



# R34 series

# 12w

## R34-129S



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

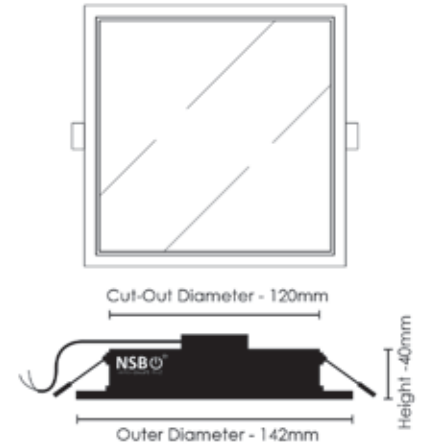


### R34-129S-12W

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

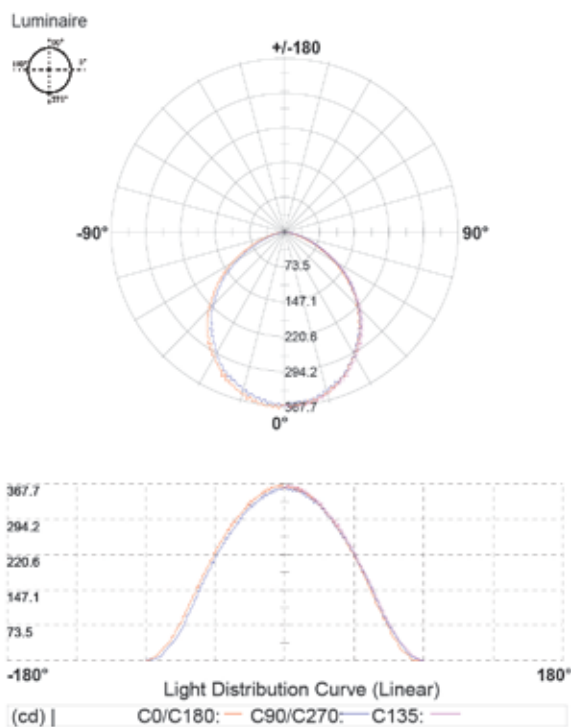
**Power Factor**  $\geq 0.95$   
**Power Efficiency** 80lm/W  
**Voltage Input** 180 - 240V 50/60Hz  
**Surge Protector** 2.5kv

**Beam Angle** 120+- Degree  
**CRI**  $\geq 85$   
**LED Model** 2835  
**Lumen 6000K** 978lm  
**Lumen 4000K** 978lm  
**Lumen 3000K** 969lm  
**Lumen 3C** 978lm  
**Life Span** 30,000 hours

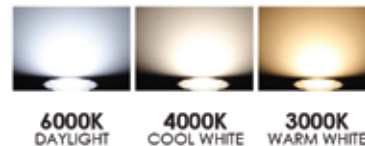


-   
 BLUE LIGHT PROTECTED
-   
 FLICKER FREE
-   
 NO ULTRAVIOLET
-   
 COLOR RENDERING INDEX
-   
 POWER FACTOR
-   
 ENERGY SAVING
-   
 LONG LIFE SPAN
-   
 IP20
-   
 SIRIM APPROVED
-   
 EDISON LED

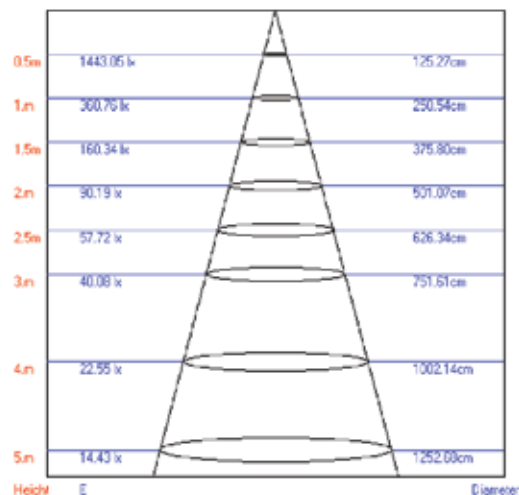
### Luminous Intensity Distribution Curve :



### Light Temperature :



### LUX Distance Diagram :



Beam Angle: 102.80°

## Luminaire Property

Luminaire:

Report NO.: R34-129S

Test NO.:

Lamp:

Sum Lumens: 880.65 lm

Number of Lamps: 1

Diameter: 200mm

Length: mm

Photometric Type: Type C

Voltage: 222.7 V

Current: 0.06 A

Power: 11.7 W

Power Factor: 0.871

Ballast Type:

Width: 200mm

Height: mm

Remark:

## Photometric Results

Lumens: 880.65 lm

Efficiency: 74.0042 lm/W

Central Intensity: 360.762cd

Maximum Intensity: 367.74cd

Beam Angle(10%): Left: -75.2 Right:73.5

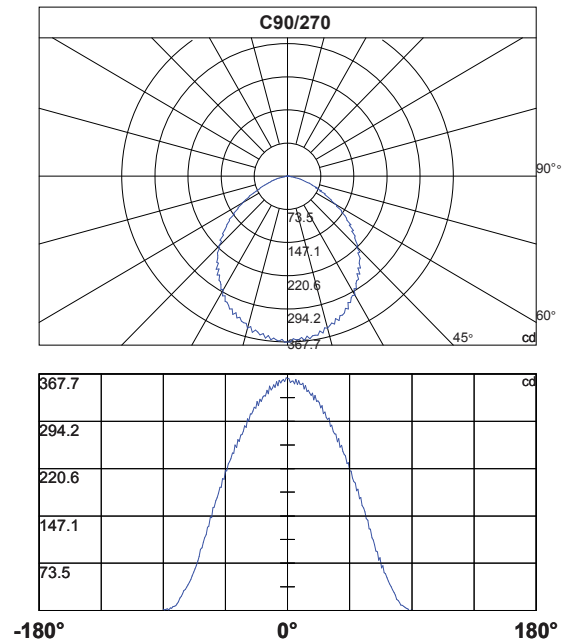
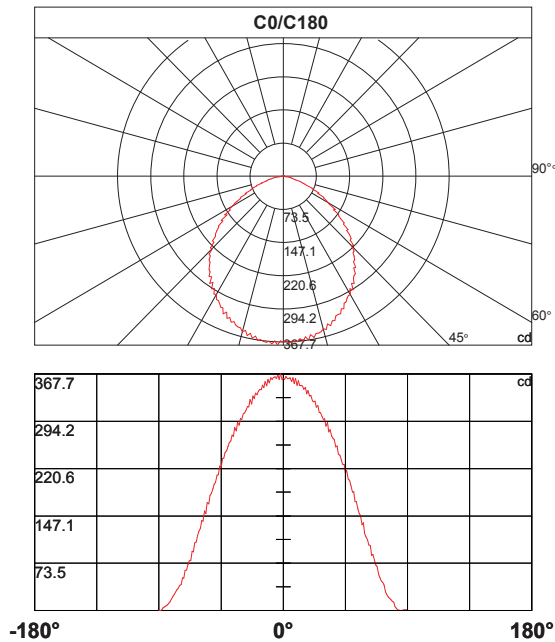
Angle of maximum intensity: C:135.0 G:2.0

Half Peak Side Angle(50%): Left: -53.1 Right:49.7

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	360.8	359.1	363.8	360.2	360.7	361.6	356.1	361.8	352.9	361.1
45.0	360.8	360.9	354.4	356.3	356.6	352.2	359.6	351.3	357.5	351.7
90.0	360.8	360.9	354.4	356.3	356.6	352.2	359.6	351.3	357.5	351.7
135.0	360.8	359.1	367.7	359.5	365.9	360.7	363.2	362.2	359.3	362.0
180.0	360.8	359.1	367.7	359.5	365.9	360.7	363.2	362.2	359.3	362.0
225.0	360.8	361.8	355.6	359.5	357.2	354.0	357.9	349.5	355.8	347.0
270.0	360.8	361.8	355.6	359.5	357.2	354.0	357.9	349.5	355.8	347.0
315.0	360.8	359.1	363.8	360.2	360.7	361.6	356.1	361.8	352.9	361.1
360.0	360.8	359.1	363.8	360.2	360.7	361.6	356.1	361.8	352.9	361.1

