



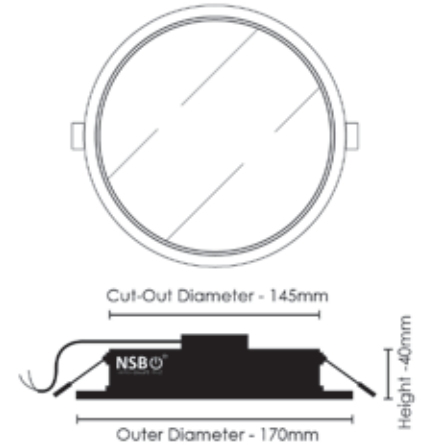
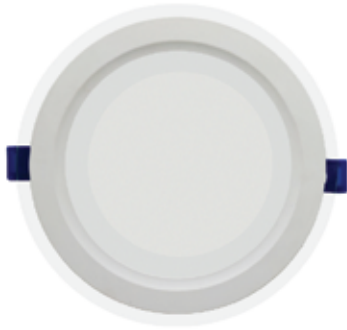
# R34 series

R34-188R

# 18w



SIRIM  
 CERTIFIED TO: IEC 40598-1: 2017  
 IEC 40598-2-2: 2011  
 CERTIFICATION NO: PC011267



## R34-188R-18W

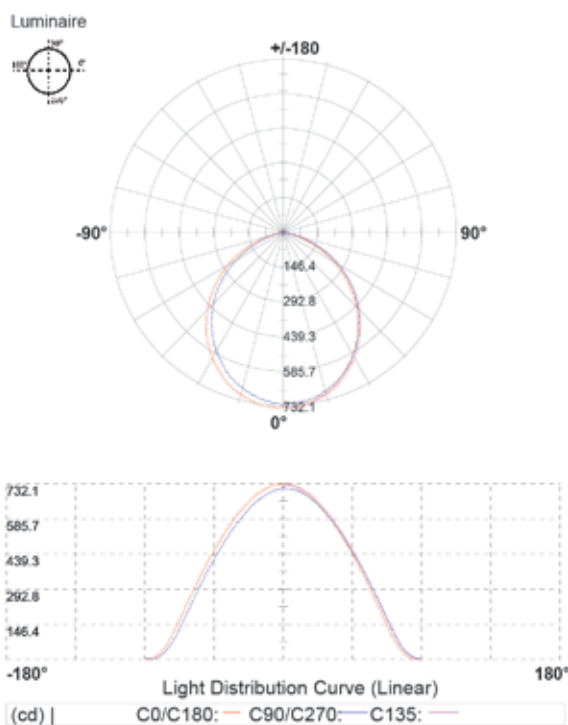
**Type** Indoor Recessed Downlight  
**Housing Color** White  
**Material** Nylon+PC+Glass

**Power Factor**  $\geq 0.95$   
**Power Efficiency** 106lm/W  
**Voltage Input** 180 - 240V 50/60Hz  
**Surge Protector** 2.5kv

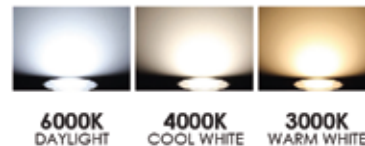
**Beam Angle** 120+- Degree  
**CRI**  $\geq 85$   
**LED Model** 2835  
**Lumen 6000K** 1771lm  
**Lumen 4000K** 1771lm  
**Lumen 3000K** 1766lm  
**Lumen 3C** 1771lm  
**Life Span** 30,000 hours

BLUE LIGHT PROTECTED	FLICKER FREE	NO ULTRAVIOLET	CRI 85	PF 0.95	ENERGY SAVING	LONG LIFE SPAN	IP20	SIRIM APPROVED	EDISON LED
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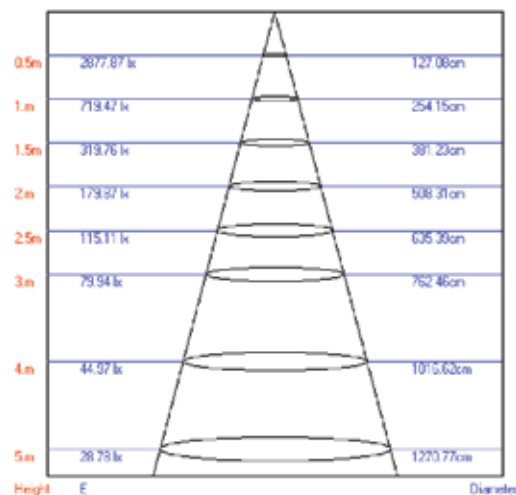
### Luminous Intensity Distribution Curve :



