



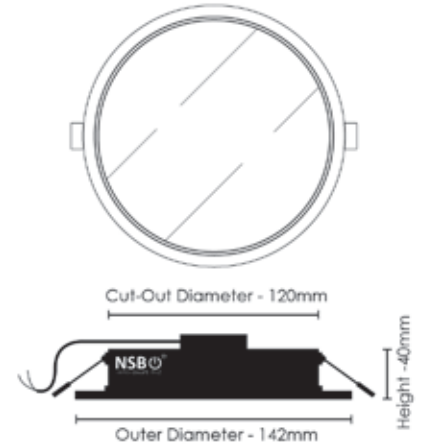
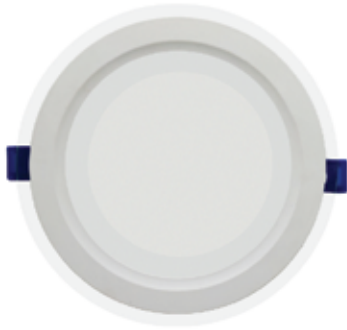
# R34 series

R34-128R

# 12w



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



## R34-128R-12W

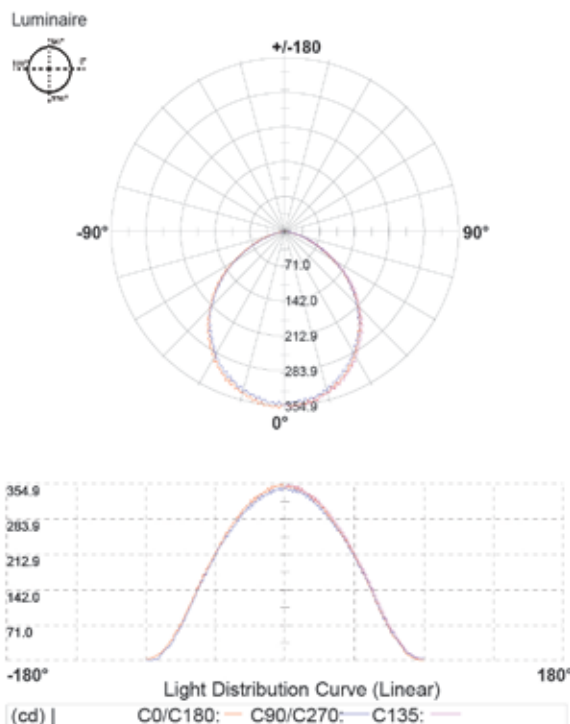
**Type** Indoor Recessed Downlight  
**Housing Color** White  
**Material** Nylon+PC+Glass

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

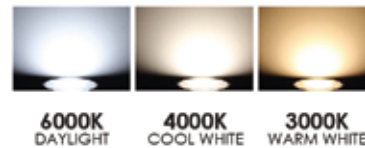
**Beam Angle** 120+- Degree  
**CRI**  $\geq 85$   
**LED Model** 2835  
**Lumen 6000K** 980lm  
**Lumen 4000K** 980lm  
**Lumen 3000K** 970lm  
**Lumen 3C** 980lm  
**Life Span** 30,000 hours

BLUE LIGHT PROTECTED	FLICKER FREE	NO ULTRAVIOLET	CRI 85	PF 0.95	ENERGY SAVING	LONG LIFE SPAN	IP20	SIRIM APPROVED	EDISON LED
----------------------	--------------	----------------	--------	---------	---------------	----------------	------	----------------	------------

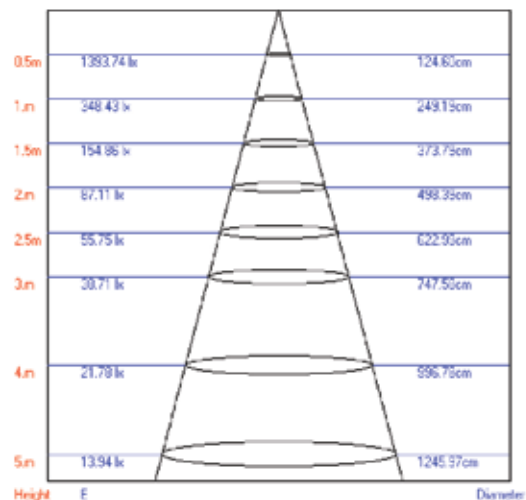
### Luminous Intensity Distribution Curve :



