architectural arealighting

ALN540

DECORATIVE & POST TOP

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

FEATURES

- Reliable, uniform, glare free illumination
- Types 2, 3, 4, 5, distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral surge suppression
- Upgrade Kits

See Certification Specifications

Towne Commons® LED

Towne Commons ALN445

SPECIFICATIONS

CONSTRUCTION

- Luminaire shall be cast A356 alloy aluminum, free of any porosity or cosmetic fillers. Castings shall be of uniform wall thickness, minimum .188 inch with no warping or mold shifting.
- The top cap shall hinge open by loosening two captive fasteners. The top shall seal the lamp compartment with a continuous silicone gasket. The lens shall be one-piece clear optical grade acrylic with a one-piece memory retentive silicone gasket on top and bottom. The LED and driver assembly shall be serviceable by backing out three thumb screws to allow for the light engine to be lifted out. Quick disconnects shall be used for all electrical connections.
- All internal and external hardware shall be stainless steel
- Fixture finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 2604-02 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance

LED/OPTICS

- The optical assembly shall be completely sealed with a one piece injection molded silicone gasket to prevent dust, insect or moisture contamination. The optical array shall consist of high brightness light emitting diodes mounted to a printed metal circuit board with precision injection molded optically clear lenses discretely coupled to each individual diode. The printed circuit board assembly shall have a uniform conformal coating with the exception of the optical output lens at each diode and be mechanically fastened to an anodized die-cast aluminum heat sink. Standard color temperatures shall be 3000K, 4000K and 5000K

INSTALLATION

- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury
- The top of the fixture shall hinge open for relamping by loosening two stainless steel fasteners
- Post top mounting: The fixture shall slip over a 4"/100mm O.D. pole or tenon and be secured to the pole with three (or six) stainless steel set screws
- Arm or wall mounting: The fixture shall be attached to the cast arm with three stainless steel bolts and a silicone gasket

ELECTRICAL

- All Luminaires shall accept 120 thru 277 volt input and have integral surge protection. Drivers shall be U.L recognized and have a 0-10v dimming interface with a dimming range of 10-100%. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. (Note: not compatible with current sourcing dimmers). Consult factory for current list of known compatible dimming systems. LifeShield™ shall be provided with all configurations for added protection in extreme temperature environments (-30°C to 60°C). The electrical assembly shall be mounted to a serviceable tray. The surge protector shall be U.L. recognized and have a sur ge current rating of 10,000 Amps using the industry standard 8/20uSec wave with a clamping voltage of 320V and surge rating of 372J. The surge protector case shall be a high-temperature, flame resistant plastic enclosure. The electrical assembly shall be installed and prewired in the fixture

CONTROLS

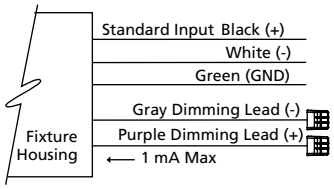
- SCP shall have an integral surge protection device with a currentt rating of 10,000 Amps using the industry standard 8/20uSec wave and sure rating of 372J
- Sensor not intended for use with additional photo-control, wireless control or dimming systems

CERTIFICATIONS

- ETL listed under UL 1598 and CSA C22.2 No. 250.0-08 for wet locations
- This product qualifies as a “designated country construction material” per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 6/06/2020

WARRANTY

- 5 year warranty



KEY DATA	
LUMEN RANGE	3,428–5,838
WATTAGE RANGE	75
EFFICACY RANGE (LPW)	46–78
INPUT CURRENT RANGE (mA)	700 mA
WEIGHT	35 lbs/15.9 kg / 40 lbs/18.1 kg
EPA	2.59 / 2.80

