

Luminaire Property

Luminaire: RH-LP1104 30W 3000K 60°

Report NO.:

Test NO.:

Lamp:

Sum Lumens: 2368.54 lm

Number of Lamps: 1

Diameter: 110mm

Length: mm

Photometric Type: Type C

Voltage: 221.2 V

Current: 0.133 A

Power: 28.7 W

Power Factor: 0.972

Ballast Type: OSRAM OT FIT 30 700mA

Width: 110mm

Height: 165mm

Remark: CREE CXA 1820N

Photometric Results

Lumens: 2368.54 lm

Efficiency: 82.5275 lm/W

Central Intensity: 3147.084cd

Maximum Intensity: 3161.16cd

Angle of maximum intensity: C:135.0 G:1.0

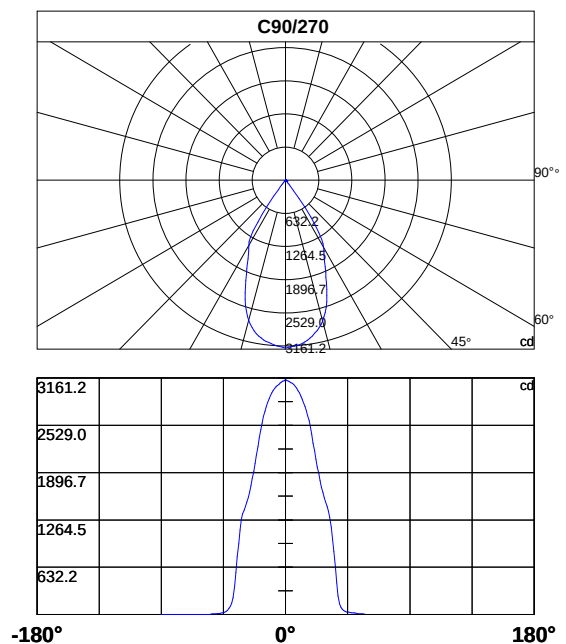
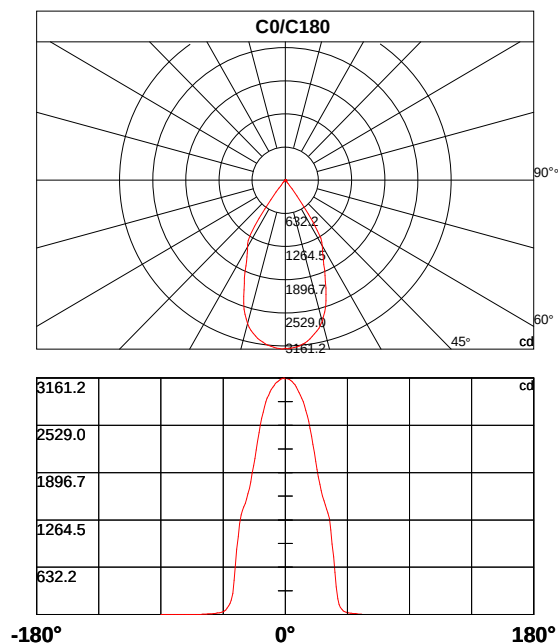
Half Peak Side Angle(50%): Left: -28.1 Right:26.5

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -38.3 Right:36.8



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	3147.1	3157.4	3149.8	3139.8	3127.6	3114.3	3090.3	3071.3	3042.3	3007.1
45.0	3147.1	3127.6	3117.9	3111.0	3099.4	3089.1	3073.4	3049.2	3023.5	2990.2
90.0	3147.1	3127.6	3117.9	3111.0	3099.4	3089.1	3073.4	3049.2	3023.5	2990.2
135.0	3147.1	3161.2	3153.8	3148.8	3135.8	3117.9	3105.5	3087.2	3059.9	3035.6
180.0	3147.1	3161.2	3153.8	3148.8	3135.8	3117.9	3105.5	3087.2	3059.9	3035.6
225.0	3147.1	3125.7	3118.8	3108.1	3093.6	3073.7	3057.0	3041.8	3019.7	2992.4
270.0	3147.1	3125.7	3118.8	3108.1	3093.6	3073.7	3057.0	3041.8	3019.7	2992.4
315.0	3147.1	3157.4	3149.8	3139.8	3127.6	3114.3	3090.3	3071.3	3042.3	3007.1
360.0	3147.1	3157.4	3149.8	3139.8	3127.6	3114.3	3090.3	3071.3	3042.3	3007.1