### Light Temperature :



### LUX Distance Diagram :



Beam Angle: 102.50°

## Luminaire Property

Luminaire:

Report NO.: R34-128R

Test NO.:

Lamp:

Sum Lumens: 849.84 lm

Number of Lamps: 1

Diameter: 200mm

Length: mm

Photometric Type: Type C

Voltage: 222.7 V

Current: 0.059 A

Power: 11.5 W

Power Factor: 0.872

Ballast Type:

Width: mm

Height: mm

Remark:

## Photometric Results

Lumens: 849.84 lm

Efficiency: 72.6359 lm/W

Central Intensity: 348.435cd

Maximum Intensity: 354.873cd

Angle of maximum intensity: C:135.0 G:2.0

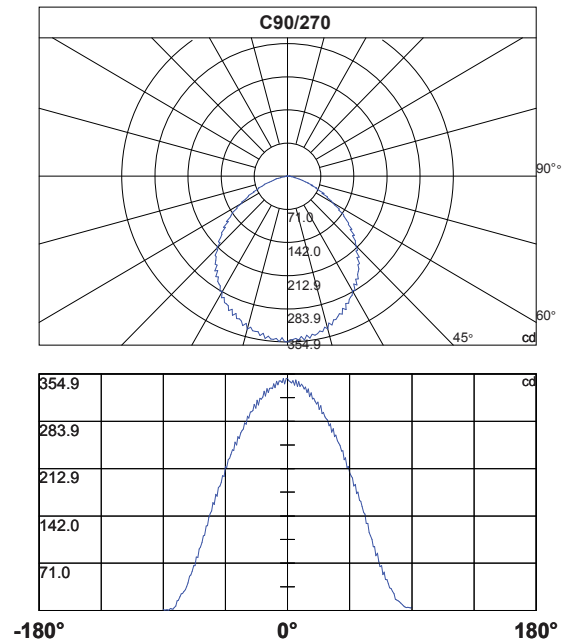
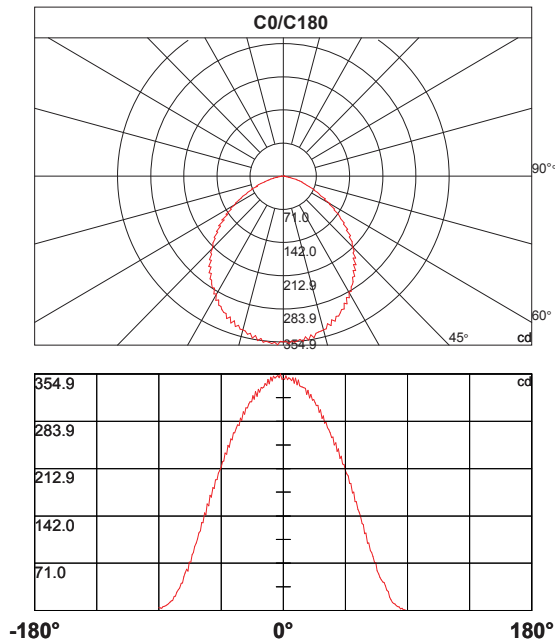
Half Peak Side Angle(50%): Left: -53.0 Right:49.5

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -76.2 Right:72.7



**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
<b>0.0</b>	348.4	346.9	352.2	346.4	349.5	347.8	345.0	349.4	341.2	348.8
<b>45.0</b>	348.4	345.1	343.1	341.7	345.0	338.1	346.1	336.5	343.7	336.0
<b>90.0</b>	348.4	345.1	343.1	341.7	345.0	338.1	346.1	336.5	343.7	336.0
<b>135.0</b>	348.4	347.2	354.9	349.2	352.5	350.5	348.9	351.4	344.4	350.1
<b>180.0</b>	348.4	347.2	354.9	349.2	352.5	350.5	348.9	351.4	344.4	350.1
<b>225.0</b>	348.4	348.0	340.0	348.3	342.0	344.2	344.2	338.4	344.0	334.3
<b>270.0</b>	348.4	348.0	340.0	348.3	342.0	344.2	344.2	338.4	344.0	334.3
<b>315.0</b>	348.4	346.9	352.2	346.4	349.5	347.8	345.0	349.4	341.2	348.8
<b>360.0</b>	348.4	346.9	352.2	346.4	349.5	347.8	345.0	349.4	341.2	348.8

