

# KRONOS

## KRONOS – AREA LIGHT HORIZONTAL / ENTRY ROAD OPTIC

### AREA LIGHTS



LAST UPDATE: 06-05-2024



A family of Area Light, Surface Washer and Architectural-Grade Flood Light in various mounting application KRONOS utilizes the latest LED technology from renowned manufacturers with high CRI in 3000K or 4000K. The high quality corrosion resistance aluminium housing is filmed with Nano Ceramic and coated with super durable powder. The heat management has been delicately designed and tested under ambient thermal condition Ta 50°C. A graduated scale provides accurate aiming of the luminaire. KRONOS offers various light distribution patterns e.g. Asymmetric Flat Beam (Road Optic) for USA, European, Middle East and Asia regulations, Asymmetric Forward Throw for squares and open spaces, as well as Narrow, Medium, Wide and Elliptical beams for floodlight and façade light applications.



### Technical Data



|                       |                    |
|-----------------------|--------------------|
| Ordering Code :       | 7778-J-5-666-XX    |
| Lamp :                | LED                |
| Beam :                | T3                 |
| CCT :                 | 3000 K             |
| CRI :                 | CRI >80            |
| SDCM :                | SDCM = 3           |
| Lamp Lumen :          | 16880 lm           |
| Luminaire Lumen :     | 12940 lm           |
| Lamp Wattage :        | 89 W               |
| Luminaire Wattage :   | 97 W               |
| Efficacy :            | 133 lm/W           |
| Ambient Temperature : | 50°C               |
| Lumen Maintenance     | L70B10 >72,000 h   |
| Controller :          | DALI               |
| Input Voltage :       | 220-240Vac 50/60Hz |
| Net Weight :          | 14.00 kg.          |

#### Ordering code guide

XXXX-X-X-XXX-XX

B
D

A
C
E

- A Product Code
- B Reflector
- C Electrical Component
- D Lamp
- E Color



Icon definition

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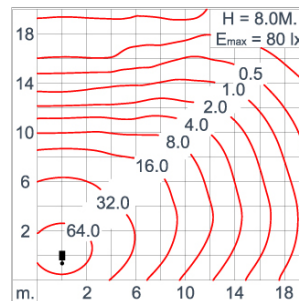
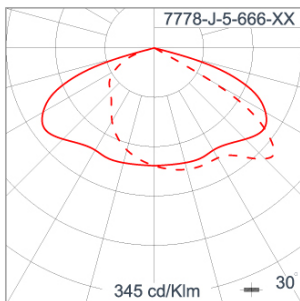


