	6.4	4.4	2.8	1.1	0.0	0.0	0.0	0.0	0.0
90.0	8.2	6.4	4.4	2.8	1.1	0.0	0.0	0.0	0.0	0.0
135.0	10.3	8.3	6.5	4.4	2.5	0.9	0.0	0.0	0.0	0.0
180.0	10.3	8.3	6.5	4.4	2.5	0.9	0.0	0.0	0.0	0.0
225.0	9.7	7.9	6.2	4.1	2.2	0.3	0.0	0.0	0.0	0.0
270.0	9.7	7.9	6.2	4.1	2.2	0.3	0.0	0.0	0.0	0.0
315.0	7.7	5.8	4.0	2.4	0.6	0.0	0.0	0.0	0.0	0.0
360.0	7.7	5.8	4.0	2.4	0.6	0.0	0.0	0.0	0.0	0.0

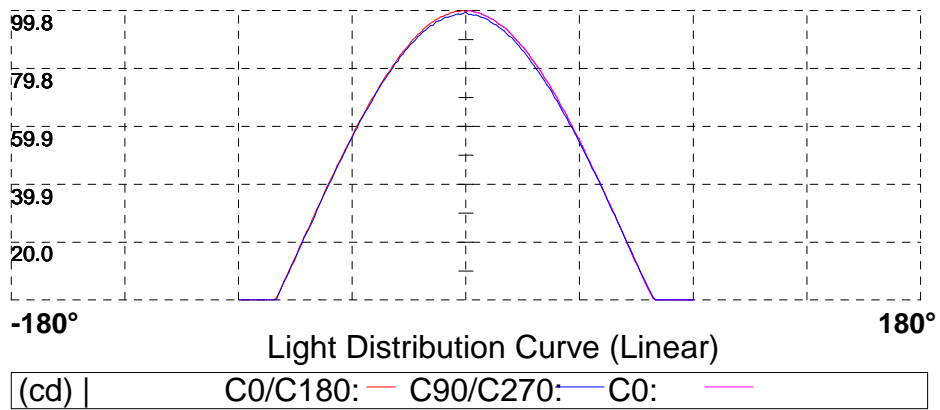
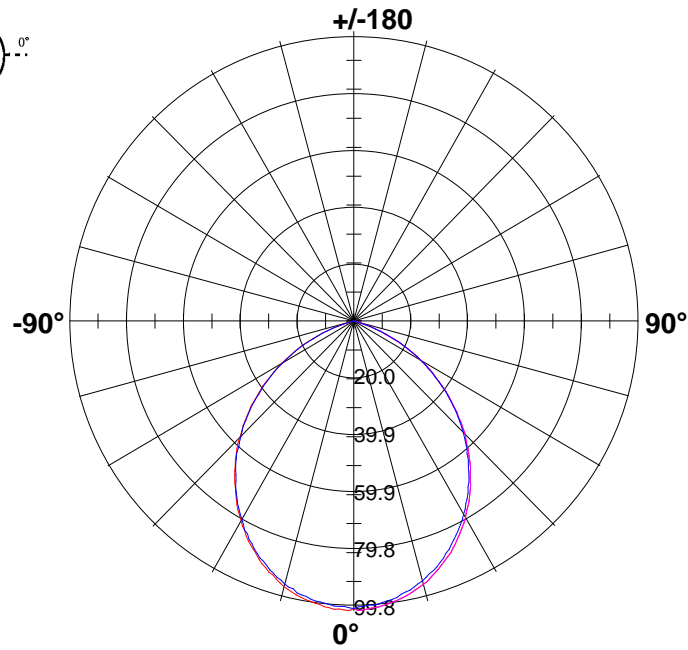
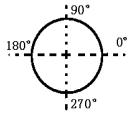
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
315.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