C/G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
<b>0.0</b>	338.9	346.1	337.5	335.9	335.5	334.5	333.5	324.3	330.4	319.1
<b>45.0</b>	339.6	336.6	332.4	335.4	327.3	332.4	321.1	326.6	317.7	318.4
<b>90.0</b>	339.6	336.6	332.4	335.4	327.3	332.4	321.1	326.6	317.7	318.4
<b>135.0</b>	340.3	346.7	337.8	340.6	335.5	334.1	334.6	327.5	331.9	321.3
<b>180.0</b>	340.3	346.7	337.8	340.6	335.5	334.1	334.6	327.5	331.9	321.3
<b>225.0</b>	340.0	332.9	333.7	333.4	327.3	333.0	321.9	328.8	320.3	317.0
<b>270.0</b>	340.0	332.9	333.7	333.4	327.3	333.0	321.9	328.8	320.3	317.0
<b>315.0</b>	338.9	346.1	337.5	335.9	335.5	334.5	333.5	324.3	330.4	319.1
<b>360.0</b>	338.9	346.1	337.5	335.9	335.5	334.5	333.5	324.3	330.4	319.1

C/G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
<b>0.0</b>	324.4	315.8	316.5	312.0	307.3	307.9	297.4	301.2	288.4	291.9
<b>45.0</b>	314.2	309.8	312.7	301.7	307.2	295.3	297.4	290.7	287.7	285.7
<b>90.0</b>	314.2	309.8	312.7	301.7	307.2	295.3	297.4	290.7	287.7	285.7
<b>135.0</b>	328.4	316.9	322.3	313.1	313.3	309.8	304.2	304.2	294.7	298.2
<b>180.0</b>	328.4	316.9	322.3	313.1	313.3	309.8	304.2	304.2	294.7	298.2
<b>225.0</b>	318.6	308.7	315.6	303.7	309.3	300.4	298.3	297.9	288.8	291.8
<b>270.0</b>	318.6	308.7	315.6	303.7	309.3	300.4	298.3	297.9	288.8	291.8
<b>315.0</b>	324.4	315.8	316.5	312.0	307.3	307.9	297.4	301.2	288.4	291.9
<b>360.0</b>	324.4	315.8	316.5	312.0	307.3	307.9	297.4	301.2	288.4	291.9

C/G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
<b>0.0</b>	280.8	282.8	274.3	271.3	267.2	259.1	260.2	248.2	251.9	238.7
<b>45.0</b>	277.3	280.2	267.4	272.9	260.8	263.2	254.9	251.1	247.8	239.3
<b>90.0</b>	277.3	280.2	267.4	272.9	260.8	263.2	254.9	251.1	247.8	239.3
<b>135.0</b>	285.5	288.6	277.8	278.8	273.6	266.8	266.5	256.0	257.5	245.3
<b>180.0</b>	285.5	288.6	277.8	278.8	273.6	266.8	266.5	256.0	257.5	245.3
<b>225.0</b>	279.7	281.7	272.1	269.9	266.8	258.1	261.0	248.1	252.6	240.2
<b>270.0</b>	279.7	281.7	272.1	269.9	266.8	258.1	261.0	248.1	252.6	240.2
<b>315.0</b>	280.8	282.8	274.3	271.3	267.2	259.1	260.2	248.2	251.9	238.7
<b>360.0</b>	280.8	282.8	274.3	271.3	267.2	259.1	260.2	248.2	251.9	238.7

**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	228.0	231.6	220.0	218.4	209.8	205.3	201.4	190.4	190.9
45.0	239.6	226.3	229.0	215.0	216.2	206.9	201.6	198.8	186.9	189.2
90.0	239.6	226.3	229.0	215.0	216.2	206.9	201.6	198.8	186.9	189.2
135.0	248.0	234.6	236.1	224.2	223.1	215.3	209.8	205.9	196.4	195.9
180.0	248.0	234.6	236.1	224.2	223.1	215.3	209.8	205.9	196.4	195.9
225.0	240.9	234.1	228.1	226.9	214.8	215.8	201.3	202.4	192.4	186.7
270.0	240.9	234.1	228.1	226.9	214.8	215.8	201.3	202.4	192.4	186.7
315.0	242.7	228.0	231.6	220.0	218.4	209.8	205.3	201.4	190.4	190.9
360.0	242.7	228.0	231.6	220.0	218.4	209.8	205.3	201.4	190.4	190.9

