

1965 SKI TIME SQUARE DRIN STEAMBOAT SPRINGS, CO 80487

REVISIONS:

NO DATE DESCRIPTION

PROJECT NUMBER: **123134.00** 

DATE: 10/04/2024 ISSUED FOR: 2024-10-04 D

2024-10-04 DP
SHEET TITLE:
SITE LIGHTING
PHOTOMETRIC

SHEET NUMBER
LI.100

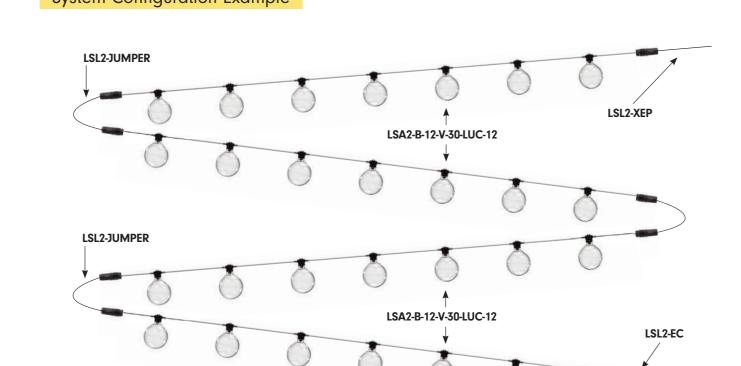
SL1

quality from start to finish

• The next evolution of ADAPT delivers a robust specification-grade strand with factory molded standard spacing for consistent

# **12V** Litesphere™ ADAPT 2.0

### **12V** Litesphere<sup>™</sup> ADAPT 2.0 System Configuration Example



Strand Order Guide Note: For suspension application, a catenary cable is required for proper installation. Please contact Tivoli for recommendations on unique mounting applications.

Product		Wire		S	pacin	g		LED Type		I	ED Color			Globe			ight ade*		V	oltage
LSA2 -			-					٧	-			]-			-			-		12
Litesphere	В	Black		12	12" C	C	٧			19	1900K		ANA	Ana		Υ	Yes	-	12	12V DC
ADAPT 2.0	W	W White**		<b>18</b> 18" OC	C	Output	Output	utput 2	27	2700K		VIC**	Victoria		Ν	No				
				24	24" C	C				30	3000K		GAB	Gaby						
					<b>36</b> 36" OC		C			35	3500K		BRE	Brenda						
			<b>48</b> 48" 0			' OC				40	4000K		LAU**	Laura						
										50	5000K		GIN	Gina						
Light Shade Access	ories									AM	Amber		ANG	Angela						
8.15F (RE) 8.5F (16)	Dish			Row	er					RB	Royal Blue		KAT	Katie						
	4		100	1,80° (3)  SHADE-FL-8K-8K-XX			0" (10) 3" (10)			RD	Red		SUS**	Susan						
X- W. W ADE-HT-BK-XX-XX	SHA	DE-DS-BK-BK-10								GN	Green		TON**	Toni						
= BK (black), CO* (copper) = 8 (8.3"), 13** (12.6")	10.2° Black	10.2" Black top, black bottom Weight: 0.76 lb		XX = 10 (9.8"), 15 (15.8") Black top, black bottom		(17)			YL	Yellow	LUC*	LUC**	Lucia							
ick top, black/copper bottom right: 0.46 lb (10), 1.2 lb (13)					Weight: 0.63 lb (10), 1.48 lb		(13)			TS	Turtle Safe		CG**	Varied Globes						

\*Light Shade are optional. Consult factory for lead time and available style and sizes - see page 13 \*\*Consult Factory for MOQ and Lead Time.

**LUMENLINEAR**<sup>TM</sup>

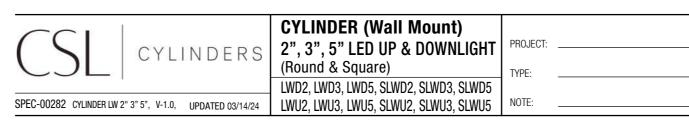
\*\*\* WAGNER\* 888-243-6914 // rfq@mailwagner.com

Tivoli, LLC. reserves the right to modify this specification without prior notice. Copyright © 2021 Tivoli 06.27.2024 www.tivolilighting.com tel: 714-957-6101 fax: 714-427-3458 DD1 AND DD2

POWER MULTIPLER CHART

**2 Inch** 0.60 0.80 1.00

**3 Inch** 0.56 0.70 0.83 1.00





2		nt Cylinder (I tandard Driver	Round & Squ Backplate	iare)		Mount Cylind th Standard Di	•	. ,	5" Wall Mount Cylinder (Round & Square) with Standard Driver Backplate			
	DOWNLIGH	T						LED LIGHT ENGINE				
	CIZE	MAX		LUMENS	@ 3500K			RATED WATTAGE	2" (10W-20W), 3" (15W-30W), 5" (15W-50W)			
	SIZE	POWER	10° Optic	30° Optic	50° Optic	80° Optic		DELIVERED LUMENS	Up to: 2" 2035 lm, 3" 3460 lm, 5" 5389 lm			
	2 Inch	20 Watt	1530 lm	1633 lm	1506 lm	1271 lm		CCT/CRI	2700K 90CRI, 3000K 90CRI, 4000K 80CRI, WARM DIM 98CF			
	2 Inch	20 Wott	2227 lm	0646 lm	0440 lm	2022 lm		COLOR OLIALITY	2700V 2500V 00 - CDL 2 Cton CDCM			