C/G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	349.9	357.4	350.1	350.1	348.9	343.9	347.0	336.8	341.9	333.2
45.0	351.3	353.1	344.4	350.0	340.4	342.5	338.7	334.3	338.1	327.5
90.0	351.3	353.1	344.4	350.0	340.4	342.5	338.7	334.3	338.1	327.5
135.0	353.8	359.1	349.5	356.1	346.4	350.5	343.4	343.4	341.0	335.3
180.0	353.8	359.1	349.5	356.1	346.4	350.5	343.4	343.4	341.0	335.3
225.0	351.1	345.8	342.8	348.8	337.0	342.6	333.4	334.0	331.8	325.0
270.0	351.1	345.8	342.8	348.8	337.0	342.6	333.4	334.0	331.8	325.0
315.0	349.9	357.4	350.1	350.1	348.9	343.9	347.0	336.8	341.9	333.2
360.0	349.9	357.4	350.1	350.1	348.9	343.9	347.0	336.8	341.9	333.2

C/G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	334.6	326.1	324.8	325.7	316.1	318.3	307.9	307.6	301.8	297.4
45.0	334.5	325.2	325.8	323.3	315.0	318.6	306.2	308.4	300.1	297.3
90.0	334.5	325.2	325.8	323.3	315.0	318.6	306.2	308.4	300.1	297.3
135.0	337.9	329.6	333.4	321.3	328.2	316.4	316.9	311.1	307.0	306.2
180.0	337.9	329.6	333.4	321.3	328.2	316.4	316.9	311.1	307.0	306.2
225.0	328.4	318.8	324.9	314.4	316.3	310.3	305.6	305.6	294.9	298.0
270.0	328.4	318.8	324.9	314.4	316.3	310.3	305.6	305.6	294.9	298.0
315.0	334.6	326.1	324.8	325.7	316.1	318.3	307.9	307.6	301.8	297.4
360.0	334.6	326.1	324.8	325.7	316.1	318.3	307.9	307.6	301.8	297.4

C/G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	298.0	286.6	291.9	277.9	281.1	271.5	267.9	265.7	254.2	255.8
45.0	298.9	285.9	288.3	278.1	274.8	274.3	262.4	267.1	253.9	256.9
90.0	298.9	285.9	288.3	278.1	274.8	274.3	262.4	267.1	253.9	256.9
135.0	297.3	298.8	288.2	292.1	279.1	284.6	270.8	272.9	264.0	260.8
180.0	297.3	298.8	288.2	292.1	279.1	284.6	270.8	272.9	264.0	260.8
225.0	285.0	287.3	278.7	274.0	272.6	262.9	265.7	253.1	257.2	244.3
270.0	285.0	287.3	278.7	274.0	272.6	262.9	265.7	253.1	257.2	244.3
315.0	298.0	286.6	291.9	277.9	281.1	271.5	267.9	265.7	254.2	255.8
360.0	298.0	286.6	291.9	277.9	281.1	271.5	267.9	265.7	254.2	255.8

**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	242.7	241.6	234.3	227.2	226.8	213.1	217.3	203.7	202.8	194.7
45.0	247.1	243.1	240.4	228.5	230.2	217.3	216.5	206.2	200.7	198.3
90.0	247.1	243.1	240.4	228.5	230.2	217.3	216.5	206.2	200.7	198.3
135.0	254.7	248.2	245.7	236.8	236.5	223.0	224.5	210.9	210.8	199.3
180.0	254.7	248.2	245.7	236.8	236.5	223.0	224.5	210.9	210.8	199.3
225.0	244.6	235.9	231.5	228.0	217.0	217.6	204.0	204.8	191.4	191.3
270.0	244.6	235.9	231.5	228.0	217.0	217.6	204.0	204.8	191.4	191.3
315.0	242.7	241.6	234.3	227.2	226.8	213.1	217.3	203.7	202.8	194.7
360.0	242.7	241.6	234.3	227.2	226.8	213.1	217.3	203.7	202.8	194.7

C/G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	184.3	184.8	169.3	169.3	157.7	150.7	147.6	133.5	136.1	119.5
45.0	185.9	188.4	173.5	175.8	163.2	159.2	153.2	143.1	140.2	126.6
90.0	185.9	188.4	173.5	175.8	163.2	159.2	153.2	143.1	140.2	126.6
135.0	196.4	189.4	181.3	179.3	165.8	167.6	150.7	154.8	139.0	139.7
180.0	196.4	189.4	181.3	179.3	165.8	167.6	150.7	154.8	139.0	139.7
225.0	181.8	175.2	170.8	161.0	159.8	144.3	145.1	131.1	129.2	118.2
270.0	181.8	175.2	170.8	161.0	159.8	144.3	145.1	131.1	129.2	118.2
315.0	184.3	184.8	169.3	169.3	157.7	150.7	147.6	133.5	136.1	119.5
360.0	184.3	184.8	169.3	169.3	157.7	150.7	147.6	133.5	136.1	119.5