### Light Temperature :



### LUX Distance Diagram :



Beam Angle: 103.60°

## Luminaire Property

Luminaire:

Report NO.:R34-188R

Test NO.:

Lamp:

Sum Lumens: 1770.86 lm

Number of Lamps: 1

Diameter: 200mm

Length: mm

Photometric Type: Type C

Voltage: 220.3 V

Current: 0.083 A

Power: 16.2 W

Power Factor: 0.884

Ballast Type:

Width: 200mm

Height: mm

Remark:

## Photometric Results

Lumens: 1770.86 lm

Efficiency: 105.4083 lm/W

Central Intensity: 719.468cd

Maximum Intensity: 732.073cd

Angle of maximum intensity: C:135.0 G:2.0

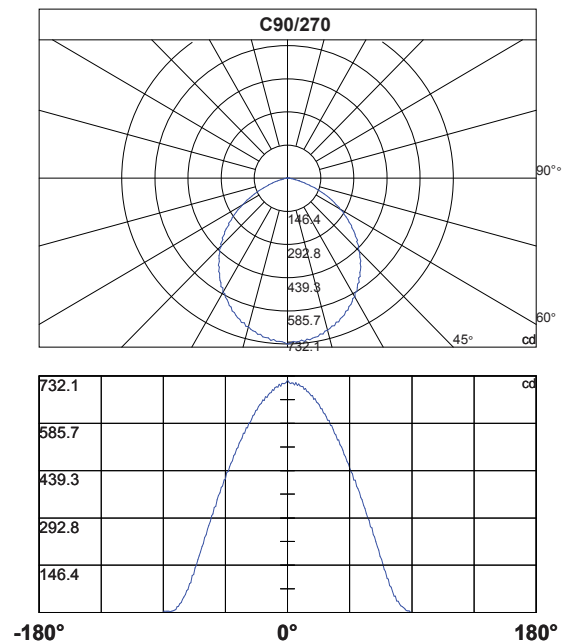
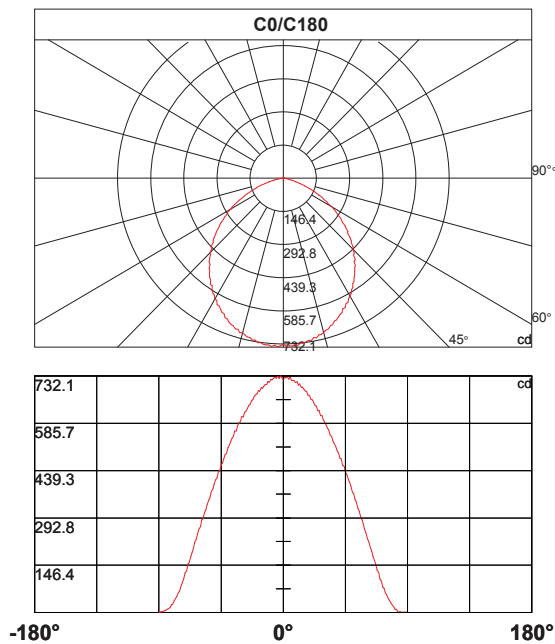
Half Peak Side Angle(50%): Left: -53.1 Right:50.5

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -75.1 Right:72.6



**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	719.5	728.9	726.7	729.6	722.3	728.0	718.9	718.9	717.0	711.3
45.0	719.5	714.0	708.5	710.4	710.4	704.7	711.3	702.5	707.4	701.6
90.0	719.5	714.0	708.5	710.4	710.4	704.7	711.3	702.5	707.4	701.6
135.0	719.5	726.6	732.1	724.5	731.2	725.0	727.1	725.3	720.1	721.7
180.0	719.5	726.6	732.1	724.5	731.2	725.0	727.1	725.3	720.1	721.7
225.0	719.5	712.6	709.1	709.1	709.6	701.1	706.3	697.5	698.1	696.6
270.0	719.5	712.6	709.1	709.1	709.6	701.1	706.3	697.5	698.1	696.6
315.0	719.5	728.9	726.7	729.6	722.3	728.0	718.9	718.9	717.0	711.3
360.0	719.5	728.9	726.7	729.6	722.3	728.0	718.9	718.9	717.0	711.3