C/G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	176.3	177.6	163.3	163.3	152.0	147.7	141.8	130.5	128.7	115.1
45.0	175.1	177.6	165.2	163.6	156.1	147.0	144.7	130.6	130.8	117.3
90.0	175.1	177.6	165.2	163.6	156.1	147.0	144.7	130.6	130.8	117.3
135.0	183.1	184.5	170.1	172.7	156.8	160.0	143.7	146.5	131.5	132.1
180.0	183.1	184.5	170.1	172.7	156.8	160.0	143.7	146.5	131.5	132.1
225.0	184.5	171.3	174.4	158.9	162.1	149.2	146.1	139.5	127.5	126.7
270.0	184.5	171.3	174.4	158.9	162.1	149.2	146.1	139.5	127.5	126.7
315.0	176.3	177.6	163.3	163.3	152.0	147.7	141.8	130.5	128.7	115.1
360.0	176.3	177.6	163.3	163.3	152.0	147.7	141.8	130.5	128.7	115.1

C/G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	116.0	101.0	101.4	89.8	86.8	81.0	71.8	71.6	59.7	54.6
45.0	112.4	106.6	95.6	96.3	81.9	85.8	73.9	65.7	66.9	54.0
90.0	112.4	106.6	95.6	96.3	81.9	85.8	73.9	65.7	66.9	54.0
135.0	119.5	116.2	107.5	101.4	96.1	86.8	83.7	72.7	72.5	59.1
180.0	119.5	116.2	107.5	101.4	96.1	86.8	83.7	72.7	72.5	59.1
225.0	112.6	112.1	102.2	95.0	92.3	79.6	79.9	67.3	67.1	58.7
270.0	112.6	112.1	102.2	95.0	92.3	79.6	79.9	67.3	67.1	58.7
315.0	116.0	101.0	101.4	89.8	86.8	81.0	71.8	71.6	59.7	54.6
360.0	116.0	101.0	101.4	89.8	86.8	81.0	71.8	71.6	59.7	54.6

C/G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	49.6	46.2	42.8	41.8	36.9	30.7	28.4	20.1	16.2	12.2
45.0	57.3	46.3	46.2	40.3	33.9	32.8	29.0	25.1	17.0	16.0
90.0	57.3	46.3	46.2	40.3	33.9	32.8	29.0	25.1	17.0	16.0
135.0	62.0	56.2	50.4	41.5	40.7	33.7	31.4	27.2	21.7	21.1
180.0	62.0	56.2	50.4	41.5	40.7	33.7	31.4	27.2	21.7	21.1
225.0	53.4	51.3	41.1	36.1	31.1	28.3	25.5	24.8	20.6	15.2
270.0	53.4	51.3	41.1	36.1	31.1	28.3	25.5	24.8	20.6	15.2
315.0	49.6	46.2	42.8	41.8	36.9	30.7	28.4	20.1	16.2	12.2
360.0	49.6	46.2	42.8	41.8	36.9	30.7	28.4	20.1	16.2	12.2

