

## Luminaire Property

Luminaire: RH-CL03210 6W 3000K

Report NO.:

Voltage: 230.2 V

Test NO.:

Current: 0.032 A

Lamp:

Power: 6.8 W

Sum Lumens: 794.23 lm

Power Factor: 0.929

Number of Lamps: 1

Ballast Type: 150mA

Diameter: 80 mm

Width: 80 mm

Length: mm

Height: 33mm

Photometric Type: Type C

Remark: CREE CXA1507

## Photometric Results

Lumens: 794.23 lm

Angle of maximum intensity: C:225.0 G:3.0

Efficiency: 116.7985 lm/W

Half Peak Side Angle(50%): Left: -26.2 Right:25.7

Central Intensity: 927.197cd

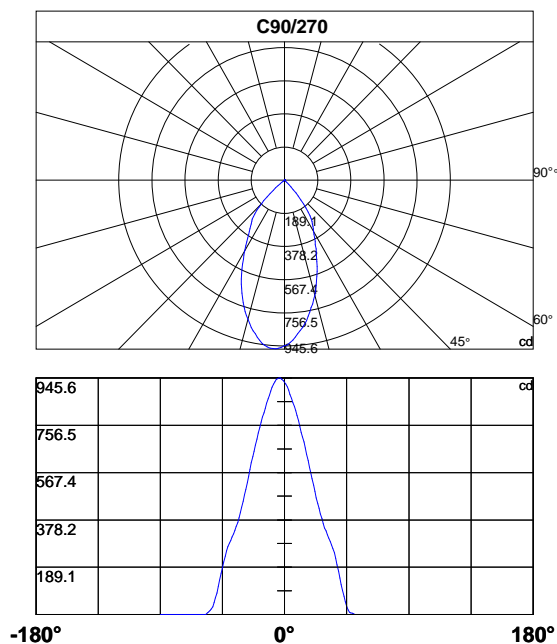
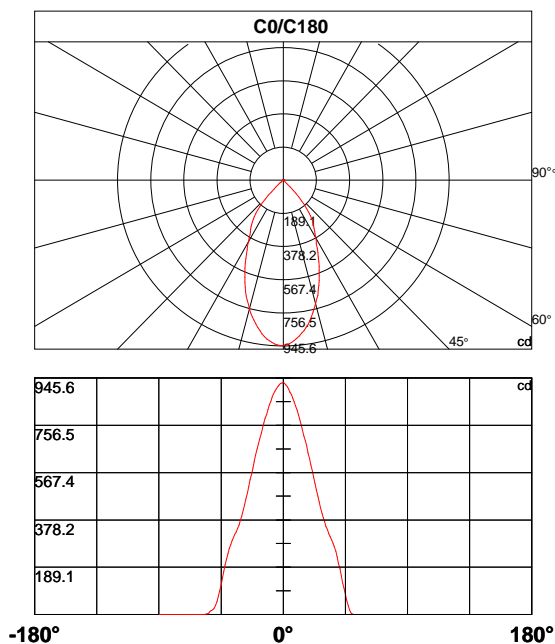
Light Out Rate(LOR) : 100.00%

Maximum Intensity: 945.562cd

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -45.7 Right:45.1



### 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	927.2	923.6	917.8	909.9	900.0	888.3	878.4	863.0	850.3	834.1
45.0	927.2	922.1	910.0	896.8	879.2	863.5	847.1	832.0	815.4	795.6
90.0	927.2	922.1	910.0	896.8	879.2	863.5	847.1	832.0	815.4	795.6
135.0	927.2	925.9	923.7	918.6	911.2	902.7	893.3	881.9	869.0	852.4
180.0	927.2	925.9	923.7	918.6	911.2	902.7	893.3	881.9	869.0	852.4
225.0	927.2	935.4	941.5	945.6	945.3	943.6	939.0	931.0	921.7	907.9
270.0	927.2	935.4	941.5	945.6	945.3	943.6	939.0	931.0	921.7	907.9
315.0	927.2	923.6	917.8	909.9	900.0	888.3	878.4	863.0	850.3	834.1
360.0	927.2	923.6	917.8	909.9	900.0	888.3	878.4	863.0	850.3	834.1

