



R36 series

R36-188R

18w



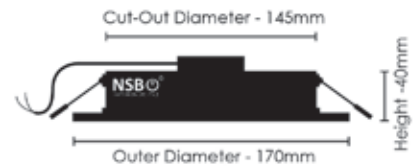
SIRIM
 CERTIFIED TO: IEC 60598-1: 2017
 IEC 60598-2-2: 2011
 CERTIFICATION NO: PC011267

R36-188R-18W

Type Indoor Recessed Downlight
Housing Color White
Material Nylon+PC

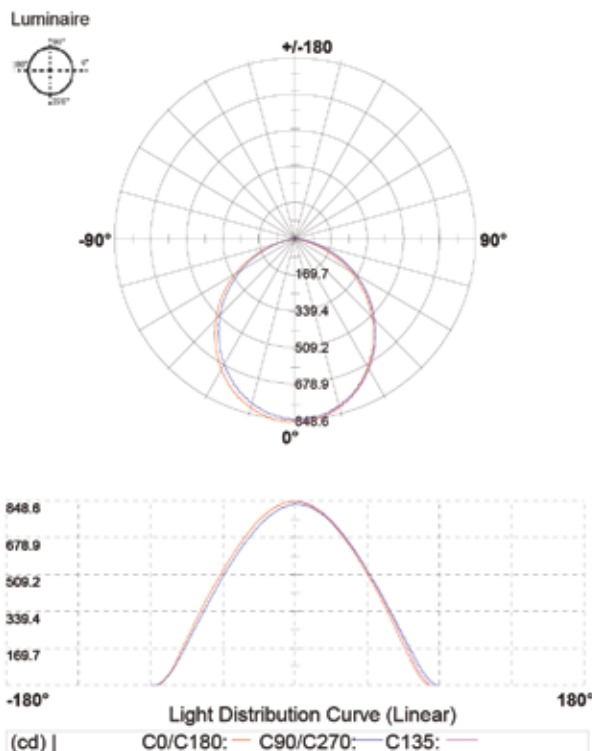
Power Factor ≥ 0.95
Power Efficiency 126lm/W
Voltage Input 180 - 240V 50/60Hz
Surge Protector 2.5kv

Beam Angle 120+- Degree
CRI ≥ 85
LED Model 2835
Lumen 6000K 2122lm
Lumen 4000K 2122lm
Lumen 3000K 2051lm
Lumen 3C 2122lm
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

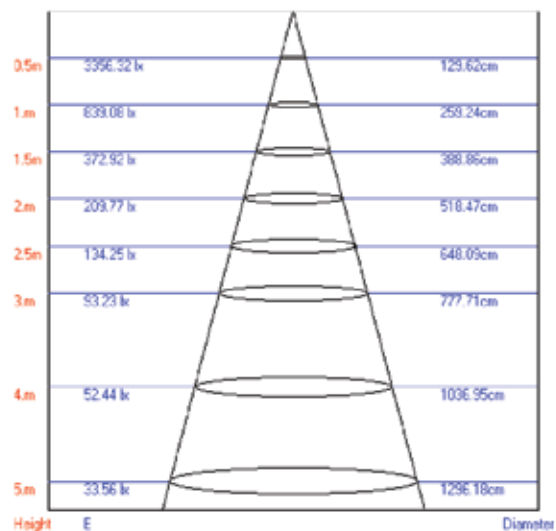
Luminous Intensity Distribution Curve :



Light Temperature :



LUX Distance Diagram :



Luminaire Property

Luminaire:

Report NO.:

Test NO.:

Lamp:

Sum Lumens: 2121.48 lm

Number of Lamps: 1

Diameter: 200mm

Length: mm

Photometric Type: Type C

Voltage: 220.8 V

Current: 0.084 A

Power: 16.3 W

Power Factor: 0.880

Ballast Type:

Width: mm

Height: mm

Remark:

Photometric Results

Lumens: 2121.48 lm

Efficiency: 125.5314 lm/W

Central Intensity: 839.08cd

Maximum Intensity: 848.578cd

Angle of maximum intensity: C:135.0 G:2.0

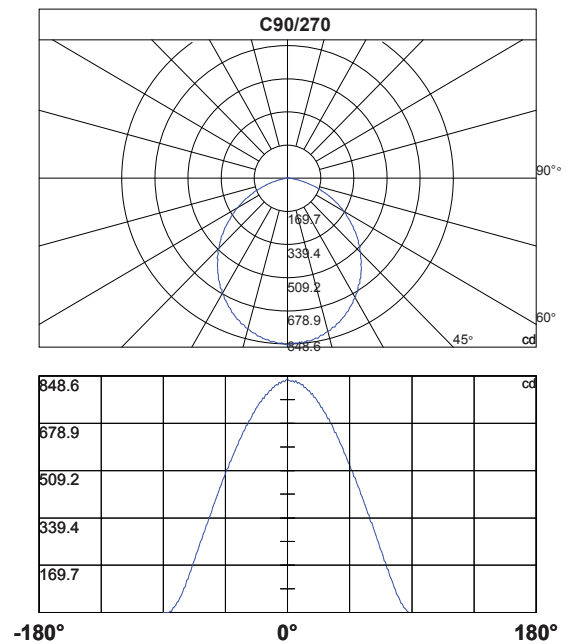
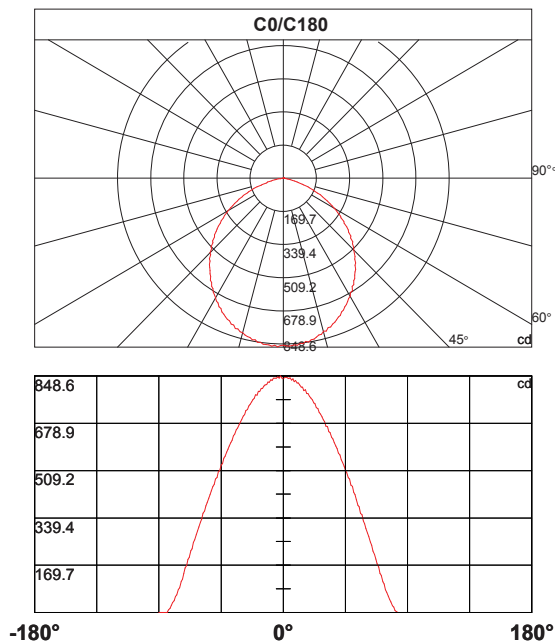
Half Peak Side Angle(50%): Left: -53.8 Right:50.9

Light Out Rate(LOR) : 100.00%

Up Flux Rate: 0.0%

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -75.8 Right:73.6



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	839.1	842.6	844.3	842.3	840.1	841.8	834.0	838.5	828.3	832.6
45.0	839.1	832.9	830.4	829.9	831.7	825.5	831.3	822.8	825.8	821.6
90.0	839.1	832.9	830.4	829.9	831.7	825.5	831.3	822.8	825.8	821.6
135.0	839.1	841.2	848.6	841.2	845.7	841.5	840.4	840.2	833.0	834.7
180.0	839.1	841.2	848.6	841.2	845.7	841.5	840.4	840.2	833.0	834.7
225.0	839.1	834.9	827.9	830.7	828.8	822.2	825.5	817.1	818.1	814.0
270.0	839.1	834.9	827.9	830.7	828.8	822.2	825.5	817.1	818.1	814.0
315.0	839.1	842.6	844.3	842.3	840.1	841.8	834.0	838.5	828.3	832.6
360.0	839.1	842.6	844.3	842.3	840.1	841.8	834.0	838.5	828.3	832.6

C/G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	823.6	823.5	816.5	808.7	808.5	796.3	799.4	785.8	786.0	774.9
45.0	816.7	818.0	807.4	807.9	800.4	795.8	794.5	783.8	785.1	773.5
90.0	816.7	818.0	807.4	807.9	800.4	795.8	794.5	783.8	785.1	773.5
135.0	825.3	827.5	818.4	817.0	811.5	804.6	803.5	792.4	793.4	780.1
180.0	825.3	827.5	818.4	817.0	811.5	804.6	803.5	792.4	793.4	780.1
225.0	807.3	807.3	796.9	796.8	789.5	782.6	781.2	768.8	769.3	757.0
270.0	807.3	807.3	796.9	796.8	789.5	782.6	781.2	768.8	769.3	757.0
315.0	823.6	823.5	816.5	808.7	808.5	796.3	799.4	785.8	786.0	774.9
360.0	823.6	823.5	816.5	808.7	808.5	796.3	799.4	785.8	786.0	774.9