ncn	20 wa	π   15	30 IM	1633 IM	1506 IM	12/1 IM	CCT/CRI	2700K 90CKI, 3000K 90CKI, 4000K 80CKI, WAKIN D		
nch	30 Wa	tt 22	27 lm	2646 lm	2440 lm	2023 lm	COLOR QUALITY	2700K-3500K 90+ CRI, 2-Step SDCM		
nch	ch 50 Watt		77 lm	4252 lm	4228 lm	2858 lm	LED LIFETIME	55,000 hours @ L90		
DOWI	N LIGHT				·		SILENT VU™ OPTICS	S TECHNOLOGY		
75	MAX	UP &		LUMENS	© 3500K		OPTICS	10°, 30°, 50°, 80° Available		
ZE POWER		DOWN	10° Opti	c 30° Optic	50° Optic	80° Optic	ADJUSTABLE	Non Adjustable		
			833 lm	876 lm	826 lm	697 lm	MEDIA	Clear, Solite, Frosted, Linear Spread, Hex Louv		
nch	20 Watt	↓ DOWN	817 lm	835 lm	803 lm	651 lm	POWER SUPPLY	·		
		† UP	1259 lm	1465 lm	1322 lm	1116 lm				
nch	30 Watt	↓ DOWN	1200 lm	1419 lm	1278 lm	1079 lm	INPUT VOLTAGE	120/277V, 50/60Hz		
		↑ UP	2059 lm		1991 lm	1423 lm	DIMMING	Multiple Dimming Drivers Available		
nch	50 Watt				-		SERVICABILITY	Light Module and Driver Field Serviceable		
		↓ DOWN	2203 lm	2372 lm	2140 lm	1605 lm		'		
							STANDARD FINISH			

**CCT MULTIPLER CHART** WT (Semi Gloss White) MB (Matte Black) SIZE 2700K 90CRI 3000K 90CRI 3500K 90CRI 4000K 80CRI WARM DIM 98CRI All custom finishes available (see finishes sample page)

> Standard driver canopy mounts a 1 Gang junction box Alternative Driver canopy mounts to standard 4" round and square junction boxes 2" & 3" S Driver option rated for 3G vibration • Five (5) year limited warranty • 5" S Driver option rated for 1.5G vibration cULus Listed for Wet Location
>  All Housings rated for IP65 ingress protection 0.40 0.53 0.65 0.75 0.80 0.90 1.00 CULSTED WET LOCATION 40°C STRATIC TO THE COMPLIANT SORI OPTION ONLY INTERIOR SORI OPTIO

14508 Nelson Ave. City of Industry, CA 91744 • tel: 626.336.4511 • fax: 626.330.4266 • www.csllighting.com ©2024 Creative Systems Lighting, A Division of Troy-CSL Lighting, Inc. All rights reserved. Subject to change without notice.

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to

electrolysis from heat, corrosive atmospheres and moisture.

Optics & LED
Precise optic design provides exceptional light control and
precise distribution of light.
LED CRI > 80

<u>Lumen - Maintenance Life</u> L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

CREATIVE SYSTEMS LIGHTING

CYLINDER (Wall Mount) 2", 3", 5" LED UP & DOWNLIGHT (Round & Square) SPEC-00282 CYLINDER LW 2" 3" 5", V-1.0, UPDATED 03/14/24 LWU2, LWU3, LWU5, SLWU2, SLWU3, SLWU5 NOTE:

#### 2" WALL MOUNT ORDER MATRIX

SHAPE	WATTAGE		CCT/CRI		OPTIC		MEDIA 1		MEDIA 2
Wall Downlight 2" Round  SLWD2 Wall Downlight 2" Square	-10 (10W) -15 (15W) -20 (20W)	* Media 1 le 10°, 30°,	(2700K 90CRI) (3000K 90CRI) (3500K 90CRI) (4000K 80CRI)  f (Warm Dim 98CRI) ns required. For WD with 50° Optic use MP (Solite WD with 80° Optic use FR ens).	-10 -30 -50 -80*	(10° Spot) (30° Narrow Flood) (50° Flood) (80° Wide Flood) *WD with 80 degree optic not CA title 24 compliant.	(blank)   CL	(Clear Lens) (Solite Lens) (Frosted Lens) (Linear Spread Lens)	CL MP FR LS	(None) (Clear Lens) (Solite Lens) (Frosted Lens) (Linear Spread Lens)
STANDARD FINISH	COASTAL COA	ATING	REVISION	STANDARD DRIVER					
-WT (Semi Gloss White)	(blank) (None)	)		☐ -s	(Universal Dim Dri	/er: 1%-100	0% 0-10V, TRIAC, ELV,	120V/277V)	
-MB (Matte Black)	Coasta	al Coating)				ALTE	RNATIVE DRIVER		
(See Page 5 for Color Finish Codes)				-L3 -EL1 -EL2 -DMX	(EldoLED DALI Din (EldoLED Dim: 0.7	m: 1%-100 1%-100% ( 00% DMX,	% EcoSystem, 120V/2 % DALI, 120V/277V) 0-10V, 120V/277V) 120V/277V)	,	