C/G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	114.5	109.9	102.0	100.8	85.4	87.2	77.4	70.8	68.3	55.9
45.0	126.2	113.0	109.5	101.8	92.6	91.3	78.0	81.8	66.3	69.7
90.0	126.2	113.0	109.5	101.8	92.6	91.3	78.0	81.8	66.3	69.7
135.0	128.0	122.8	116.5	106.6	104.9	90.9	92.3	78.2	76.8	71.8
180.0	128.0	122.8	116.5	106.6	104.9	90.9	92.3	78.2	76.8	71.8
225.0	113.0	106.1	97.7	94.9	83.9	76.8	69.7	64.6	59.5	53.9
270.0	113.0	106.1	97.7	94.9	83.9	76.8	69.7	64.6	59.5	53.9
315.0	114.5	109.9	102.0	100.8	85.4	87.2	77.4	70.8	68.3	55.9
360.0	114.5	109.9	102.0	100.8	85.4	87.2	77.4	70.8	68.3	55.9

C/G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	50.7	45.6	43.5	39.2	29.4	25.0	20.6	18.7	16.8	14.1
45.0	58.9	57.2	50.6	45.9	41.3	36.8	32.3	28.0	23.7	17.6
90.0	58.9	57.2	50.6	45.9	41.3	36.8	32.3	28.0	23.7	17.6
135.0	63.3	62.0	50.1	50.8	40.5	39.0	34.8	31.6	28.4	24.7
180.0	63.3	62.0	50.1	50.8	40.5	39.0	34.8	31.6	28.4	24.7
225.0	48.2	44.0	39.9	36.3	32.7	31.0	25.7	22.0	19.1	13.2
270.0	48.2	44.0	39.9	36.3	32.7	31.0	25.7	22.0	19.1	13.2
315.0	50.7	45.6	43.5	39.2	29.4	25.0	20.6	18.7	16.8	14.1
360.0	50.7	45.6	43.5	39.2	29.4	25.0	20.6	18.7	16.8	14.1

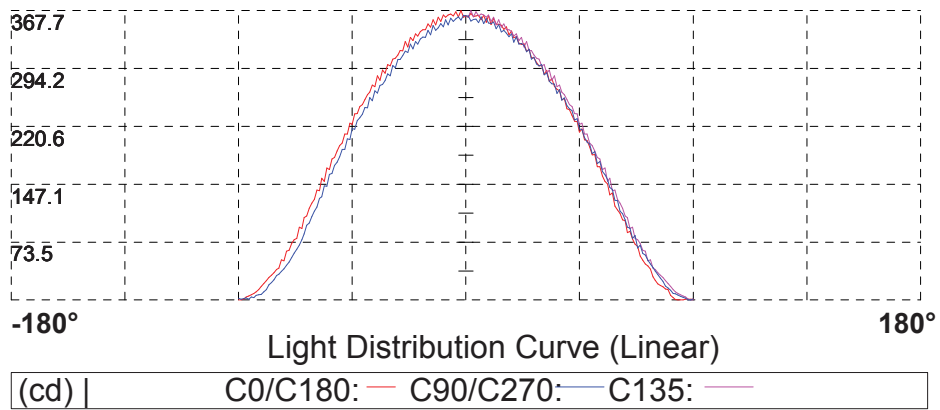
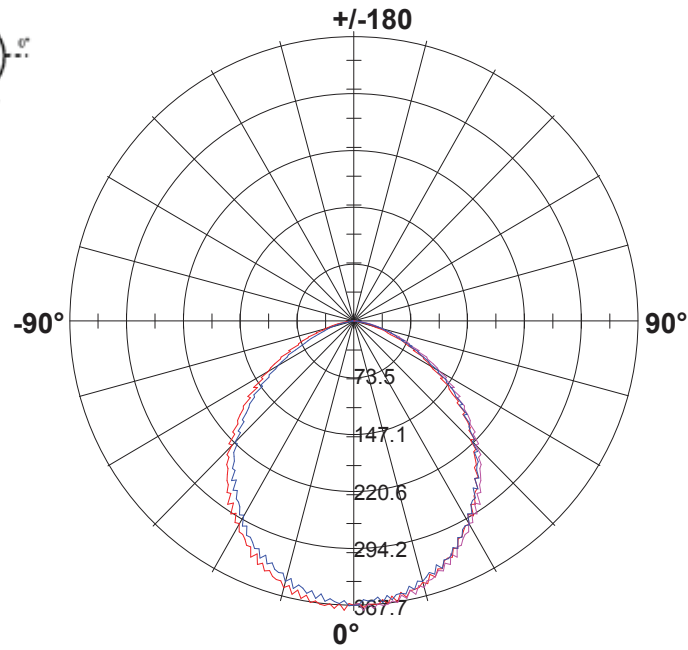
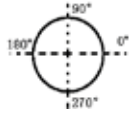
**Photometric Data Table [cd]**