C/G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	770.1	762.8	752.9	748.8	735.5	731.6	718.1	712.6	701.6	691.1
45.0	771.8	763.4	755.3	751.5	738.1	735.5	724.2	716.4	710.1	696.3
90.0	771.8	763.4	755.3	751.5	738.1	735.5	724.2	716.4	710.1	696.3
135.0	780.4	768.0	764.3	755.9	747.2	741.3	728.3	724.4	709.9	705.2
180.0	780.4	768.0	764.3	755.9	747.2	741.3	728.3	724.4	709.9	705.2
225.0	754.2	745.6	736.8	732.2	718.6	714.1	701.9	692.8	687.3	672.7
270.0	754.2	745.6	736.8	732.2	718.6	714.1	701.9	692.8	687.3	672.7
315.0	770.1	762.8	752.9	748.8	735.5	731.6	718.1	712.6	701.6	691.1
360.0	770.1	762.8	752.9	748.8	735.5	731.6	718.1	712.6	701.6	691.1

C/G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	685.0	669.3	666.9	648.5	646.0	629.1	623.1	609.7	597.6	588.4
45.0	695.5	679.1	675.5	662.0	647.1	645.7	629.5	623.2	609.2	598.2
90.0	695.5	679.1	675.5	662.0	647.1	645.7	629.5	623.2	609.2	598.2
135.0	692.6	683.7	674.8	661.3	655.6	639.7	633.9	618.2	610.1	597.2
180.0	692.6	683.7	674.8	661.3	655.6	639.7	633.9	618.2	610.1	597.2
225.0	671.6	653.4	649.8	636.9	625.7	617.7	601.6	594.8	580.7	569.7
270.0	671.6	653.4	649.8	636.9	625.7	617.7	601.6	594.8	580.7	569.7
315.0	685.0	669.3	666.9	648.5	646.0	629.1	623.1	609.7	597.6	588.4
360.0	685.0	669.3	666.9	648.5	646.0	629.1	623.1	609.7	597.6	588.4

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	571.9	565.1	547.7	539.1	524.7	510.5	502.3	483.2	478.5	457.0
45.0	589.5	572.5	566.1	550.5	537.9	529.5	512.2	508.0	487.7	482.2
90.0	589.5	572.5	566.1	550.5	537.9	529.5	512.2	508.0	487.7	482.2
135.0	585.4	575.4	560.3	553.2	533.6	529.7	509.1	505.2	484.9	479.2
180.0	585.4	575.4	560.3	553.2	533.6	529.7	509.1	505.2	484.9	479.2
225.0	559.6	543.3	539.1	519.2	513.9	497.0	485.7	474.4	458.0	449.4
270.0	559.6	543.3	539.1	519.2	513.9	497.0	485.7	474.4	458.0	449.4
315.0	571.9	565.1	547.7	539.1	524.7	510.5	502.3	483.2	478.5	457.0
360.0	571.9	565.1	547.7	539.1	524.7	510.5	502.3	483.2	478.5	457.0

C/G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	452.3	430.8	422.6	405.9	384.6	379.2	356.0	350.0	328.4	317.5
45.0	465.6	453.4	442.4	425.2	415.3	398.3	386.1	373.7	354.6	348.8
90.0	465.6	453.4	442.4	425.2	415.3	398.3	386.1	373.7	354.6	348.8
135.0	459.8	452.1	435.8	423.2	409.8	394.3	383.0	364.3	355.4	335.4
180.0	459.8	452.1	435.8	423.2	409.8	394.3	383.0	364.3	355.4	335.4
225.0	430.3	419.6	406.8	389.9	379.8	361.1	350.6	336.8	318.9	311.9
270.0	430.3	419.6	406.8	389.9	379.8	361.1	350.6	336.8	318.9	311.9
315.0	452.3	430.8	422.6	405.9	384.6	379.2	356.0	350.0	328.4	317.5
360.0	452.3	430.8	422.6	405.9	384.6	379.2	356.0	350.0	328.4	317.5