C/G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	714.5	703.6	707.4	696.9	697.9	691.7	685.6	683.2	672.4	672.0
45.0	699.9	699.7	691.2	693.3	683.4	682.8	678.0	670.7	671.9	659.7
90.0	699.9	699.7	691.2	693.3	683.4	682.8	678.0	670.7	671.9	659.7
135.0	712.2	715.6	705.9	705.9	701.0	694.0	696.9	684.5	687.1	676.9
180.0	712.2	715.6	705.9	705.9	701.0	694.0	696.9	684.5	687.1	676.9
225.0	687.3	690.0	680.4	679.3	674.1	666.4	668.0	655.6	657.9	646.8
270.0	687.3	690.0	680.4	679.3	674.1	666.4	668.0	655.6	657.9	646.8
315.0	714.5	703.6	707.4	696.9	697.9	691.7	685.6	683.2	672.4	672.0
360.0	714.5	703.6	707.4	696.9	697.9	691.7	685.6	683.2	672.4	672.0

C/G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	660.2	657.9	649.4	641.3	638.8	624.1	625.1	609.9	609.4	595.6
45.0	662.2	651.7	648.0	642.8	631.7	630.6	618.6	614.5	606.9	595.6
90.0	662.2	651.7	648.0	642.8	631.7	630.6	618.6	614.5	606.9	595.6
135.0	673.8	668.3	658.4	656.7	643.5	641.4	632.1	622.5	620.7	605.8
180.0	673.8	668.3	658.4	656.7	643.5	641.4	632.1	622.5	620.7	605.8
225.0	643.5	637.7	627.3	625.6	612.2	609.2	598.2	590.1	585.4	572.0
270.0	643.5	637.7	627.3	625.6	612.2	609.2	598.2	590.1	585.4	572.0
315.0	660.2	657.9	649.4	641.3	638.8	624.1	625.1	609.9	609.4	595.6
360.0	660.2	657.9	649.4	641.3	638.8	624.1	625.1	609.9	609.4	595.6

C/G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	590.2	581.8	570.8	565.0	549.9	545.2	531.2	523.3	513.3	500.3
45.0	594.4	579.3	578.6	565.5	553.7	550.4	534.2	533.7	518.8	512.1
90.0	594.4	579.3	578.6	565.5	553.7	550.4	534.2	533.7	518.8	512.1
135.0	606.1	591.5	587.0	578.4	561.9	561.5	545.5	539.5	529.7	517.1
180.0	606.1	591.5	587.0	578.4	561.9	561.5	545.5	539.5	529.7	517.1
225.0	571.9	554.6	554.3	540.3	533.6	523.8	510.2	506.4	489.9	485.4
270.0	571.9	554.6	554.3	540.3	533.6	523.8	510.2	506.4	489.9	485.4
315.0	590.2	581.8	570.8	565.0	549.9	545.2	531.2	523.3	513.3	500.3
360.0	590.2	581.8	570.8	565.0	549.9	545.2	531.2	523.3	513.3	500.3

**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	494.6	477.4	475.1	455.2	453.0	434.9	428.4	413.4	403.1	391.3
45.0	502.0	488.7	482.6	467.3	460.7	448.0	435.1	429.3	410.3	409.2
90.0	502.0	488.7	482.6	467.3	460.7	448.0	435.1	429.3	410.3	409.2
135.0	510.8	493.7	488.2	475.6	462.6	456.6	437.9	435.9	416.8	410.4
180.0	510.8	493.7	488.2	475.6	462.6	456.6	437.9	435.9	416.8	410.4
225.0	469.6	461.6	451.3	437.2	433.1	413.4	410.3	391.5	387.4	370.2
270.0	469.6	461.6	451.3	437.2	433.1	413.4	410.3	391.5	387.4	370.2
315.0	494.6	477.4	475.1	455.2	453.0	434.9	428.4	413.4	403.1	391.3
360.0	494.6	477.4	475.1	455.2	453.0	434.9	428.4	413.4	403.1	391.3

C/G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	371.2	367.6	349.7	342.0	322.4	314.4	298.5	286.1	273.7	256.9
45.0	390.6	384.1	371.2	356.0	348.5	330.7	321.4	307.3	292.7	285.8
90.0	390.6	384.1	371.2	356.0	348.5	330.7	321.4	307.3	292.7	285.8
135.0	397.7	382.5	374.7	356.6	347.5	333.4	318.4	310.6	290.3	285.9
180.0	397.7	382.5	374.7	356.6	347.5	333.4	318.4	310.6	290.3	285.9
225.0	361.1	349.2	328.7	325.2	305.6	298.8	282.5	269.5	258.1	240.7
270.0	361.1	349.2	328.7	325.2	305.6	298.8	282.5	269.5	258.1	240.7
315.0	371.2	367.6	349.7	342.0	322.4	314.4	298.5	286.1	273.7	256.9
360.0	371.2	367.6	349.7	342.0	322.4	314.4	298.5	286.1	273.7	256.9