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	2967.4	2931.5	2894.1	2847.3	2789.0	2727.9	2652.1	2582.4	2489.9	2385.3
45.0	2958.8	2916.7	2881.1	2834.9	2783.8	2726.3	2657.6	2593.1	2504.6	2403.3
90.0	2958.8	2916.7	2881.1	2834.9	2783.8	2726.3	2657.6	2593.1	2504.6	2403.3
135.0	3008.3	2972.8	2933.6	2892.5	2840.6	2777.1	2705.1	2623.0	2538.6	2432.6
180.0	3008.3	2972.8	2933.6	2892.5	2840.6	2777.1	2705.1	2623.0	2538.6	2432.6
225.0	2959.3	2925.3	2883.7	2833.3	2779.3	2717.9	2646.8	2559.1	2474.2	2363.9
270.0	2959.3	2925.3	2883.7	2833.3	2779.3	2717.9	2646.8	2559.1	2474.2	2363.9
315.0	2967.4	2931.5	2894.1	2847.3	2789.0	2727.9	2652.1	2582.4	2489.9	2385.3
360.0	2967.4	2931.5	2894.1	2847.3	2789.0	2727.9	2652.1	2582.4	2489.9	2385.3

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	2274.7	2162.9	2045.2	1939.9	1842.1	1741.1	1656.7	1584.1	1516.4	1464.6
45.0	2291.4	2185.0	2075.2	1973.2	1886.6	1787.7	1702.3	1628.9	1561.6	1507.3
90.0	2291.4	2185.0	2075.2	1973.2	1886.6	1787.7	1702.3	1628.9	1561.6	1507.3
135.0	2313.0	2199.1	2085.4	1990.8	1881.2	1772.3	1684.0	1611.0	1543.7	1482.1
180.0	2313.0	2199.1	2085.4	1990.8	1881.2	1772.3	1684.0	1611.0	1543.7	1482.1
225.0	2242.8	2132.7	2019.5	1910.1	1819.6	1720.9	1638.8	1566.8	1503.1	1447.7
270.0	2242.8	2132.7	2019.5	1910.1	1819.6	1720.9	1638.8	1566.8	1503.1	1447.7
315.0	2274.7	2162.9	2045.2	1939.9	1842.1	1741.1	1656.7	1584.1	1516.4	1464.6
360.0	2274.7	2162.9	2045.2	1939.9	1842.1	1741.1	1656.7	1584.1	1516.4	1464.6

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	1408.0	1357.0	1277.1	1127.4	941.9	771.6	565.7	367.9	208.8	130.8
45.0	1447.7	1383.0	1301.9	1169.7	1002.8	842.2	632.0	423.2	247.8	142.9
90.0	1447.7	1383.0	1301.9	1169.7	1002.8	842.2	632.0	423.2	247.8	142.9
135.0	1436.0	1392.5	1332.1	1212.0	1040.5	870.6	660.6	456.6	281.3	190.0
180.0	1436.0	1392.5	1332.1	1212.0	1040.5	870.6	660.6	456.6	281.3	190.0
225.0	1394.9	1346.1	1269.6	1128.3	946.9	768.5	561.0	375.0	224.9	152.2
270.0	1394.9	1346.1	1269.6	1128.3	946.9	768.5	561.0	375.0	224.9	152.2
315.0	1408.0	1357.0	1277.1	1127.4	941.9	771.6	565.7	367.9	208.8	130.8
360.0	1408.0	1357.0	1277.1	1127.4	941.9	771.6	565.7	367.9	208.8	130.8

