

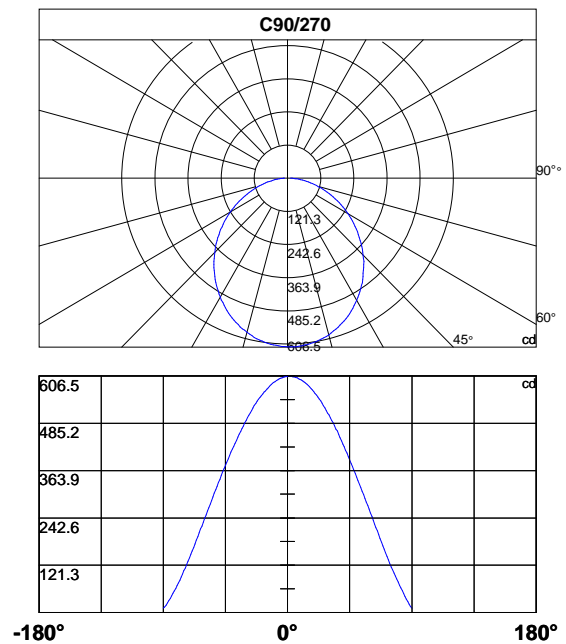
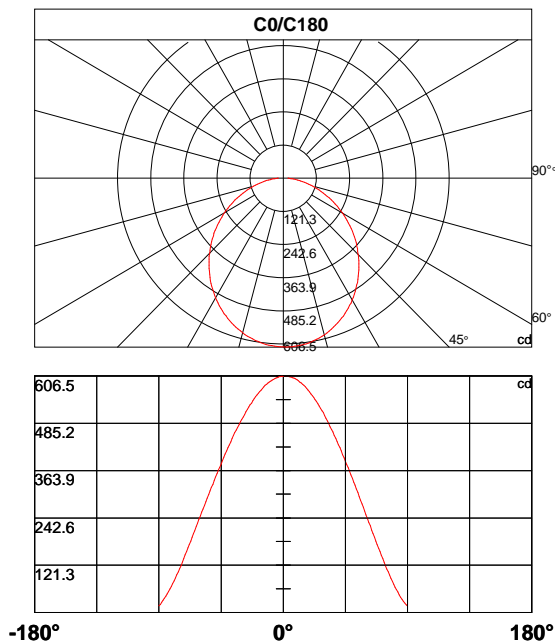
Luminaire Property

Luminaire: CL20R1 20W 5CCT 4000K

Report NO.:	Voltage: 120.2 V
Test NO.:	Current: 0.208 A
Lamp:	Power: 22.6 W
Sum Lumens: 1678.97 lm	Power Factor: 0.904
Number of Lamps: 1	Ballast Type:
Diameter: 275mm	Width: 275mm
Length: mm	Height: 87mm
Photometric Type: Type C	Remark:

Photometric Results

Lumens: 1678.97 lm	Angle of maximum intensity: C:0.0 G:1.0
Efficiency: 74.2907 lm/W	Half Peak Side Angle(50%): Left: -54.9 Right:53.4
Central Intensity: 605.325cd	Light Out Rate(LOR) : 100.00%
Maximum Intensity: 606.466cd	Up Flux Rate: 0.0%
Beam Angle(10%): Left: -83.0 Right:80.7	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	605.3	606.5	605.9	606.1	605.4	604.0	602.9	601.6	600.8	599.0
45.0	605.3	606.0	605.9	606.0	604.4	604.2	602.4	601.8	599.5	597.9
90.0	605.3	606.0	605.9	606.0	604.4	604.2	602.4	601.8	599.5	597.9
135.0	605.3	606.0	605.0	604.6	602.6	601.8	600.1	598.0	596.0	593.8
180.0	605.3	606.0	605.0	604.6	602.6	601.8	600.1	598.0	596.0	593.8
225.0	605.3	604.6	604.4	603.3	602.0	601.0	599.6	597.3	595.1	592.3
270.0	605.3	604.6	604.4	603.3	602.0	601.0	599.6	597.3	595.1	592.3
315.0	605.3	606.5	605.9	606.1	605.4	604.0	602.9	601.6	600.8	599.0
360.0	605.3	606.5	605.9	606.1	605.4	604.0	602.9	601.6	600.8	599.0