C/G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	246.7	227.2	218.6	201.3	189.8	174.2	160.0	148.8	130.8	123.6
45.0	265.2	261.5	241.2	233.6	218.8	203.4	193.2	174.3	164.8	149.2
90.0	265.2	261.5	241.2	233.6	218.8	203.4	193.2	174.3	164.8	149.2
135.0	266.0	258.0	242.7	226.6	217.0	198.5	186.7	172.9	155.8	149.8
180.0	266.0	258.0	242.7	226.6	217.0	198.5	186.7	172.9	155.8	149.8
225.0	231.5	213.3	204.0	187.5	175.4	162.8	145.7	137.7	117.5	113.2
270.0	231.5	213.3	204.0	187.5	175.4	162.8	145.7	137.7	117.5	113.2
315.0	246.7	227.2	218.6	201.3	189.8	174.2	160.0	148.8	130.8	123.6
360.0	246.7	227.2	218.6	201.3	189.8	174.2	160.0	148.8	130.8	123.6

C/G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	102.7	97.8	77.9	74.8	58.9	53.8	42.6	36.7	29.4	21.4
45.0	134.2	126.7	106.1	102.5	82.9	78.0	65.5	50.2	50.1	36.0
90.0	134.2	126.7	106.1	102.5	82.9	78.0	65.5	50.2	50.1	36.0
135.0	128.3	123.1	104.6	93.9	83.3	66.7	61.7	49.0	42.4	36.4
180.0	128.3	123.1	104.6	93.9	83.3	66.7	61.7	49.0	42.4	36.4
225.0	92.2	89.0	71.2	67.1	55.6	47.4	40.2	30.6	27.8	19.0
270.0	92.2	89.0	71.2	67.1	55.6	47.4	40.2	30.6	27.8	19.0
315.0	102.7	97.8	77.9	74.8	58.9	53.8	42.6	36.7	29.4	21.4
360.0	102.7	97.8	77.9	74.8	58.9	53.8	42.6	36.7	29.4	21.4

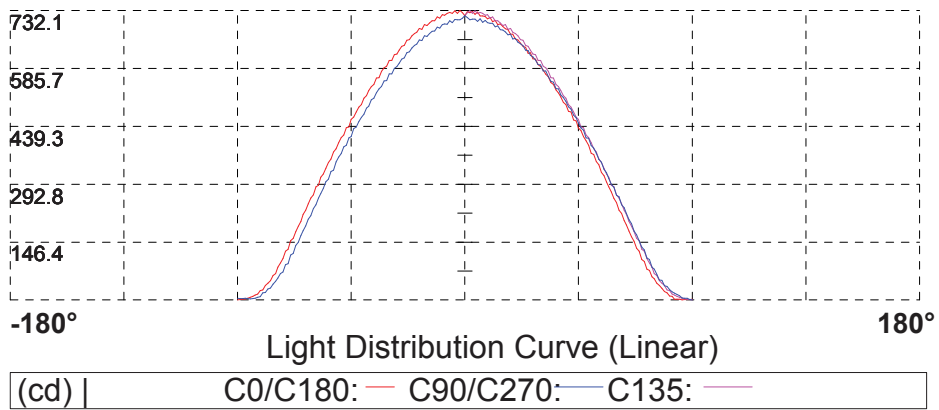
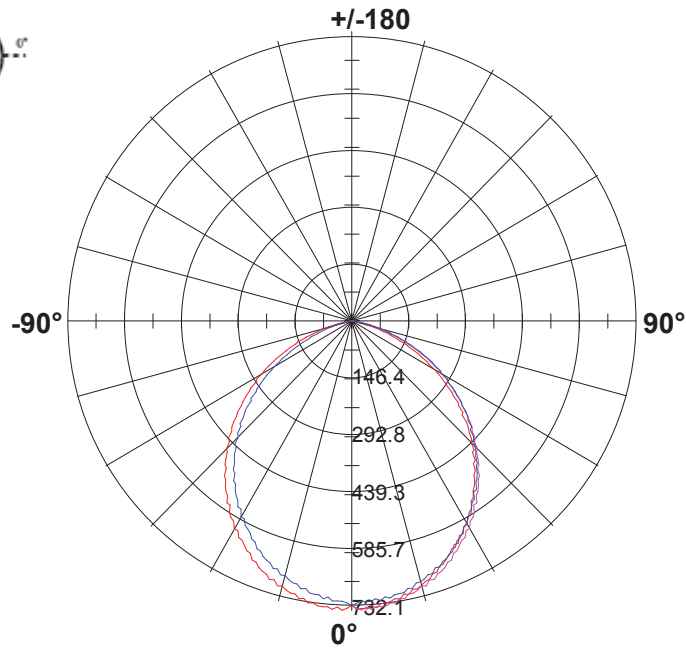
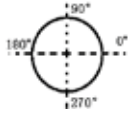
**Photometric Data Table [cd]**

