

Luminaire Property

Luminaire: CL2175 LED 30W 3000K

Report NO.:

Test NO.: 30W 800mA

Lamp:

Sum Lumens: 2456.18 lm

Number of Lamps: 1

Diameter: 175mm

Length: mm

Photometric Type: Type C

Voltage: 220.6 V

Current: 0.152 A

Power: 31.3 W

Power Factor: 0.933

Ballast Type: 30W 800mA

Width: 175mm

Height: 265 mm

Remark:

Photometric Results

Lumens: 2456.18 lm

Efficiency: 78.4722 lm/W

Central Intensity: 4125.006cd

Maximum Intensity: 4169.295cd

Beam Angle(10%): Left: -35.9 Right:36.1

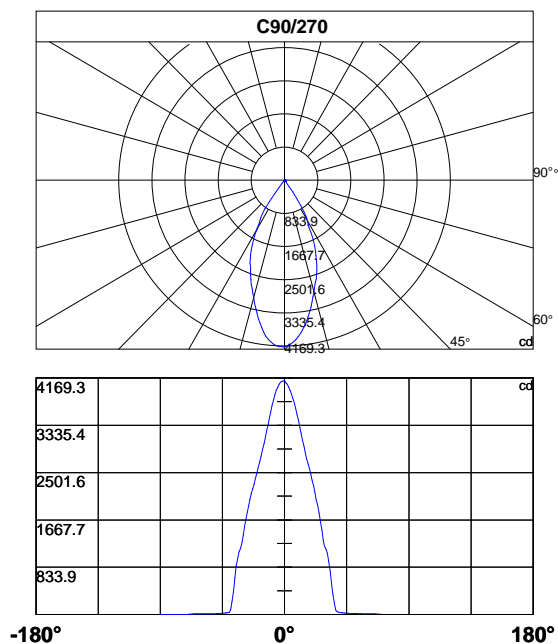
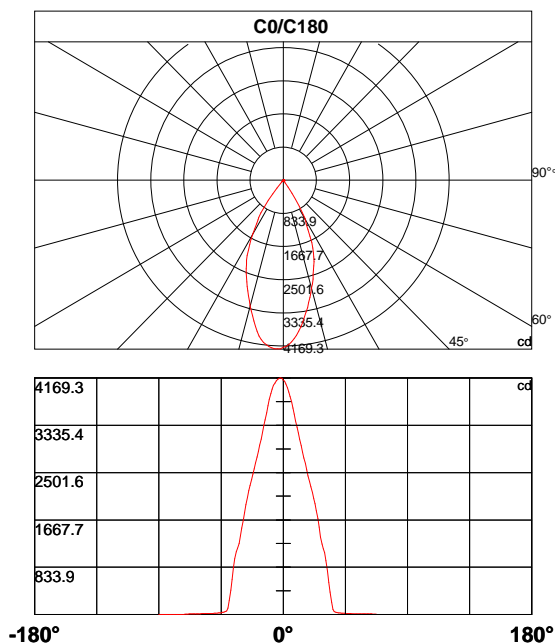
Angle of maximum intensity: C:135.0 G:2.0

Half Peak Side Angle(50%): Left: -23.6 Right:23.8

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	4125.0	4112.3	4060.8	3994.4	3919.5	3844.9	3746.5	3642.4	3531.3	3417.3
45.0	4125.0	4085.1	4055.1	4008.4	3955.6	3883.9	3805.9	3725.5	3628.2	3523.6
90.0	4125.0	4085.1	4055.1	4008.4	3955.6	3883.9	3805.9	3725.5	3628.2	3523.6
135.0	4125.0	4167.6	4169.3	4166.4	4148.0	4121.5	4081.6	4040.0	3974.9	3892.1
180.0	4125.0	4167.6	4169.3	4166.4	4148.0	4121.5	4081.6	4040.0	3974.9	3892.1
225.0	4125.0	4111.7	4106.8	4088.4	4055.3	4006.9	3952.1	3875.2	3787.9	3684.3
270.0	4125.0	4111.7	4106.8	4088.4	4055.3	4006.9	3952.1	3875.2	3787.9	3684.3
315.0	4125.0	4112.3	4060.8	3994.4	3919.5	3844.9	3746.5	3642.4	3531.3	3417.3
360.0	4125.0	4112.3	4060.8	3994.4	3919.5	3844.9	3746.5	3642.4	3531.3	3417.3