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	596.4	594.0	591.3	588.4	585.3	582.4	578.6	574.7	570.3	565.7
45.0	596.0	593.6	590.7	588.9	585.5	582.2	578.5	574.0	570.7	566.1
90.0	596.0	593.6	590.7	588.9	585.5	582.2	578.5	574.0	570.7	566.1
135.0	591.0	588.2	585.5	582.5	578.7	574.8	570.1	566.1	562.2	557.8
180.0	591.0	588.2	585.5	582.5	578.7	574.8	570.1	566.1	562.2	557.8
225.0	590.5	587.9	584.9	580.9	576.8	573.3	568.4	565.5	561.0	555.8
270.0	590.5	587.9	584.9	580.9	576.8	573.3	568.4	565.5	561.0	555.8
315.0	596.4	594.0	591.3	588.4	585.3	582.4	578.6	574.7	570.3	565.7
360.0	596.4	594.0	591.3	588.4	585.3	582.4	578.6	574.7	570.3	565.7

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	560.8	556.3	551.8	545.8	541.7	535.3	529.6	523.8	517.2	512.6
45.0	561.7	557.1	552.3	547.6	542.4	536.9	530.7	524.8	518.3	511.7
90.0	561.7	557.1	552.3	547.6	542.4	536.9	530.7	524.8	518.3	511.7
135.0	552.9	548.2	543.4	537.1	532.7	526.8	520.9	514.5	507.7	501.6
180.0	552.9	548.2	543.4	537.1	532.7	526.8	520.9	514.5	507.7	501.6
225.0	551.4	546.4	541.6	535.9	530.8	524.3	518.3	512.1	505.6	500.1
270.0	551.4	546.4	541.6	535.9	530.8	524.3	518.3	512.1	505.6	500.1
315.0	560.8	556.3	551.8	545.8	541.7	535.3	529.6	523.8	517.2	512.6
360.0	560.8	556.3	551.8	545.8	541.7	535.3	529.6	523.8	517.2	512.6

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	504.8	498.4	490.8	483.9	476.3	468.8	462.8	454.3	446.6	438.2
45.0	506.6	499.5	492.9	485.6	478.5	470.2	465.2	456.5	448.2	439.8
90.0	506.6	499.5	492.9	485.6	478.5	470.2	465.2	456.5	448.2	439.8
135.0	495.3	489.0	481.6	474.6	467.5	461.1	453.8	446.4	437.5	429.5
180.0	495.3	489.0	481.6	474.6	467.5	461.1	453.8	446.4	437.5	429.5
225.0	492.7	485.7	478.1	471.9	465.0	457.1	449.7	441.6	433.8	425.7
270.0	492.7	485.7	478.1	471.9	465.0	457.1	449.7	441.6	433.8	425.7
315.0	504.8	498.4	490.8	483.9	476.3	468.8	462.8	454.3	446.6	438.2
360.0	504.8	498.4	490.8	483.9	476.3	468.8	462.8	454.3	446.6	438.2