<b>C/G</b>	<b>80.0</b>	<b>81.0</b>	<b>82.0</b>	<b>83.0</b>	<b>84.0</b>	<b>85.0</b>	<b>86.0</b>	<b>87.0</b>	<b>88.0</b>	<b>89.0</b>
<b>0.0</b>	17.9	10.0	9.6	2.2	2.1	2.0	0.5	1.3	1.3	1.3
<b>45.0</b>	34.7	26.8	20.9	17.7	14.2	10.7	5.5	4.5	4.5	1.0
<b>90.0</b>	34.7	26.8	20.9	17.7	14.2	10.7	5.5	4.5	4.5	1.0
<b>135.0</b>	25.2	23.9	14.9	12.2	9.6	7.2	4.9	3.1	2.2	1.4
<b>180.0</b>	25.2	23.9	14.9	12.2	9.6	7.2	4.9	3.1	2.2	1.4
<b>225.0</b>	17.9	8.6	6.7	4.7	3.9	3.1	3.6	4.1	3.9	3.8
<b>270.0</b>	17.9	8.6	6.7	4.7	3.9	3.1	3.6	4.1	3.9	3.8
<b>315.0</b>	17.9	10.0	9.6	2.2	2.1	2.0	0.5	1.3	1.3	1.3
<b>360.0</b>	17.9	10.0	9.6	2.2	2.1	2.0	0.5	1.3	1.3	1.3

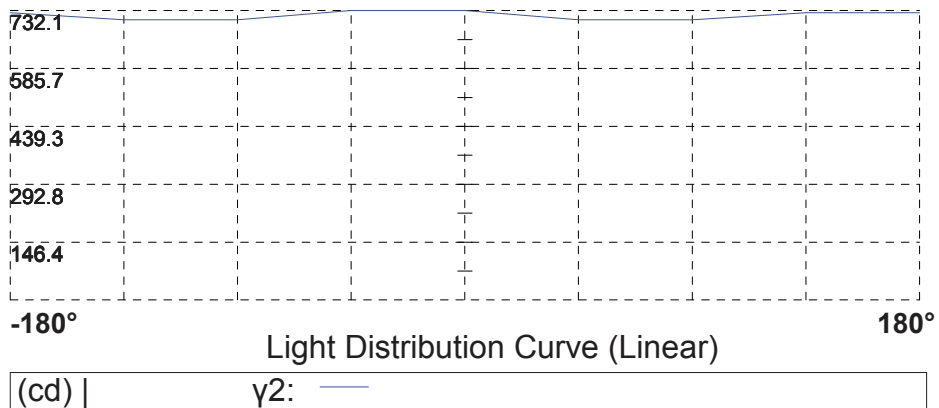
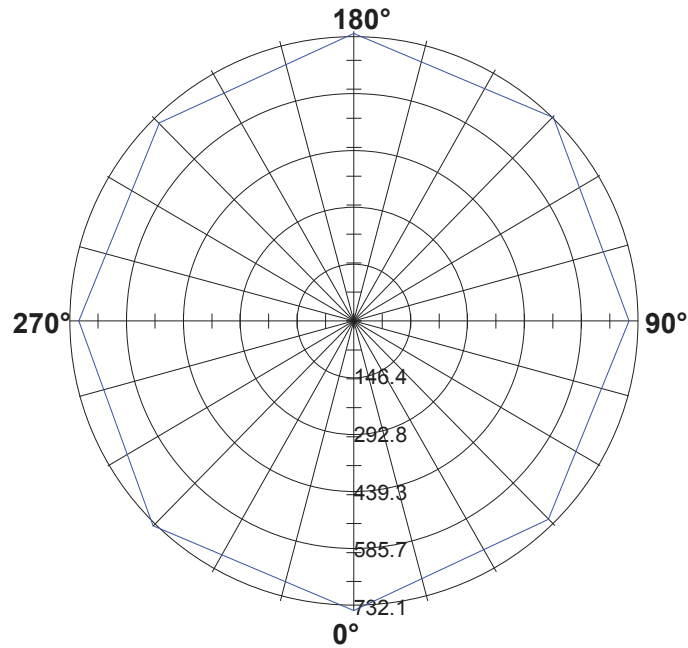
<b>C/G</b>	<b>90.0</b>
<b>0.0</b>	2.0
<b>45.0</b>	0.0
<b>90.0</b>	0.0
<b>135.0</b>	0.0
<b>180.0</b>	0.0
<b>225.0</b>	4.1
<b>270.0</b>	4.1
<b>315.0</b>	2.0
<b>360.0</b>	2.0

