

Luminaire Property

Luminaire: RH-SOP08 8W 6500K

Report NO.:

Test NO.:

Lamp:

Sum Lumens: 323.4 lm

Number of Lamps: 1

Diameter: mm

Length: 108mm

Photometric Type: Type C

Voltage: 219.6 V

Current: 0.069 A

Power: 8.0 W

Power Factor: 0.53

Ballast Type:

Width: 108mm

Height: 50mm

Remark:

Photometric Results

Lumens: 323.40 lm

Efficiency: 40.425 lm/W

Central Intensity: 101.064cd

Maximum Intensity: 101.989cd

Angle of maximum intensity: C:0.0 G:2.0

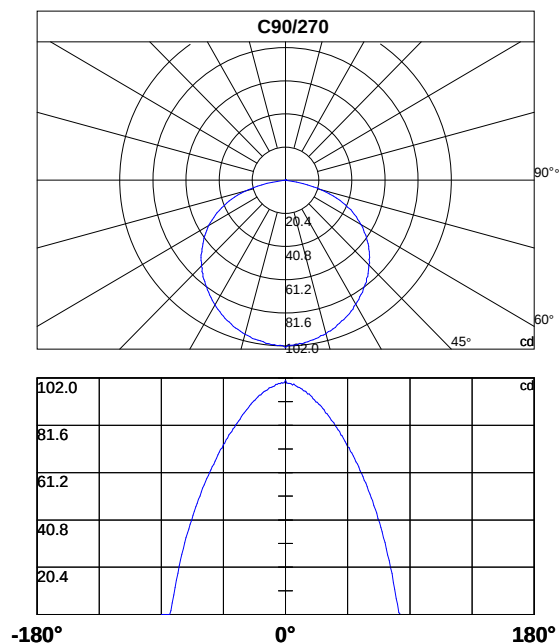
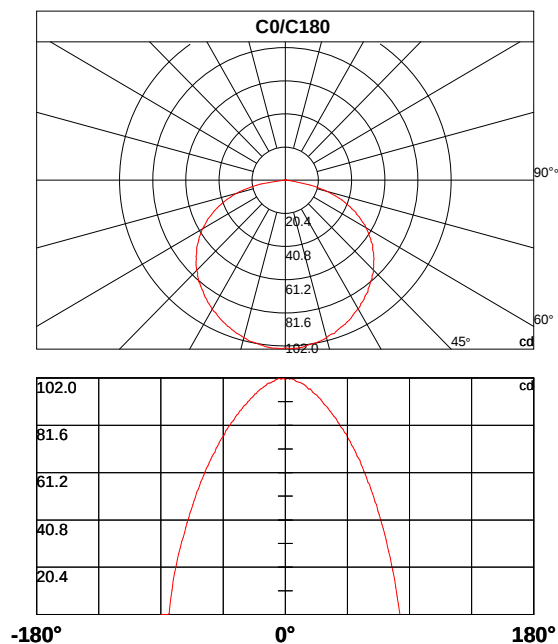
Half Peak Side Angle(50%): Left: -66.8 Right:61.9

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -84.1 Right:78.4



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	101.1	101.7	102.0	101.5	101.7	101.6	101.4	101.1	100.5	100.5
45.0	101.1	99.8	99.7	99.7	99.5	98.9	99.3	98.8	98.5	98.1
90.0	101.1	99.8	99.7	99.7	99.5	98.9	99.3	98.8	98.5	98.1
135.0	101.1	101.8	101.8	101.5	101.8	101.7	101.5	101.2	100.7	100.6
180.0	101.1	101.8	101.8	101.5	101.8	101.7	101.5	101.2	100.7	100.6
225.0	101.1	99.9	99.8	100.0	99.6	99.6	99.3	99.2	98.6	98.3
270.0	101.1	99.9	99.8	100.0	99.6	99.6	99.3	99.2	98.6	98.3
315.0	101.1	101.7	102.0	101.5	101.7	101.6	101.4	101.1	100.5	100.5
360.0	101.1	101.7	102.0	101.5	101.7	101.6	101.4	101.1	100.5	100.5