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	430.2	422.8	414.1	404.8	396.5	387.6	378.8	371.6	361.8	353.4
45.0	431.6	425.0	416.5	409.1	399.8	391.5	382.1	374.4	365.5	356.4
90.0	431.6	425.0	416.5	409.1	399.8	391.5	382.1	374.4	365.5	356.4
135.0	422.8	414.5	406.0	397.9	390.1	380.9	372.2	364.8	356.1	347.2
180.0	422.8	414.5	406.0	397.9	390.1	380.9	372.2	364.8	356.1	347.2
225.0	419.3	411.0	402.3	393.9	384.9	377.0	369.3	360.2	351.3	341.8
270.0	419.3	411.0	402.3	393.9	384.9	377.0	369.3	360.2	351.3	341.8
315.0	430.2	422.8	414.1	404.8	396.5	387.6	378.8	371.6	361.8	353.4
360.0	430.2	422.8	414.1	404.8	396.5	387.6	378.8	371.6	361.8	353.4

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	343.7	334.5	326.5	317.1	307.4	297.6	288.0	277.9	270.0	260.2
45.0	347.2	337.8	328.6	320.5	311.2	301.8	292.5	282.7	274.2	265.1
90.0	347.2	337.8	328.6	320.5	311.2	301.8	292.5	282.7	274.2	265.1
135.0	338.3	328.5	321.2	311.9	302.6	293.5	283.9	275.2	265.5	257.7
180.0	338.3	328.5	321.2	311.9	302.6	293.5	283.9	275.2	265.5	257.7
225.0	333.0	323.5	315.2	306.2	296.2	287.4	278.2	268.3	260.2	250.3
270.0	333.0	323.5	315.2	306.2	296.2	287.4	278.2	268.3	260.2	250.3
315.0	343.7	334.5	326.5	317.1	307.4	297.6	288.0	277.9	270.0	260.2
360.0	343.7	334.5	326.5	317.1	307.4	297.6	288.0	277.9	270.0	260.2

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	250.2	240.3	230.4	222.7	211.2	203.3	192.8	183.4	173.7	164.5
45.0	255.6	246.2	236.6	226.6	217.4	209.2	199.4	189.8	179.8	170.6
90.0	255.6	246.2	236.6	226.6	217.4	209.2	199.4	189.8	179.8	170.6
135.0	247.7	238.6	228.7	220.6	209.6	201.6	192.9	183.2	174.2	165.9
180.0	247.7	238.6	228.7	220.6	209.6	201.6	192.9	183.2	174.2	165.9
225.0	241.3	231.5	222.0	214.2	204.3	194.9	185.2	175.4	166.9	158.0
270.0	241.3	231.5	222.0	214.2	204.3	194.9	185.2	175.4	166.9	158.0
315.0	250.2	240.3	230.4	222.7	211.2	203.3	192.8	183.4	173.7	164.5
360.0	250.2	240.3	230.4	222.7	211.2	203.3	192.8	183.4	173.7	164.5

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	156.4	146.9	138.1	128.6	119.6	111.9	103.9	95.9	87.5	79.8
45.0	162.5	153.1	143.9	135.1	126.1	116.9	110.2	101.3	93.5	85.7
90.0	162.5	153.1	143.9	135.1	126.1	116.9	110.2	101.3	93.5	85.7
135.0	156.5	147.4	138.3	129.4	120.4	112.7	104.7	97.1	88.6	81.3
180.0	156.5	147.4	138.3	129.4	120.4	112.7	104.7	97.1	88.6	81.3
225.0	149.6	140.0	131.7	122.8	113.9	107.3	98.8	90.8	83.1	75.1
270.0	149.6	140.0	131.7	122.8	113.9	107.3	98.8	90.8	83.1	75.1
315.0	156.4	146.9	138.1	128.6	119.6	111.9	103.9	95.9	87.5	79.8
360.0	156.4	146.9	138.1	128.6	119.6	111.9	103.9	95.9	87.5	79.8

