

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



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 surge 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

Towne Commons® LED



Towne Commons ALN440

CONTROLS

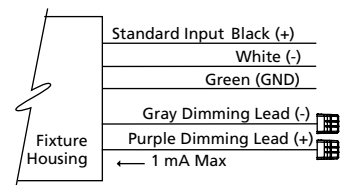
- Egress adapter(s) shall slip over a 4"/100mm DIA. pole with the luminaire or arm slipping over the adapter to add a total of 4.5"/114mm to the overall height. Adapter(s) shall be prewired, independently rotatable 359°, and have a cast access cover with an integral lens and lanyard
- Photocell adapter shall include an internal twist lock receptacle. Photocell by others
- Egress adapter shall require an auxiliary 120 volt supply for operation of an integral MR16 lamp in the event of emergency. The lamp may be aimed and locked into position with an adjustment range of 15°-45°. Adapter shall have a socket that accepts miniature bi-pin MR16 lamps up to 50 watts, lamp by others

CERTIFICATIONS

- ETL listed under UL 1598 and CSA C22.2 No. 250.0-08 for wet locations

WARRANTY

- 5 year warranty



KEY DATA	
LUMEN RANGE	3,310–5,736
WATTAGE RANGE	75
EFFICACY RANGE (LPW)	44–73
INPUT CURRENT RANGE (mA)	700 mA
WEIGHT	35 lbs/15.9 kg / 40 lbs/18.1 kg
EPA	2.59 / 2.80

ORDERING GUIDE

Example: ALN440-Y2-32LED-3K-700-BLS-SBL-TRA3

CATALOG #

HOUSING

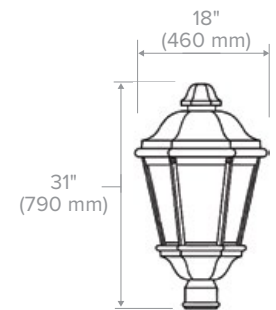
ALN440		Distribution		Color Temp		Driver		Color		Options												
ALN440 Towne Commons LED	Y2	Type 2	32LED-3K Warm White, 3000K output	700	700mA drive current, 75 watts	BLS Black Gloss Smooth	CHM Glass chimney with polished brass holder	CND 3-lamp candelabra with polished brass holder	LDL Lightly diffused lens	SBL Sandblast diffused lens	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											
	Y3	Type 3										32LED-4K Neutral White, 4000K output	BLT Black Matte Textured	DL Lightly diffused lens								
	Y4	Type 4													32LED-5K Bright White, 3000K output	DBS Dark Bronze Gloss Smooth	DBT Dark Bronze Matte Textured	GTT Graphite Matte Textured	LGS Light Grey Gloss Smooth	LGT Light Grey Matte Textured	PSS Platinum Silver Gloss Smooth	MAT Mast arm adapter slips over a 2 3/8" / 60mm O.D. pipe and is secured with 4 stainless steel set screws. For ALN440D only.
	Y5	Type 5																				
Color Option																						
PT5 Post top adaptor for a 5" / 127mm O.D. pole.																						