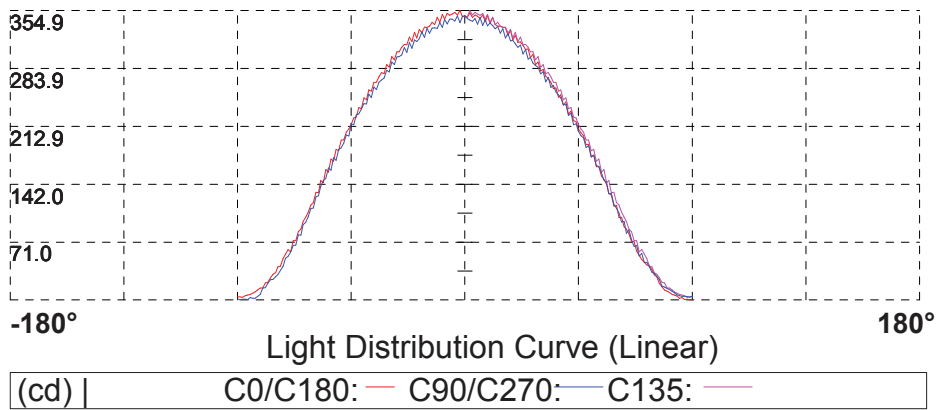
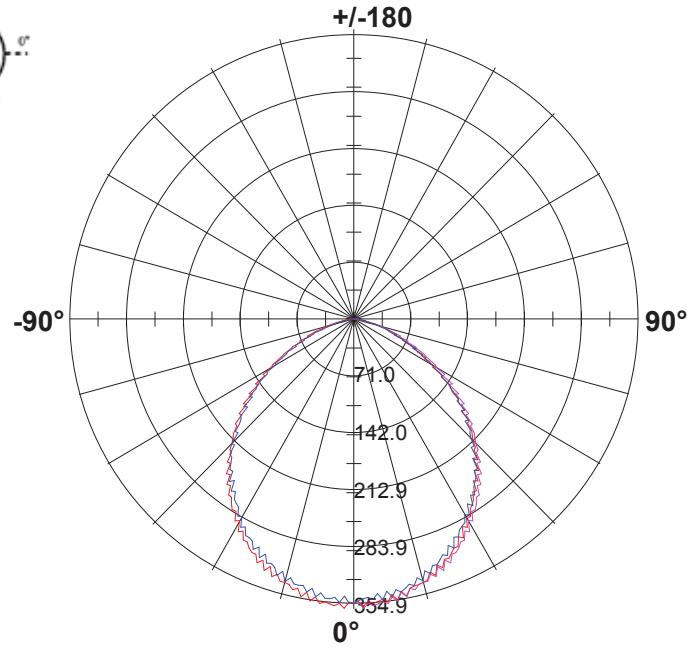
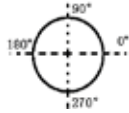
**Photometric Data Table [cd]**

C/G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.8	9.4	6.9	6.0	5.1	2.3	3.1	0.7	1.2	0.0
45.0	14.5	12.7	10.9	8.7	6.5	5.4	4.4	4.5	4.1	3.8
90.0	14.5	12.7	10.9	8.7	6.5	5.4	4.4	4.5	4.1	3.8
135.0	14.7	14.6	12.3	10.0	8.6	7.1	6.3	5.5	3.3	3.7
180.0	14.7	14.6	12.3	10.0	8.6	7.1	6.3	5.5	3.3	3.7
225.0	14.6	6.7	4.4	2.0	2.4	2.7	0.6	0.8	1.0	0.3
270.0	14.6	6.7	4.4	2.0	2.4	2.7	0.6	0.8	1.0	0.3
315.0	10.8	9.4	6.9	6.0	5.1	2.3	3.1	0.7	1.2	0.0
360.0	10.8	9.4	6.9	6.0	5.1	2.3	3.1	0.7	1.2	0.0

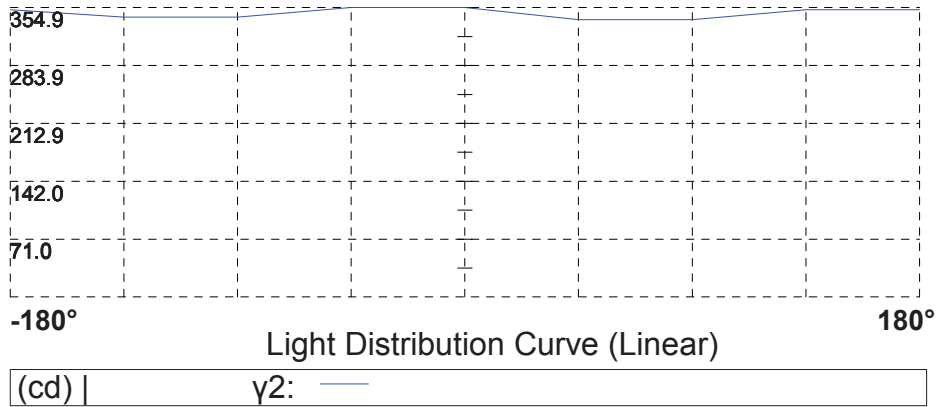
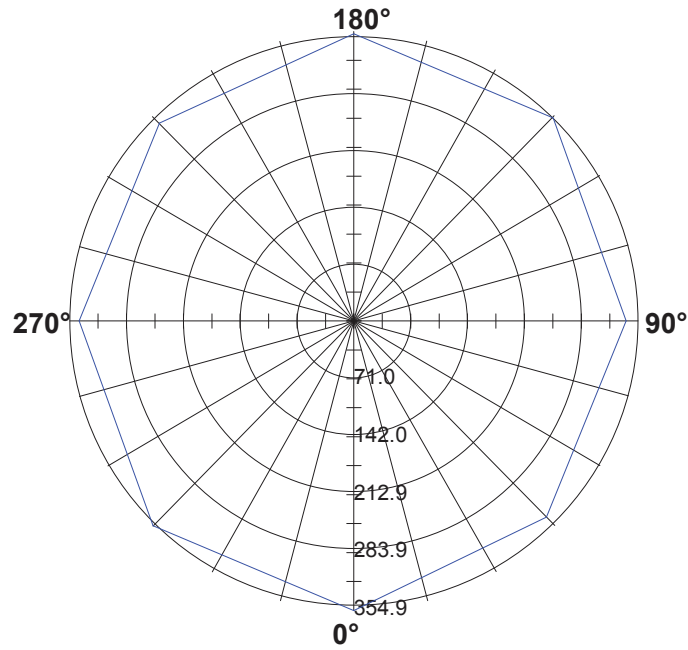
C/G	90.0
0.0	0.0
45.0	4.5
90.0	4.5
135.0	4.1
180.0	4.1
225.0	1.4
270.0	1.4
315.0	0.0
360.0	0.0