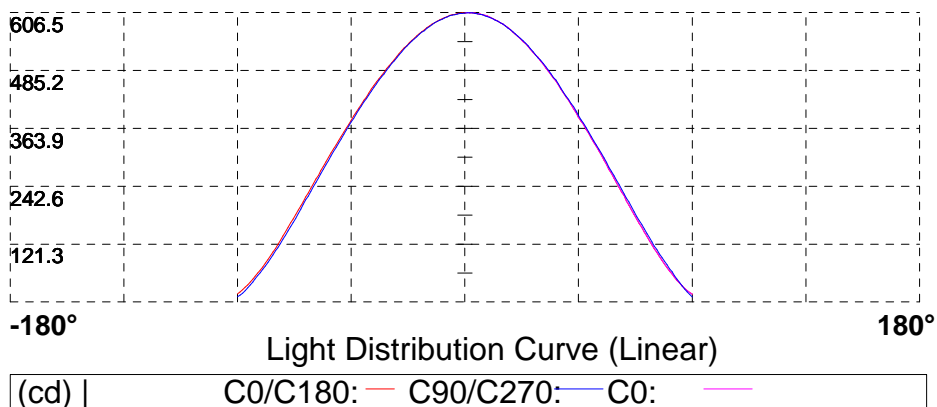
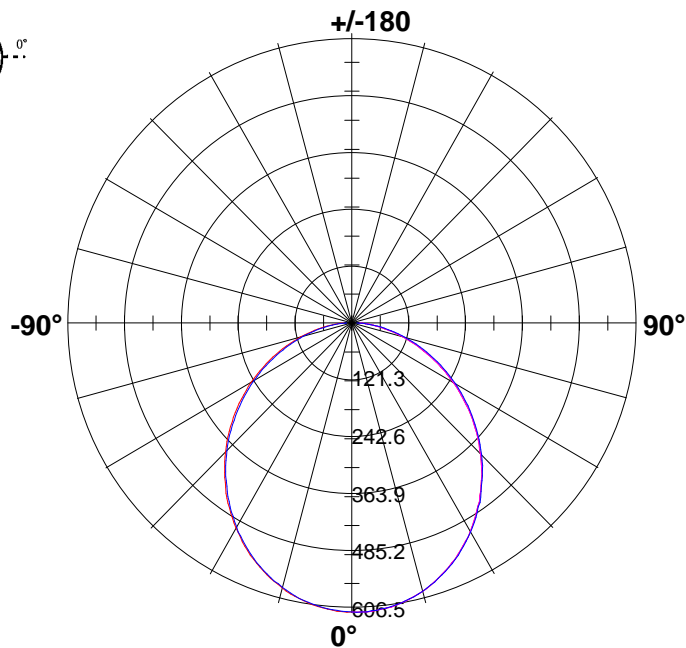
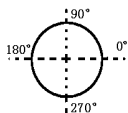
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	72.0	64.9	58.7	52.1	45.6	39.6	33.6	28.9	24.1	19.5
45.0	78.2	69.5	63.3	55.7	48.2	41.1	34.0	27.6	21.3	15.8
90.0	78.2	69.5	63.3	55.7	48.2	41.1	34.0	27.6	21.3	15.8
135.0	73.5	66.5	60.9	53.6	47.9	41.7	35.7	31.0	26.0	20.9
180.0	73.5	66.5	60.9	53.6	47.9	41.7	35.7	31.0	26.0	20.9
225.0	69.0	61.5	55.2	48.8	42.2	36.1	29.9	24.1	18.9	14.3
270.0	69.0	61.5	55.2	48.8	42.2	36.1	29.9	24.1	18.9	14.3
315.0	72.0	64.9	58.7	52.1	45.6	39.6	33.6	28.9	24.1	19.5
360.0	72.0	64.9	58.7	52.1	45.6	39.6	33.6	28.9	24.1	19.5