Control	Mounting
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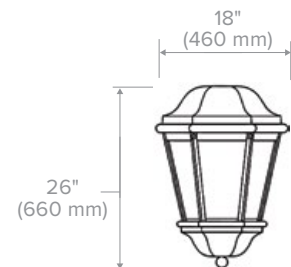
PCA-C Contemporary photocell adapter, not for Wall Mount.	Post Top Mount The fixture shall slip over a 4"/100mm O.D. pole or tenon and be secured to the pole with three (or six) stainless steel set screws.																																																																																							
PCA-T Traditional 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.	<p>ALN440</p> <table border="1"> <tr> <td>TRA1M</td> <td>TRA3</td> <td>TRA5U</td> <td>TRA55</td> <td>TRA56 (4" only)</td> <td>TRA57</td> <td>TRA59U</td> </tr> <tr> <td>SLA8U</td> <td>SLA22U</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>ALN440D</p> <table border="1"> <tr> <td>TRA2M</td> <td>TRA2L</td> <td>SLA3 (4" only)</td> <td>SLA8D</td> <td>SLA22D</td> <td></td> <td></td> </tr> </table> <p>Pole Top Mount Arm</p> <p>ALN440</p> <table border="1"> <tr> <td>SLA1</td> <td>SLA1-2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>ALN440D</p> <table border="1"> <tr> <td>TRA4</td> <td>TRA7</td> <td>TRA7-2</td> <td>TRA8</td> <td>TRA9</td> <td>TRA9-2</td> <td>SLA4</td> </tr> <tr> <td>SLA4-2</td> <td>SLA7</td> <td>SLA7-2</td> <td>SLA9</td> <td>SLA9-2</td> <td>SLA10</td> <td>SLA10-2</td> </tr> <tr> <td>SLA16</td> <td>SLA16-2</td> <td>SLA16</td> <td>SLA17</td> <td>SLA17-2</td> <td>SLA18</td> <td>SLA18-2</td> </tr> </table> <p>Wall Mount</p> <p>ALN440</p> <table border="1"> <tr> <td>WMA1M</td> <td>WMA1L</td> <td>WMA1L</td> <td>WMA3</td> <td>WMA35U</td> <td>WMA36U</td> <td>WMA55</td> </tr> <tr> <td>WMA56</td> <td>WMA57</td> <td>WMA59U</td> <td>WMA22U</td> <td></td> <td></td> <td></td> </tr> </table> <p>ALN440D</p> <table border="1"> <tr> <td>WMA2M</td> <td>WMA2L</td> <td>WMA37</td> <td>WMA38</td> <td>WMA39</td> <td>WMA4</td> <td>WMA6</td> </tr> <tr> <td>WMA8</td> <td>WMA9D</td> <td>WMA10</td> <td>WMA11</td> <td>WMA12</td> <td>WMA16</td> <td>WMA17</td> </tr> <tr> <td>WMA18</td> <td>WMA22D</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>Pier Mount</p> <table border="1"> <tr> <td>PM1</td> <td>PM2</td> <td>PM3</td> </tr> </table>	TRA1M	TRA3	TRA5U	TRA55	TRA56 (4" only)	TRA57	TRA59U	SLA8U	SLA22U						TRA2M	TRA2L	SLA3 (4" only)	SLA8D	SLA22D			SLA1	SLA1-2						TRA4	TRA7	TRA7-2	TRA8	TRA9	TRA9-2	SLA4	SLA4-2	SLA7	SLA7-2	SLA9	SLA9-2	SLA10	SLA10-2	SLA16	SLA16-2	SLA16	SLA17	SLA17-2	SLA18	SLA18-2	WMA1M	WMA1L	WMA1L	WMA3	WMA35U	WMA36U	WMA55	WMA56	WMA57	WMA59U	WMA22U				WMA2M	WMA2L	WMA37	WMA38	WMA39	WMA4	WMA6	WMA8	WMA9D	WMA10	WMA11	WMA12	WMA16	WMA17	WMA18	WMA22D						PM1	PM2	PM3
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- Notes:
- 1 Wild life friendly
 - 2 Consult factory for custom color, marine and corrosive finish options