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	3300.5	3203.4	3089.0	2973.3	2863.9	2757.4	2664.5	2552.9	2442.4	2343.6
45.0	3415.1	3296.8	3196.2	3076.5	2962.5	2846.6	2742.7	2648.9	2573.1	2474.9
90.0	3415.1	3296.8	3196.2	3076.5	2962.5	2846.6	2742.7	2648.9	2573.1	2474.9
135.0	3790.6	3679.4	3554.8	3434.0	3328.8	3210.9	3093.8	2984.9	2873.3	2778.7
180.0	3790.6	3679.4	3554.8	3434.0	3328.8	3210.9	3093.8	2984.9	2873.3	2778.7
225.0	3571.4	3473.4	3352.7	3233.2	3117.3	3009.9	2898.7	2791.1	2701.9	2599.2
270.0	3571.4	3473.4	3352.7	3233.2	3117.3	3009.9	2898.7	2791.1	2701.9	2599.2
315.0	3300.5	3203.4	3089.0	2973.3	2863.9	2757.4	2664.5	2552.9	2442.4	2343.6
360.0	3300.5	3203.4	3089.0	2973.3	2863.9	2757.4	2664.5	2552.9	2442.4	2343.6

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	2250.7	2151.8	2045.8	1951.3	1829.6	1694.9	1539.2	1368.1	1243.8	1159.6
45.0	2372.3	2269.3	2148.5	2020.3	1916.0	1788.9	1644.5	1483.6	1309.8	1203.5
90.0	2372.3	2269.3	2148.5	2020.3	1916.0	1788.9	1644.5	1483.6	1309.8	1203.5
135.0	2671.3	2570.9	2477.8	2379.8	2272.8	2182.1	2063.3	1936.8	1799.4	1667.3
180.0	2671.3	2570.9	2477.8	2379.8	2272.8	2182.1	2063.3	1936.8	1799.4	1667.3
225.0	2498.6	2395.3	2294.9	2221.9	2130.3	2032.2	1921.2	1803.3	1669.7	1547.4
270.0	2498.6	2395.3	2294.9	2221.9	2130.3	2032.2	1921.2	1803.3	1669.7	1547.4
315.0	2250.7	2151.8	2045.8	1951.3	1829.6	1694.9	1539.2	1368.1	1243.8	1159.6
360.0	2250.7	2151.8	2045.8	1951.3	1829.6	1694.9	1539.2	1368.1	1243.8	1159.6

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	1091.3	947.2	758.6	563.5	391.6	216.8	87.5	49.3	38.6	32.5
45.0	1144.7	1076.8	936.1	756.2	540.9	360.5	190.2	76.1	51.1	41.2
90.0	1144.7	1076.8	936.1	756.2	540.9	360.5	190.2	76.1	51.1	41.2
135.0	1525.2	1389.6	1252.1	1168.4	1108.1	981.4	824.1	622.0	426.7	249.2
180.0	1525.2	1389.6	1252.1	1168.4	1108.1	981.4	824.1	622.0	426.7	249.2
225.0	1386.5	1233.7	1153.1	1104.2	994.4	854.8	648.1	423.7	229.9	91.2
270.0	1386.5	1233.7	1153.1	1104.2	994.4	854.8	648.1	423.7	229.9	91.2
315.0	1091.3	947.2	758.6	563.5	391.6	216.8	87.5	49.3	38.6	32.5
360.0	1091.3	947.2	758.6	563.5	391.6	216.8	87.5	49.3	38.6	32.5