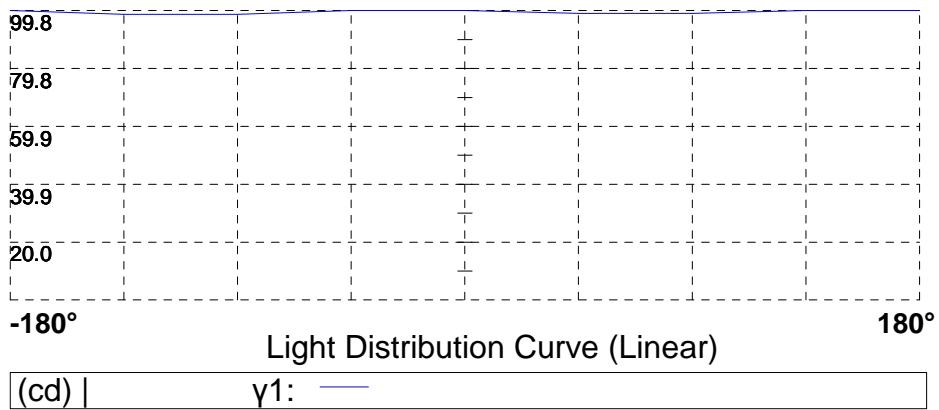
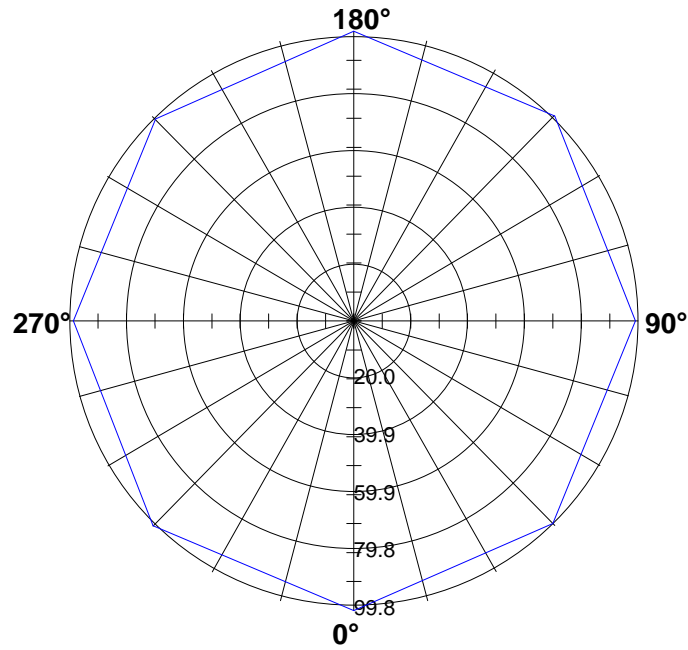
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

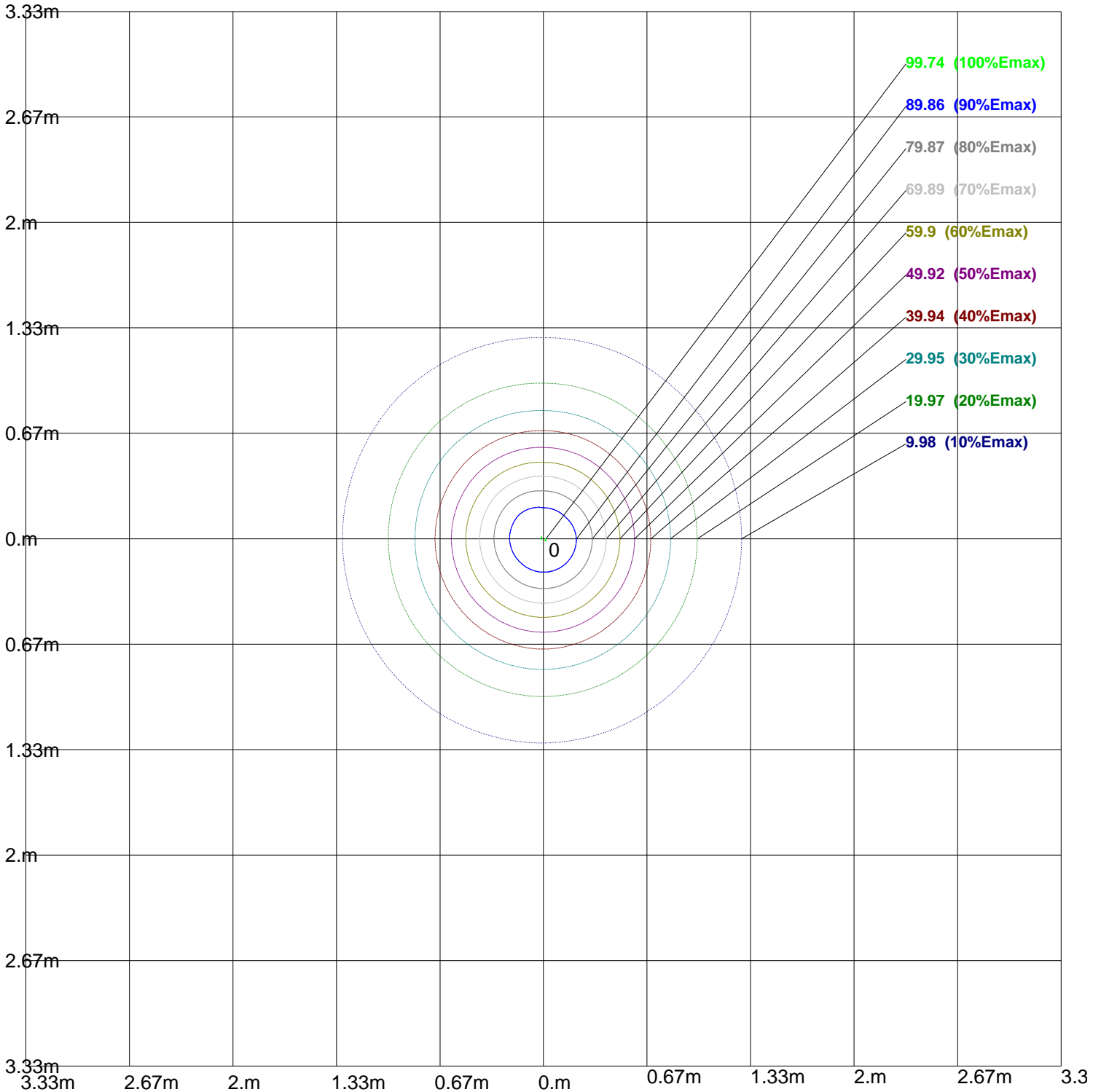
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 99.84lx