2" CYLINDER LED UP & DOWNLIGHT WALL MOUNT (EXAMPLE: LWU2-10-27-30-10-27-30-CL-CL-WT-5-S)											
SHAPE	WATTAGE	CCT/CRI	† UP-OPTIC	↑ UP-MEDIA 1	↑ UP-MEDIA 2						
LWU2	10 (10W)			(blank) (None)	(blank) (None)						
Wall Up & Downlight	-15 (15W)	30 (3000K 90CRI)	-30 (30° Narrow Flood)	CL (Clear Lens)	CL (Clear Lens)						
2" Round	- <b>20</b> (20W)	-35 (3500K 90CRI)	<b>-50</b> (50° Flood)	MP (Solite Lens)	MP (Solite Lens)						
SLWU2		-40 (4000K 80CRI)		FR (Frosted Lens)	FR (Frosted Lens)						
Wall Up & Downlight		-WD* (Warm Dim 98CRI)  * Media 1 lens required. For WD with	-80* (80° Wide Flood)  *WD with 80 degree optic	LS (Linear Spread Lens)	LS (Linear Spread Lens)						
2" Square		10°, 30°, 50° Optic use MP (Solite Lens). For WD with 80° Optic use FR (Frosted Lens).	not CA title 24 compliant.	HEX (Hex Louver)	Holds 1 Media only when HEX selected						

SLWU2 Wall Up & Downlight 2" Square		<b>-20</b> (20	´   L   *	-40 (4000K 800 -WD* (Warm Dim Media 1 lens required. For V 10°, 30°, 50° Optic use MF Lens). For WD with 80° Opt (Frosted Lens).	98CRI) -80* ( VD with *W (Solite no		(50° Flood) (80° Wide Flood) VD with 80 degree opt not CA title 24 complian	tic	 F L	R (Fr	osted Lens) near Spread Lens) ex Louver)	FR (Frosted Lens)  LS (Linear Spread Lens)  Holds 1 Media only when HEX selected		
↓ DOWN-MEDIA 1			‡ D	OOWN-MEDIA 2	STANDARD FINISH		COASTAL COATING	REVISION			DRIVER			
-10 (10°)	(blank) (Nor	ne) ar Lens)	(bla	ank) (None) L (Clear Lens)	Semi Gl	oss White)	(blank) (None)	(Rev	<b>-5</b> /ision)	□ -s		iver: 1%-100%	0-10V, TRIAC, ELV, 120V/277V)	
(30°)  -50 (50°)	FR (Fros	te Lens) sted Lens) ar Spread Lens)	☐ MI	R (Frosted Lens)	(Matte I		-C (Coastal Coating)			-L	L1 (EldoLED DAL	J Dim: 1%-1	% EcoSystem, 120V/277V) 00% DALI, 120V/277V) % 0-10V, 120V/277V)	
- <b>80</b> (80°)	HEX (He	ex Louver)	Holds	ds 1 Media only when HEX selected	(See Pag Finish Co	ge 5 for Color odes)				☐ -D	MX (DMX Dim: 1° Ambient temperat	%-100% DM	IX, 120V/277V)	
ACCESSOF	RIES (2" CYL	INDER)				EMERGI	ENCY							
OPTIC MEDIA										D	RIVER			

ACCESSORIES (2	" CYLINDER)			E	EMERGENCY							
OPT	IC	MEDIA			DRIVER							
C2-10-OPTIC	(10° Spot)	C2-CL	(Clear Lens)		☐ EM-1000	(25W Remote Inverter)	M-1003-CA	(35W Remote Inverter) Title 20				
C2-30-0PTIC	(30° Narrow Flood)	C2-MP	(Solite Lens)		☐ EM-1002	(10W Remote EM Driver)	EM-1004	(50W Remote Inverter)				
C2-50-0PTIC	(50° Flood)	C2-FR	(Frosted Lens)				<b>EM-1006</b>	(25W Remote Inverter) Title 20				
	(	C2-LS	(Linear Spread Lens)	L								
C2-80-OPTIC	(80° Wide Flood)	C2-HEX	(Hex Louver)									

14508 Nelson Ave. City of Industry, CA 91744 • tel: 626.336.4511 • fax: 626.330.4266 • www.csllighting.com ©2024 Creative Systems Lighting, A Division of Troy-CSL Lighting, Inc. All rights reserved. Subject to change without notice.