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	28.1	25.0	23.2	20.8	19.7	18.4	17.5	15.5	14.7	14.7
45.0	35.1	31.3	28.1	25.7	23.7	21.5	20.6	18.9	18.4	17.5
90.0	35.1	31.3	28.1	25.7	23.7	21.5	20.6	18.9	18.4	17.5
135.0	109.1	60.3	48.9	40.5	37.1	30.9	28.9	25.4	23.2	22.1
180.0	109.1	60.3	48.9	40.5	37.1	30.9	28.9	25.4	23.2	22.1
225.0	41.7	32.9	27.6	24.3	22.8	20.1	18.2	17.3	16.7	15.3
270.0	41.7	32.9	27.6	24.3	22.8	20.1	18.2	17.3	16.7	15.3
315.0	28.1	25.0	23.2	20.8	19.7	18.4	17.5	15.5	14.7	14.7
360.0	28.1	25.0	23.2	20.8	19.7	18.4	17.5	15.5	14.7	14.7

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	14.5	14.3	14.0	14.0	13.6	12.9	12.3	12.3	12.3	11.6
45.0	16.2	16.7	14.9	15.3	14.5	14.7	14.0	14.0	13.8	12.9
90.0	16.2	16.7	14.9	15.3	14.5	14.7	14.0	14.0	13.8	12.9
135.0	20.8	18.6	18.2	17.5	16.5	16.7	16.7	14.7	14.7	14.9
180.0	20.8	18.6	18.2	17.5	16.5	16.7	16.7	14.7	14.7	14.9
225.0	14.5	14.5	13.8	14.0	12.1	12.7	12.7	12.3	11.6	11.9
270.0	14.5	14.5	13.8	14.0	12.1	12.7	12.7	12.3	11.6	11.9
315.0	14.5	14.3	14.0	14.0	13.6	12.9	12.3	12.3	12.3	11.6
360.0	14.5	14.3	14.0	14.0	13.6	12.9	12.3	12.3	12.3	11.6

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	10.9	9.9	9.5	9.2	8.0	6.8	6.1	2.9	2.2	1.1
45.0	12.7	12.1	11.6	10.9	9.9	9.2	7.7	6.6	4.8	2.9
90.0	12.7	12.1	11.6	10.9	9.9	9.2	7.7	6.6	4.8	2.9
135.0	13.6	14.5	13.8	12.1	10.9	10.9	10.7	8.7	8.1	6.6
180.0	13.6	14.5	13.8	12.1	10.9	10.9	10.7	8.7	8.1	6.6
225.0	11.6	11.9	10.5	9.2	9.2	7.9	8.5	7.2	5.3	4.1
270.0	11.6	11.9	10.5	9.2	9.2	7.9	8.5	7.2	5.3	4.1
315.0	10.9	9.9	9.5	9.2	8.0	6.8	6.1	2.9	2.2	1.1
360.0	10.9	9.9	9.5	9.2	8.0	6.8	6.1	2.9	2.2	1.1

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	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	5.5	4.1	2.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
180.0	5.5	4.1	2.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
225.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	2.2	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

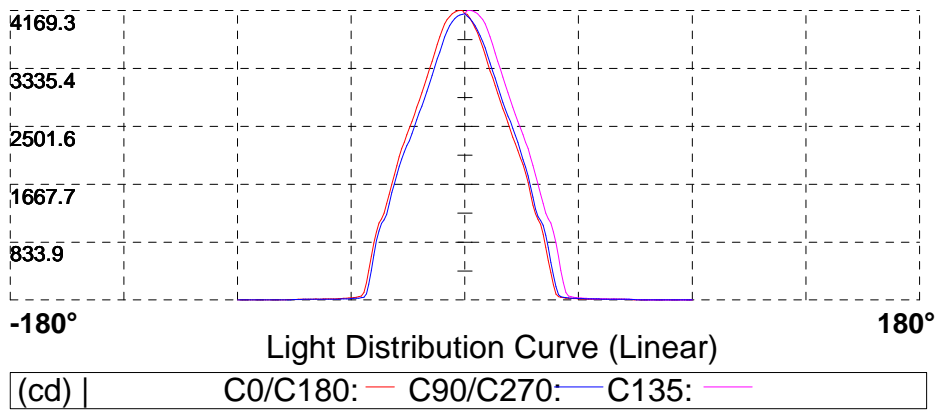
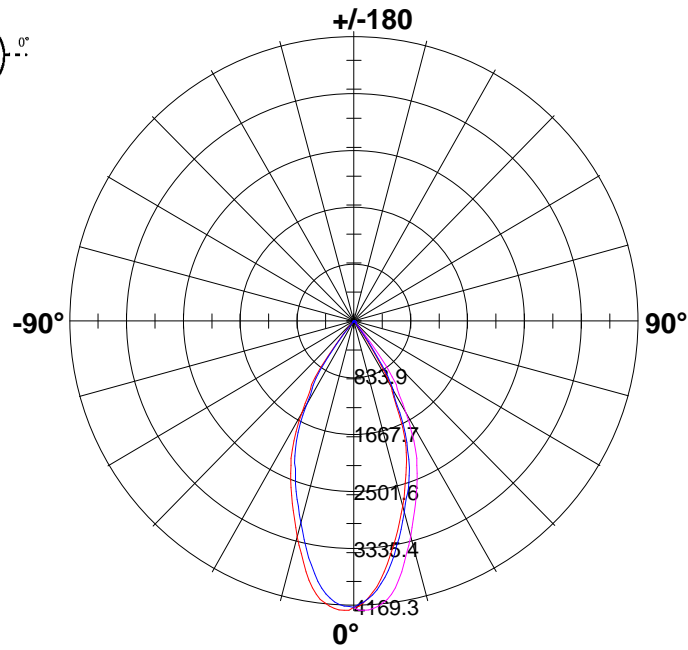
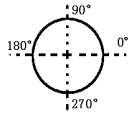
Photometric Data Table [cd]