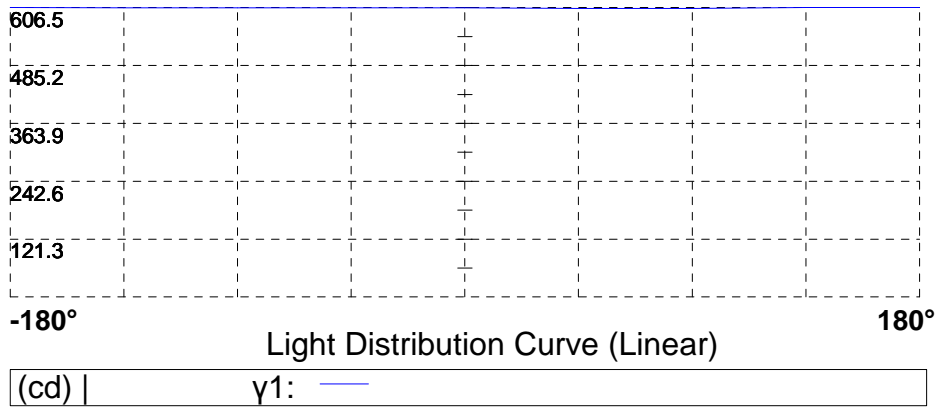
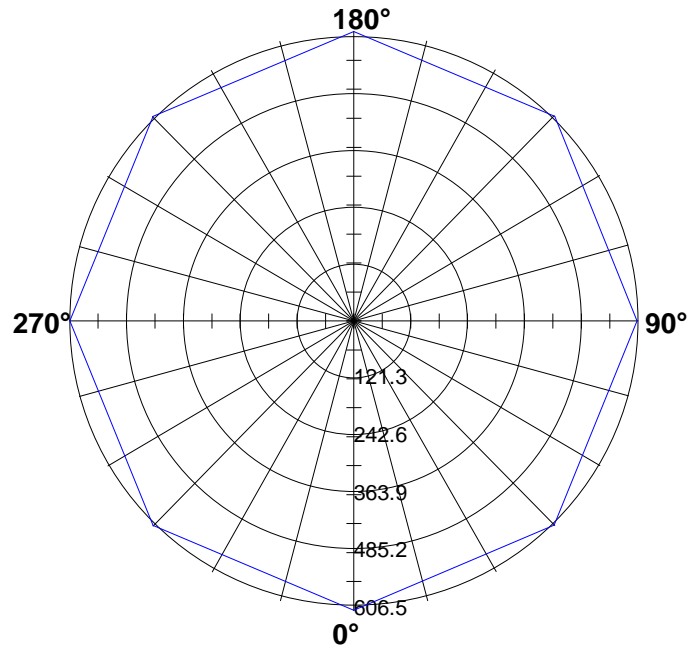
C\G	90.0
0.0	16.6
45.0	10.5
90.0	10.5
135.0	17.2
180.0	17.2
225.0	11.3
270.0	11.3
315.0	16.6
360.0	16.6

Light Distribution Curve [Unit: cd]