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	100.1	100.1	99.6	99.3	99.0	98.5	97.7	97.2	97.3	96.6
45.0	97.9	97.5	97.2	96.5	96.4	96.0	95.1	95.1	94.4	94.1
90.0	97.9	97.5	97.2	96.5	96.4	96.0	95.1	95.1	94.4	94.1
135.0	100.1	99.8	99.8	99.5	98.8	98.5	98.0	97.5	97.1	96.6
180.0	100.1	99.8	99.8	99.5	98.8	98.5	98.0	97.5	97.1	96.6
225.0	98.1	97.9	97.8	96.9	96.7	96.4	96.0	95.4	94.7	94.5
270.0	98.1	97.9	97.8	96.9	96.7	96.4	96.0	95.4	94.7	94.5
315.0	100.1	100.1	99.6	99.3	99.0	98.5	97.7	97.2	97.3	96.6
360.0	100.1	100.1	99.6	99.3	99.0	98.5	97.7	97.2	97.3	96.6

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	95.8	95.2	94.8	94.5	93.8	93.2	92.5	91.6	90.7	90.2
45.0	93.0	92.6	91.7	91.5	90.7	90.3	89.8	88.7	88.2	87.1
90.0	93.0	92.6	91.7	91.5	90.7	90.3	89.8	88.7	88.2	87.1
135.0	96.1	95.2	95.1	94.3	93.7	93.1	92.4	91.8	90.9	90.5
180.0	96.1	95.2	95.1	94.3	93.7	93.1	92.4	91.8	90.9	90.5
225.0	94.0	93.1	92.4	92.1	91.4	90.6	90.1	89.2	88.4	87.6
270.0	94.0	93.1	92.4	92.1	91.4	90.6	90.1	89.2	88.4	87.6
315.0	95.8	95.2	94.8	94.5	93.8	93.2	92.5	91.6	90.7	90.2
360.0	95.8	95.2	94.8	94.5	93.8	93.2	92.5	91.6	90.7	90.2

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	89.8	89.0	88.0	87.4	86.6	85.5	85.0	84.4	82.9	82.3
45.0	86.5	85.8	85.1	83.8	83.2	82.7	81.3	80.6	79.7	79.0
90.0	86.5	85.8	85.1	83.8	83.2	82.7	81.3	80.6	79.7	79.0
135.0	89.9	89.0	88.2	87.6	86.7	86.0	85.2	84.1	83.4	82.7
180.0	89.9	89.0	88.2	87.6	86.7	86.0	85.2	84.1	83.4	82.7
225.0	86.9	86.1	85.3	84.2	83.6	82.6	81.9	80.8	80.0	78.9
270.0	86.9	86.1	85.3	84.2	83.6	82.6	81.9	80.8	80.0	78.9
315.0	89.8	89.0	88.0	87.4	86.6	85.5	85.0	84.4	82.9	82.3
360.0	89.8	89.0	88.0	87.4	86.6	85.5	85.0	84.4	82.9	82.3

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	81.2	80.4	79.8	78.4	78.0	76.6	75.5	74.5	73.1	72.4
45.0	77.4	77.0	75.9	74.6	73.6	72.4	71.9	70.2	69.7	68.3
90.0	77.4	77.0	75.9	74.6	73.6	72.4	71.9	70.2	69.7	68.3
135.0	81.6	81.1	79.9	79.2	77.6	77.0	76.0	75.1	74.0	72.4
180.0	81.6	81.1	79.9	79.2	77.6	77.0	76.0	75.1	74.0	72.4
225.0	78.3	77.4	76.0	75.5	73.9	73.4	71.7	71.2	69.9	68.9
270.0	78.3	77.4	76.0	75.5	73.9	73.4	71.7	71.2	69.9	68.9
315.0	81.2	80.4	79.8	78.4	78.0	76.6	75.5	74.5	73.1	72.4
360.0	81.2	80.4	79.8	78.4	78.0	76.6	75.5	74.5	73.1	72.4

