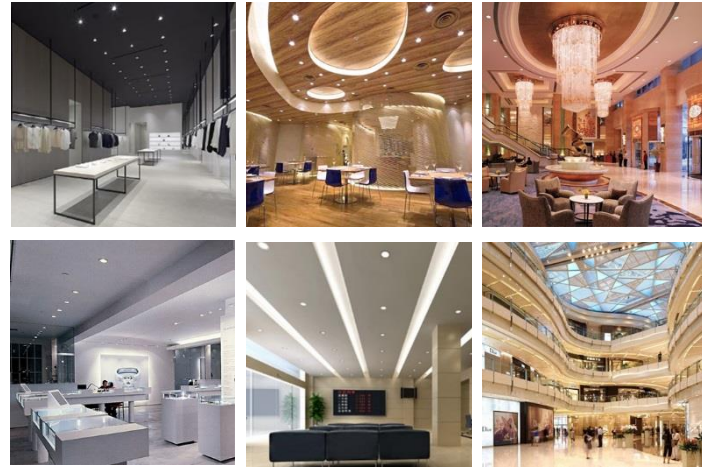
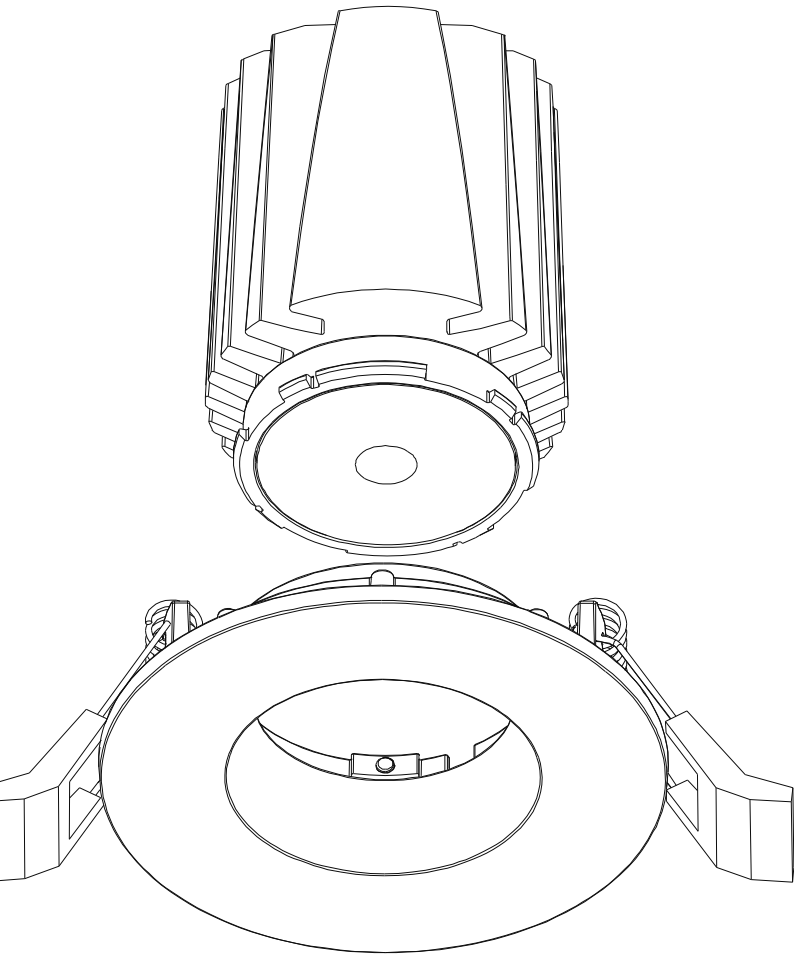




NOVO LED MODULAR SPOT LIGHT



Modular Design

Modular design with interchangeable combinations of diverse power options, fittings and light distributions to accommodate your desires.



Elegant Appearance

The elegant, white appearance design, suitable for a variety high-end indoor applications such as hotel and resort facilities, commercial building reception hall, shopping center.