C/G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	301.0	285.0	272.4	252.3	240.4	221.1	207.4	191.6	174.2	163.6
45.0	326.3	321.8	302.9	291.0	277.3	259.2	248.6	231.1	217.8	205.4
90.0	326.3	321.8	302.9	291.0	277.3	259.2	248.6	231.1	217.8	205.4
135.0	324.4	306.5	292.8	279.5	260.8	251.0	228.4	222.2	197.3	190.8
180.0	324.4	306.5	292.8	279.5	260.8	251.0	228.4	222.2	197.3	190.8
225.0	290.2	284.2	263.8	254.4	239.1	222.8	211.0	192.7	181.5	166.3
270.0	290.2	284.2	263.8	254.4	239.1	222.8	211.0	192.7	181.5	166.3
315.0	301.0	285.0	272.4	252.3	240.4	221.1	207.4	191.6	174.2	163.6
360.0	301.0	285.0	272.4	252.3	240.4	221.1	207.4	191.6	174.2	163.6

C/G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	140.7	133.6	109.8	102.4	81.0	72.7	58.9	47.0	38.2	24.3
45.0	186.1	180.1	157.8	152.3	132.4	120.9	108.8	90.6	82.8	66.1
90.0	186.1	180.1	157.8	152.3	132.4	120.9	108.8	90.6	82.8	66.1
135.0	168.3	159.7	140.4	118.9	112.0	88.1	82.6	62.8	57.3	43.1
180.0	168.3	159.7	140.4	118.9	112.0	88.1	82.6	62.8	57.3	43.1
225.0	149.2	141.2	119.6	114.8	93.9	86.7	72.7	60.8	53.8	40.2
270.0	149.2	141.2	119.6	114.8	93.9	86.7	72.7	60.8	53.8	40.2
315.0	140.7	133.6	109.8	102.4	81.0	72.7	58.9	47.0	38.2	24.3
360.0	140.7	133.6	109.8	102.4	81.0	72.7	58.9	47.0	38.2	24.3

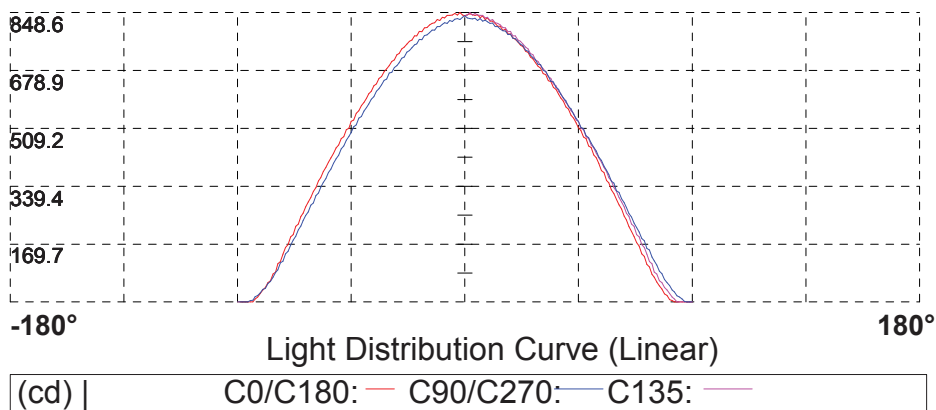
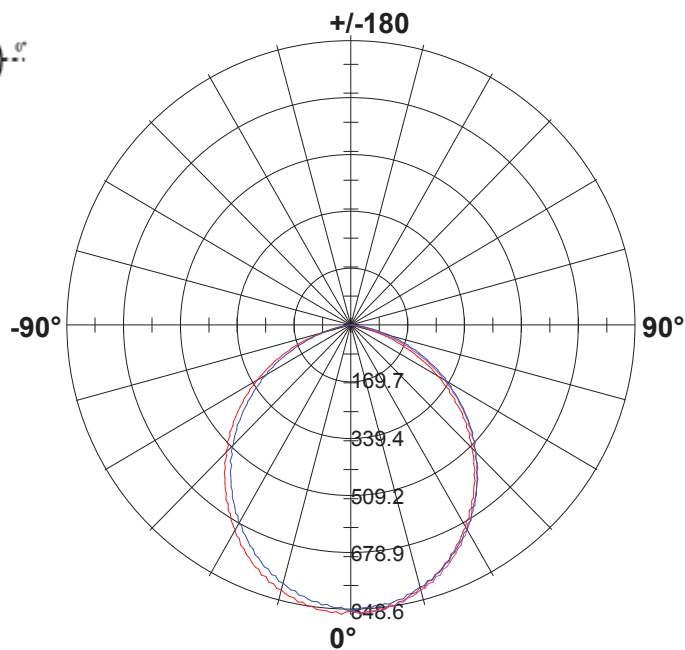
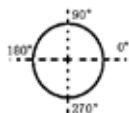
Photometric Data Table [cd]