<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>	13.0	6.0	3.3	0.6	0.3	0.0	0.0	1.3	1.1	1.0
<b>45.0</b>	15.5	12.6	8.3	8.0	6.4	4.7	3.5	2.4	0.0	0.0
<b>90.0</b>	15.5	12.6	8.3	8.0	6.4	4.7	3.5	2.4	0.0	0.0
<b>135.0</b>	20.9	17.2	13.5	10.4	8.6	6.7	5.3	3.9	1.3	0.0
<b>180.0</b>	20.9	17.2	13.5	10.4	8.6	6.7	5.3	3.9	1.3	0.0
<b>225.0</b>	10.2	7.2	6.6	6.0	3.3	4.0	1.3	2.5	1.8	1.2
<b>270.0</b>	10.2	7.2	6.6	6.0	3.3	4.0	1.3	2.5	1.8	1.2
<b>315.0</b>	13.0	6.0	3.3	0.6	0.3	0.0	0.0	1.3	1.1	1.0
<b>360.0</b>	13.0	6.0	3.3	0.6	0.3	0.0	0.0	1.3	1.1	1.0

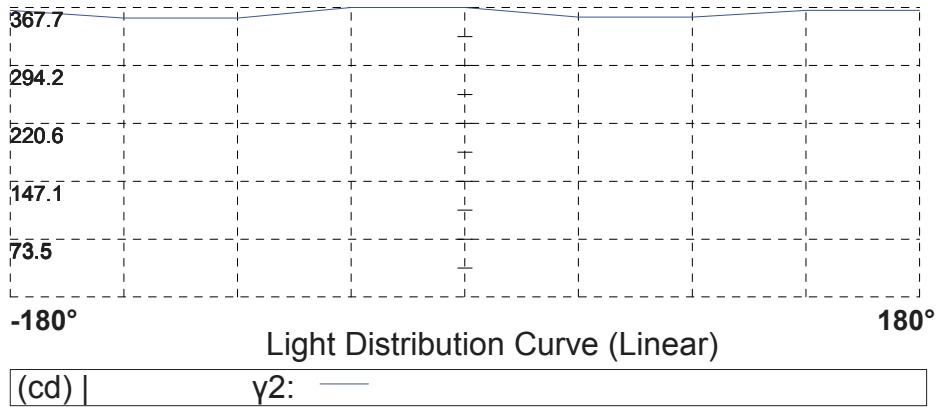
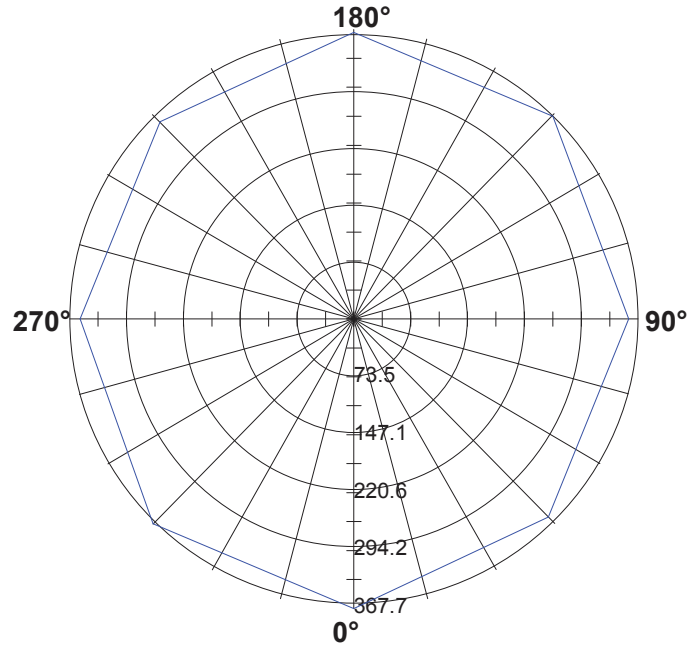
<b>C/G</b>	<b>90.0</b>
<b>0.0</b>	1.3
<b>45.0</b>	1.6
<b>90.0</b>	1.6
<b>135.0</b>	0.0
<b>180.0</b>	0.0
<b>225.0</b>	2.0
<b>270.0</b>	2.0
<b>315.0</b>	1.3
<b>360.0</b>	1.3

