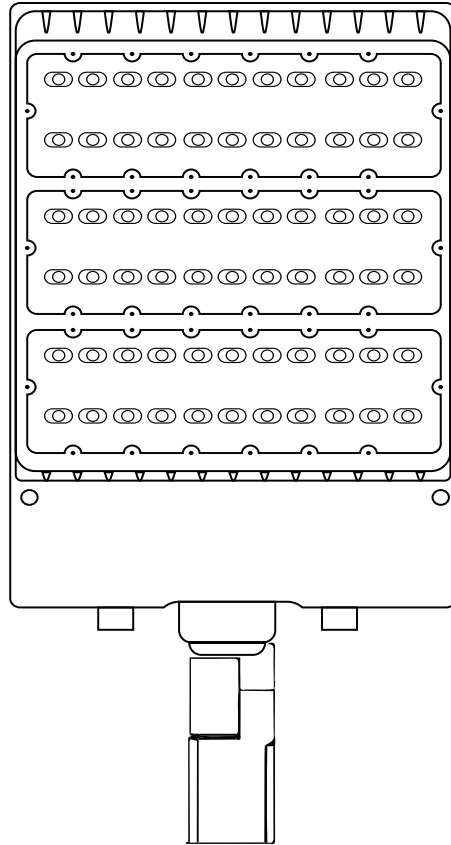


HYUNDAI

LIGHTING



LED Street Light


220W

4000K

Technical Datasheet

| | | |
|---------------------|----------------|--|
| Product Description | HLSLP - 220/4K | |
|---------------------|----------------|--|




A, Appearance Description

|  <p>455 * 315 * 72 mm</p> | Component No | Component Name | Material Technics | Color Effect | Remark |
|--|--------------|--------------------|---------------------|--------------|--------|
| | 1 | Mounting Accessory | Di-casting aluminum | Matt Coffee | |
| | 2 | Body | Di-casting aluminum | Matt Coffee | |
| | 3 | Diffuser | | | |
| | 4 | Lenses | PC / PMMA | | |
| | 5 | Driver | Alminum | Sliver | |
| | 6 | Nema Socket | PC | Black | |

B, Structure

| Parameter | Units | Min | Rating | Max | Remark |
|---------------------|-------|---------------------|---------------|--------------|--------|
| Diffuser | | | Glass/ Lenses | | |
| Weight | Kg | | 8.2 | | |
| Height | mm | | 455 | | |
| Lengh | mm | | 315 | | |
| Driver | - | Internal (MeanWell) | | | |
| Installation Method | - | Post Top | Bracket | Wall Mounted | |

C, Product Certificate

| | |
|------------------|---|
| Standards | <input checked="" type="checkbox"/> IEC 60598-1/2-1 <input type="checkbox"/> UL1598 <input checked="" type="checkbox"/> LVD |
| | <input checked="" type="checkbox"/> IEC61347 Series <input checked="" type="checkbox"/> SASO 2927 <input checked="" type="checkbox"/> EMC |
| | <input checked="" type="checkbox"/> IEC62031 Series <input type="checkbox"/> FCC 47 part 15 <input type="checkbox"/> GB/T20145 |
| | <input checked="" type="checkbox"/> IEC61000-3-2 <input checked="" type="checkbox"/> CISPR15 <input checked="" type="checkbox"/> RoHS |
| | <input checked="" type="checkbox"/> IEC62031 <input checked="" type="checkbox"/> IEC6722-2-1 |
| |    |