© 2022 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

architectural arealighting

ALN540

DECORATIVE & POST TOP

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

ORDERING GUIDE

Example: ALN540-Y2-32LED-3K-700-BLS-SBL-TRA3

CATALOG #

HOUSING

ALN540

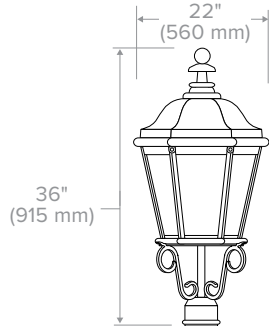
Luminaire		Distribution		Color Temp		Driver		Color		Options	
ALN540	Towne Commons LED, Arm or Post Top Mount	**Y2**	Type 2	**32LED-3K**	Warm White, 3000K output	**700**	700mA drive current, 75 watts	**BLS**	Black Gloss Smooth	**LDL**	Lightly diffused lens
ALN540D	Towne Commons LED, Top Mounted Arm or Pendant Mount	**Y3**	Type 3	**32LED-4K**	Neutral White, 4000K output			**BLT**	Black Matte Textured	**SBL**	Sandblast diffused lens
		Y4	Type 4	**32LED-5K**	Bright White, 3000K output			**DBS**	Dark Bronze Gloss Smooth	**HSS-L**	House side shield, consists of three field installed panels attached to the inside of the lens. Installing three panels blocks 180° of the lens
		Y5	Type 5					**DBT**	Dark Bronze Matte Textured	**MAT**	Mast arm adapter slips over a 2 3/8" / 60mm O.D. pipe and is secured with 4 stainless steel set screws. For ALN445D only.
								GTT	Graphite Matte Textured	**PMC**	Pendant kit includes canopy and 48" / 1220mm of brass chain painted the fixture color. For ALN445D only.
								LGS	Light Grey Gloss Smooth	**PMS**	Pendant mount with 48" / 1220mm stem and canopy with swivel. For ALN445D only.
								LGT	Light Grey Matte Textured	**PT4**	Post top adaptor for a 5" / 127mm O.D. pole.
								PSS	Platinum Silver Gloss Smooth		
								VGT	Verde Green Matte Textured		
								WHS	White Gloss Smooth		
								WHT	White Matte Textured		
								Color Option			
								CC [2]	Custom Color		

Control		Mounting
PCA-C	Contemporary photocell adapter, not for Wall Mount.	**Post Top Mount** The fixture shall slip over a 4"/100mm O.D. pole or tenon and be secured to the pole with three (or six) stainless steel set screws.
PCA-T	Traditional photocell adaptor, not for Wall Mount.	**Pole Side Mount** 4" O.D. or 5" O.D. slide mount
SCP	Sensor Control Programmable pole accessory is available to provide occupancy detection for outdoor application meeting California Title 24.	**ALN445** TRA1M TRA3 TRA5U TRA55 TRA56 (4" only) TRA57) TRA59U SLA8U SLA22U **ALN445D** TRA2M TRA2L SLA3 (4" only) SLA8D SLA22D **Pole Top Mount Arm** **ALN445** SLA1 SLA1-2 **ALN445D** TRA4 TRA7 TRA7-2 TRA8 TRA9 TRA9-2 SLA4 SLA4-2 SLA7 SLA7-2 SLA9 SLA9-2 SLA10 SLA10-2 SLA16 SLA16-2 SLA17 SLA17-2 SLA18 SLA18-2 **Wall Mount** **ALN445** WMA1M WMA1L WMA3 WMA35U WMA36U WMA55 WMA56 WMA57 WMA59U WMA22U **ALN445D** WMA2M WMA2L WMA37 WMA38 WMA39 WMA4 WMA6 WMA8 WMA9D WMA10 WMA11 WMA12 WMA16 WMA17 WMA18 WMA22D **Pier Mount** PM1 PM2 PM3

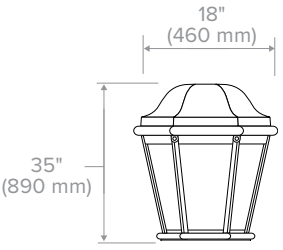
Notes:

1 Consult factory for custom color, marine and corrosive finish options

DIMENSIONS



ALN540



ALN540D

© 2022 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

DELIVERED LUMENS

The table below shows the delivered lumens for the various lumen outputs and beam distributions. Use this chart in connection with the lumen factor (LF) capability to deliver any output required.

LUMINAIRE PERFORMANCE – CLEAR LENS

LED #	Drive Current	Lumen Package	Lens	Distribution	3000K 70CRI					4000K 70CRI					5000K 70CRI				
					Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)	Lumen	Bug Rating			Efficancy (Lm/W)
						B	U	G			B	U	G			B	U	G	
32	700	5,000	Clear	Y2	4320	1	3	2	58	5489	2	2	3	73	5838	2	3	3	78
				Y3	4287	1	2	2	57	5445	2	3	2	73	5793	2	3	2	77
				Y4	4271	1	3	2	57	5427	1	3	3	72	5772	1	3	3	77
				Y5	3935	2	3	2	52	5002	3	3	2	67	5319	3	3	3	71
			LDL	Y2	4024	1	3	3	54	5112	2	4	3	68	5438	2	4	3	73
				Y3	4001	1	3	3	53	5082	1	4	3	68	5406	2	4	3	72
				Y4	4029	1	4	3	54	5118	1	4	3	68	5444	1	4	3	73
				Y5	3728	2	3	2	50	4735	2	4	3	63	5037	2	4	3	67
			SDL	Y2	3710	1	4	3	49	4713	1	4	3	63	5014	2	4	3	67
				Y3	3689	1	4	2	49	4687	1	4	3	62	4986	1	4	3	66
				Y4	3727	1	4	3	50	4734	1	4	3	63	5036	1	4	3	67
				Y5	3428	1	3	2	46	4355	2	4	3	58	4633	2	4	3	62