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	71.0	70.0	68.4	67.5	66.6	64.6	63.5	61.6	60.4	58.9
45.0	67.2	65.8	64.9	63.6	62.0	60.7	59.5	57.9	56.7	55.2
90.0	67.2	65.8	64.9	63.6	62.0	60.7	59.5	57.9	56.7	55.2
135.0	71.7	70.0	69.2	68.1	66.9	65.4	64.1	63.2	61.3	60.0
180.0	71.7	70.0	69.2	68.1	66.9	65.4	64.1	63.2	61.3	60.0
225.0	67.2	66.1	64.8	63.7	62.4	61.3	59.9	58.6	57.3	55.9
270.0	67.2	66.1	64.8	63.7	62.4	61.3	59.9	58.6	57.3	55.9
315.0	71.0	70.0	68.4	67.5	66.6	64.6	63.5	61.6	60.4	58.9
360.0	71.0	70.0	68.4	67.5	66.6	64.6	63.5	61.6	60.4	58.9

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	57.0	56.1	54.1	52.3	50.8	48.6	47.4	44.7	43.2	40.7
45.0	53.4	51.9	50.2	49.1	47.0	45.3	43.8	41.3	39.7	37.5
90.0	53.4	51.9	50.2	49.1	47.0	45.3	43.8	41.3	39.7	37.5
135.0	58.7	57.3	55.6	54.0	52.7	50.6	49.2	47.4	45.1	43.7
180.0	58.7	57.3	55.6	54.0	52.7	50.6	49.2	47.4	45.1	43.7
225.0	54.6	52.9	51.1	49.7	48.0	46.6	44.5	42.8	40.7	39.0
270.0	54.6	52.9	51.1	49.7	48.0	46.6	44.5	42.8	40.7	39.0
315.0	57.0	56.1	54.1	52.3	50.8	48.6	47.4	44.7	43.2	40.7
360.0	57.0	56.1	54.1	52.3	50.8	48.6	47.4	44.7	43.2	40.7

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	38.8	37.0	34.3	32.2	29.4	27.0	24.5	21.3	18.8	15.4
45.0	35.6	33.1	31.0	28.2	25.7	23.4	20.3	17.6	13.8	10.9
90.0	35.6	33.1	31.0	28.2	25.7	23.4	20.3	17.6	13.8	10.9
135.0	41.6	39.7	37.5	35.3	33.3	31.3	28.9	26.4	24.0	21.1
180.0	41.6	39.7	37.5	35.3	33.3	31.3	28.9	26.4	24.0	21.1
225.0	36.9	35.2	33.1	30.9	28.5	26.0	23.6	20.9	17.8	14.8
270.0	36.9	35.2	33.1	30.9	28.5	26.0	23.6	20.9	17.8	14.8
315.0	38.8	37.0	34.3	32.2	29.4	27.0	24.5	21.3	18.8	15.4
360.0	38.8	37.0	34.3	32.2	29.4	27.0	24.5	21.3	18.8	15.4

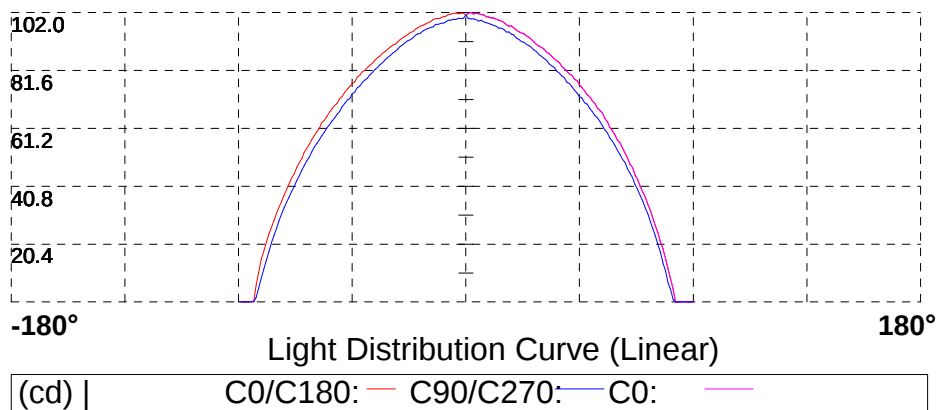
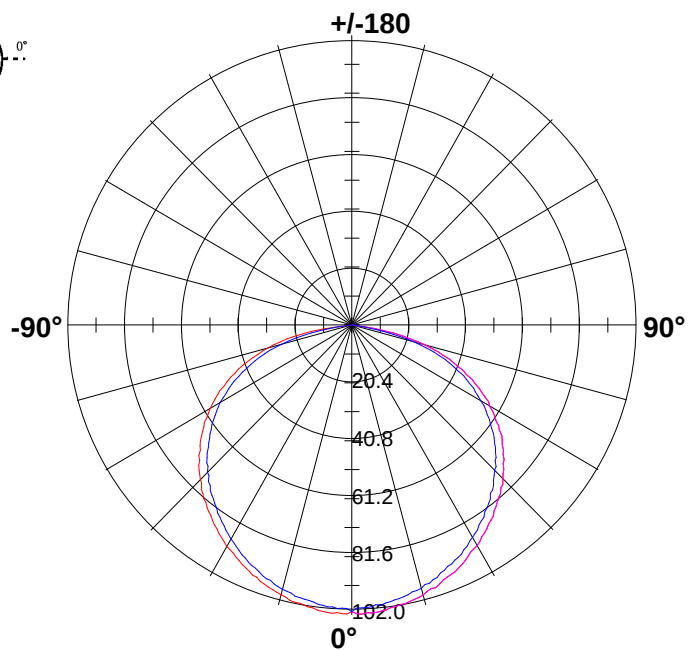
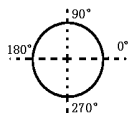
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.7	8.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	6.8	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	6.8	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	17.9	15.0	10.4	6.0	0.5	0.0	0.0	0.0	0.0	0.0
180.0	17.9	15.0	10.4	6.0	0.5	0.0	0.0	0.0	0.0	0.0
225.0	11.6	8.4	5.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
270.0	11.6	8.4	5.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
315.0	11.7	8.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	11.7	8.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