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	818.2	799.9	780.0	757.3	735.7	714.5	693.4	674.1	646.8	622.6
45.0	773.8	751.1	728.5	711.1	689.4	665.8	640.7	615.7	589.1	567.5
90.0	773.8	751.1	728.5	711.1	689.4	665.8	640.7	615.7	589.1	567.5
135.0	836.8	818.9	800.3	784.5	765.2	744.9	723.6	701.8	681.3	661.1
180.0	836.8	818.9	800.3	784.5	765.2	744.9	723.6	701.8	681.3	661.1
225.0	893.9	876.3	862.4	844.7	824.7	806.6	789.2	769.5	748.6	726.3
270.0	893.9	876.3	862.4	844.7	824.7	806.6	789.2	769.5	748.6	726.3
315.0	818.2	799.9	780.0	757.3	735.7	714.5	693.4	674.1	646.8	622.6
360.0	818.2	799.9	780.0	757.3	735.7	714.5	693.4	674.1	646.8	622.6

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	598.0	572.1	545.8	523.2	499.8	473.5	449.8	427.5	404.0	387.2
45.0	542.1	517.1	492.2	466.1	443.0	424.8	401.6	383.2	363.7	346.1
90.0	542.1	517.1	492.2	466.1	443.0	424.8	401.6	383.2	363.7	346.1
135.0	636.3	611.8	585.4	561.5	539.0	512.0	487.0	462.4	439.1	418.6
180.0	636.3	611.8	585.4	561.5	539.0	512.0	487.0	462.4	439.1	418.6
225.0	701.4	677.2	652.1	631.4	606.3	579.4	553.7	526.6	498.7	478.1
270.0	701.4	677.2	652.1	631.4	606.3	579.4	553.7	526.6	498.7	478.1
315.0	598.0	572.1	545.8	523.2	499.8	473.5	449.8	427.5	404.0	387.2
360.0	598.0	572.1	545.8	523.2	499.8	473.5	449.8	427.5	404.0	387.2

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	370.9	351.3	338.3	322.3	311.9	298.1	285.6	271.7	253.4	231.5
45.0	333.8	318.3	305.6	292.0	278.5	263.2	246.7	224.6	198.5	172.4
90.0	333.8	318.3	305.6	292.0	278.5	263.2	246.7	224.6	198.5	172.4
135.0	393.6	378.6	358.9	344.6	330.0	319.4	306.6	295.1	279.8	263.3
180.0	393.6	378.6	358.9	344.6	330.0	319.4	306.6	295.1	279.8	263.3
225.0	453.0	429.0	407.0	386.0	367.9	352.1	336.5	323.0	310.1	295.7
270.0	453.0	429.0	407.0	386.0	367.9	352.1	336.5	323.0	310.1	295.7
315.0	370.9	351.3	338.3	322.3	311.9	298.1	285.6	271.7	253.4	231.5
360.0	370.9	351.3	338.3	322.3	311.9	298.1	285.6	271.7	253.4	231.5

### 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	205.1	183.5	156.2	128.5	102.5	80.5	55.9	33.7	17.3	6.6
45.0	145.2	119.3	97.1	72.8	51.4	32.8	17.8	9.5	6.7	5.1
90.0	145.2	119.3	97.1	72.8	51.4	32.8	17.8	9.5	6.7	5.1
135.0	242.9	224.1	198.7	172.4	146.4	119.4	94.5	73.1	52.9	35.4
180.0	242.9	224.1	198.7	172.4	146.4	119.4	94.5	73.1	52.9	35.4
225.0	285.9	270.5	254.4	232.7	209.8	185.6	164.6	136.7	111.1	85.7
270.0	285.9	270.5	254.4	232.7	209.8	185.6	164.6	136.7	111.1	85.7
315.0	205.1	183.5	156.2	128.5	102.5	80.5	55.9	33.7	17.3	6.6
360.0	205.1	183.5	156.2	128.5	102.5	80.5	55.9	33.7	17.3	6.6