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#### Specification

|                         |   |  |          |  |             |  |              |  |                    |  |          |  |                 |
|-------------------------|---|--|----------|--|-------------|--|--------------|--|--------------------|--|----------|--|-----------------|
| IEC Standard            | IEC 60598-1 General Requirement<br>IEC 60598-2-1 Fixed Luminaires   |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Protection              | IP65 Class I  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| IK Rating               | Protection against mechanical impact IK08 on body and IK07 optical part.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Luminaires Body Housing | High-pressure die cast aluminum alloy body and components.<br>High strength cast aluminum alloy component.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Coating Process         | Nano Ceramic surface conversion, resistant to corrosive environment. Luminaire primarily coated with epoxy resin and top coated with UV stabilized polyester powder and cured in digital temperature controlled chamber at 200°C.                         |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Diffuser                | Impact resistant safety tempered glass cover. Able to withstand the temperature up to 250°C.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Lens                    | Molded PC lens from renowned manufacturers in various light distribution patterns.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Gasket                  | Post-cured treated silicone gasket. Temperature and weather resistant. Working temperature -40°C to +200°C.   |  |          |  |             |  |              |  |                    |  |          |  |                 |
| External Screws         | External screws are in stainless steel with protection grease.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Cable Entry             | Cable entry protected by M20 cable gland. To be used with H05RN-F/ H07RN-F cable with 7-13mm. diameter.   |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Led                     | High efficiency LED module utilized chips from world renowned manufacturer. Assembled on MCPCB and mounted on to heat conductive material.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Driver                  | High quality DALI Driver in constant current. Conform to applicable safety standards and electromagnetic compatibility.   |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Internal Wire           | Tinned copper conductor with silicone insulated internal wire. IMQ approved. Working temperature -40°C to +180°C.   |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Terminal Block          | Terminal block in GFR PA6.6 for cable with cross section up to 2.5 sqmm. VDE approved.<br>Class1 luminaire provided with the earth connection.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Pre-Wire Cable          | Pre-wired with 5-core cable for power (3x1 sqmm.) and dimming signal (2x0.35 sqmm.).  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Caution                 | Installation work has to be carried on according to the enclosed installation manual.   |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Color                   | <table><tr><td></td><td>Black O1</td></tr><tr><td></td><td>Graphite O2</td></tr><tr><td></td><td>Dark Grey O3</td></tr><tr><td></td><td>Aluminum Silver O4</td></tr><tr><td></td><td>White O6</td></tr><tr><td></td><td>Wooden Brown O7</td></tr></table> |  | Black O1 |  | Graphite O2 |  | Dark Grey O3 |  | Aluminum Silver O4 |  | White O6 |  | Wooden Brown O7 |
|                         | Black O1  |  |          |  |             |  |              |  |                    |  |          |  |                 |
|                         | Graphite O2   |  |          |  |             |  |              |  |                    |  |          |  |                 |
|                         | Dark Grey O3  |  |          |  |             |  |              |  |                    |  |          |  |                 |
|                         | Aluminum Silver O4  |  |          |  |             |  |              |  |                    |  |          |  |                 |
|                         | White O6  |  |          |  |             |  |              |  |                    |  |          |  |                 |
|                         | Wooden Brown O7   |  |          |  |             |  |              |  |                    |  |          |  |                 |

#### Light Distribution



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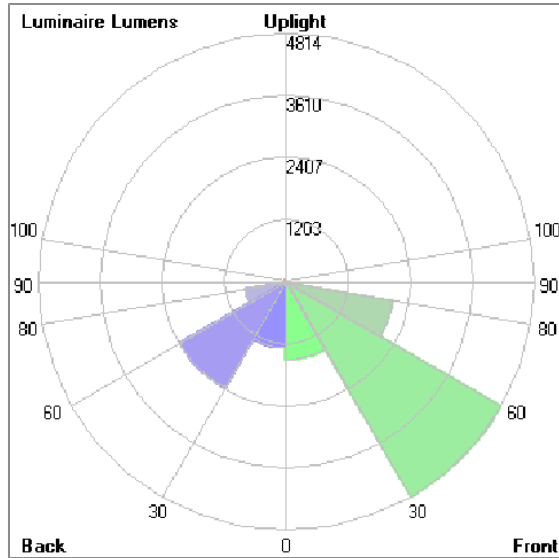
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### Bug Report



### Lum. Classification System [LCS]

| LCS        | Zone      | %Lumens  | %Lamp | %Lum  |
|------------|-----------|----------|-------|-------|
| FL         | [0-30]    | 1516.2   | 9.0   | 11.7  |
| FM         | [30-60]   | 4813.9   | 28.5  | 37.2  |
| FH         | [60-80]   | 2102.9   | 12.5  | 16.2  |
| FVH        | [80-90]   | 17.5     | 0.1   | 0.1   |
| BL         | [0-30]    | 1279.7   | 7.6   | 9.9   |
| BM         | [30-60]   | 2384.9   | 14.1  | 18.4  |
| BH         | [60-80]   | 792.6    | 4.7   | 6.1   |
| BVH        | [80-90]   | 16.5     | 0.1   | 0.1   |
| UL         | [90-100]  | 4.5      | 0.0   | 0.0   |
| UH         | [100-180] | 25.8     | 0.2   | 0.2   |
| Total      |           | 12954.5  | 76.8  | 100.0 |
| BUG Rating |           | B3-U2-G2 |       |       |

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