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	94.2	66.4	46.4	38.3	31.1	26.4	23.3	17.8	14.7	13.1
45.0	99.6	73.3	56.8	41.9	34.3	32.8	29.0	26.2	23.3	20.4
90.0	99.6	73.3	56.8	41.9	34.3	32.8	29.0	26.2	23.3	20.4
135.0	144.3	112.9	82.5	57.8	47.1	37.3	30.9	24.7	20.9	18.8
180.0	144.3	112.9	82.5	57.8	47.1	37.3	30.9	24.7	20.9	18.8
225.0	109.6	78.9	55.4	39.9	30.0	24.2	22.6	17.1	14.5	12.1
270.0	109.6	78.9	55.4	39.9	30.0	24.2	22.6	17.1	14.5	12.1
315.0	94.2	66.4	46.4	38.3	31.1	26.4	23.3	17.8	14.7	13.1
360.0	94.2	66.4	46.4	38.3	31.1	26.4	23.3	17.8	14.7	13.1

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	13.3	11.7	9.8	5.5	3.8	2.1	0.5	0.0	0.0	0.0
45.0	18.3	16.2	14.3	9.3	7.6	8.8	7.0	5.2	1.7	0.0
90.0	18.3	16.2	14.3	9.3	7.6	8.8	7.0	5.2	1.7	0.0
135.0	15.7	13.5	11.2	9.8	9.3	8.8	7.4	5.5	4.5	3.3
180.0	15.7	13.5	11.2	9.8	9.3	8.8	7.4	5.5	4.5	3.3
225.0	9.8	7.8	7.7	7.6	3.1	1.0	0.5	0.0	0.0	0.0
270.0	9.8	7.8	7.7	7.6	3.1	1.0	0.5	0.0	0.0	0.0
315.0	13.3	11.7	9.8	5.5	3.8	2.1	0.5	0.0	0.0	0.0
360.0	13.3	11.7	9.8	5.5	3.8	2.1	0.5	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	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	2.1	0.5	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

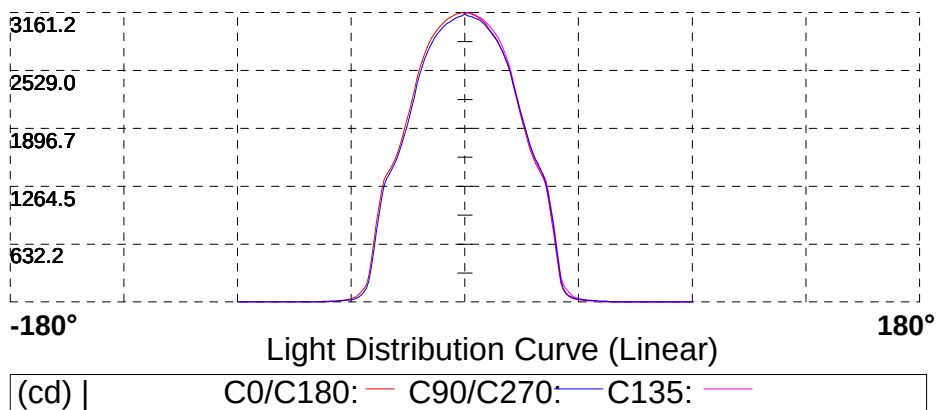
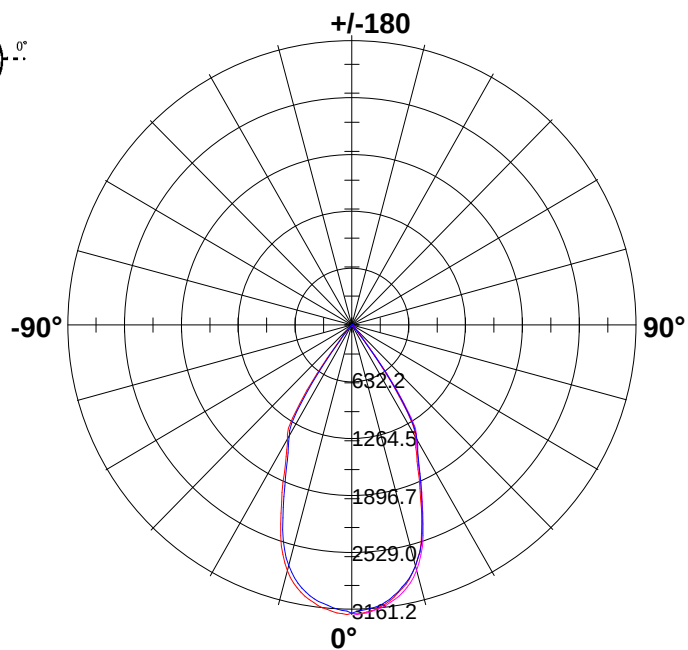
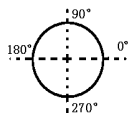
Photometric Data Table [cd]