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	24.8	19.0	15.9	13.1	5.3	1.9	0.8	0.0	0.0	0.0
180.0	24.8	19.0	15.9	13.1	5.3	1.9	0.8	0.0	0.0	0.0
225.0	66.8	47.7	30.6	21.2	15.3	10.5	6.5	0.0	0.0	0.0
270.0	66.8	47.7	30.6	21.2	15.3	10.5	6.5	0.0	0.0	0.0
315.0	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
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	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
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

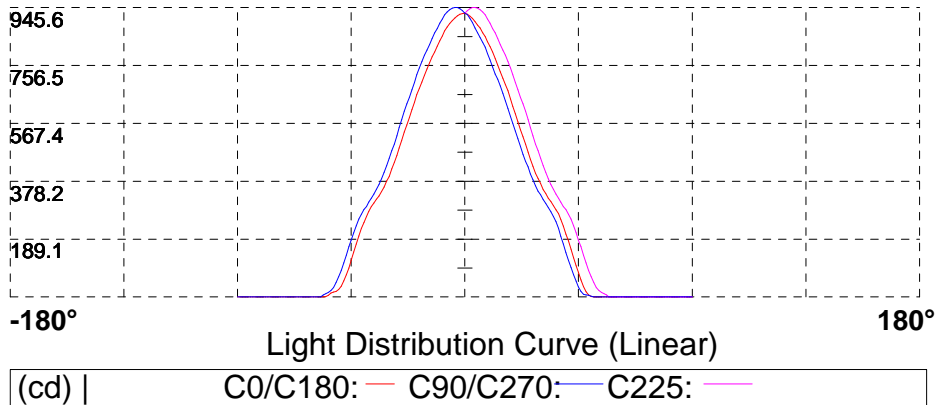
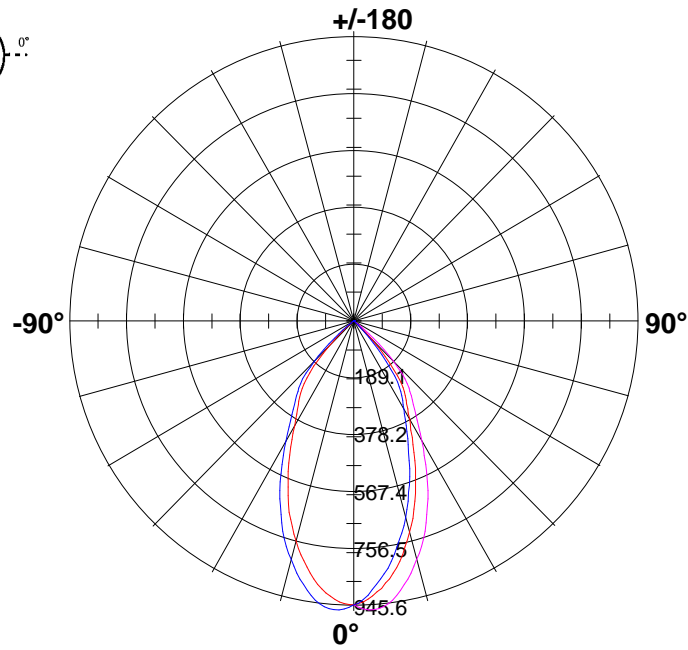
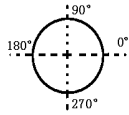
### Photometric Data Table [cd]