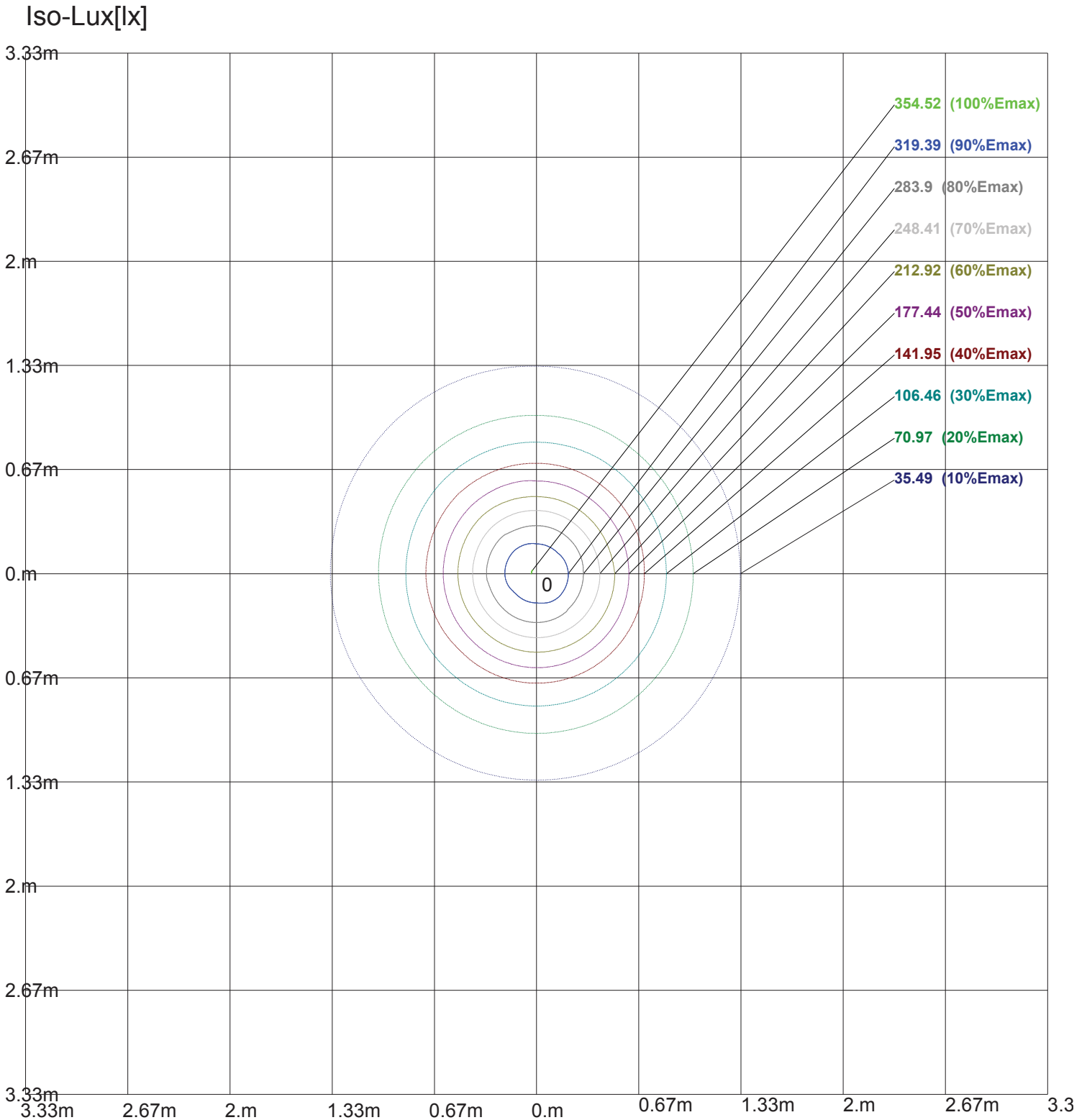
Light Distribution Curve [Unit: cd]