**More Custom Finishes Available Upon Request** 

Consult factory for pricing and lead times

## >> WAGNER

Tivoli, LLC. reserves the right to modify this specification without prior notice

Copyright © 2021 Tivoli 06.27.2024

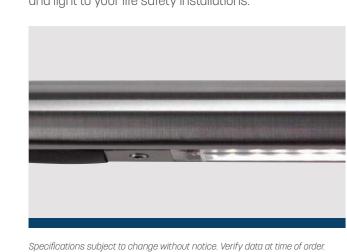




### LINEAR LUMINAIRE

Our linear product is a state-of-the-art, low-voltage LED light fixture that

• Industry leading output: provides exceptional lighting performance to enhance any stairway, ramp or walkway application. Its soft light provides ample illumination for safety and ambiance without the glare or harshness of overhead lighting. Available • Available in: 140, 152, 284 or 413 lpf with warm, neutral or cool white color temperatures, and a range of solid color options for static hues. Standard low, mid and high output offerings make Lumenlinear a highly flexible and practical solution for adding beauty and light to your life safety installations.

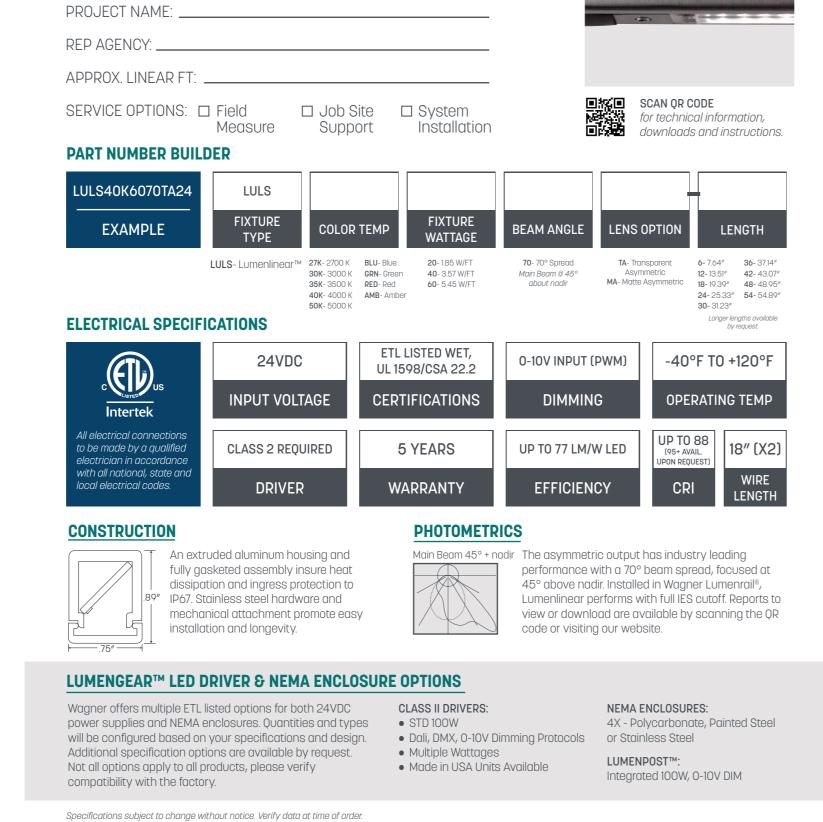


70° asymmetric @ 45° above nadir Matte and transparent lens options

www.tivolilighting.com tel: 714-957-6101 fax: 714-427-3458

- (4000 K Values) • IES full cutoff classification when installed in Wagner Architectural Systems handrail Fully gasketed, extruded aluminum housing
- ETL wet location listed, UL1598 certified 5 year warranty Cast 316 stainless steel, mechanical
- mounting, secure but easily serviceable CCT standard in 5 white options 4 solid color options including wildlife amber
- Up to 88 CRI standard, 95+ available upon request
- 9 standard lengths from 6" to 54"