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

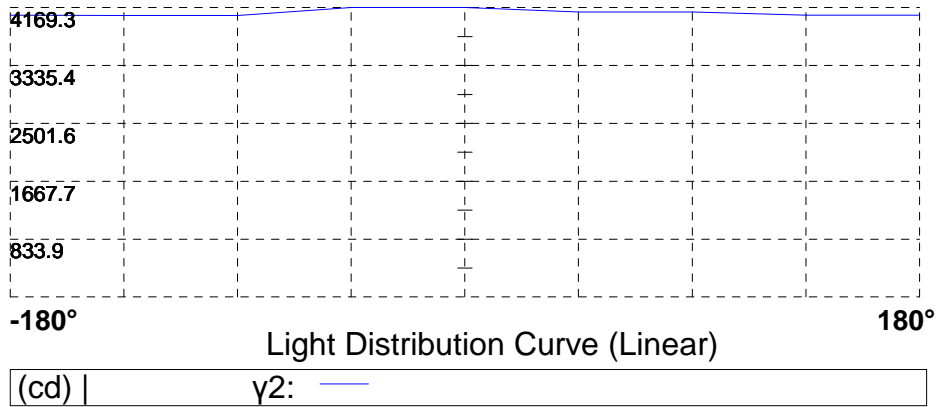
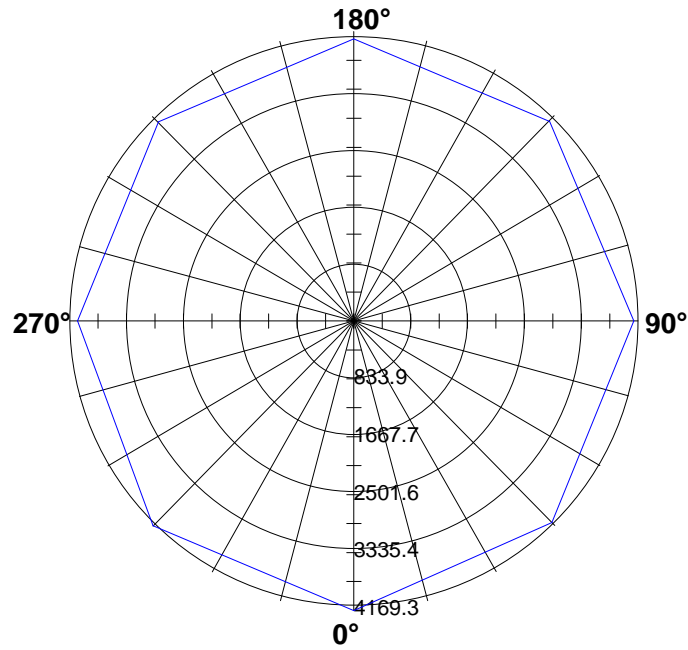
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