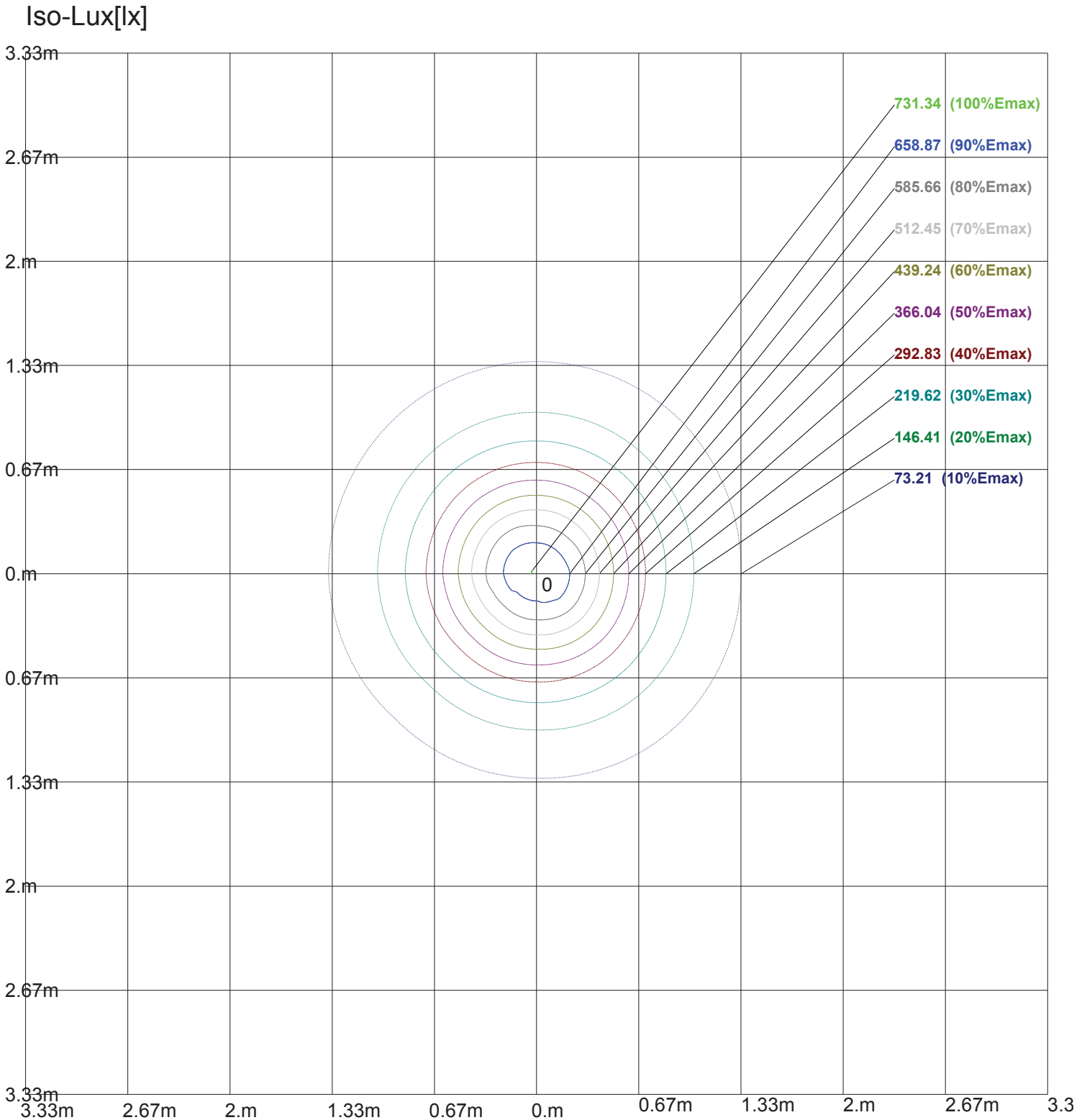
Light Distribution Curve [Unit: cd]