© 2021 R&B Wagner, Inc. All Rights Reserved. WagnerCompanies.com LULSA SUBM R7



10600 West Brown Deer Road // Milwaukee, WI 53224, USA

Page 2 of 2

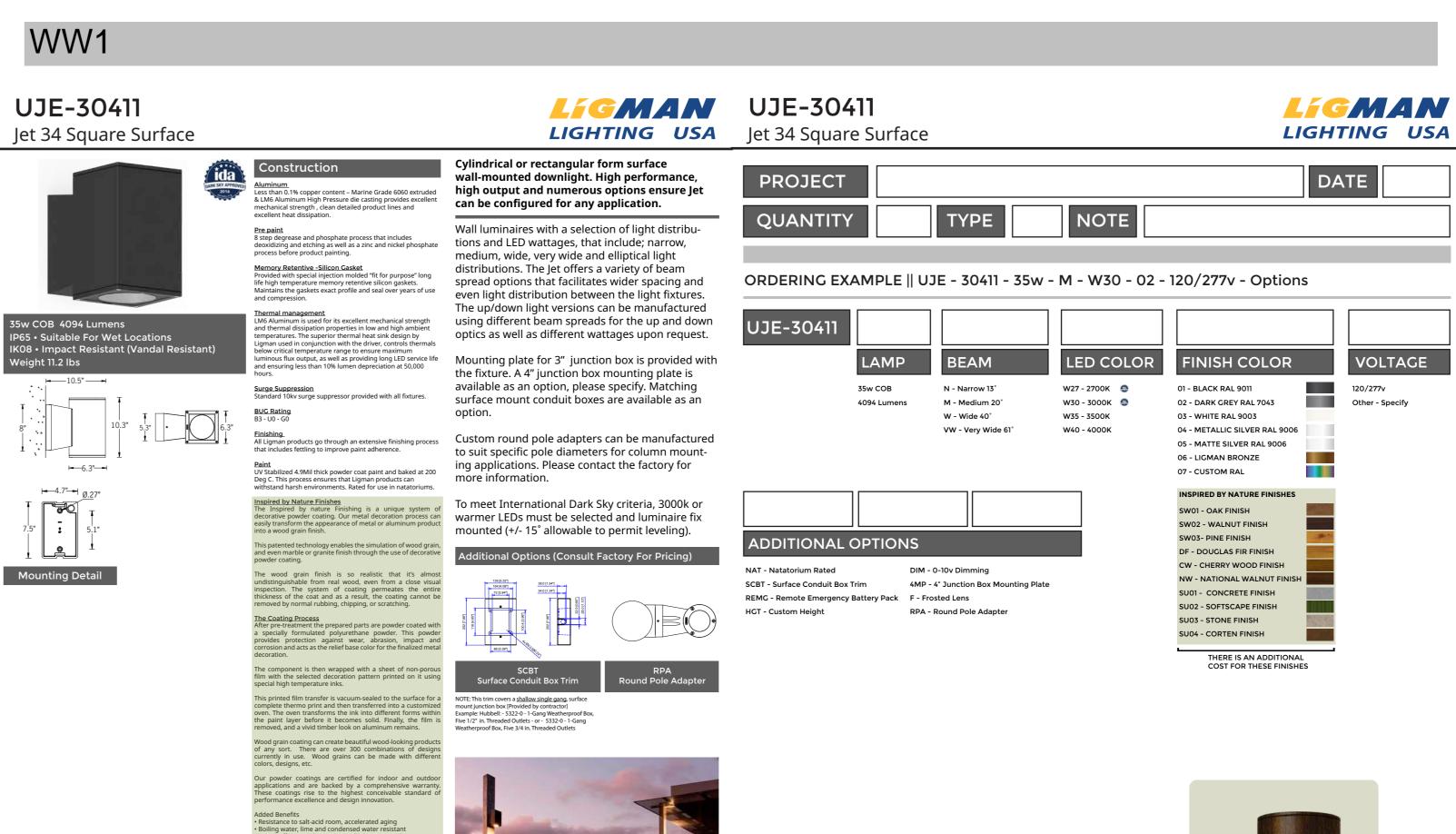
WagnerCompanies.com

LULSA SUBM R7

© 2021 R&B Wagner, Inc. All Rights Reserved.

Another Lumenrail® Component

for Life Safety and Light



PROJECT NUMBER: 123134.00 DATE: 10/04/2024

C

Ш

 $\geq$ 

S

9

5

**REVISIONS:** 

NO DATE DESCRIPTION

80487

ISSUED FOR: 2024-10-04 DP SHEET TITLE: **BUILDING LIGHTING -CUTSHEETS - 1** 

SHEET NUMBER

2x35w COB 2x4094 Lumens

**⊢**——10.3" ——**—** 

<del>---</del>6.3"<del>---</del>1

Jet 38 Square Surface Up/Downlight

PROJECT

t thermal dissipation properties in low and high ambient operatures. The superior thermal heat sink design by man used in conjunction with the driver, controls thermals Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

that includes fettling to improve paint adherence. <u>Paint</u>
UV Stabilized 4.9Mil thick powder coat paint and baked at 200

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

<u>Hardware</u> Provided Hardware is Marine grade 316 Stainless steel. electrolysis from heat, corrosive atmospheres and moisture High Impact UV Stabilized Polycarbonate Lens

Lumen - Maintenance Life L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Cylindrical or rectangular form surface wall-mounted downlight. High performance, minum. s than 0.1% copper content - Marine Grade 6060 extruded high output and numerous options ensure Jet can be configured for any application.

Wall luminaires with a selection of light distributions and LED wattages, that include; narrow, medium, wide, very wide and elliptical light distributions. The Jet offers a variety of beam spread options that facilitates wider spacing and even light distribution between the light fixtures. The up/down light versions can be manufactured using different beam spreads for the up and down optics as well as different wattages upon request. critical temperature range to ensure maximum ous flux output, as well as providing long LED service life

Mounting plate for 3" junction box is provided with the fixture. A 4" junction box mounting plate is available as an option, please specify. Matching

surface mount conduit boxes are available as an Einishing.
All Ligman products go through an extensive finishing process