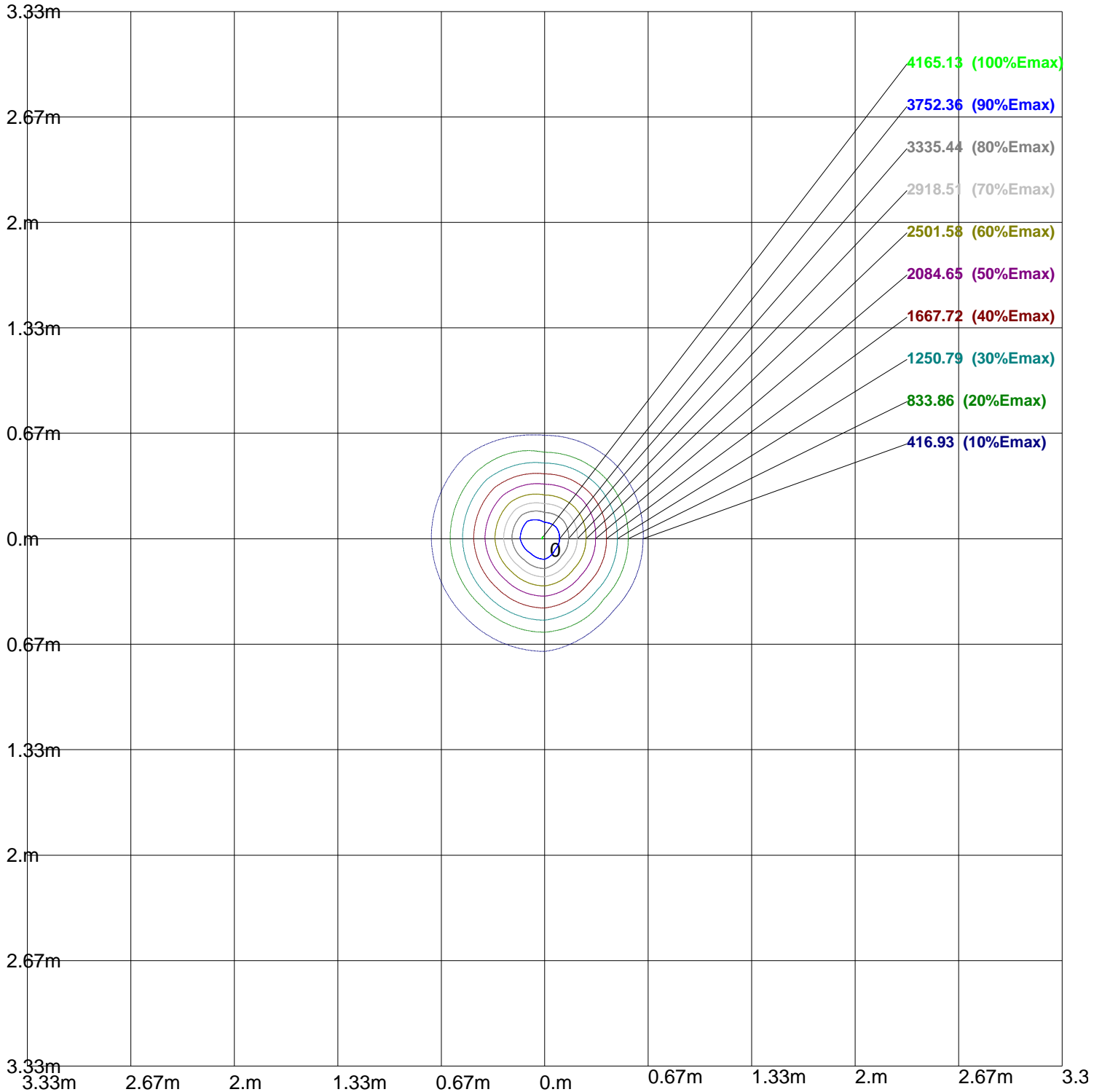
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 4169.29lx