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

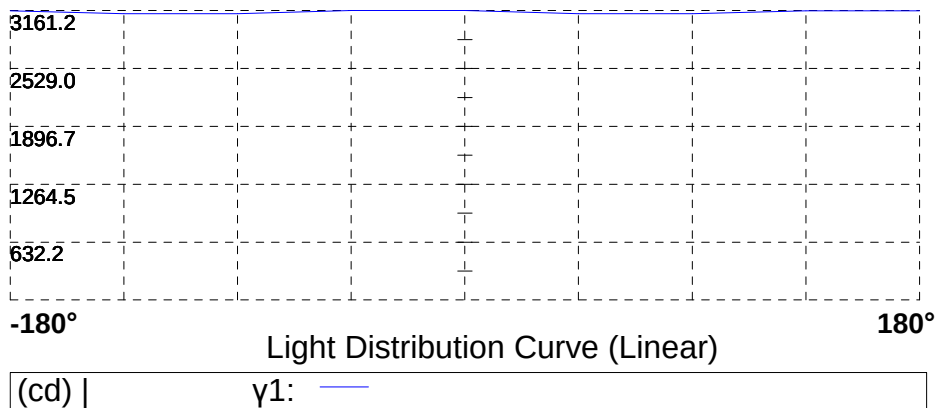
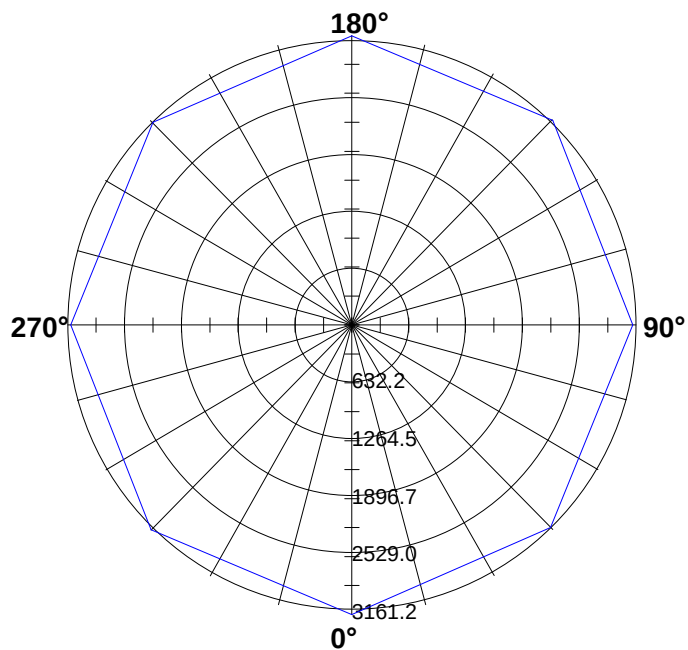
C\G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