Luminaire



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





Height: 1 m  
Max Illuminance : 732.07lx



## Luminance Limiting Curve

Diameter: 200mm

Length: mm

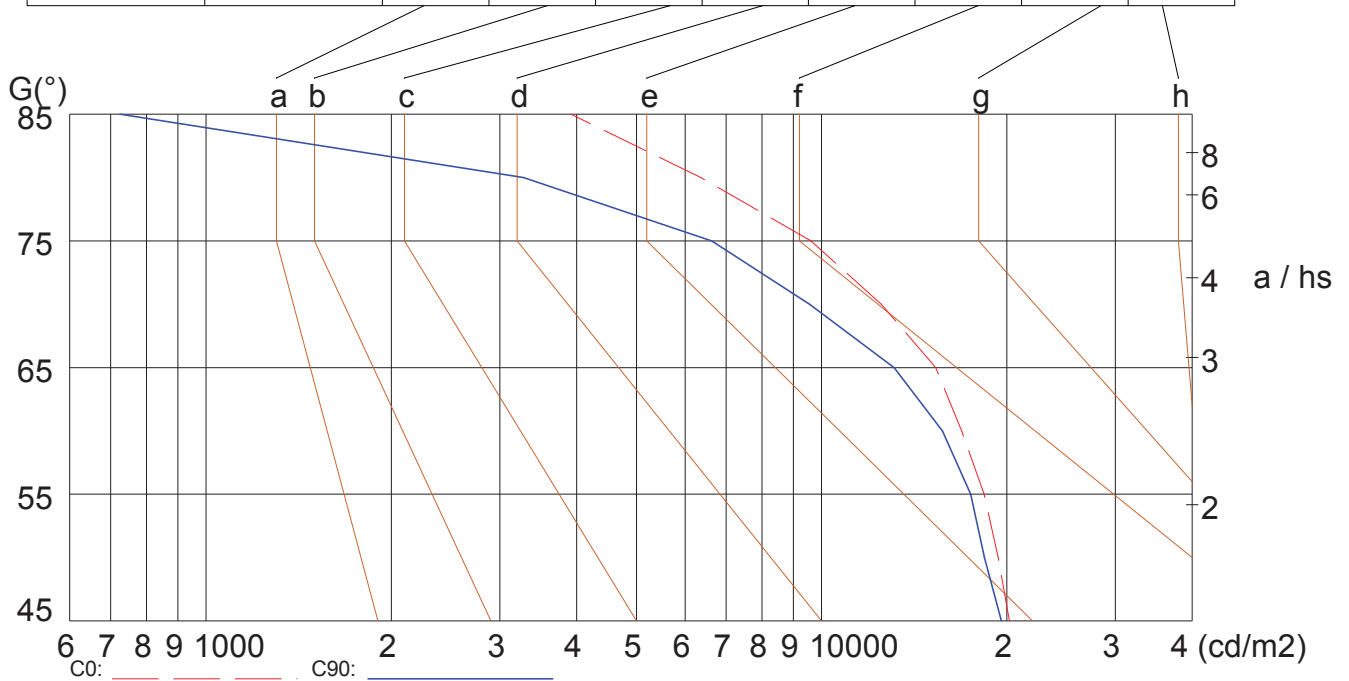
Width: 200mm

Height: mm

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

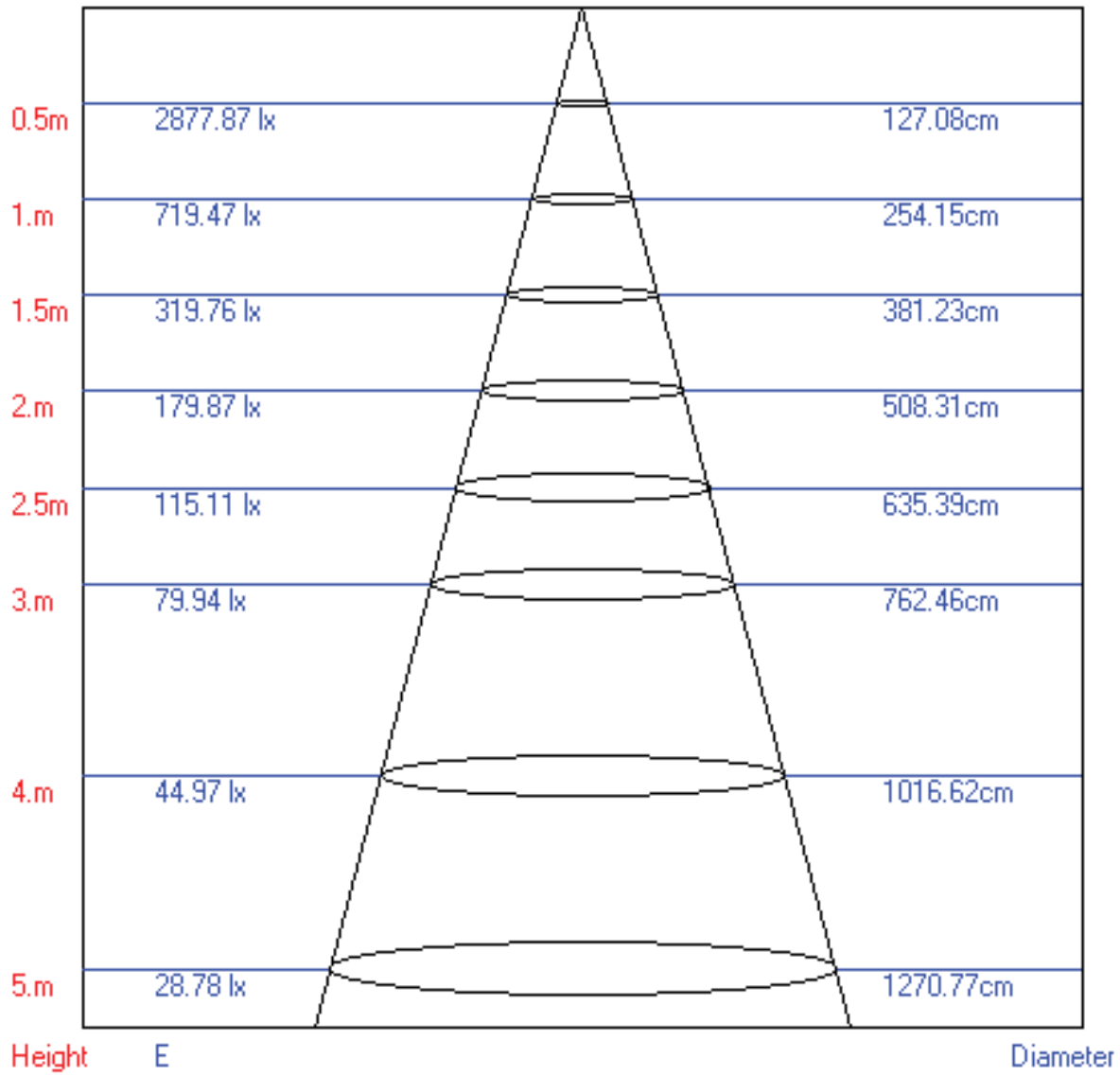
$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	20178	19350	18360	16893	15326	12500	9603	6366	3914
C90	19589	18392	17456	15714	13125	9560	6624	3278	724

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: 103.60°

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	1.07	1.05	1.04	1.06	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	0.92	0.90	0.88	0.92	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.69