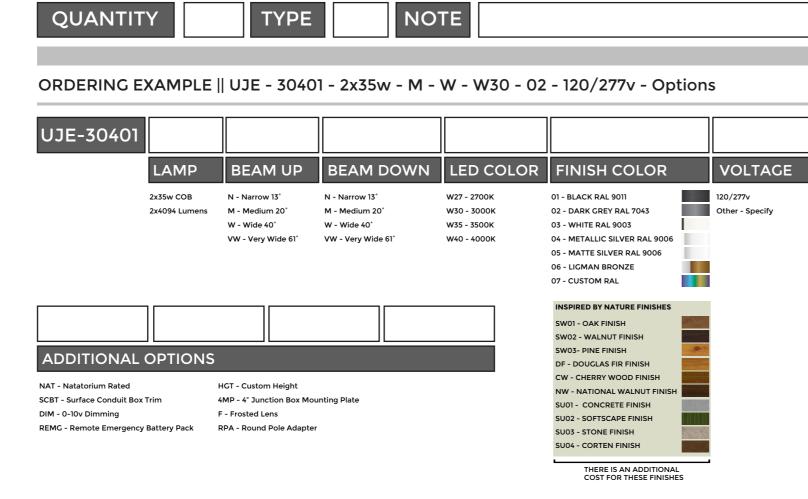
Custom round pole adapters can be manufactured to suit specific pole diameters for column mount-

ing applications. Please contact the factory for more information. For the cylindrical downlight option, see Jet 35, 37 and 51. For type II, III & IV distributions, see Tango

For RGBW options, see Jet 51 to 54.

29 to 32 surface wall luminaires.







ORDERING EXAMPLE || ULEE - 30021 - 20w - T2 - W30 - 02 - 120/277v - Options

T3 - Type III Distribution W35 - 3500K

T4 - Type IV Distribution W40 - 4000K

T2 - Type II Distribution

ME - Type ME Distribution

EW - Extra Wide 109°x102°

M - Medium 30°

W - Wide 56°

AMB - Turtle Friendly Amber LED

HCL - Honeycomb Louvre

4MP - 4" Octagonal J-Box Mounting Plate



DATE





**ULEE-30021** Leeds 6 Large Surface Downlight

8.5"

TECHNOLOGY

LIGHTING USA

ULEE-30021 Leeds 6 Large Surface Downlight

PROJECT

ULEE-30021

ADDITIONAL OPTIONS

NAT - Natatorium Rated

F - Frosted Lens

DIM - 0-10v Dimming

SCBT - Surface Conduit Box Trim

TECHNOLOGY

LED COLOR

W30 - 3000K 🥮

**FINISH COLOR** 

01 - BLACK RAL 9011

03 - WHITE RAL 9003

06 - LIGMAN BRONZE

SW01 - OAK FINISH SW02 - WALNUT FINISH

SW03- PINE FINISH

DF - DOUGLAS FIR FINISH

CW - CHERRY WOOD FINISH

SU01 - CONCRETE FINISH

SU02 - SOFTSCAPE FINISH

SU03 - STONE FINISH

SU04 - CORTEN FINISH

NW - NATIONAL WALNUT FINISH

07 - CUSTOM RAL

02 - DARK GREY RAL 7043

04 - METALLIC SILVER RAL 9006

INSPIRED BY NATURE FINISHES

05 - MATTE SILVER RAL 9006

<sup>5</sup>MAN **LIGHTING USA** 

**VOLTAGE** 

Other - Specify

Aluminum
Less than 0.1% copper content - Marine Grade 6060 extruded & most powerful and flexible lighitng tool of its M6 Aluminum High Pressure die casting provides excellent echanical strength, clean detailed product lines and excellent type, offering packages up to 4000 lumens and microVos technology.

less than 10% lumen depreciation at 50,000 hours.

BUG Rating B1 - U0 - G0 [EW, T2, T4] B1 - U0 - G1 [ME, T3, T1] B2 - U0 - G0 [M, W]

After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and provides protection against wear, abrasion, impact and provides and acts as the relief hase color for the finalized metal

TECHNOLOGY Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity. en. The oven transforms the IRIK IRIC different forms and mount junction box (provided by Colladecon) e paint layer before it becomes solid. Finally, the film is emoved, and a vivid timber look on aluminum remains.

mount junction box (provided by Colladecon) Example: Hubbell: -5322-0 - 1-Gang Weatherproc Box, Five 1/2" in. Threaded Outlets - or - 5332-0 - 1000 for - 5332-0 - 1000 fo applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of

The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.

• Resistance to salt-acid room, accelerated aging
• Boiling water, lime and condensed water resistant
• Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch hybrid distributions for precise lighting requirements.

Hardware Provided Hardware is Marine grade 316 Stainless steel. Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture <u>Crystal Clear Low Iron Glass Lens</u> Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge. Optics & LED
Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80 <u>Lumen - Maintenance Life</u> L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Clean, beautiful, surface wall fixtures with class leading performance. Minimalist form, yet the

step degrease and phosphate process that includes bxidizing and etching as well as a zinc and nickel phosphate A range of small, square and rectangular, ADA compliant wall mounted luminaires with options of Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life

upward or downward light distributions. Ideally y retentive silicon gaskets. Maintains suited to illuminate the wall and surfaces in front of ugh temperature memory recentive sincon gaskets manufactures and the gaskets exact profile and seal over years of use and wall and for light accents on vertical surfaces using high efficiency LED's. The Leeds is suitable for Line Alluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumps described learners at 150 000 hours.

This luminaire is available in 3 different sizes and in Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

Combinations of down, up or up/down light distributions.