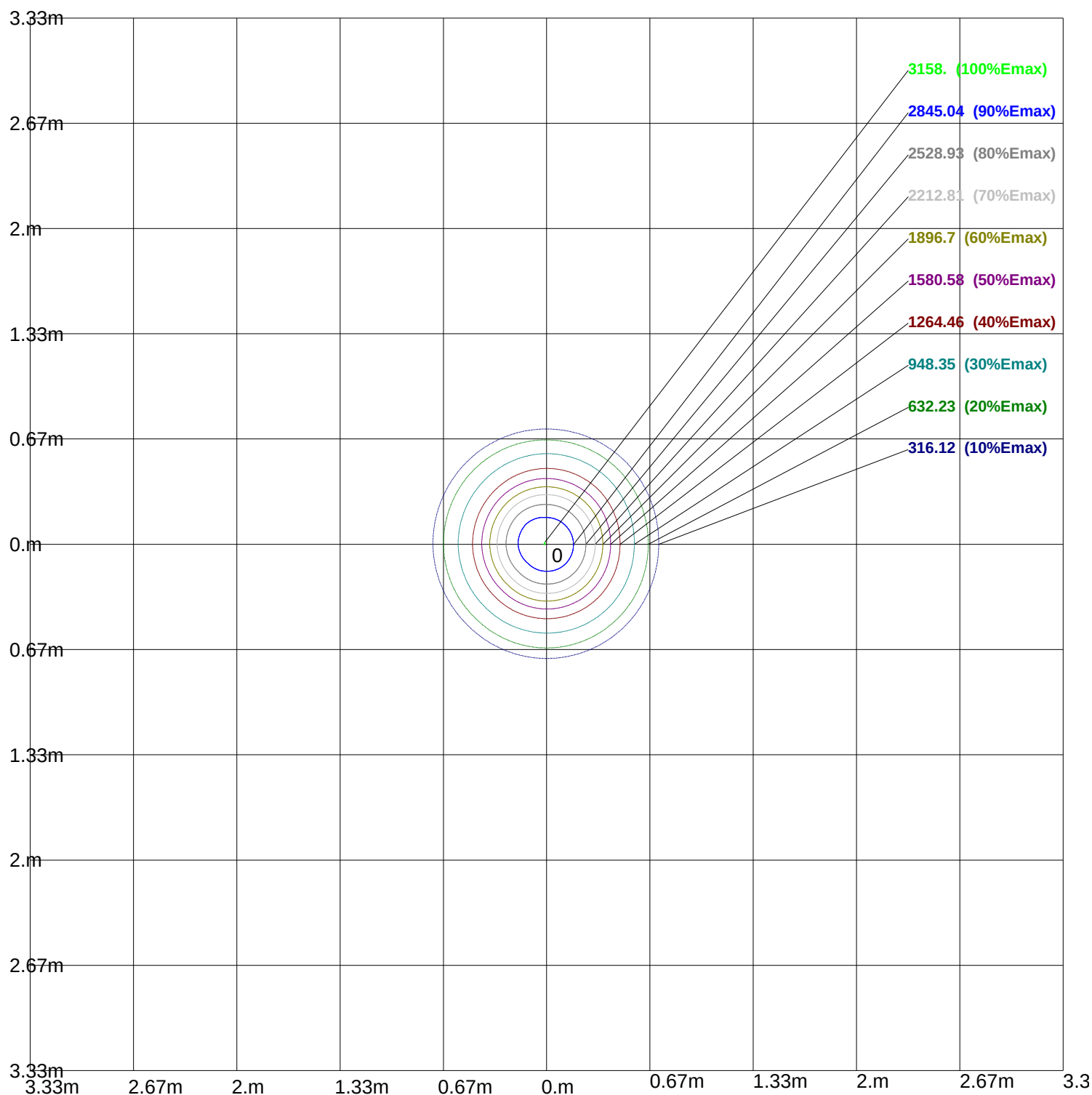
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 3161.16lx