Desirable CRI

With a CRI of 80 SONARAY's spot light reveals the true colors on you displays.



Dimmable function

Dimming functions available and compatible with a good range of dimmers.(Optional)



Quality Core Component

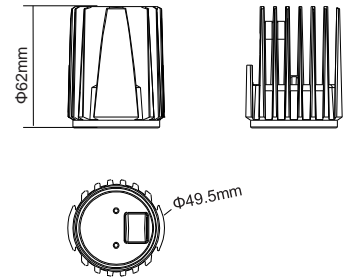
Excellent luminaire design to the core: starting with the LED packages themselves. These luminaires only use high quality COB packages from CITELED – chipsets that have great quality and long life as backed by LM-80 and TM-21 reports. Quality inside the luminaires that shines from the outside.

NOVO LED MODULAR SPOT LIGHT 7W



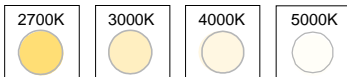
Specifications

Material: Aluminum
 Driver: External
 Dimming: Optional
 Input Voltage: 100-240-50/60Hz
 Optical design: Reflector/ Lens
 Operating Temperature: -20°C ~+45°C, -4°F~+113°F
 Lifetime: ≥ 30,000hrs



IP20 IK06

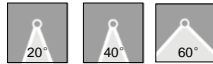
Color Temperature



Beam Angle:

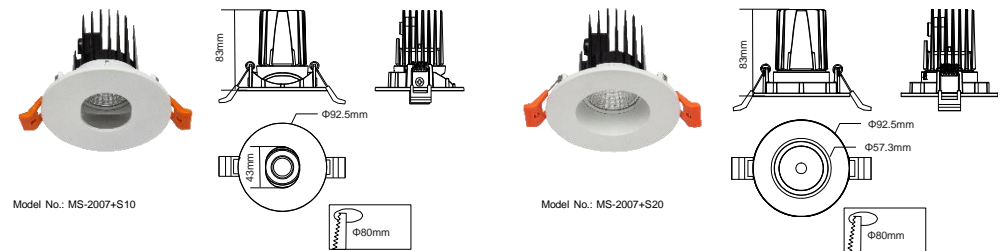


Beam Angle:



| Model No. | Power (W) | Luminous Flux (lm) | Luminous Efficacy (lm/W) | CCT (K) | CRI (Ra) | Beam Angle (°) | Driver Weight (kg/lb) | Light Engine Weight (kg/lb) |
|-------------------------|-----------|--------------------|--------------------------|---------|----------|----------------|-----------------------|-----------------------------|
| MS-2007+S10 (Reflector) | 7 | 364 | 52 | 2700 | ≥80 | 40 | 0.076/0.168 | 0.202/0.445 |
| MS-2007+S10 (Lens) | 7 | 483 | 69 | 2700 | ≥80 | 24 | 0.076/0.168 | 0.216/0.476 |
| MS-2007+S20 (Reflector) | 7 | 490 | 70 | 2700 | ≥80 | 40 | 0.076/0.168 | 0.194/0.428 |
| MS-2007+S20 (Lens) | 7 | 553 | 79 | 2700 | ≥80 | 24 | 0.076/0.168 | 0.208/0.459 |

Specifications



Model No.: MS-2007+S10

Model No.: MS-2007+S20

Fitting:

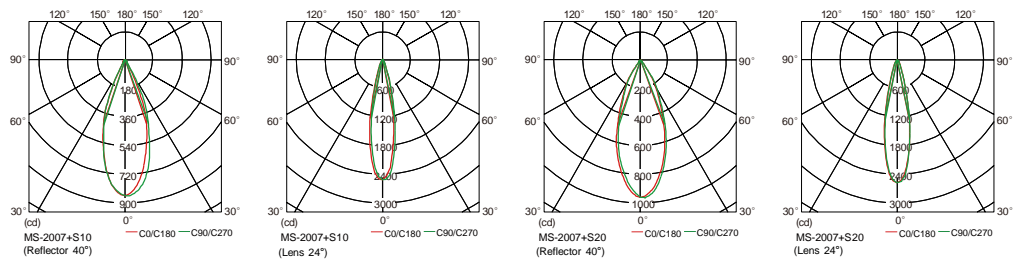


Model: S10
 Order NO.: MS-S10-111
 Fitting Feature: Tiltable, max. 30°



Model: S20
 Order NO.: MS-S20-111
 Fitting Feature: non-tiltable

Light Distribution Curve



Illuminance Distribution

| Model | H(m) | E(lx) | D(cm) |
|---------------------------|------|-------|-------|
| MS-2007+S10 Reflector 40° | 1 | 859 | 67 |
| | 2 | 215 | 134 |
| | 3 | 95 | 200 |
| | 4 | 54 | 267 |
| | 5 | 34 | 334 |
| MS-2007+S10 Lens 24° | 1 | 2537 | 40 |
| | 2 | 634 | 79 |
| | 3 | 282 | 119 |
| | 4 | 159 | 158 |
| | 5 | 102 | 198 |
| MS-2007+S20 Reflector 40° | 1 | 963 | 72 |
| | 2 | 241 | 143 |
| | 3 | 107 | 215 |
| | 4 | 60 | 286 |
| | 5 | 39 | 358 |
| MS-2007+S20 Lens 24° | 1 | 2583 | 41 |
| | 2 | 646 | 82 |
| | 3 | 287 | 122 |
| | 4 | 161 | 163 |
| | 5 | 103 | 204 |

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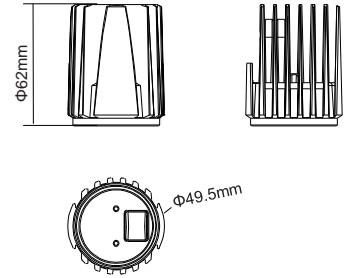
Version 1.3. Edited 2015.06

NOVO LED MODULAR SPOT LIGHT 10W



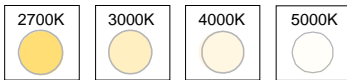
Specifications

Material: Aluminum
 Driver: External
 Dimming: Optional
 Input Voltage: 100-240-50/60Hz
 Optical design: Reflector/ Lens
 Operating Temperature: -20°C ~+45°C, -4°F~+113°F
 Lifetime: ≥ 30,000hrs



IP20 IK06

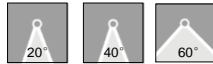
Color Temperature



Beam Angle:

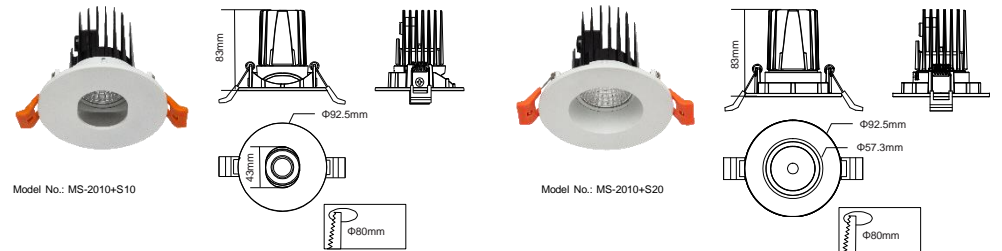


Beam Angle:



| Model No. | Power (W) | Luminous Flux (lm) | Luminous Efficacy (lm/W) | CCT (K) | CRI (Ra) | Beam Angle (°) | Driver Weight (kg/lb) | Light Engine Weight (kg/lb) |
|-----------------------------|--------------|-----------------------|-----------------------------|------------|-------------|-------------------|--------------------------|--------------------------------|
| MS-2010+S10 (Reflector) | 10 | 570 | 57 | 2700 | ≥80 | 20 | 0.077/0.17 | 0.205/0.452 |
| MS-2010+S10 (Lens) | 10 | 710 | 71 | 2700 | ≥80 | 24 | 0.077/0.17 | 0.215/0.474 |
| MS-2010+S20 (Reflector) | 10 | 710 | 71 | 2700 | ≥80 | 20 | 0.077/0.17 | 0.198/0.437 |
| MS-2010+S20 (Lens) | 10 | 810 | 81 | 2700 | ≥80 | 24 | 0.077/0.17 | 0.206/0.454 |