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

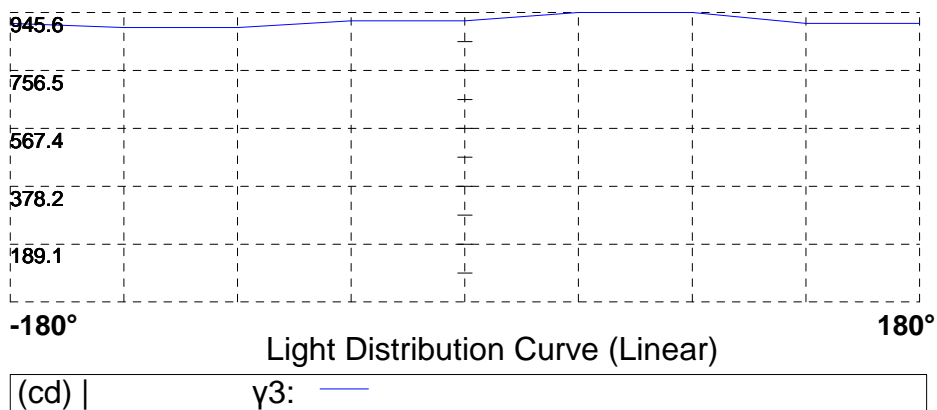
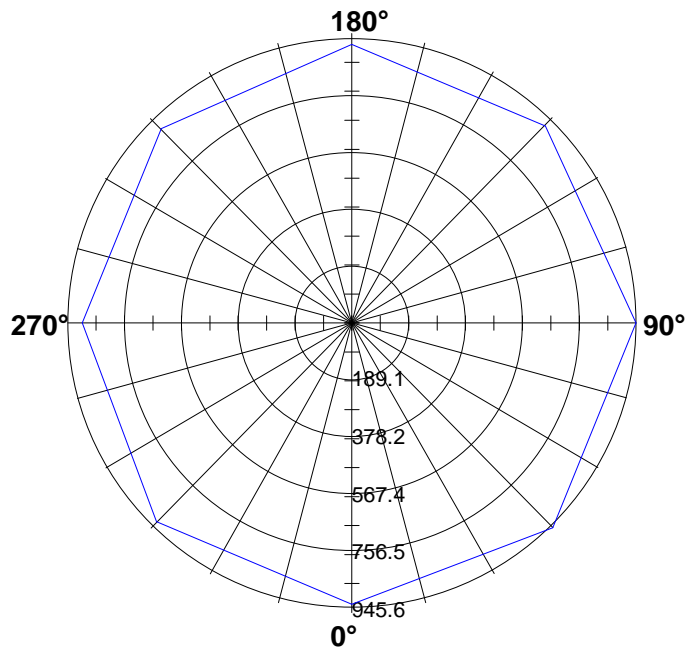
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