C/G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	19.3	6.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	57.3	48.1	34.8	29.7	18.5	15.1	9.0	1.7	0.1	0.0
90.0	57.3	48.1	34.8	29.7	18.5	15.1	9.0	1.7	0.1	0.0
135.0	35.2	25.1	14.6	9.1	0.0	0.0	0.0	0.0	0.0	0.0
180.0	35.2	25.1	14.6	9.1	0.0	0.0	0.0	0.0	0.0	0.0
225.0	36.9	26.8	19.1	15.7	4.9	4.5	0.0	0.0	0.0	0.0
270.0	36.9	26.8	19.1	15.7	4.9	4.5	0.0	0.0	0.0	0.0
315.0	19.3	6.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	19.3	6.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0

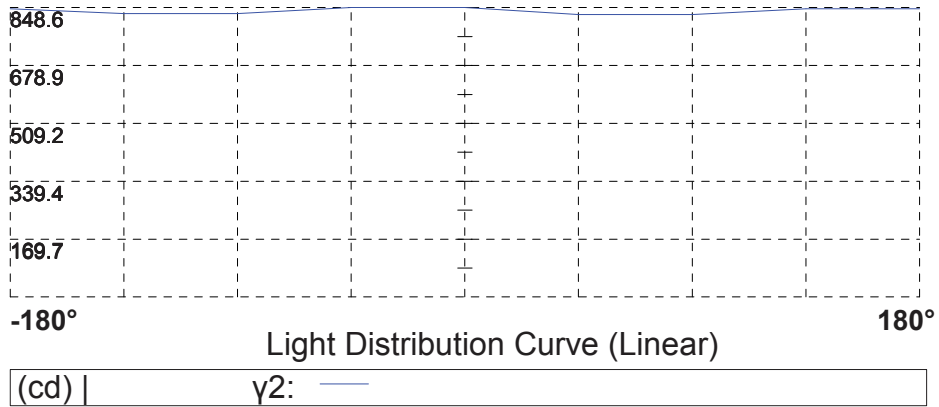
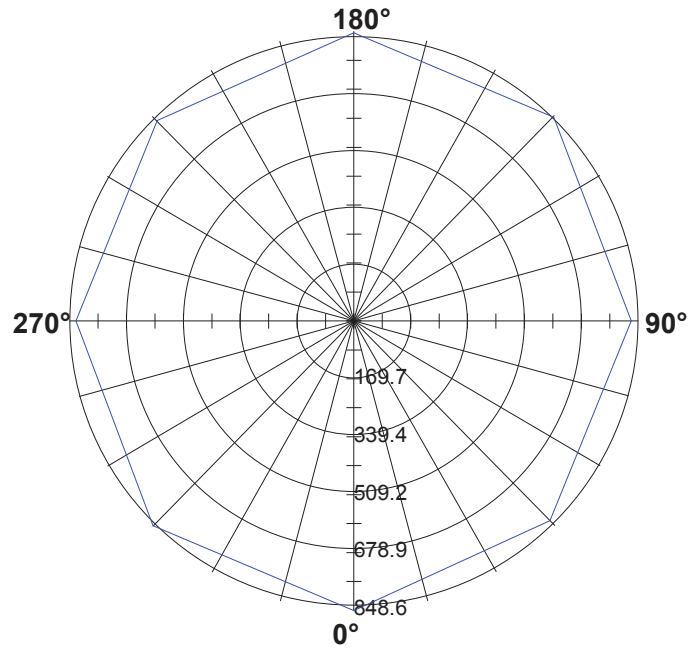
C/G	90.0
0.0	0.0
45.0	0.0
90.0	0.0
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

