

Ring Light

LDR-Si90


| Operating Temperature after 30 minutes | Drawing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|------------|------------|------------|-----------|---|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| <table border="1"> <caption>Operating Temperature Data (Approximate)</caption> <thead> <tr> <th>Minute</th> <th>White (°C)</th> <th>Red (°C)</th> <th>Green (°C)</th> <th>Blue (°C)</th> </tr> </thead> <tbody> <tr><td>1</td><td>28</td><td>28</td><td>28</td><td>28</td></tr> <tr><td>5</td><td>32</td><td>32</td><td>32</td><td>32</td></tr> <tr><td>10</td><td>38</td><td>38</td><td>38</td><td>38</td></tr> <tr><td>15</td><td>45</td><td>45</td><td>45</td><td>45</td></tr> <tr><td>20</td><td>48</td><td>48</td><td>48</td><td>48</td></tr> <tr><td>25</td><td>50</td><td>50</td><td>50</td><td>50</td></tr> <tr><td>30</td><td>52</td><td>52</td><td>52</td><td>52</td></tr> <tr><td>31</td><td>53</td><td>53</td><td>53</td><td>53</td></tr> </tbody> </table> | Minute | White (°C) | Red (°C) | Green (°C) | Blue (°C) | 1 | 28 | 28 | 28 | 28 | 5 | 32 | 32 | 32 | 32 | 10 | 38 | 38 | 38 | 38 | 15 | 45 | 45 | 45 | 45 | 20 | 48 | 48 | 48 | 48 | 25 | 50 | 50 | 50 | 50 | 30 | 52 | 52 | 52 | 52 | 31 | 53 | 53 | 53 | 53 | |
| Minute | White (°C) | Red (°C) | Green (°C) | Blue (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 28 | 28 | 28 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 32 | 32 | 32 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 38 | 38 | 38 | 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 45 | 45 | 45 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 48 | 48 | 48 | 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 50 | 50 | 50 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 52 | 52 | 52 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 53 | 53 | 53 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Mechanical Data (TYP) | |
|---------------------------|------------------------------|
| Casing Material | Aluminum |
| Storage Temperature Range | Temp 0-35°C, Humidity 20-85% |
| Weight | Approx. 190g |

| Optical Data (TYP) | R | R24 | W | G | B |
|------------------------------|-------|-----|---|---|---|
| Illumination (number of LED) | - | 130 | - | - | - |
| Led Color | RED | | - | - | - |
| Wavelength | 635nm | | - | - | - |
| Led Package | PLCC4 | | - | - | - |

| Electrical Data (TYP) | R | R24 | W/G/B |
|--------------------------------|--|--|-------|
| Operating Voltage | - | 24V ± 2% | - |
| Reverse Battery Protection | - | YES | - |
| Supply Ripple Voltage | - | ≤ Vs ± 5% | - |
| Current Consumption | - | 0.52A | - |
| Power Consumption | - | 12.48W | - |
| Trigger Voltage | - | Continuous= 24V Pulsing 48V 0-10% Duty Cycle | - |
| Operating after 30 minutes | Approx. 53°C | | - |
| Additional Cooling Method | Attached to large machine part | | - |
| Life span in continuous mode | 20,000 hours (drop to 50% intensity) at 25°C | | - |
| Life span in strobe light mode | Est. >50,000 hours (drop to 50% intensity) at 25°C | | - |
| Connection | - | JST SMR-03V, 1:+,3:- | - |
| Power Supply Selection | - | PSA-24V PSD-24V PSD-STL-48V | - |

| Application (TYP) | |
|------------------------------|----------|
| Recommended Working Distance | 50-100mm |