### Light Distribution Curve [Unit: cd]

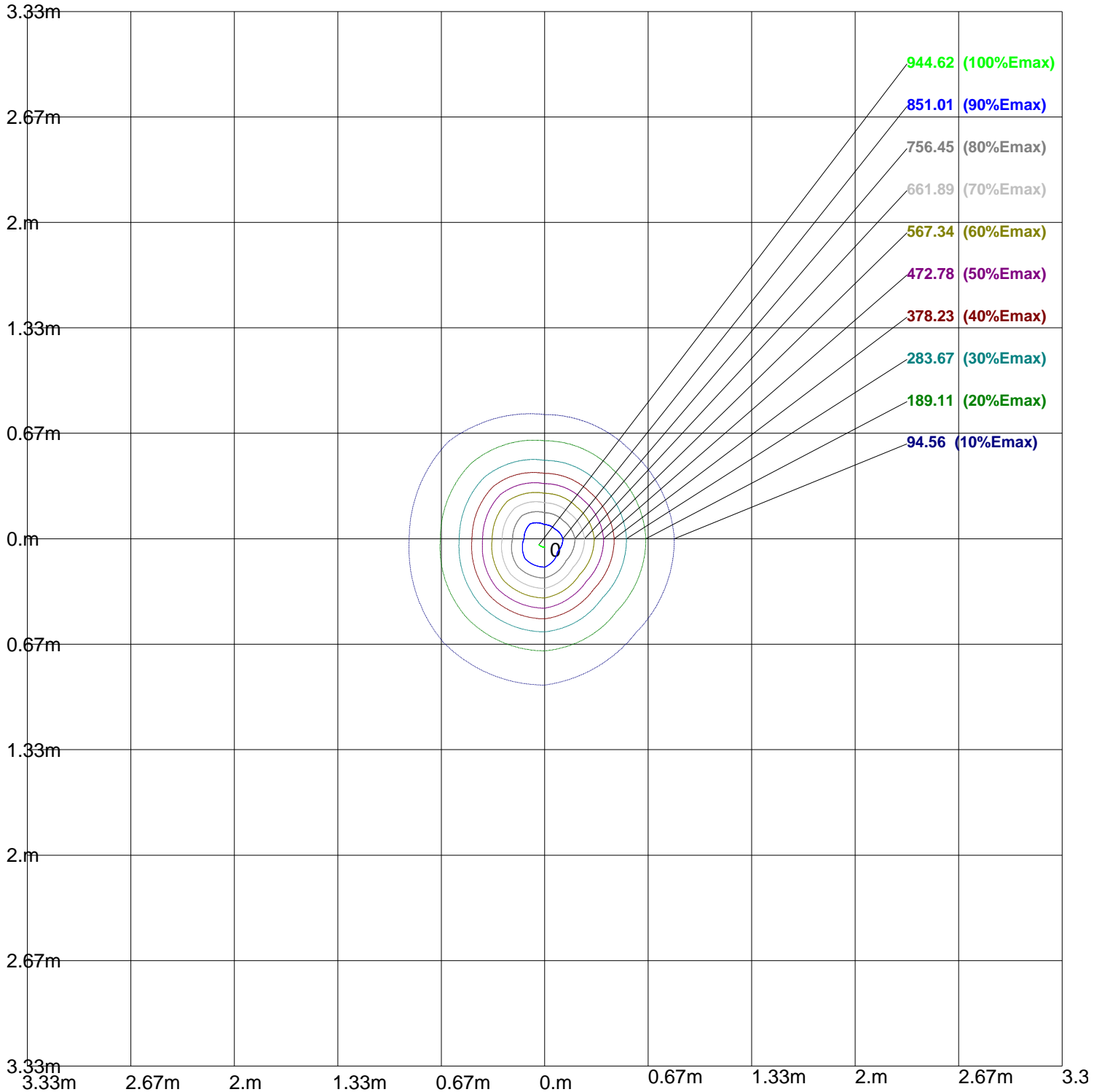
Luminaire



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



### Iso-Lux[lx]



Height: 1 m  
Max Illuminance : 945.56lx

## Luminance Limiting Curve

Diameter: 80 mm