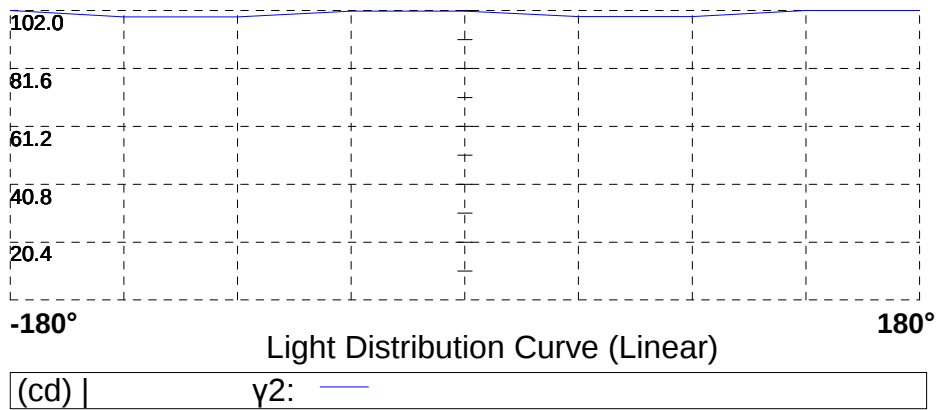
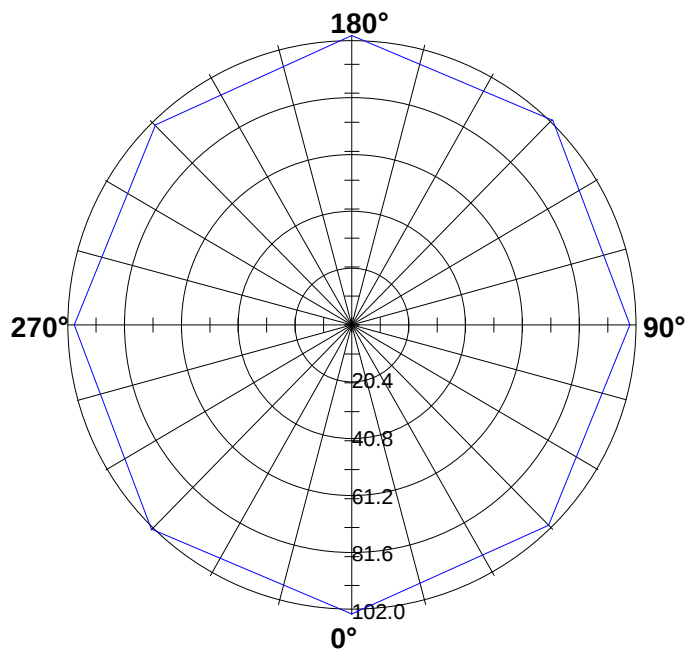
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