3	0.80	0.77	0.76	0.80	0.76	0.74	0.78	0.74	0.71	0.76	0.71	0.67	0.72	0.67	0.63	0.59
4	0.70	0.67	0.65	0.70	0.66	0.64	0.69	0.65	0.61	0.68	0.62	0.58	0.65	0.60	0.55	0.51
5	0.61	0.59	0.57	0.62	0.58	0.56	0.62	0.57	0.53	0.61	0.55	0.51	0.59	0.53	0.48	0.44
6	0.54	0.52	0.50	0.55	0.51	0.49	0.55	0.50	0.47	0.55	0.49	0.45	0.54	0.48	0.42	0.39
7	0.49	0.46	0.44	0.49	0.46	0.44	0.50	0.45	0.42	0.50	0.44	0.40	0.49	0.43	0.38	0.35
8	0.44	0.41	0.40	0.44	0.41	0.39	0.45	0.41	0.37	0.46	0.40	0.36	0.46	0.39	0.34	0.31
9	0.40	0.37	0.36	0.40	0.37	0.35	0.42	0.37	0.34	0.42	0.36	0.32	0.42	0.36	0.31	0.28
10	0.36	0.34	0.33	0.37	0.34	0.32	0.38	0.34	0.31	0.39	0.33	0.29	0.39	0.33	0.28	0.25

