

# NAKA ROUND SERIES

Preliminary version

## RECESSED LIGHTING



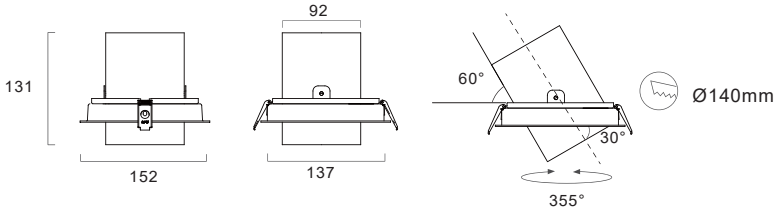
### Key Feature

- Round recessed spotlight
- Efficacy up to 136 lm/W.
- 25 or 45 degree beam angle.
- 355° rotatable and 30° tiltable
- High quality light output, Ra (R9) typ.: 93(50)
- Integrated driver
- Lifetime: 50,000hrs (L80 B20, Ta=25°C).

### Key Specification

- Input voltage: 220-240VAC 50/60Hz.
- Power factor: 0.95
- Luminaire input power: 20/28W
- Luminous Flux: 2720/3724lm@940.
- Luminaire efficacy: 136/133lm/W @940.
- Ra (R9) typ.: 93(50)
- Chromaticity tolerance (initial MacAdam): 3 SDCM.
- CCT: 3000K, 4000K
- Beam angle: 25°/45°
- Ta: -20~35°C.
- Housing: Aluminium
- Optical reflector: Aluminum spinning vacuum plated.

**Dimensions: (mm)**

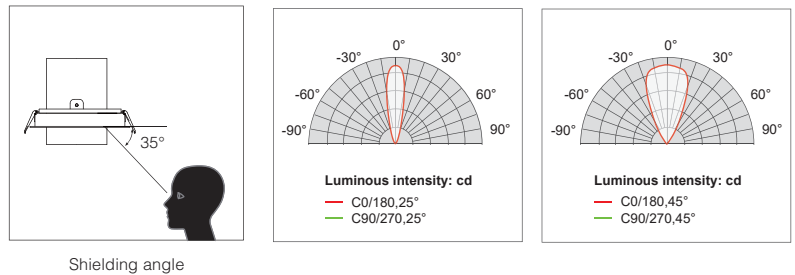


**Specifications**

Order no.	Model	Power <sup>[1]</sup> (W)	Ra (R9) <sup>[3]</sup> typ	CCT <sup>[2]</sup> (K)	Beam <sup>[4]</sup> angle	Luminous <sup>[5]</sup> flux(lm)	Luminaire <sup>[6]</sup> efficacy(lm/w)	UGR	QTY/CTN (pcs)	G.W./CTN (kg)	SIZE/CTN (mm)
-	NAKA ROUND LO-R1-220V-R	20	93(50)	3000	25°	3500	125	<20	8	9.5	760x340x200
-			93(50)	4000		3640	130				
-			93(50)	3000	45°	3500	125	<20	8	9.5	760x340x200
-			93(50)	4000		3640	130				
-	NAKA ROUND MO-R1-220V-R	28	93(50)	3000	25°	3388	121	<20	8	9.5	760x340x200
-			93(50)	4000		3528	126				
-			93(50)	3000	45°	3388	121	<20	8	9.5	760x340x200
-			93(50)	4000		3528	126				
-	NAKA ROUND LO-R1-220V-L (Dark light)	20	93(50)	3000	25°	2600	130	<20	8	9.5	760x340x200
-			93(50)	4000		2720	136				
-			93(50)	3000	45°	2600	130	<20	8	9.5	760x340x200
-			93(50)	4000		2720	136				
-	NAKA ROUND MO-R1-220V-L (Dark light)	28	93(50)	3000	25°	3640	130	<20	8	9.5	760x340x200
-			93(50)	4000		3724	133				
-			93(50)	3000	45°	3640	130	<20	8	9.5	760x340x200
-			93(50)	4000		3724	133				

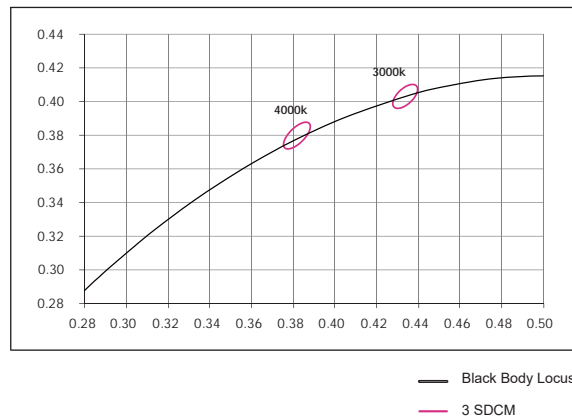
- [1]: Measurement precision for input voltage/current /power +/- 10%, W = kWh/1000h.
- [2]: Comply with ANSI C78.377
- [3]: Minimum Ra(TYP.) is rated value - 2.
- [4]: Beam angle ≤20°, measurement precision +/- 20%; beam angle >20°, measurement precision +/- 15 %.
- [5]: Minimum Luminous flux is 90% of rated value.
- [6]: Minimum Luminaire efficacy is 90% of rated value.

**Photometrics(reference)**



## Color Bin Definition

Chromaticity tolerance (initial MacAdam): 3 SDCM (3000K, 4000K)  
Color coordinates (CIEx, CIEy): 3000K(0.4338, 0.4030), 4000K(0.3818, 0.3797)  
Measurement precision for x ,y +/- 0.005



## Standards

EN60598-1  
EN 60598-2-1  
EN62471  
EN61547  
EN55015  
EN61000-3-2  
EN61000-3-3

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\* Due to continuous improvements and innovations, specifications may change without notice.