Luminance Limiting Curve

Diameter: 110mm

Length: mm

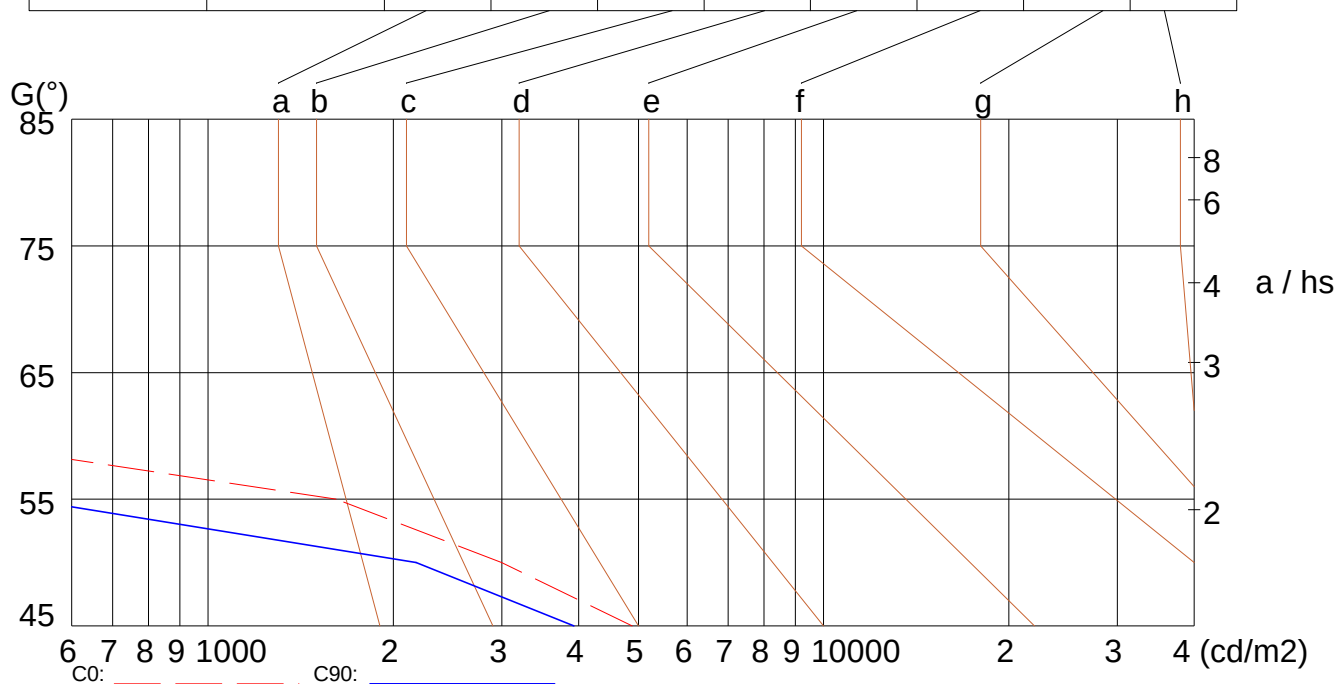
Width: 110mm

Height: 165mm

(cd/m²)