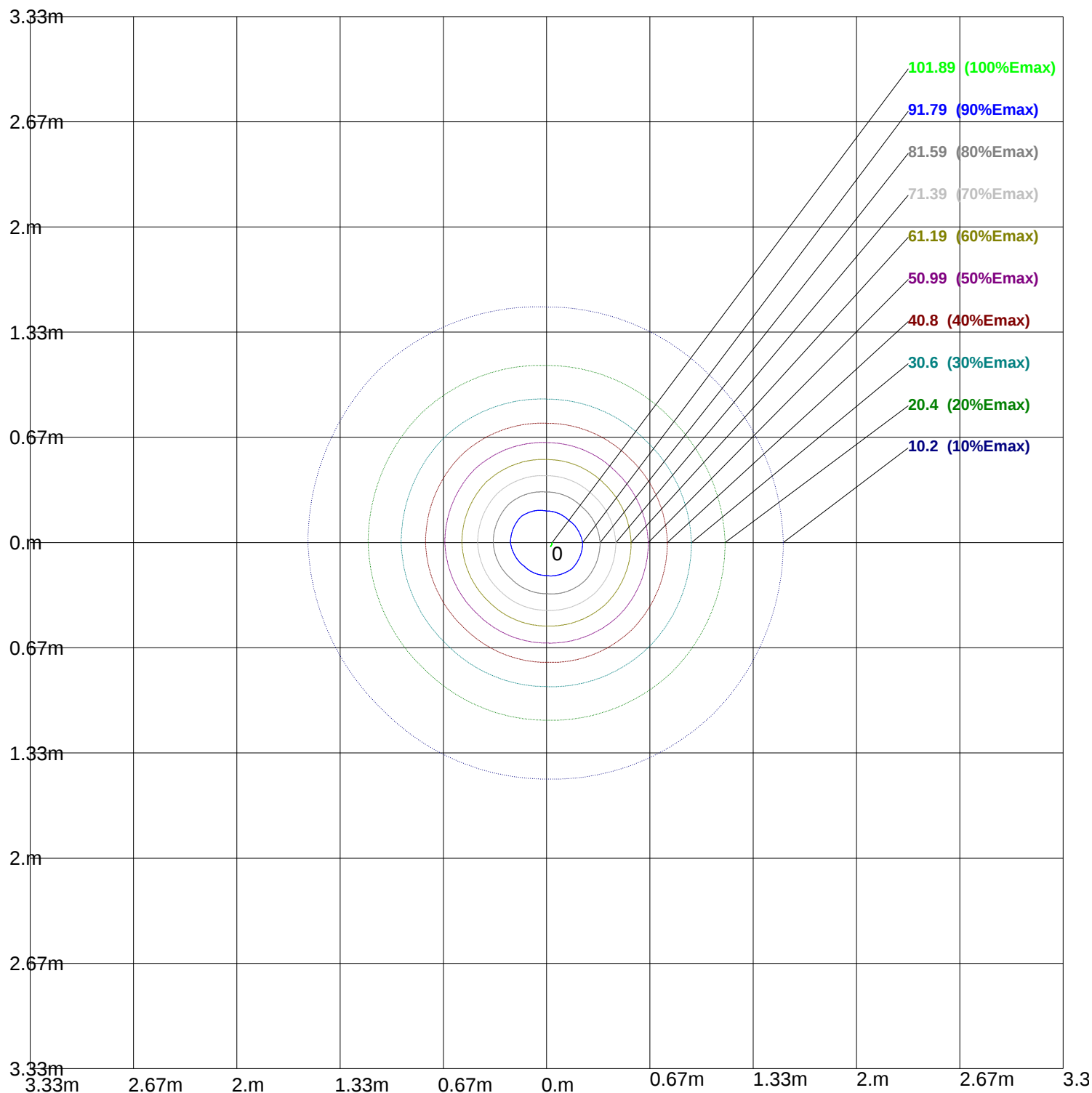
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 101.99lx