This fixture utilizes microVos technology, meaning the ability to do Type I,II,III,IV & V distributions as Einishing.
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

well as hybrid distributions to suit the designer's requirements.

C. This process ensures that Ligman products can stand harsh environments. Rated for use in natatoriums.

Using the microVos optics allows for very wide spacing to mounting height ratios, while still pired by Nature Finishes
Inspired by nature Finishes
Inspired by nature Finishing is a unique system of corative powder coating. Our metal decoration process can light tansform the appearance of metal or aluminum product or a wood grain finish.

atented technology enables the simulation of wood grain, yen marble or granite finish through the use of decorative warmer LEDs must be selected and luminaire fix The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual nspection. The system of coating permeates the entire hickness of the coat and as a result, the coating cannot be moved by normal rubbing, chinning, or scratching.

More Custom Finishes Available Upon Request Consult factory for pricing and lead times 



WW5

10w LED 780 - 982 Lumens

<u>.</u>. |**-** 4.3" **-**|

•

AMB Spectral Diagram

UGI-31641 Gino 4 Type I, II, III, IV & V Downlight

Façade-mounted building and area lighting range. Sleek, compact and expansive luminaire Aluminum
Less than 0.1% copper content - Marine Grade 6060 extruded 
& LM6 Aluminum High Pressure die casting provides excellent 
mechanical strength , clean detailed product lines and

family with lighting packages and optics to 
address any need.

deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

mounted luminaires with options of upward or downward light distributions. Ideally a significant distributions. Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long
life high temperature memory retentive silicon gaskets. tains the gaskets exact profile and seal over years of use and compression. Thermal management LM6 Aluminum is used for its excellent mechanical not be the most office the mos

<u>Surge Suppression</u>
Standard 10kv surge suppressor provided with all fixtures.

withstand harsh environments. Rated for use in natatoriums. <u>Inspired by Nature Finishes</u>

The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process cal isily transform the appearance of metal or aluminum produc to a wood grain finish. The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be emoved by normal rubbing, chipping, or scratching. specially formulated polyurethane powder. This powder wides protection against wear, abrasion, impact and ne component is then wrapped with a sheet of non-porous m with the selected decoration pattern printed on it using

f any sort. There are over 300 combinations of designs urrently in use. Wood grains can be made with different olors, designs, etc. Our powder coatings are certified for indoor and outdoor pplications and are backed by a comprehensive warranty, hese coatings rise to the highest conceivable standard of erformance excellence and design innovation. Resistance to salt-acid room, accelerated aging
 Boiling water, lime and condensed water resistant
 Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch Super durable (UV restant) TGIC free (non-toxic) Hardware
Provided Hardware is Marine grade 316 Stainless steel. Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture. Crystal Clear Low Iron Glass Lens

Lumen - Maintenance Life L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

**LiGMAN** UGI-31641

LIGHTING USA Gino 4 Type I, II, III, IV & V Downlight PROJECT TYPE **QUANTITY** A range of small, square and rectangular wall

ADDITIONAL OPTIONS

4J - Mounting Plate for 4" Junction Box

NAT - Natatorium Rated

F - Frosted Lens

DIM - 0-10v Dimming

downward light distributions. Ideally suited to illuminate the wall and surfaces in front of wall and for light accents on vertical surfaces using high ORDERING EXAMPLE | UGI - 31641 - 10w - T2 - W30 - 02 - 120/277v - Options efficiency LED's. The Gino is suitable for indoor and outdoor applications and provides a clean, visually appealing solution for small, unobtrusive wall mounted luminaires. This luminaire is available in 2 different sizes and in combinations of down, up or up/down light distributions. The Gino 1 and Gino 2 have a

The Gino 1 and 2 mounts over a 3" octagonal junction box, a 4" j-box cover plate is available Einishing.
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

upon request. Frosted or clear lenses are available. To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected and luminaire fix

decorative spike option for added lighting effects.

mounted (+/- 15° allowable to permit leveling). onal Options (Consult Factory For Pricing) 127.7 [5.03"] 142 [5.59"] SCBT - Surface Conduit Box Trim AMB - Turtle Friendly Amber LED

glass ensuring no green glass tinge. ecise optic design provides exceptional light control and

**More Custom Finishes Available Upon Request** Chestnut Bamboo Example: Inspired by Nature Finish

NOTE

ED COLOR

T1 - Type I Distribution - 780lm W27 - 2700K 🤩

T2 - Type II Distribution - 791lm W30 - 3000K 🔮

T3 - Type III Distribution - 829lm W35 - 3500K

T4 - Type IV Distribution - 820lm W40 - 4000K

M - Medium 30° - 982lm

VW - Very Wide 65° - 950lm

EW - Extra Wide 98°x118° - 866lm

W - Wide 51° - 936lm

INISH COLOR

04 - METALLIC SILVER RAL 9006

NSPIRED BY NATURE FINISHES

05 - MATTE SILVER RAL 9006

01 - BLACK RAL 9011

03 - WHITE RAL 9003

06 - LIGMAN BRONZE

07 - CUSTOM RAL

SW01 - OAK FINISH

SW03- PINE FINISH

SW02 - WALNUT FINISH

DF - DOUGLAS FIR FINISH

SU01 - CONCRETE FINISH

SU03 - STONE FINISH

SU04 - CORTEN FINISH

SU02 - SOFTSCAPE FINISH

CW - CHERRY WOOD FINISH

NW - NATIONAL WALNUT FINISH

THERE IS AN ADDITIONAL COST FOR THESE FINISHES

02 - DARK GREY RAL 7043



structura

S

6

5

**REVISIONS:** 

NO DATE DESCRIPTION

LIGMAN

LIGHTING USA

VOLTAGE

120/277v

DATE

### BB1

Narrow-Spectrum Amber LEDs

power no greater than 15 nanometers.