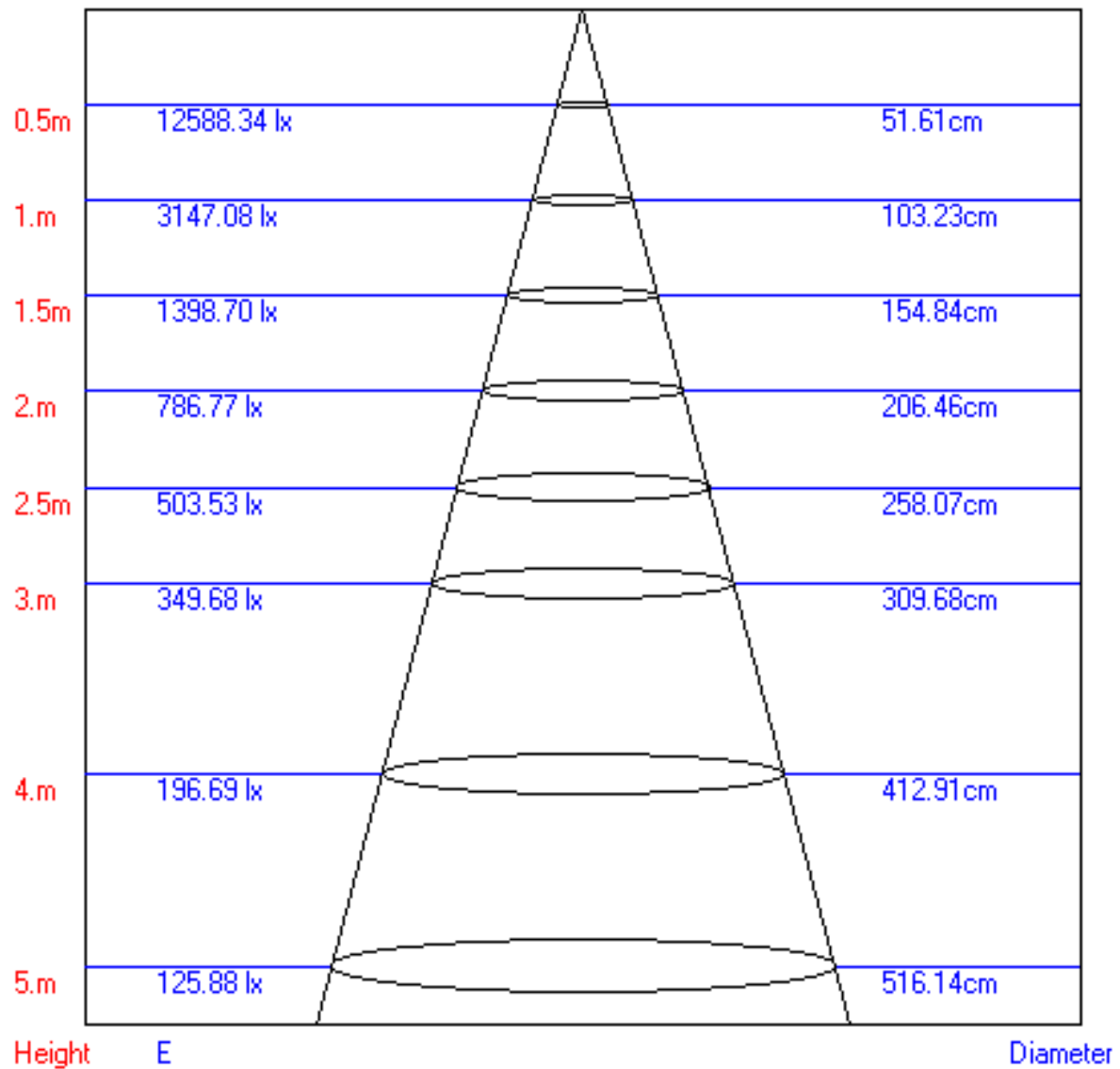
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4886	2997	1614						
C90	3927	2177	389						

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:54.60°

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	1.13	1.13	1.12	1.11	1.09	1.08	1.07	1.03	1.02	1.01	0.96	0.95	0.94	0.88
2	1.08	1.07	1.06	1.06	1.05	1.04	1.03	1.01	0.99	0.98	0.96	0.94	0.92	0.90	0.88	0.83
3	1.02	1.00	0.99	1.00	0.99	0.97	0.97	0.95	0.93	0.93	0.90	0.88	0.88	0.85	0.82	0.78
4	0.96	0.94	0.93	0.94	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.84	0.80	0.77	0.73
5	0.90	0.89	0.88	0.89	0.87	0.86	0.86	0.84	0.82	0.83	0.80	0.77	0.80	0.76	0.73	0.69
6	0.85	0.83	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.75	0.73	0.76	0.72	0.69	0.65
7	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.69	0.72	0.68	0.65	0.61
8	0.76	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.58
9	0.72	0.70	0.69	0.71	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.61	0.58	0.55
10	0.68	0.67	0.66	0.67	0.65	0.64	0.66	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.55	0.52