Luminance Limiting Curve

Diameter: 105mm

Length: mm

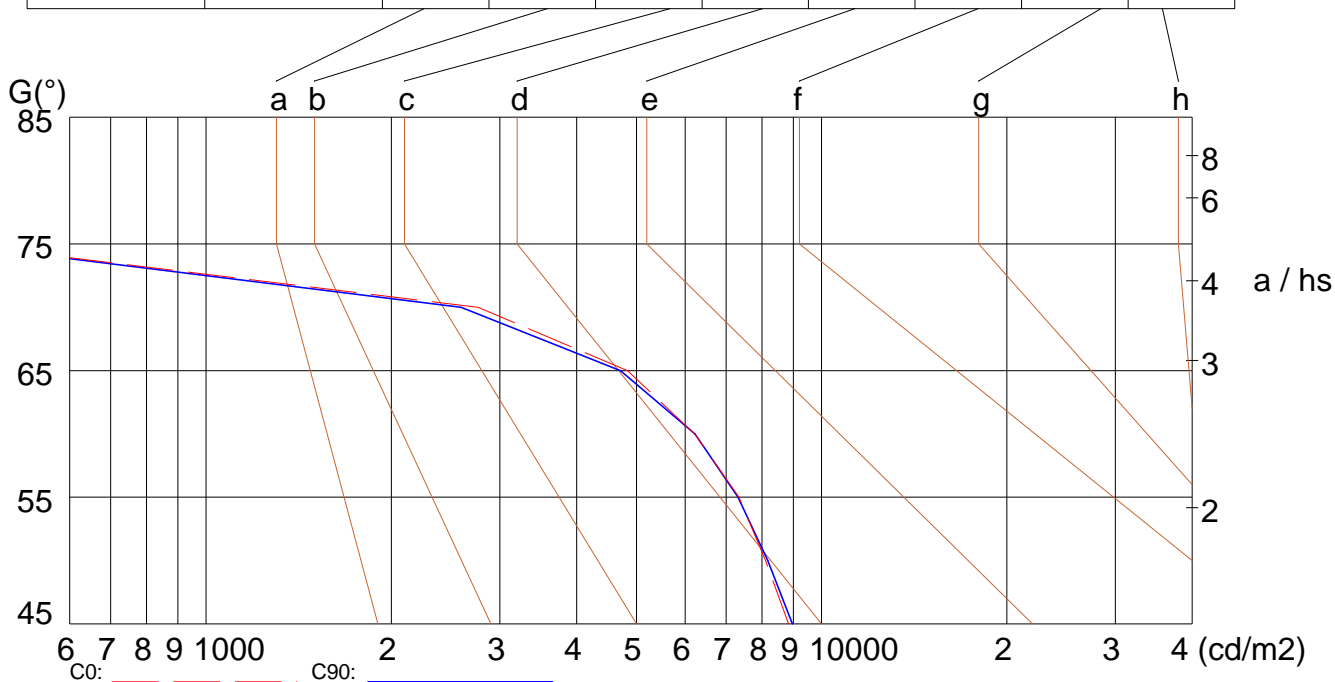
Width: 105mm

Height: 25mm

(cd/m²)