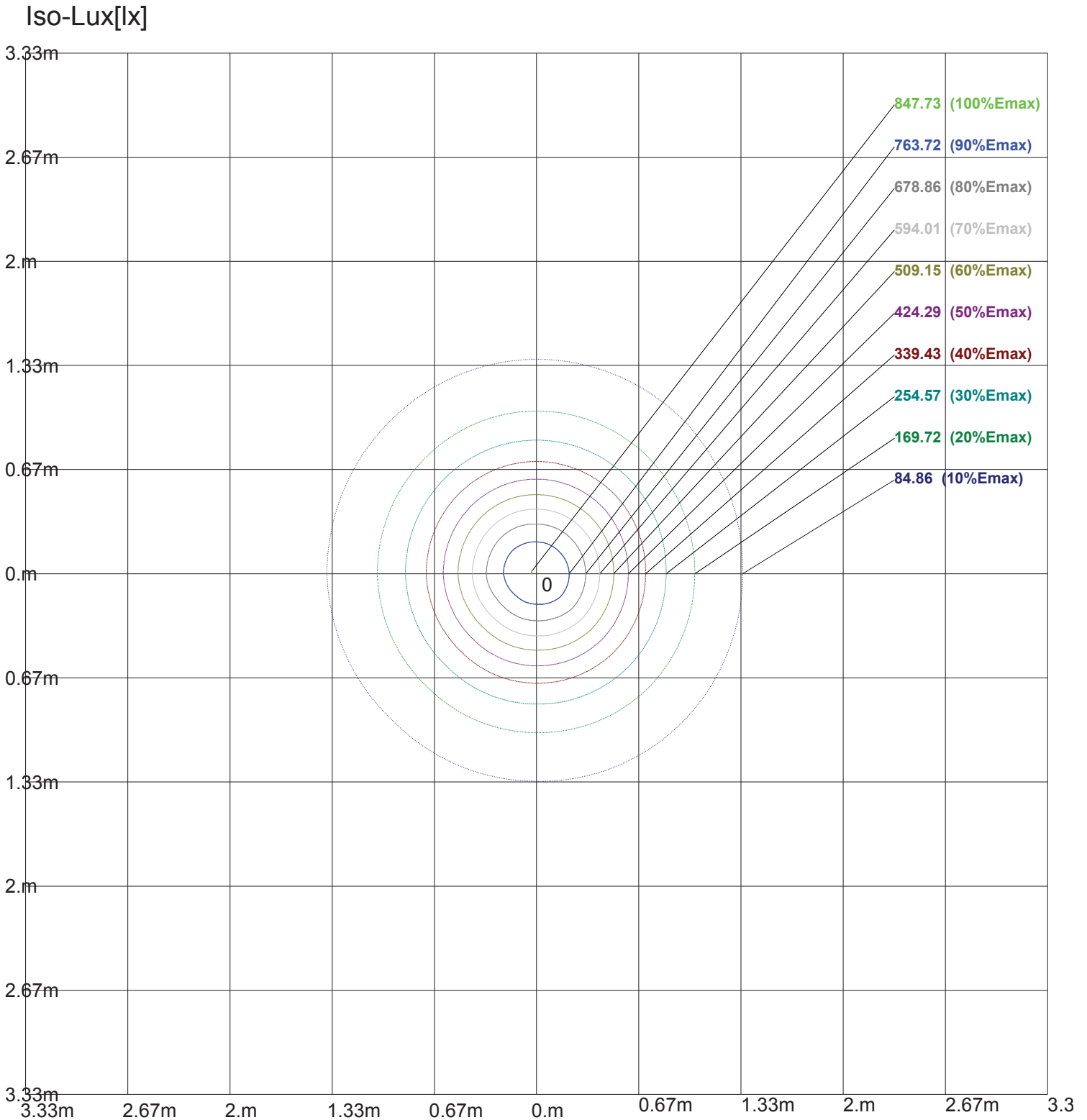
Light Distribution Curve [Unit: cd]

Luminaire



Max Plane Light Distribution Curve [Unit: cd]