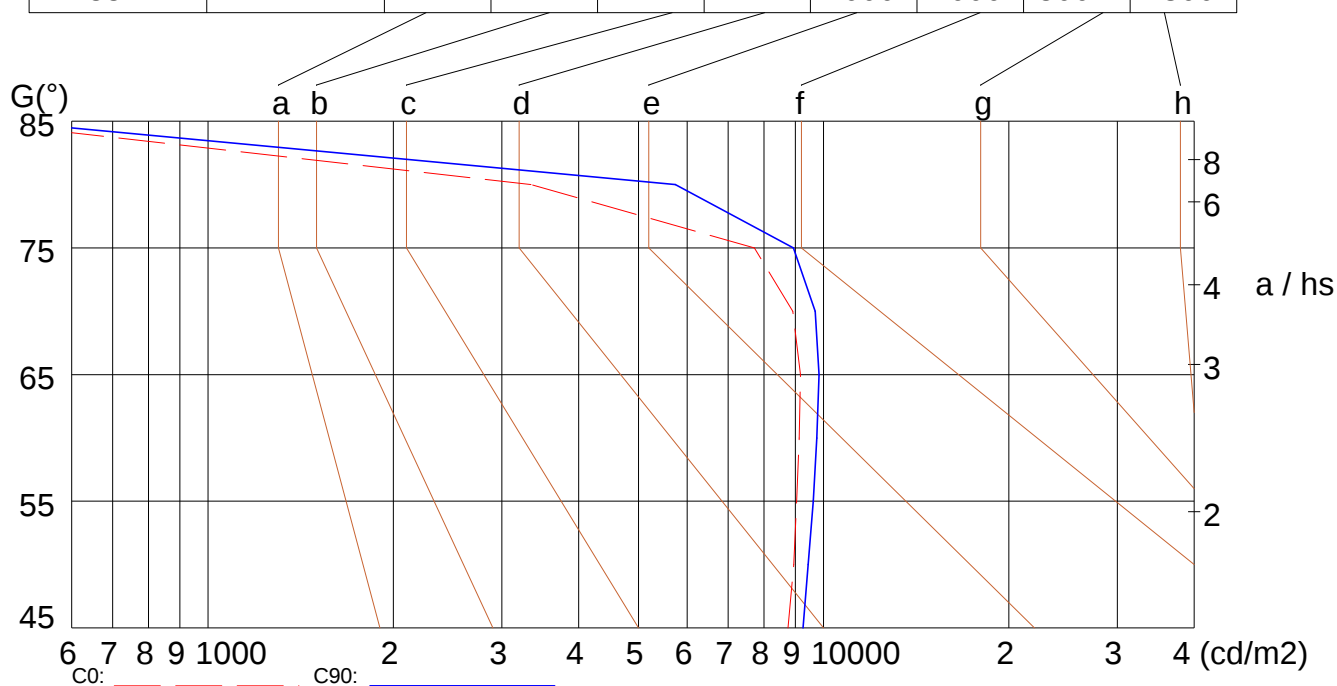
Luminance Limiting Curve

Diameter: mm
Length: 108mm
Width: 108mm
Height: 50mm

(cd/m²)