DIMENSIONS



ALN440



ALN440D

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			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)	Lumen	Bug Rating			Efficacy (Lm/W)
						B	U	G			B	U	G			B	U	G	
32	700	5,000	Clear	Y2	4016	1	3	2	54	5156	2	2	3	69	5427	2	3	3	72
				Y3	3875	1	3	2	52	4975	2	3	2	66	5237	2	3	2	70
				Y4	4245	1	3	2	57	5449	1	3	3	73	5736	1	3	3	76
				Y5	3809	2	3	2	51	4945	3	3	2	66	5183	3	3	3	69
			LDL	Y2	3818	1	3	3	51	4902	2	4	3	65	5160	2	4	3	69
				Y3	3674	1	3	3	49	4716	1	4	3	63	4964	1	4	3	66
				Y4	4032	1	4	3	54	5176	1	4	3	69	5449	1	4	3	73
				Y5	3610	2	3	3	48	4685	2	4	3	62	4901	2	4	3	65
			SDL	Y2	3499	1	4	3	47	4492	1	4	3	60	4729	2	4	3	63
				Y3	3370	1	4	2	45	4327	1	4	3	58	4554	1	4	3	61
				Y4	3703	1	4	3	49	4754	1	4	3	63	5004	1	4	3	67
				Y5	3310	1	4	2	44	4292	2	4	3	57	4499	2	4	3	60

PHOTOMETRY

ALN440-Y3-32LED-5K7-700

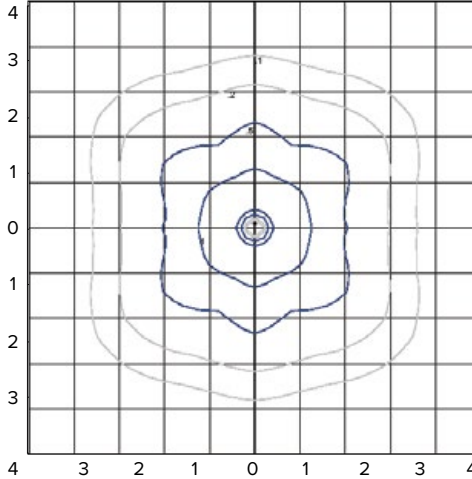
LUMINAIRE DATA

Description	5000 Kelvin, 70CRI
Delivered Lumens	5237
Watts	75
Efficacy	70
IES Type	III
BUG Rating	B2-U3-G2
Mounting Height	14 ft
Grid Scale	14 ft

ZONAL LUMEN SUMMARY

Forward Light			Lumen
FL	30°	2.4%	124.3%
FM	60°	34.5%	1804.4%
FH	80°	29.1%	1523.6%
FVH	90°	3.1%	163.2%
Back Light			
BL	30°	1.7%	90.7%
BM	60°	12.1%	631.5%
BH	80°	11.1%	582.8%
BVH	90°	2.5%	133.1%
Uplight			
UL	100°	1.0%	54.3%
UH	180°	2.5%	129.2%

ISOFOOT CANDLE PLOT



14' Mounting Height

ALN440-Y5-32LED-5K7-700

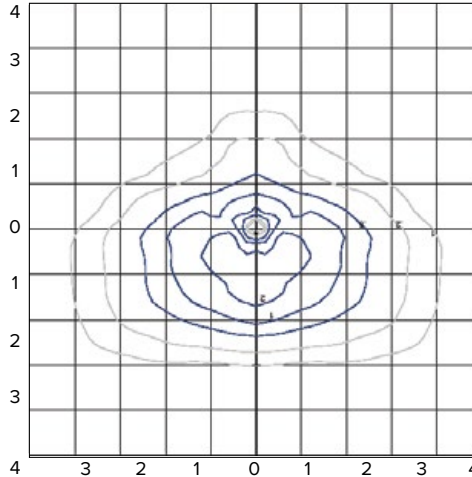
LUMINAIRE DATA

Description	5000 Kelvin, 70CRI
Delivered Lumens	5183
Watts	74.9
Efficacy	69
IES Type	V
BUG Rating	B3-U3-G3
Mounting Height	14 ft
Grid Scale	14 ft

ZONAL LUMEN SUMMARY

Forward Light			Lumen
FL	30°	1.9%	96.7%
FM	60°	16.2%	839.4%
FH	80°	25.8%	1336.3%
FVH	90°	4.4%	228.3%
Back Light			
BL	30°	1.9%	96.7%
BM	60°	16.2%	839.4%
BH	80°	25.8%	1336.3%
BVH	90°	4.4%	228.3%
Uplight			
UL	100°	1.6%	82.2%
UH	180°	1.9%	99.0%

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