Height: 1 m
Max Illuminance : 848.58lx

Luminance Limiting Curve

Diameter: 200mm

Length: mm

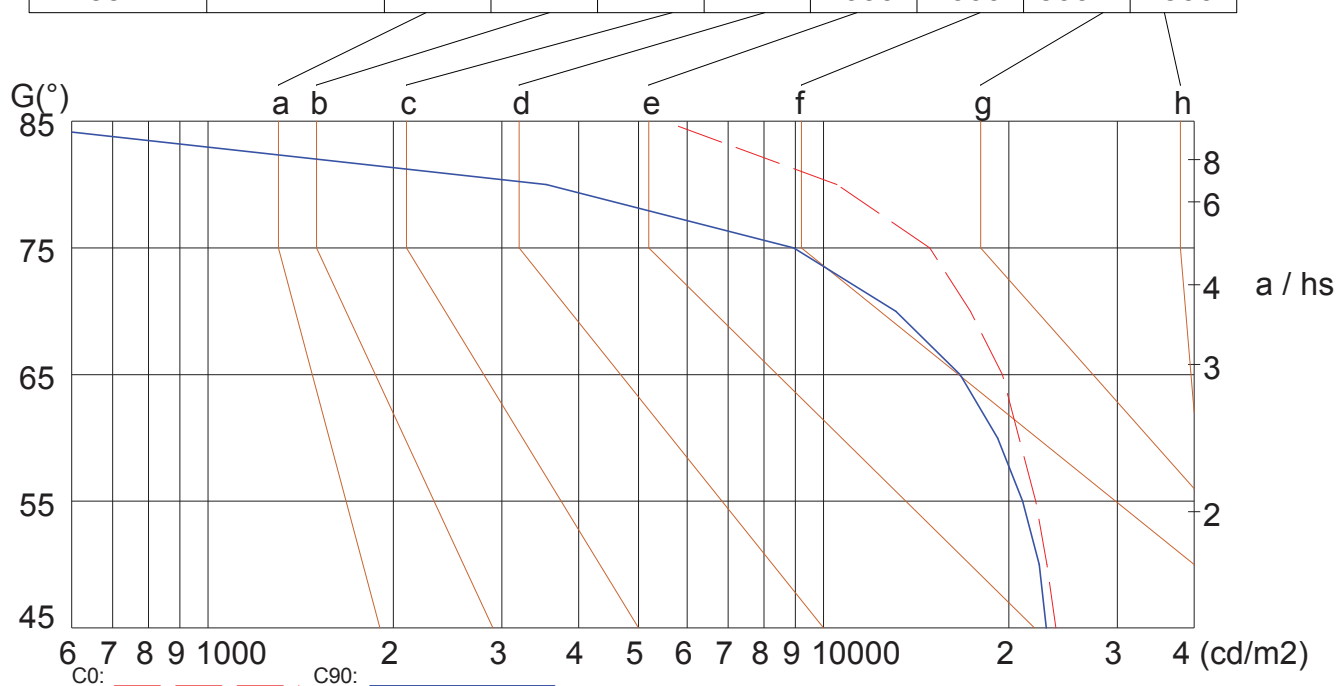
Width: mm

Height: mm

(cd/m²)