Luminance Limiting Curve

Diameter: 175mm

Length: mm

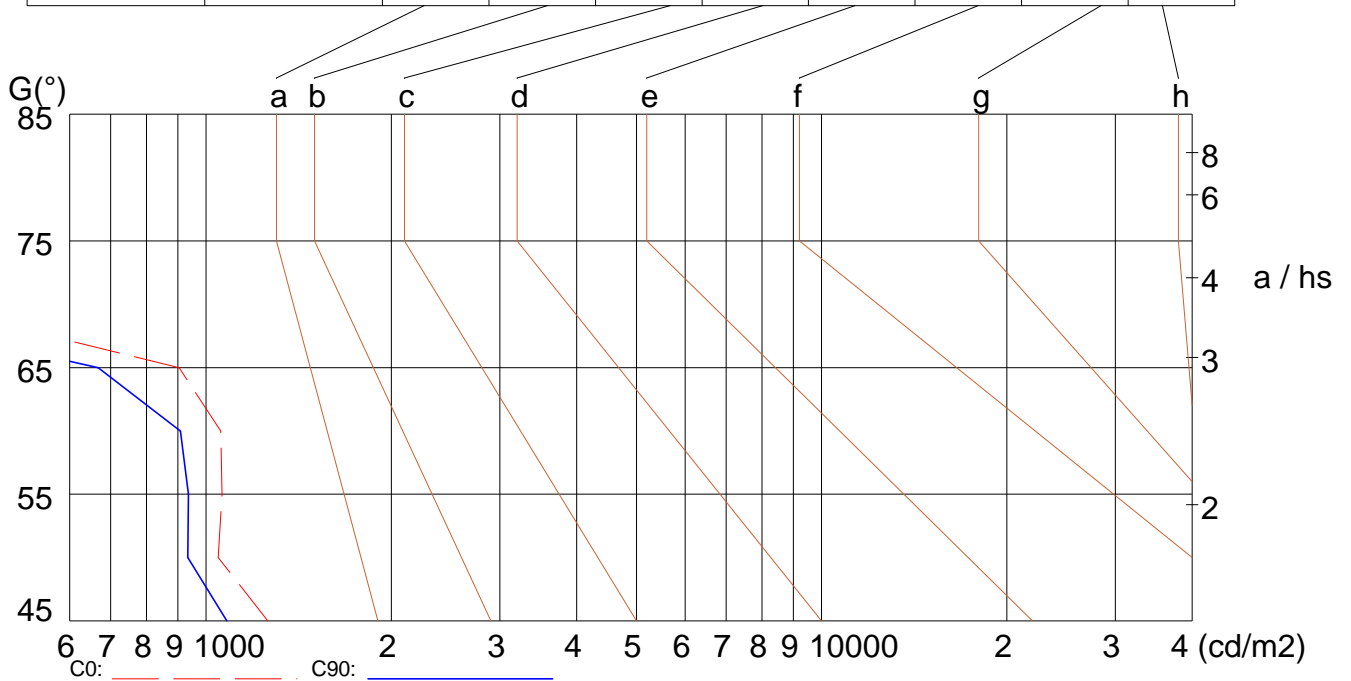
Width: 175mm

Height: 265 mm

(cd/m²)

