

# LEDTOUCH™ Downlight

311/411/415/520/620/627/640/840/860

## Tender Specification



### Optical:

- The luminaire should have LED chip from following acceptable manufacturers:
  - Lumileds
  - OSRAM
  - Nichia
  - Cree
- The luminaire should have flexible optical system to achieve lighting parameters with following beam angles:

	3"	4"	5"	6"	8"
Power	11W	11W, 15W	20W	20W	28W, 40W, 40W, 60W
Beam Angle	26°, 38°	28°, 40°	26°, 38°, 46°	26°, 38°, 46°	28°, 40°, 50°, 28°, 38°, 55°

- The luminaire should have a color consistency less than 3 SDCM (standard deviation of color matching) as defined by MacAdam.
- The luminaire should offer at least 3", 4", 5", 6" and 8" size options.
- The luminaire should have a composite system efficacy of at least 85 Lumen/Watt for 3", 4" and 8" luminaires and at least 100 Lumen/Watt for 5" and 6" luminaires.
- The luminaire should have lumen package from 950 lumens up to 5100 lumens at 4000K.
- The CCT of luminaire should be available in 2700K, 3000K and 4000K.
- The Color Rendering Index (CRI) of luminaire should not be less than 83.

### Electrical:

- The luminaire should be pre-wired with 2 cables (0.75mm<sup>2</sup>), wire pressing and fixing should be inside the luminaire housing.
- The power factor of luminaire should be greater or equal to 0.9.
- The luminaire should have DALI capability as an option.

### Mechanical:

- The main body of luminaire should be made of die casting aluminum.
- The heat sink of luminaire should be painted in silver of color RAL 7035 and mounting ring should be painted in white of color RAL9003.
- The luminaire sizes/cut off must meet China norm GB/T 29294-2012(for China Market Only), namely, 75mm, 100mm, 125mm,150mm, 200mm for 3", 4", 5", 6" and 8" respectively.
- The luminaire should have mounting holes for flexible and safe installation.
- The width of mounting ring at the back of the luminaire from the housing should not be more than 5mm.
- The luminaire should have independent power supply unit.
- The luminaire should have hole reserved for luminaire safety cable on the housing.
- The luminaire should have safety cable for reflector.

### Reliability and Safety:

- The luminaire should have a useful life of 50,000 burning hours supported by LM79 report issued by authorized third party.
- The luminaire shall be classified in Exempt Group as per IEC62471 Photobiological safety standard and with CCC/CB certificate.
- The luminaire and the power supply unit should come from the same supplier for better system reliability.

### Environmental Friendly:

- The luminaire should have its Electro-magnetic Interference (EMI) tested to conform with IEC61547, IEC61000-3-2 and IEC61000-3-3.
- The luminaire should be conformed to RoHS.
- The luminaire should be packed in recyclable brown box.

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