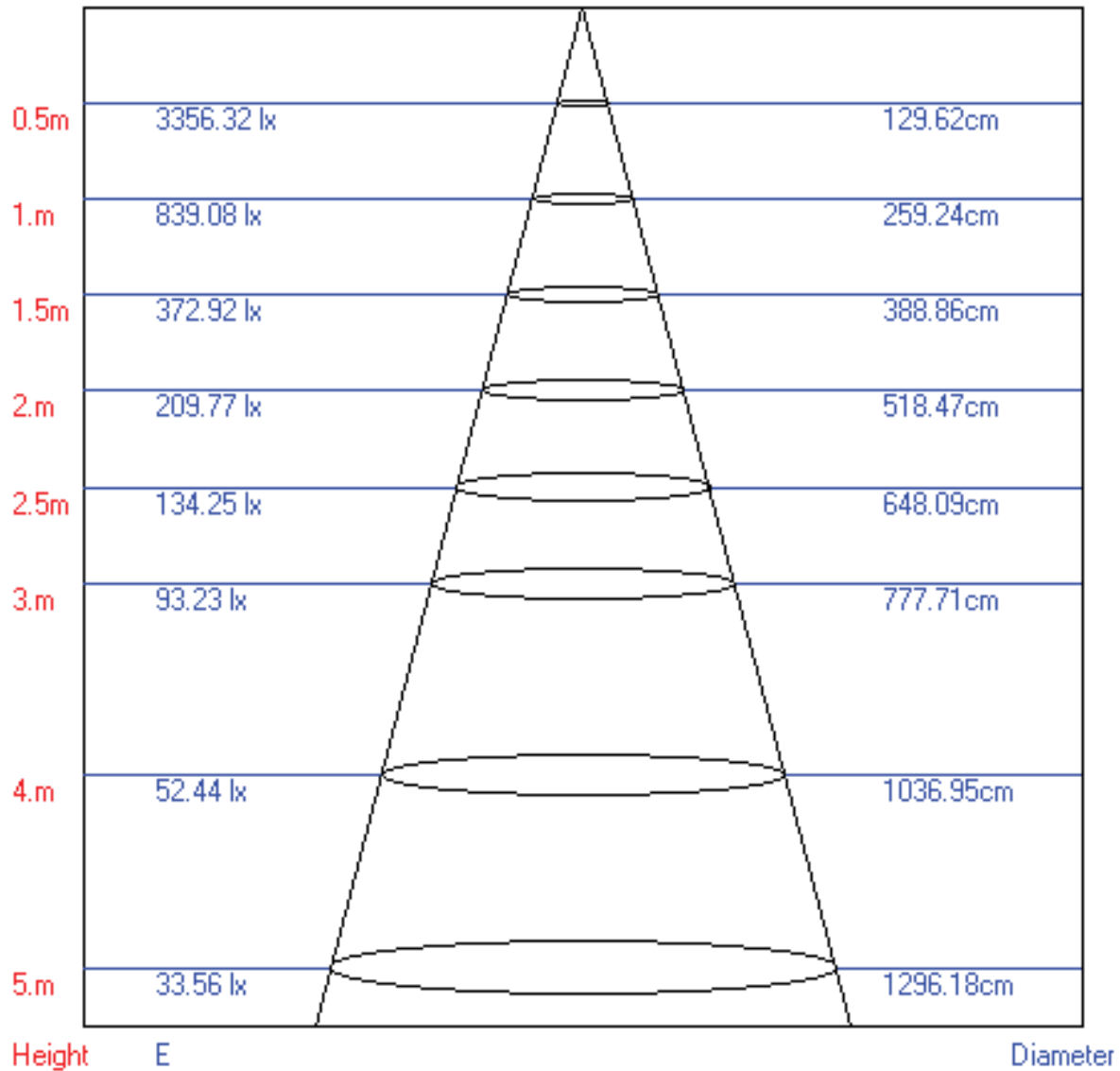
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	23849	23069	22118	20783	19535	17325	14875	10511	
C90	22991	22407	21056	19174	16663	13102	8944	3546	

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: 104.70°

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	1.05	1.03	1.02	1.01	0.99	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.81
2	0.92	0.89	0.87	0.91	0.88	0.86	0.88	0.85	0.82	0.85	0.81	0.78	0.80	0.76	0.73	0.68
3	0.79	0.76	0.74	0.79	0.75	0.73	0.77	0.73	0.70	0.75	0.70	0.66	0.71	0.67	0.62	0.58
4	0.69	0.66	0.64	0.69	0.65	0.63	0.68	0.64	0.60	0.67	0.61	0.57	0.64	0.59	0.54	0.50
5	0.60	0.57	0.56	0.61	0.57	0.55	0.61	0.56	0.52	0.60	0.54	0.50	0.58	0.52	0.47	0.43
6	0.53	0.51	0.49	0.54	0.50	0.48	0.54	0.49	0.46	0.54	0.48	0.44	0.53	0.47	0.42	0.38
7	0.48	0.45	0.43	0.48	0.45	0.43	0.49	0.44	0.41	0.49	0.43	0.39	0.49	0.42	0.37	0.34
8	0.43	0.40	0.39	0.44	0.40	0.38	0.45	0.40	0.37	0.45	0.39	0.35	0.45	0.38	0.33	0.30
9	0.39	0.36	0.35	0.40	0.36	0.34	0.41	0.36	0.33	0.41	0.36	0.32	0.42	0.35	0.30	0.27
10	0.35	0.33	0.32	0.36	0.33	0.31	0.38	0.33	0.30	0.38	0.33	0.29	0.39	0.32	0.27	0.25