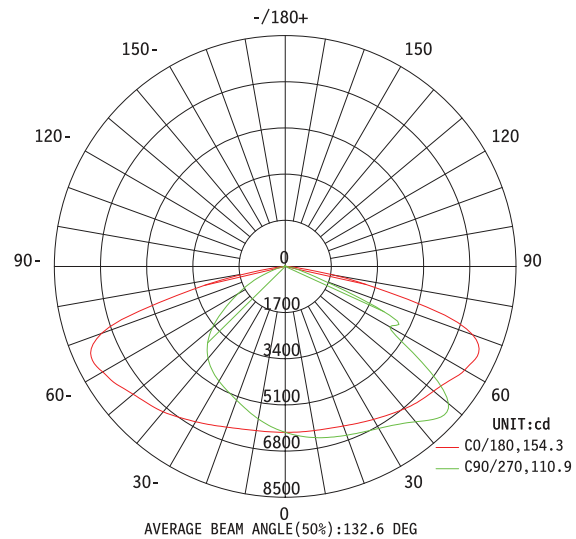
| D, Electronic Data | | | | | |
|------------------------------|-------|-----|---------|-----|----------------|
| Parameter | Units | Min | Rating | Max | Remark |
| Supply Voltage | V | 100 | 110-240 | 277 | |
| Supply Frequency | Hz | 50 | 50/60 | 60 | |
| Supply Current | A | | 0.821 | | |
| Power Consumption | W | | 220 | | |
| Power Factor | - | | >0.95 | | |
| THD | | | | 15 | |
| Surge Protection L-N | KV | | 20 | | |
| IP | | | 67 | | |
| IK | | | 10 | | |
| Thermal Efficiency | % | | 85 | | |
| Luminaire Efficiency | % | | 87 | | |
| LED Driver Current | A | | 4.9 | | |
| LED Driving Voltage | VDC | 27 | | 56 | |
| LED Driver Efficiency | % | 87 | | | |
| Operating Temperature | | -10 | | 45 | Tested (55C)° |
| Driver Luminaire TC | C° | | | 90 | @Ta45C ° |
| Overload shortcut protection | | | | | Yes |

| E, Electronic Data | | | |
|---------------------------|-------|--------------------------|--------|
| Parameter | Units | Rating/Working Condition | Remark |
| LED Qty.(pcs) | - | 264 | |
| LED Size | pcs | 3030 | |
| LM80 Report | - | Y | |

E, Photometric Data

| Parameter | Units | Min | Rating | Max | Remark |
|--------------------------|-------|---------|--------|------------|----------|
| Luminous Flux $\pm 10\%$ | lm | | 28600 | | |
| Luminous Flux | cd | | | | |
| Beam Angle | ° | | | | Type III |
| Luminous Efficiency | lm/W | | 130 | | |
| SDCM | | | | 1.27 | |
| CRI | | | > 73 | | |
| Color Temperature | | | | | |
| Dimming Range | | 0 - 10V | PWM | Resistance | |

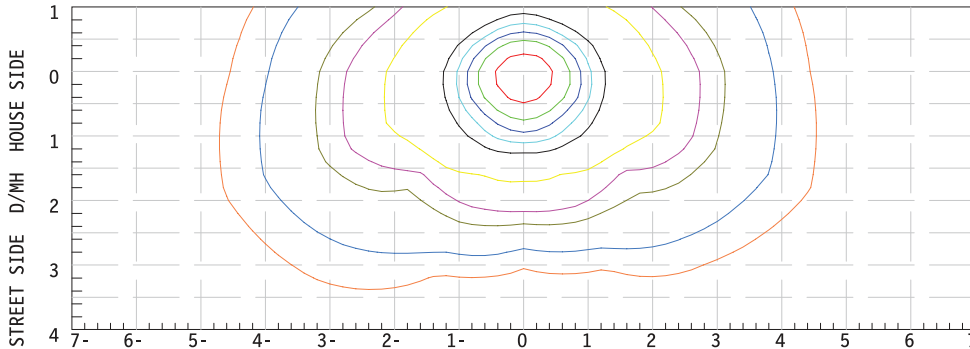
Light Distribution Curve



Area Average Illumination

ROAD SURFACE ISOLUX DIAGRAM

Illuminance at MH=10 m, $E_{nadir} = 60.93 \text{ lx}$
to convert to other MH, multiply by factor in the table



| | | | | |
|-----|----|-----|------|-----|
| 49 | 37 | 30 | 24 | 18 |
| 6.1 | 3 | 1.8 | 0.67 | 0.3 |

| Hight | Factor |
|-------|--------|
| 5m | 4.000 |
| 6m | 2.778 |
| 7m | 2.041 |
| 8m | 1.563 |
| 9m | 1.235 |
| 10m | 1.000 |
| 11m | 0.826 |
| 12m | 0.694 |
| 13m | 0.592 |
| 14m | 0.510 |
| 15m | 0.444 |
| 16m | 0.391 |

G, Reliability Data

| Parameter | Units | | Remark |
|------------------------------------|-------|--------|--------|
| Lifetime | hrs | 50,000 | |
| Number of Switching Cycles | Times | 25,000 | |
| Starting Time | s | 0.5 | |
| Ability Test | - | PASS | |
| High-low Temperature Cycle Test | - | PASS | |
| High Temperature and Humidity Test | - | PASS | |