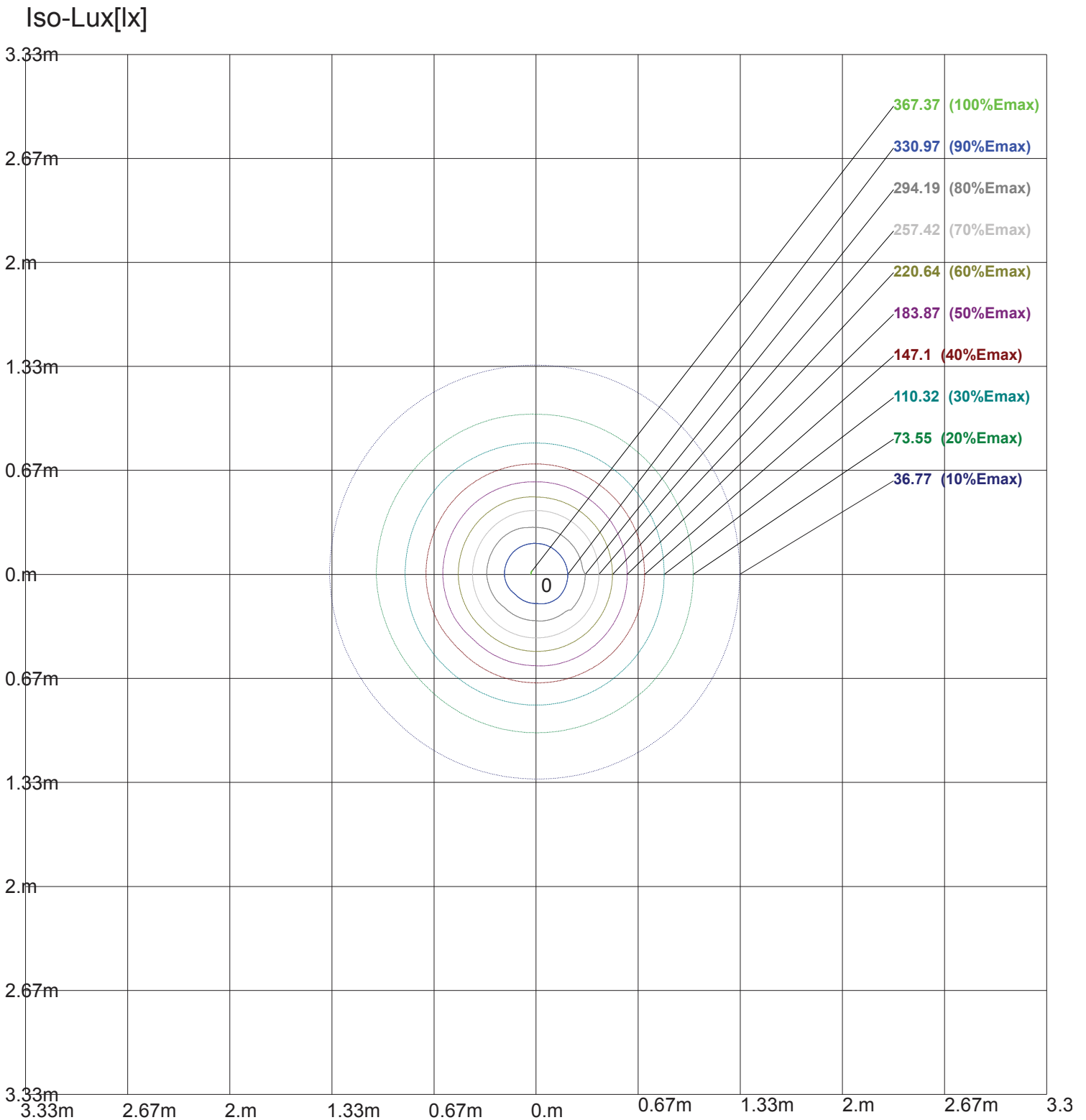
Light Distribution Curve [Unit: cd]