Specifications



Fitting:

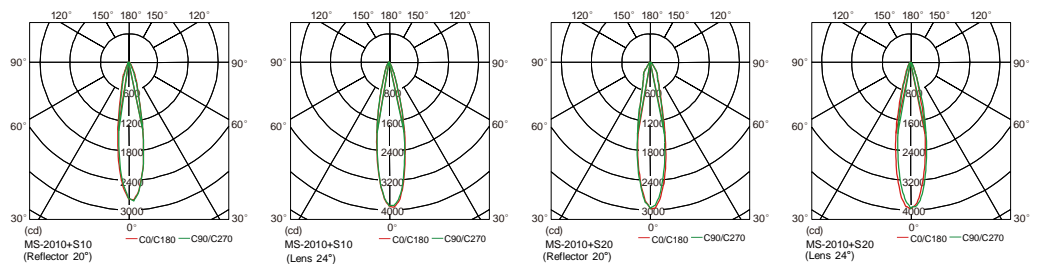


Model: S10
 Order NO.: MS-S10-111
 Fitting Feature: Tiltable, max. 30°



Model: S20
 Order NO.: MS-S20-111
 Fitting Feature: non-tiltable

Light Distribution Curve



Illuminance Distribution

| Model | H(m) | E(lx) | D(cm) |
|------------------------------|------|-------|-------|
| MS-2010+S10 Reflector 20° | 1 | 2823 | 35 |
| | 2 | 706 | 71 |
| | 3 | 314 | 106 |
| | 4 | 176 | 142 |
| | 5 | 113 | 177 |
| MS-2010+S10 Lens 24° | 1 | 3940 | 39 |
| | 2 | 985 | 77 |
| | 3 | 438 | 116 |
| | 4 | 246 | 155 |
| | 5 | 158 | 193 |
| MS-2010+S20 Reflector 20° | 1 | 2986 | 37 |
| | 2 | 747 | 74 |
| | 3 | 332 | 110 |
| | 4 | 187 | 147 |
| | 5 | 120 | 184 |
| MS-2010+S20 Lens 24° | 1 | 3976 | 40 |
| | 2 | 994 | 80 |
| | 3 | 442 | 120 |
| | 4 | 249 | 161 |
| | 5 | 159 | 201 |

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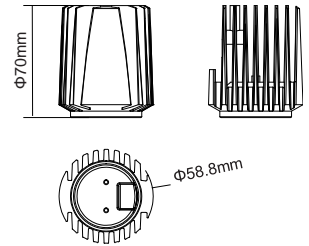
Version 1.3. Edited 2015.06

NOVO LED MODULAR SPOT LIGHT 15W



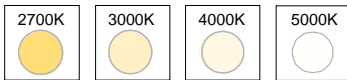
Specifications

Material: Aluminum
 Driver: External
 Dimming: Optional
 Input Voltage: 100-240-50/60Hz
 Optical design: Reflector/ Lens
 Operating Temperature: -20°C ~+45°C, -4°F~+113°F
 Lifetime: ≥ 30,000hrs



IP20 IK06

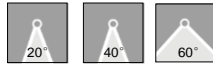
Color Temperature



Beam Angle:

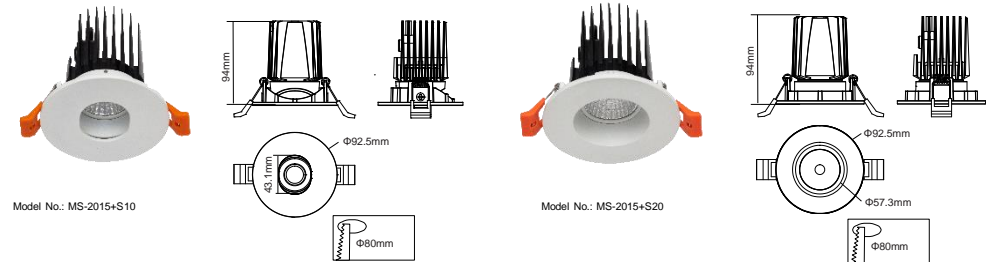


Beam Angle:



| Model No. | Power (W) | Luminous Flux (lm) | Luminous Efficacy (lm/W) | CCT (K) | CRI (Ra) | Beam Angle (°) | Driver Weight (kg/lb) | Light Engine Weight (kg/lb) |
|-------------------------|-----------|--------------------|--------------------------|---------|----------|----------------|-----------------------|-----------------------------|
| MS-2015+S10 (Reflector) | 15 | 810 | 54 | 2700 | ≥80 | 60 | 0.095/0.209 | 0.272/0.60 |
| MS-2015+S10 (Lens) | 15 | 960 | 64 | 2700 | ≥80 | 24 | 0.095/0.209 | 0.282/0.621 |
| MS-2015+S20 (Reflector) | 15 | 990 | 66 | 2700 | ≥80 | 60 | 0.096/0.212 | 0.264/0.582 |
| MS-2015+S20 (Lens) | 15 | 1050 | 70 | 2700 | ≥80 | 24 | 0.096/0.212 | 0.274/0.604 |

Specifications



Fitting:

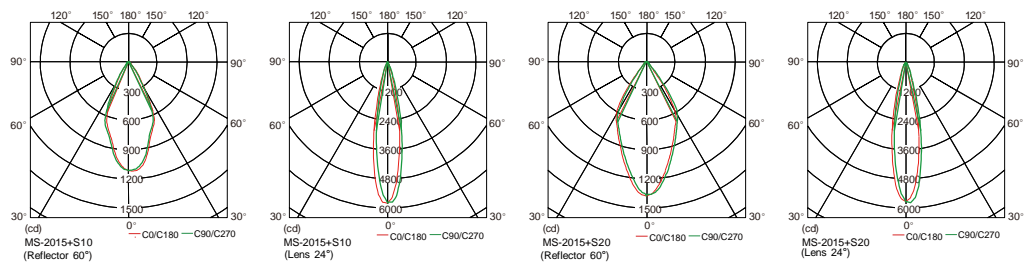


Model: S10
 Order NO.: MS-S10-111
 Fitting Feature: Tiltable, max. 30°



Model: S20
 Order NO.: MS-S20-111
 Fitting Feature: non-tiltable

Light Distribution Curve



Illuminance Distribution

| Model | H(m) | E(lx) | D(cm) |
|---------------------------|------|-------|-------|
| MS-2015+S10 Reflector 60° | 1 | 1123 | 91 |
| | 2 | 281 | 181 |
| | 3 | 125 | 272 |
| | 4 | 70 | 362 |
| | 5 | 45 | 453 |
| MS-2015+S10 Lens 24° | 1 | 5813 | 37 |
| | 2 | 1453 | 73 |
| | 3 | 646 | 110 |
| | 4 | 363 | 147 |
| | 5 | 233 | 184 |
| MS-2015+S20 Reflector 60° | 1 | 1385 | 98 |
| | 2 | 346 | 197 |
| | 3 | 154 | 295 |
| | 4 | 87 | 393 |
| | 5 | 55 | 492 |
| MS-2015+S20 Lens 24° | 1 | 5762 | 38 |
| | 2 | 1441 | 77 |
| | 3 | 640 | 115 |
| | 4 | 360 | 154 |
| | 5 | 231 | 192 |

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