Length: mm

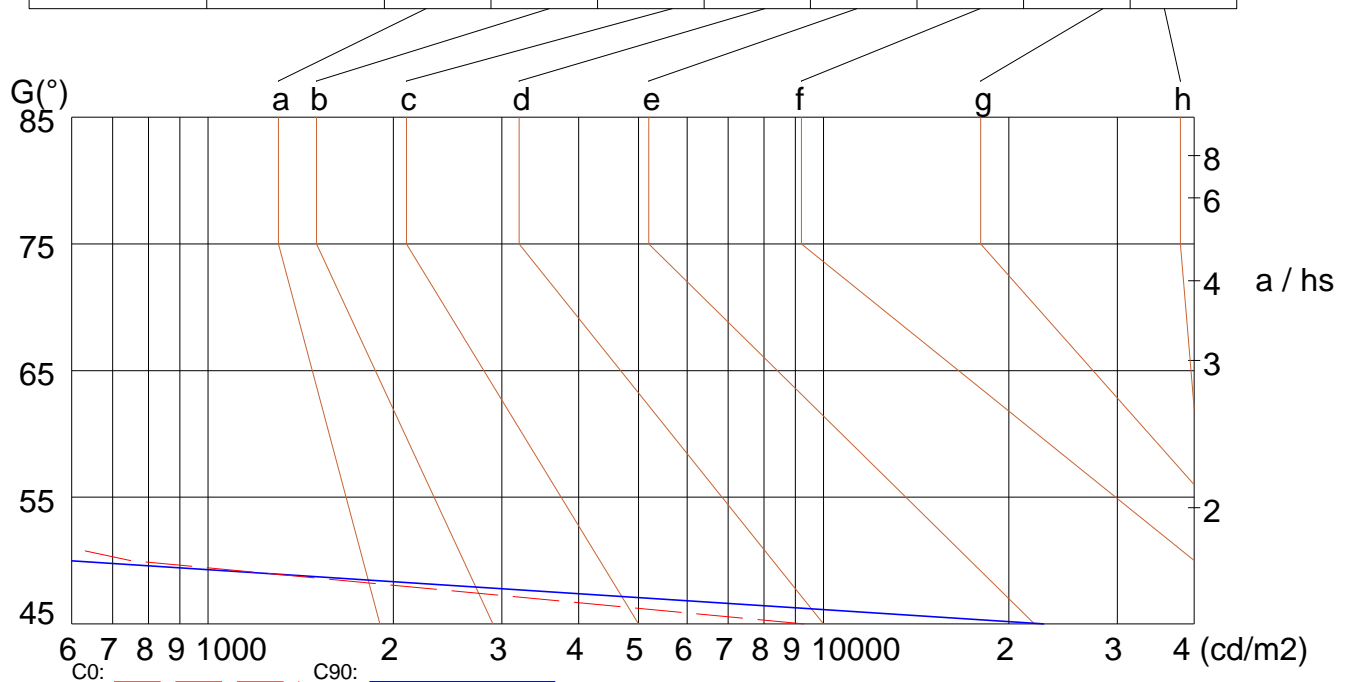
Width: 80 mm

Height: 33mm

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

$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	9283	748							
C90	22774	493							