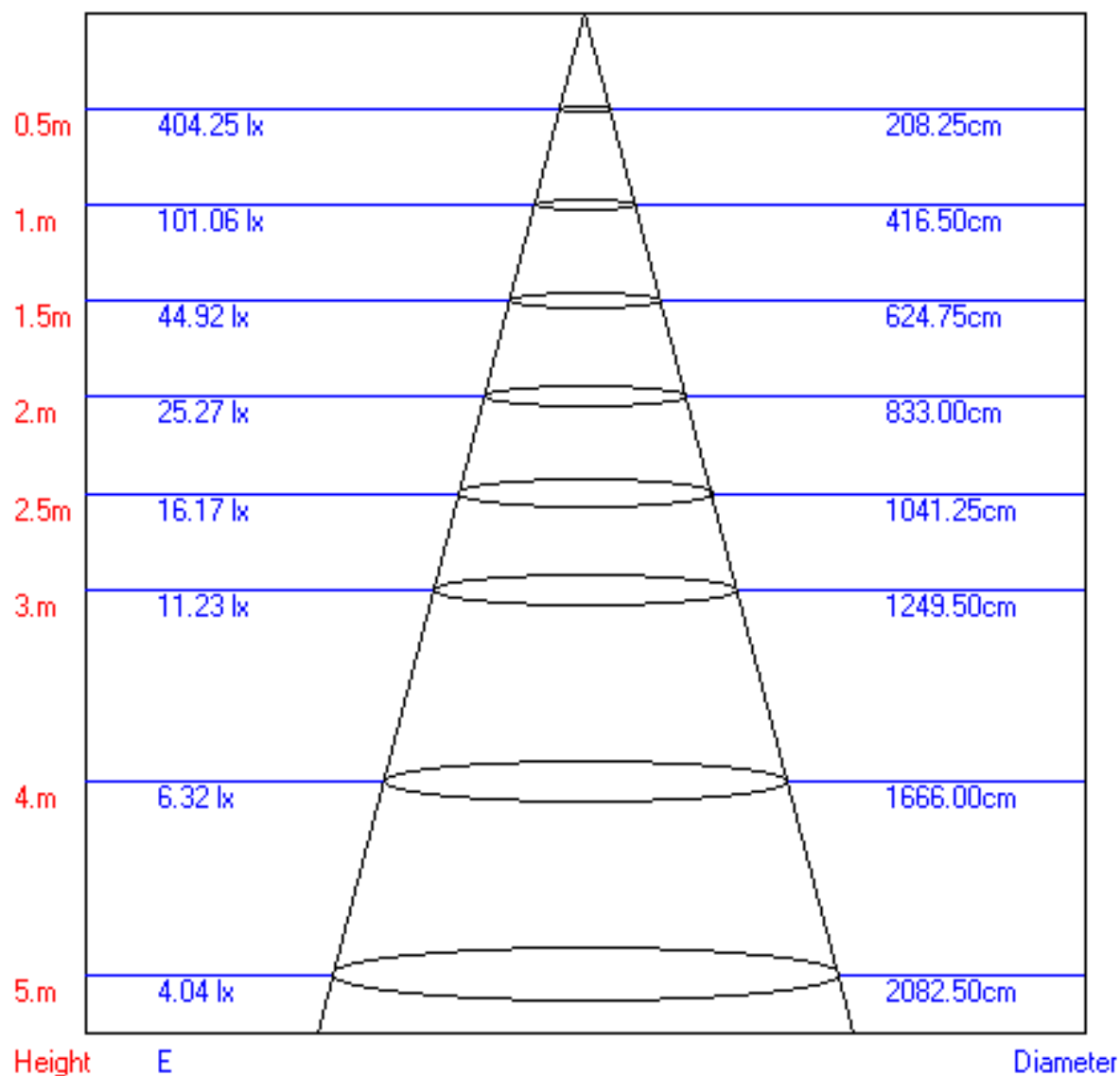
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	8750	8939	9042	9123	9171	8904	7715	3347	
C90	9257	9435	9621	9744	9832	9684	8931	5737	

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:128.70°

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	1.04	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	0.87	0.84	0.82	0.87	0.83	0.81	0.84	0.81	0.77	0.81	0.77	0.74	0.77	0.73	0.69	0.64
3	0.73	0.70	0.68	0.74	0.70	0.67	0.73	0.68	0.64	0.71	0.65	0.61	0.68	0.62	0.57	0.53
4	0.63	0.60	0.58	0.63	0.59	0.57	0.63	0.58	0.54	0.62	0.56	0.52	0.60	0.54	0.49	0.45
5	0.54	0.51	0.49	0.55	0.51	0.48	0.56	0.50	0.47	0.55	0.49	0.44	0.54	0.47	0.42	0.38
6	0.47	0.45	0.43	0.48	0.45	0.42	0.49	0.44	0.40	0.50	0.43	0.39	0.49	0.42	0.37	0.33
7	0.42	0.39	0.38	0.43	0.39	0.37	0.44	0.39	0.35	0.45	0.39	0.34	0.45	0.38	0.32	0.29
8	0.38	0.35	0.33	0.39	0.35	0.33	0.40	0.35	0.32	0.41	0.35	0.30	0.41	0.34	0.29	0.26
9	0.34	0.31	0.30	0.35	0.31	0.29	0.36	0.32	0.28	0.37	0.31	0.27	0.38	0.31	0.26	0.23
10	0.31	0.28	0.27	0.32	0.28	0.26	0.33	0.29	0.25	0.35	0.29	0.25	0.35	0.28	0.24	0.21