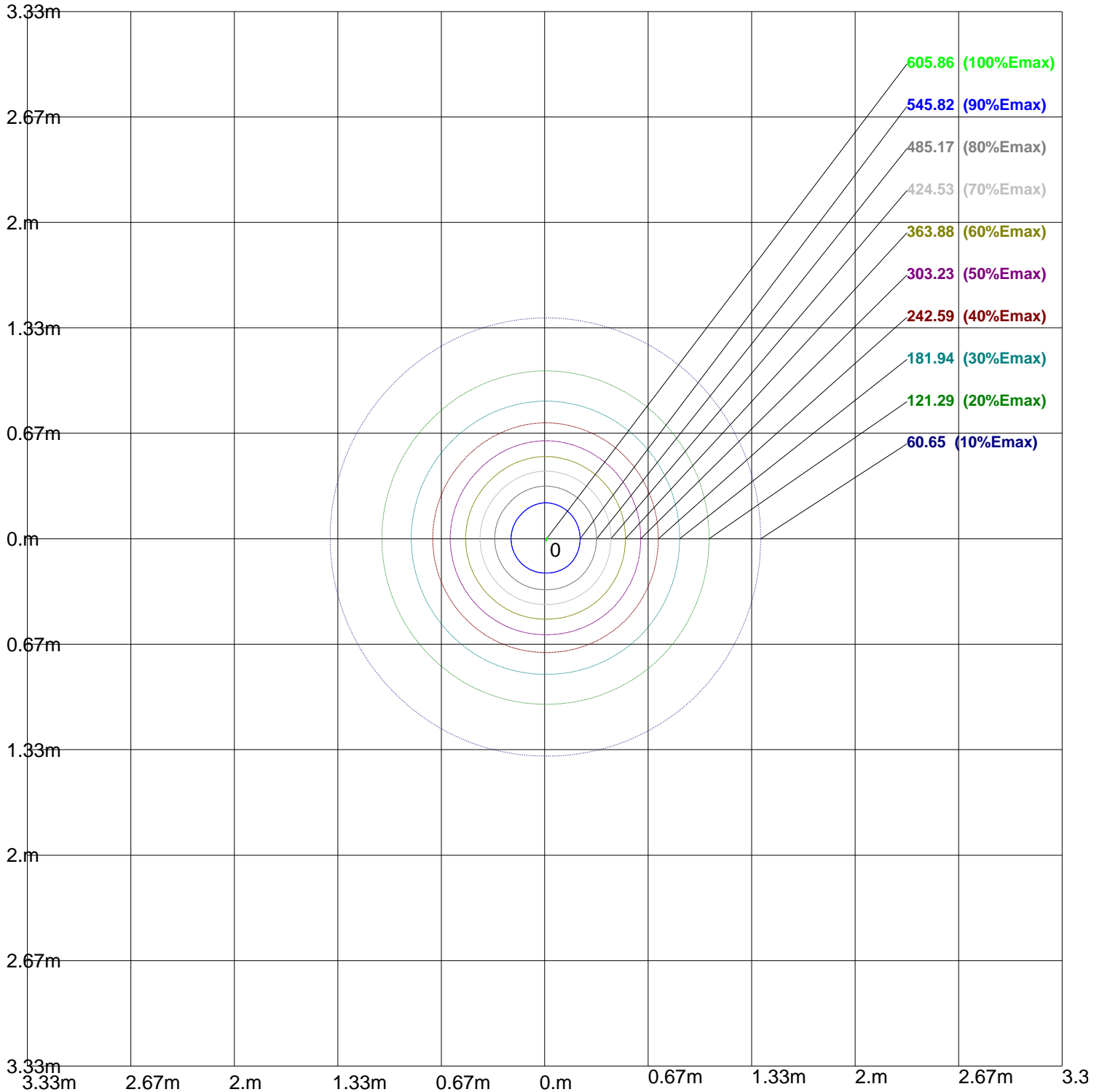
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 606.47lx