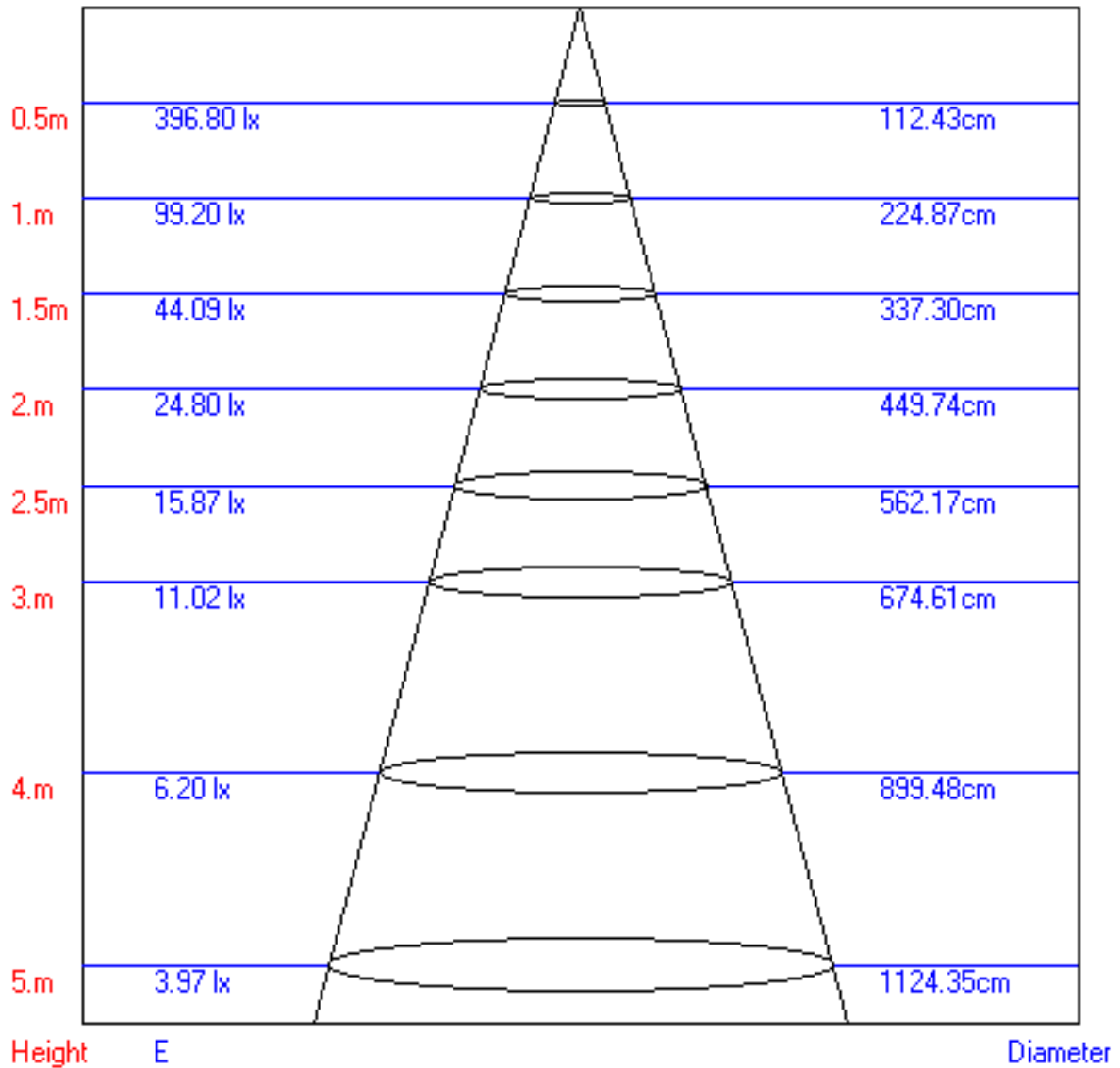
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	8834	8109	7335	6217	4839	2766			
C90	8967	8173	7315	6229	4714	2594			

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:96.70°

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	1.09	1.08	1.06	1.07	1.06	1.05	1.03	1.02	1.00	0.98	0.97	0.95	0.92	0.90	0.88	0.83
2	0.96	0.93	0.92	0.95	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.79	0.76	0.72
3	0.84	0.81	0.80	0.83	0.80	0.78	0.81	0.78	0.75	0.79	0.74	0.71	0.75	0.70	0.66	0.62
4	0.74	0.71	0.69	0.73	0.70	0.68	0.72	0.68	0.65	0.71	0.66	0.62	0.68	0.63	0.58	0.54
5	0.65	0.63	0.61	0.65	0.62	0.60	0.65	0.60	0.57	0.64	0.58	0.54	0.62	0.56	0.51	0.48
6	0.58	0.55	0.54	0.58	0.55	0.53	0.58	0.54	0.51	0.58	0.52	0.48	0.57	0.50	0.46	0.42
7	0.52	0.50	0.48	0.53	0.49	0.47	0.53	0.48	0.45	0.53	0.47	0.43	0.52	0.46	0.41	0.38
8	0.47	0.45	0.43	0.48	0.44	0.42	0.48	0.44	0.41	0.48	0.43	0.39	0.48	0.42	0.37	0.34
9	0.43	0.41	0.39	0.43	0.40	0.38	0.44	0.40	0.37	0.45	0.39	0.35	0.45	0.38	0.34	0.31
10	0.39	0.37	0.36	0.40	0.37	0.35	0.41	0.36	0.34	0.41	0.36	0.32	0.41	0.35	0.31	0.28

