COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3380-11

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 715.04.02.00

FOR INTERNAL CDOT USE

Material code description full name: Lighting, Lamp

PART 1

Product name:	Product category:
Holophane LEDgend (LEDG 120 35 5K AS 2 H L1 R)	Lighting\Luminaire\LED
Product representative (name & address): Attn: Eric Lellbach Holophane Lighting 1980 Harmony Park Dr.. Westminster, CO 80234 Phone: (303) 519-0901 FAX:	Manufacturer (name & address): Attn: Dave Deck Holophane Lighting 3825 Columbus Rd.. Granville, OH 43023 Phone: (866) 759-1577 FAX:
Web-site address: www.holophane.com	Web-site address: www.holophane.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
Long life (105,000 hrs L70 @ 25°C), 120 LED roadway/ site light luminaire, with three different reflector photometric optics. Six sealed optical systems are rated for IP66 against water and dirt infiltration which ensures long component life and protection from the environment. Optional CCT average color temperature LED's ranging between 4000K-6000K are available. Surge protection devise is designed to meet ANSI/IEEEC62.41-2002 for category C high, 10kV, 5kA surge level. Prismatic glass optics provide minimal dirt depreciation and will not discolor or become brittle over time, resulting in more maintained lumens on the intended space. Solid state electronic drivers are multivolt120-277, 347-480 and have a rated life of 50,000 hours. Extended life driver option provides both main and auxiliary driver system extending system driver life to 100,000 hours minimum. The luminaire is a rugged die cast aluminum housing, low copper aluminum, allows for corrosion resistance and long life, and it is finished with a polyester powder paint applied after a pretreatment process to ensure maximum durability. This is a utility grade fixture with tool-less entry. Five year limited warranty on the LED light engine, LED drivers and non electrical components. Weight 28lbs. Please see additional test results below.

Restrictions, (installation and/or use):
Not for indoor use.

Use of the product, (be specific to CDOT highway activities only):
Roadway and Parking lot illumination.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
LEDgend is built to be the lowest total cost of life. That means lowest maintenance cost because of design and high quality components. With superior thermal management we have longer L70 ratings at higher temperature, that will lead to longer life and significantly less lumen depreciation and short life issues. With glass optics we will not run into optical issues that can impact the acrylics, such as degrading overtime from UV, static dirt attraction, and Mag Chloride.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- ☐ CDOT :
- ☐ ASTM :
- ☐ AASHTO :
- ☐ FHWA :
- ☒ other : ROHS Compliant , DesignLights Consortium approved

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☐ other :
- ☐ other :

State DOT Approvals, (current documentation required):

Sample submitted: ☐ yes ☒ no ☐ n/a | Materials Safety Data Sheets (MSDS): ☐ yes ☐ no ☒ n/a

Notes/Additional Comments
1000 hour salt test per ASTM B117 and D1654 standard / surge protection ANSI/IEEEC62.41-2002 for category C high, 10kV, 10kA surge level
CSA-C22.2 NUMBER250 for 40° C, wet location and UL1598 for 40°C / ANSI C 136.31 2001 for 100,000 cycles at 3.0G acceleration for normal road and bridge applications