Luminance Limiting Curve

Diameter: 275mm

Length: mm

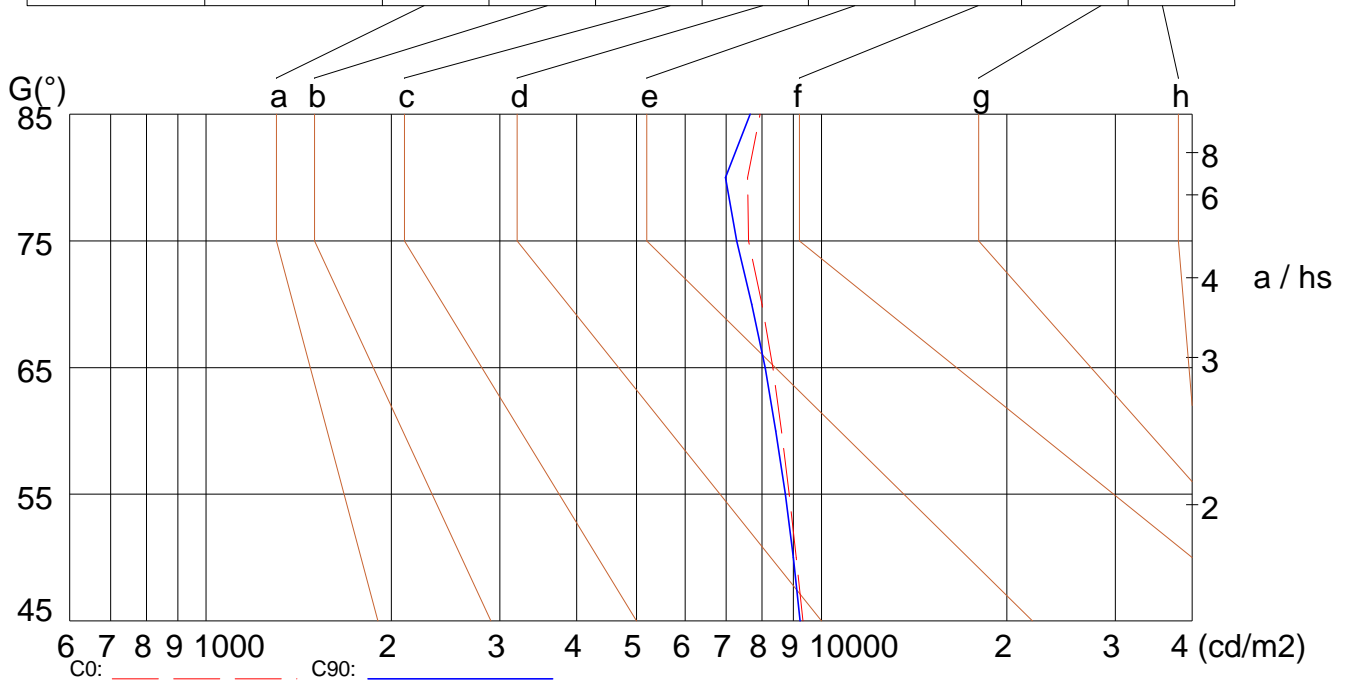
Width: 275mm

Height: 87mm

(cd/m²)