Luminaire



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





Height: 1 m  
Max Illuminance : 367.74lx



## Luminance Limiting Curve

Diameter: 200mm

Length: mm

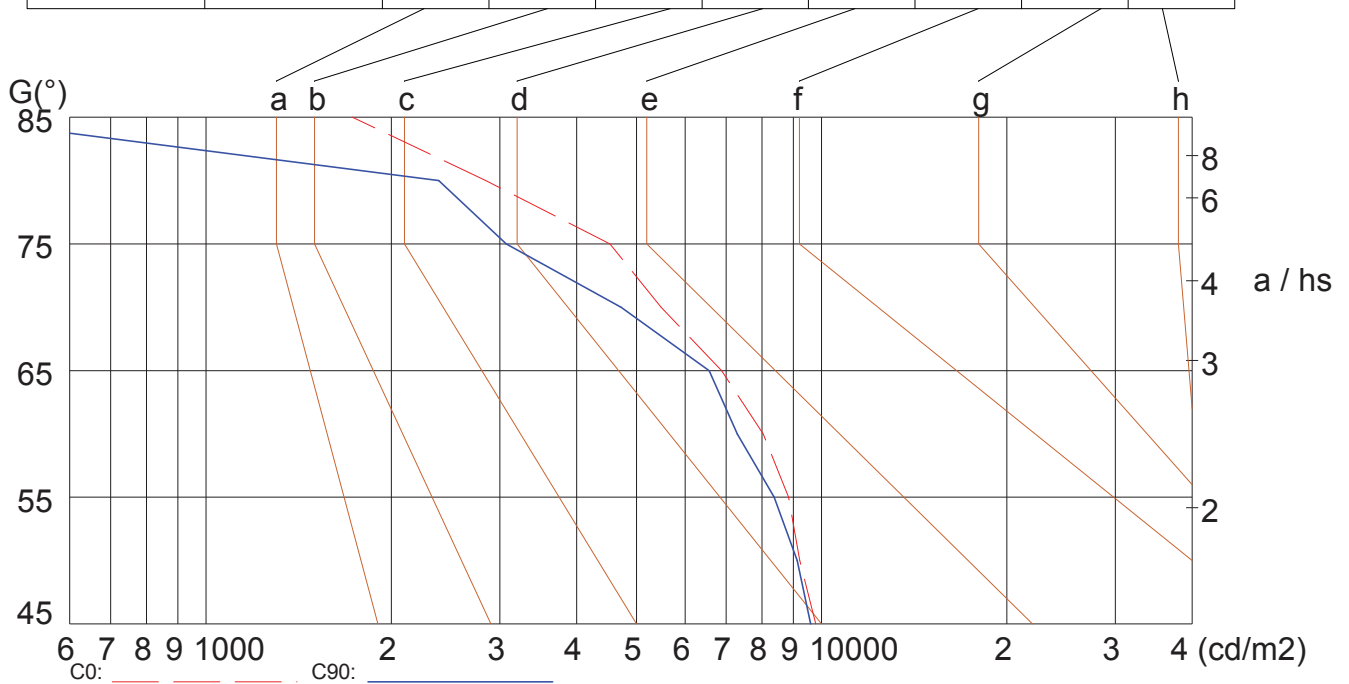
Width: 200mm

Height: mm

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

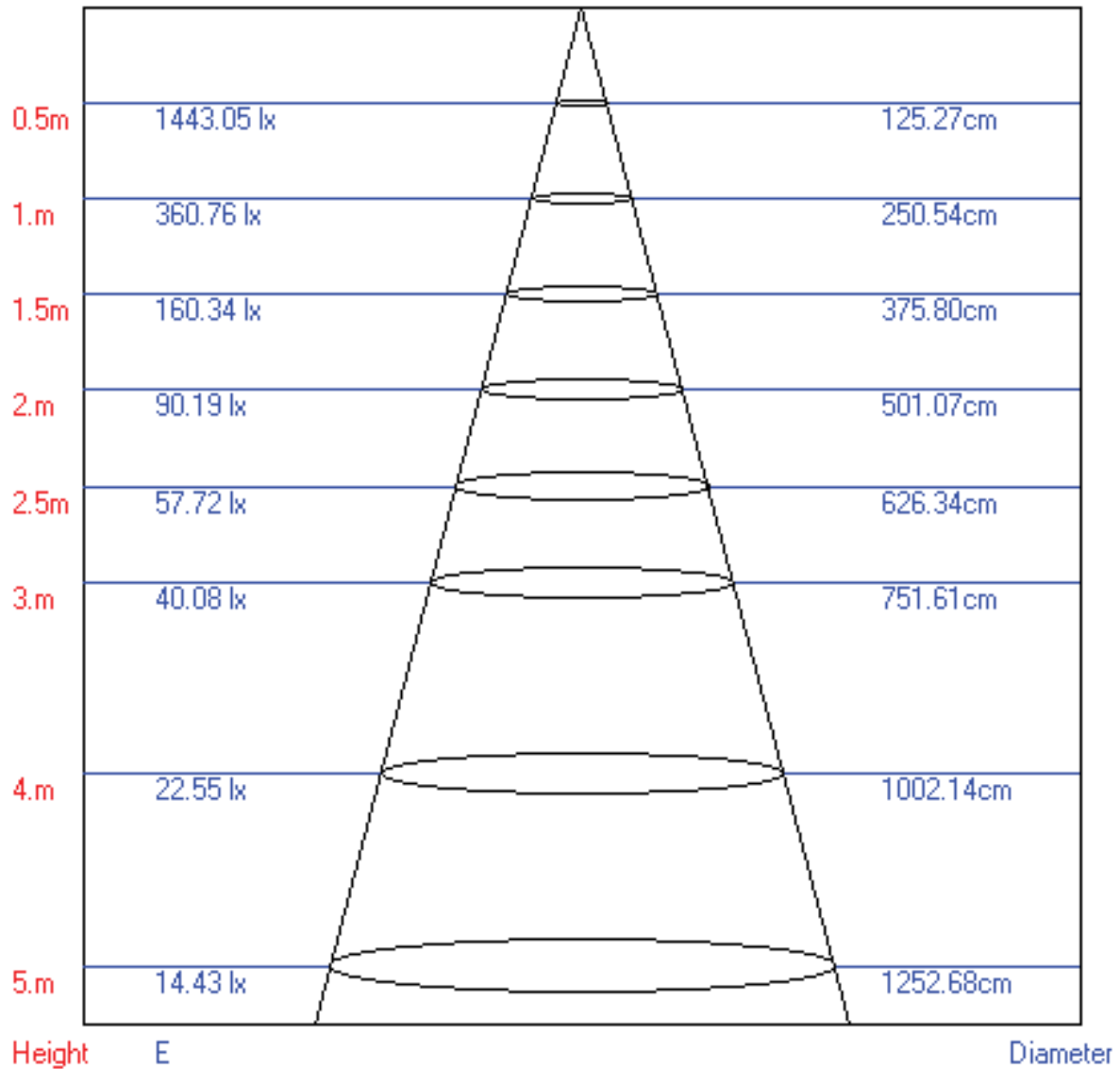
$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	9787	9212	8840	8041	6877	5486	4532	2845	
C90	9599	9132	8369	7292	6568	4725	3073	2385	

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



Lum. Limiting Curve (C0/C90)

Lux-Distance Curve



Beam Angle: 102.80°

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	0.77	0.74	0.78	0.74	0.71	0.76	0.71	0.68	0.72	0.68	0.63	0.59
4	0.70	0.67	0.65	0.70	0.67	0.64	0.69	0.65	0.61	0.68	0.63	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	0.54	0.61	0.55	0.51	0.59	0.53	0.48	0.44
6	0.55	0.52	0.50	0.55	0.52	0.49	0.55	0.51	0.47	0.55	0.49	0.45	0.54	0.48	0.43	0.39
7	0.49	0.46	0.45	0.49	0.46	0.44	0.50	0.45	0.42	0.50	0.44	0.40	0.50	0.43	0.38	0.35
8	0.44	0.42	0.40	0.45	0.41	0.39	0.46	0.41	0.38	0.46	0.40	0.36	0.46	0.39	0.34	0.31
9	0.40	0.38	0.36	0.41	0.37	0.35	0.42	0.37	0.34	0.42	0.37	0.33	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	0.34	0.30	0.39	0.33	0.28	0.26