Luminaire



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





Height: 1 m  
Max Illuminance : 354.87lx



## Luminance Limiting Curve

Diameter: 200mm

Length: mm

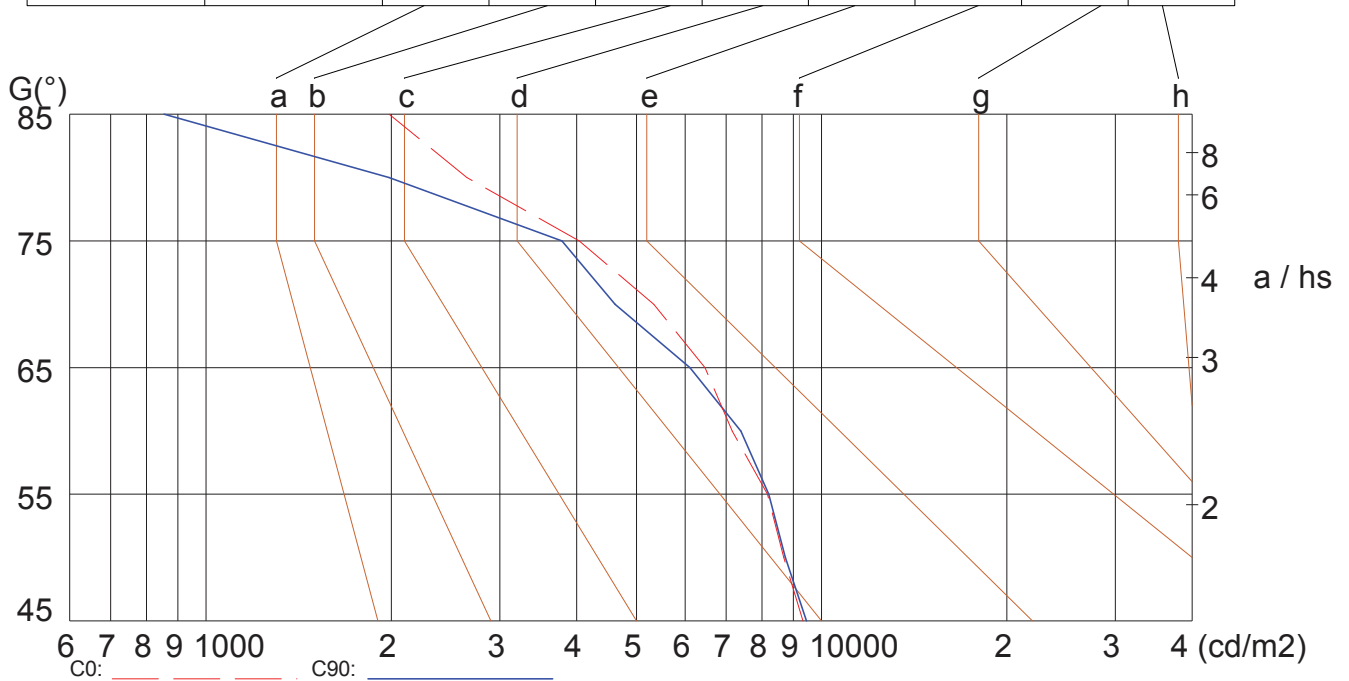
Width: mm

Height: mm

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

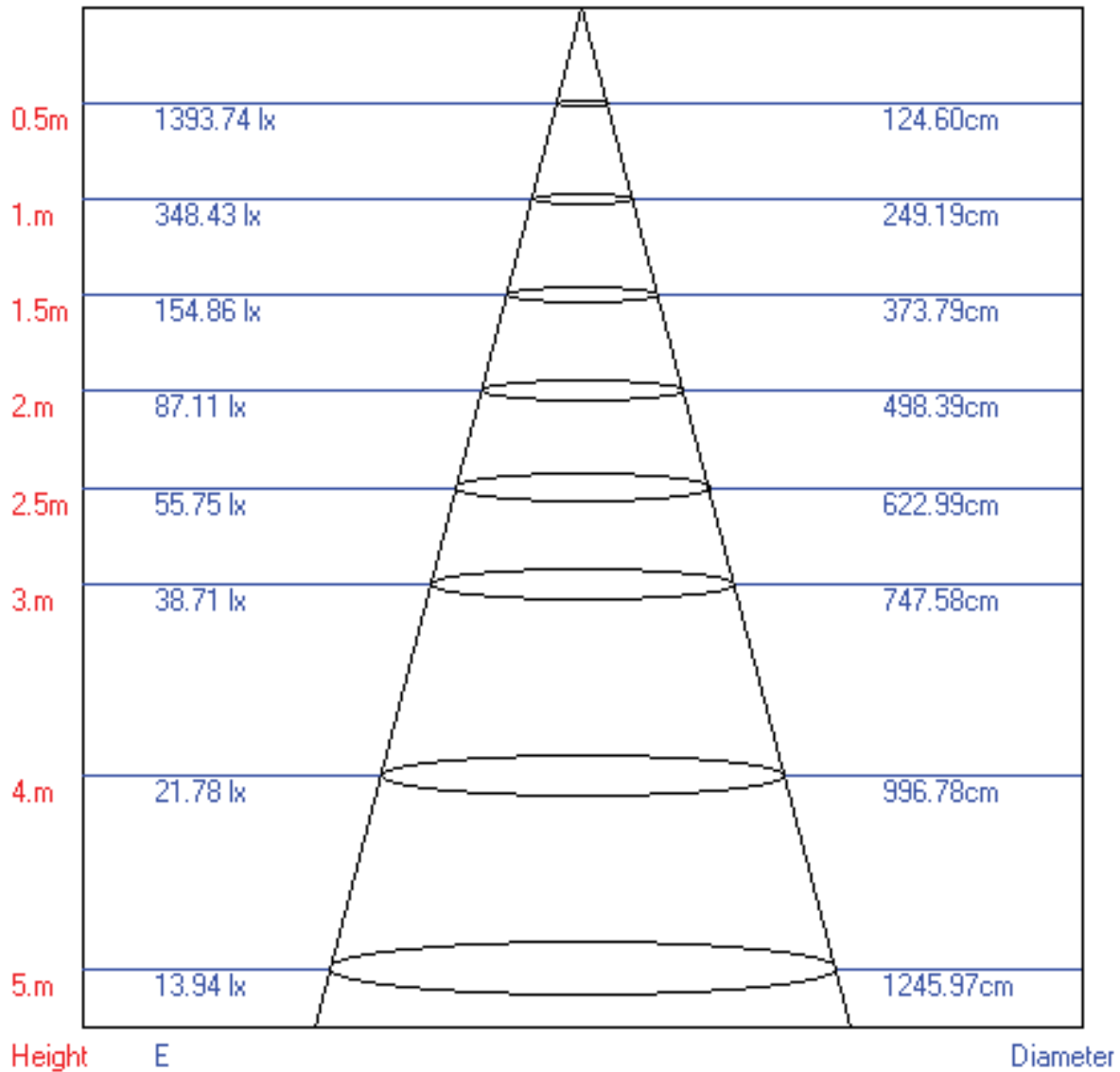
$\gamma$	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	9320	8674	8160	7159	6463	5337	4040	2653	1982
C90	9448	8736	8203	7390	6106	4618	3783	1984	855

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: 102.50°

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 RHOF=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	1.05	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	0.67	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	0.63	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