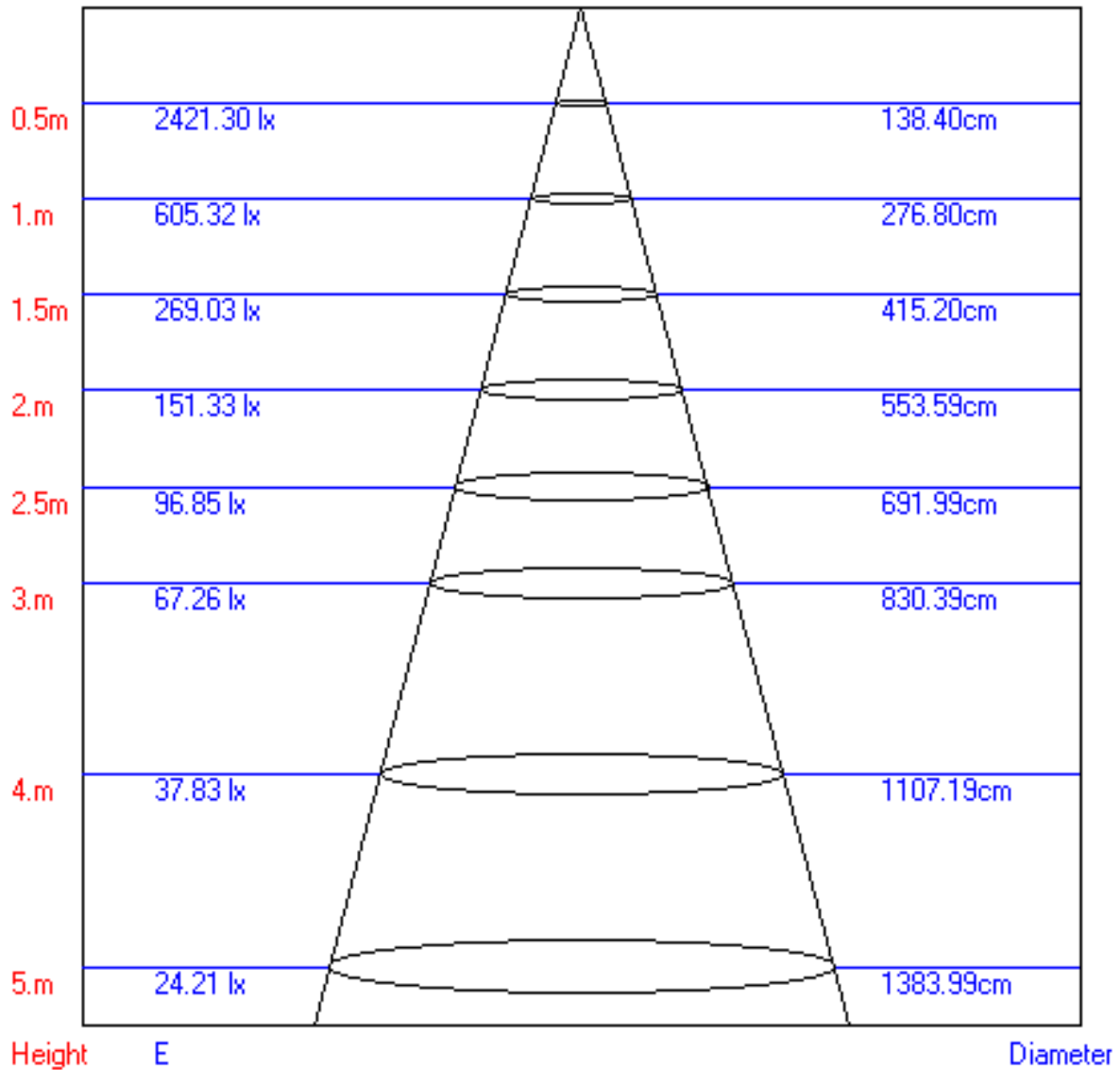
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	9321	9094	8859	8605	8333	7997	7605	7578	7939
C90	9228	9002	8734	8424	8097	7700	7279	6978	7653

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:108.30°

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	1.00	1.02	1.00	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.88	0.85	0.83	0.78
2	0.88	0.85	0.83	0.87	0.84	0.82	0.85	0.82	0.78	0.82	0.78	0.74	0.77	0.73	0.70	0.65
3	0.75	0.72	0.70	0.75	0.72	0.69	0.74	0.70	0.66	0.72	0.67	0.63	0.69	0.64	0.59	0.55
4	0.65	0.62	0.60	0.65	0.62	0.59	0.65	0.60	0.56	0.64	0.58	0.54	0.62	0.56	0.51	0.47
5	0.57	0.54	0.52	0.57	0.54	0.51	0.58	0.53	0.49	0.57	0.51	0.47	0.56	0.49	0.44	0.40
6	0.50	0.47	0.45	0.51	0.47	0.45	0.52	0.47	0.43	0.52	0.46	0.41	0.51	0.44	0.39	0.35
7	0.45	0.42	0.40	0.45	0.42	0.40	0.47	0.42	0.38	0.47	0.41	0.36	0.47	0.40	0.35	0.31
8	0.40	0.38	0.36	0.41	0.38	0.35	0.42	0.37	0.34	0.43	0.37	0.33	0.43	0.36	0.31	0.28
9	0.36	0.34	0.32	0.37	0.34	0.32	0.39	0.34	0.31	0.39	0.34	0.29	0.40	0.33	0.28	0.25
10	0.33	0.31	0.29	0.34	0.31	0.29	0.36	0.31	0.28	0.36	0.31	0.27	0.37	0.30	0.26	0.23