© 2022 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

PHOTOMETRY

ALN540-Y3-32LED-5K7-700

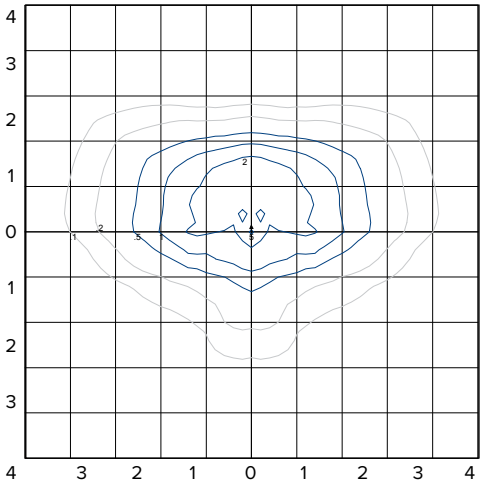
LUMINAIRE DATA

Description	**5000 Kelvin, 70CRI**
Delivered Lumens	**5793**
Watts	**74**
Efficacy	**78**
IES Type	**III**
BUG Rating	**B2-U3-G2**
Mounting Height	**14 ft**
Grid Scale	**14 ft**

ZONAL LUMEN SUMMARY

Forward Light			**Lumen**
FL	30°	4.1%	236.6%
FM	60°	34.1%	1973.7%
FH	80°	28.5%	1651.9%
FVH	90°	3.2%	182.6%
Back Light			
BL	30°	3.5%	201.5%
BM	60°	11.6%	671.0%
BH	80°	10.6%	614.0%
BVH	90°	2.5%	145.3%
Uplight			
UL	100°	1.1%	62.3%
UH	180°	0.9%	54.1%

ISOFOOT CANDLE PLOT



14' Mounting Height

ALN540-Y5-32LED-5K7-700

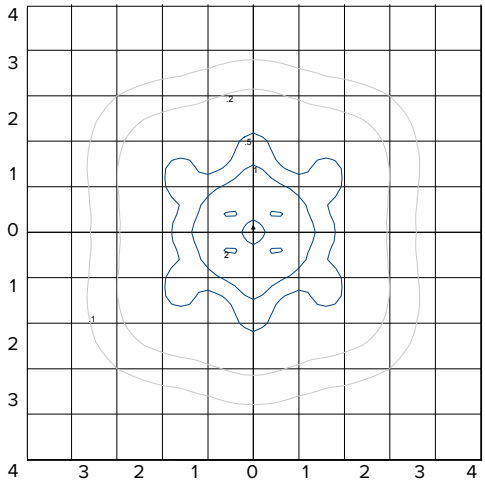
LUMINAIRE DATA

Description	**5000 Kelvin, 70CRI**
Delivered Lumens	**5319**
Watts	**73.8**
Efficacy	**72**
IES Type	**V**
BUG Rating	**B3-U3-G3**
Mounting Height	**14 ft**
Grid Scale	**14 ft**

ZONAL LUMEN SUMMARY

Forward Light			**Lumen**
FL	30°	3.6%	192.0%
FM	60°	16.6%	881.0%
FH	80°	24.1%	1281.6%
FVH	90°	4.6%	244.9%
Back Light			
BL	30°	3.6%	192.0%
BM	60°	16.6%	881.0%
BH	80°	24.1%	1281.6%
BVH	90°	4.6%	244.9%
Uplight			
UL	100°	1.6%	83.0%
UH	180°	0.7%	37.1%

ISOFOOT CANDLE PLOT



14' Mounting Height

ELECTRICAL DATA

TM-21 LIFETIME CALCULATION - PROJECTED LUMEN MAINTENANCE (25°C / 77°C)						
HOURS	0	25,000	50,000	TM-21-11 60,000	100,000	REPORTED L70
Projected Lumen Maintenance	100%	95.0%	93%	92%	89%	> 60,000

© 2022 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.