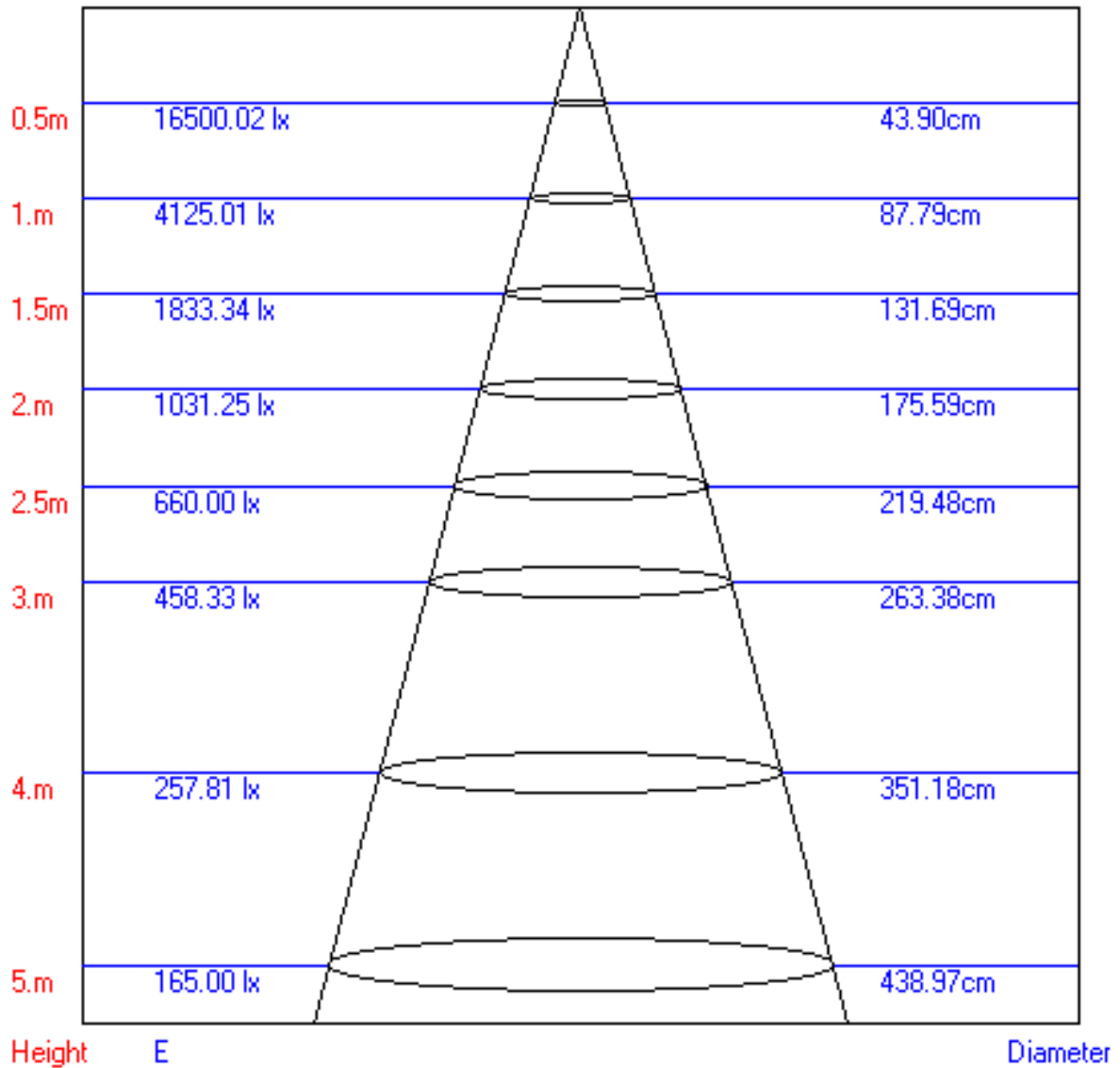
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	1260	1046	1061	1056	903				
C90	1080	934	936	908	668				

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:47.40°

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	1.15	1.14	1.14	1.13	1.12	1.12	1.09	1.08	1.07	1.03	1.02	1.01	0.96	0.95	0.94	0.89
2	1.09	1.08	1.07	1.07	1.06	1.05	1.03	1.01	1.00	0.98	0.96	0.95	0.92	0.90	0.88	0.84
3	1.03	1.01	1.01	1.01	1.00	0.98	0.98	0.96	0.94	0.93	0.91	0.89	0.88	0.86	0.83	0.79
4	0.97	0.96	0.95	0.96	0.94	0.93	0.93	0.90	0.88	0.89	0.86	0.84	0.84	0.81	0.79	0.74
5	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	0.74	0.70
6	0.87	0.85	0.85	0.86	0.84	0.83	0.83	0.81	0.79	0.81	0.77	0.75	0.77	0.73	0.70	0.66
7	0.82	0.81	0.80	0.81	0.80	0.78	0.79	0.76	0.74	0.77	0.73	0.71	0.74	0.70	0.67	0.63
8	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.73	0.71	0.73	0.70	0.67	0.71	0.66	0.63	0.60
9	0.74	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.71	0.70	0.69	0.70	0.68	0.67	0.69	0.66	0.64	0.67	0.63	0.61	0.65	0.60	0.57	0.54