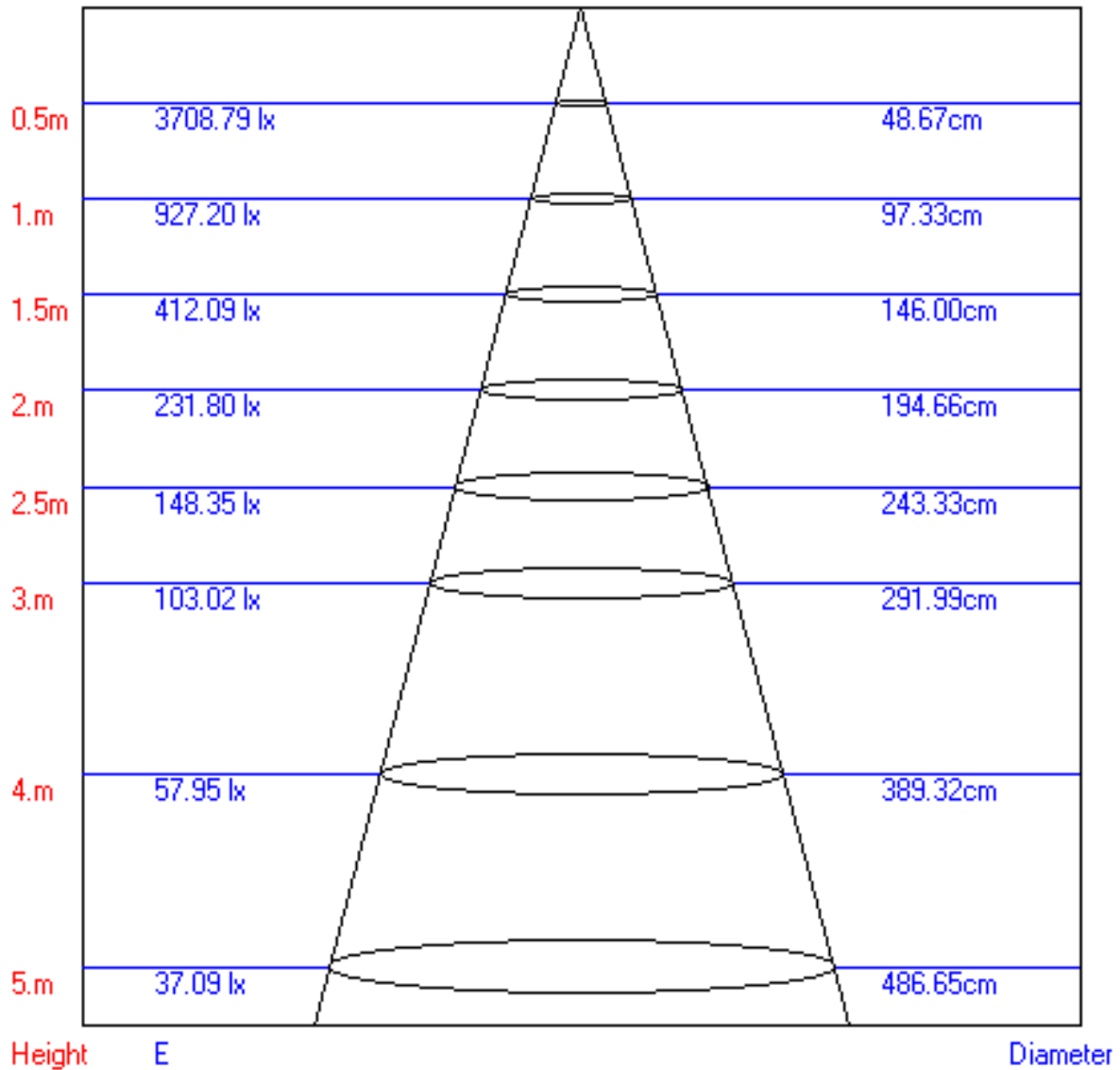
Glare	Quality	Service Values Illuminance (lx)							
1.15	A	2000	1000	500	≤300				
1.5	B		2000	1000	500	≤300			
1.85	C			2000	1000	500	≤300		
2.2	D				2000	1000	500	≤300	
2.55	E					2000	1000	500	≤300



Lum. Limiting Curve (C0/C90)



### Lux-Distance Curve



Beam Angle:51.90°

### 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	1.14	1.13	1.12	1.12	1.11	1.10	1.08	1.07	1.06	1.02	1.01	1.00	0.95	0.94	0.93	0.87
2	1.06	1.05	1.04	1.04	1.03	1.02	1.01	0.99	0.97	0.96	0.94	0.92	0.90	0.88	0.86	0.81
3	0.98	0.97	0.96	0.97	0.95	0.94	0.94	0.92	0.90	0.90	0.87	0.85	0.85	0.82	0.79	0.75
4	0.91	0.90	0.89	0.90	0.88	0.87	0.88	0.85	0.83	0.85	0.81	0.78	0.80	0.77	0.74	0.70
5	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.68	0.64
6	0.79	0.77	0.76	0.79	0.76	0.75	0.77	0.74	0.71	0.74	0.71	0.68	0.72	0.67	0.64	0.60
7	0.74	0.72	0.71	0.73	0.71	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.56
8	0.69	0.67	0.66	0.69	0.66	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.55	0.52
9	0.65	0.63	0.62	0.65	0.62	0.61	0.64	0.60	0.58	0.62	0.58	0.55	0.61	0.56	0.52	0.49
10	0.61	0.59	0.58	0.61	0.58	0.57	0.60	0.57	0.54	0.59	0.55	0.52	0.57	0.52	0.49	0.46