Mac II Wood Body LED Bollard

structura



Glulam solid wood bollard with LED light source. **FEATURES:**  High power, low wattage LED light module Solid glulam wood construction Concealed anchor bolt base and mounting hardware

**SPECIFICATIONS:** 

concrete pour template.

HOUSING: Solid wood bollard is assembled through glulam construction and precision machined using CNC technology. Adhesive complies with ASTM D-2559 glulam construction specifications for extreme exposed weather conditions and is waterproof and rated for wet or dry use exposure. Driver compartment and baseplate concealed within metal base

**ELECTRICAL**: Powered by a Class P 120-277VAC primary integral power supply. Standard output is 12W. Fixture is internally prewired to the electrical splice box located in the fixture base. System is 0-10V dimmable. Minimum -40°C operating temperature. OPTICAL SYSTEM: LED boards have solderless connections for field

upgradability. Available in 2700K, 3000K, 3500k and 4000K color

temperatures with >90 CRI. Optics are UV resistant molded PMMA

in Type III, IV, and V distributions. Consult factory for additional

portion with tamper-resistant hardware. Anchor bolt kit includes (4) hot dip galvanized anchor bolts and fasteners and a ridged

lumen output, CCT, and optical distribution options. FINISHES AND MATERIALS: Woods are finished with a low VOC waterborne matte exterior finish containing UV and mildew inhibitors. All exterior aluminum parts are polyester powder coat painted. <u>Care and Maintenance</u>

62 ©2023 STRUCTURA, INC.



HARDWARE: Fasteners are stainless steel. Anchor bolt kits are hot

LISTINGS & RATINGS: Luminaire CSA listed according to CSA C22.2 No. 250.0-18/UL Standard 1598. Suitable for wet locations. LM-80 test reported L70 > 60,500 hours and calculated L70 > 154,000

CONDUIT OPENING ORDERING GUIDE: EXAMPLE: MAC II-42-L2750-5-55-C7-UNV-STD

1 Series 4 Light Source<sup>(1)</sup> 7 Metal Finish See color options on finishes technical sheet CSM Overall Height Distribution Custom Color Voltage UNV 120-277V Color Temperature L27 L30 L35 2700K LED Wood Finish 3000K LED 3500K LED See color options on MOD **L40** 4000K LF **AMB** Amber 4000K LED finishes technical sheet

2. Type III Rotated optics requires bollard to be rotated so that the short side is towards the sidewalk Product specification sheets subject to change.

©2023 STRUCTURA, INC. 63

PROJECT NUMBER: 123134.00

ISSUED FOR: 2024-10-04 DP SHEET TITLE: BUILDING LIGHTING -

CUTSHEETS - 2

SHEET NUMBER

DATE:

10/04/2024

PP3

DD-50172 - 54w COB 6310lm

D-50173 - 60w COB 6890lm

THREADS PIPE 1/2-14 350°

9.8" 5.6"

Odessa 15 Large Floodlight Threaded Knuckle Mount

Aluminum Casting

Less than 0.1% copper content – Marine

Pressure die casting provides excellent

lines and excellent heat dissipation.

Memory Retentive -Silicon Gasket

use and compression.

Surge Suppression

improve paint adherence.

and baked at 200 Deg C.

<u>Hardware</u>

moisture.

glass tinge.

with all fixtures.

<u>Thermal management</u>

Grade 6060 extruded & LM6 Aluminum High

zinc and nickel phosphate process before

Provided with special injection molded "fit for

purpose" long life high temperature memory

retentive silicon gaskets. Maintains the

LM6 Aluminum is used for its excellent

emperatures. The superior thermal heat

sink design by Ligman used in conjunction

maximum luminous flux output, as well as providing long LED service life and ensuring

Standard 10kv surge suppressor provided

All Ligman products go through an extensive

UV Stabilized 4.9Mil thick powder coat paint

This process ensures that Ligman products

Provided Hardware is Marine grade 316

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and

<u>Crystal Clear Low Iron Glass Lens</u> Provided with tempered, impact resistant crystal clear low iron glass ensuring no green

Precise optic design provides exceptional light control and precise distribution of light.

L80 /B10 at 50,000 hours (This means that at

least 90% of the LED still achieve 80% of their

<u> Lumen - Maintenance Life</u>

can withstand harsh environments.

Rated for use in natatoriums.

Anti Seize Screw Holes

finishing process that includes fettling to

with the driver, controls thermals below

properties in low and high ambient

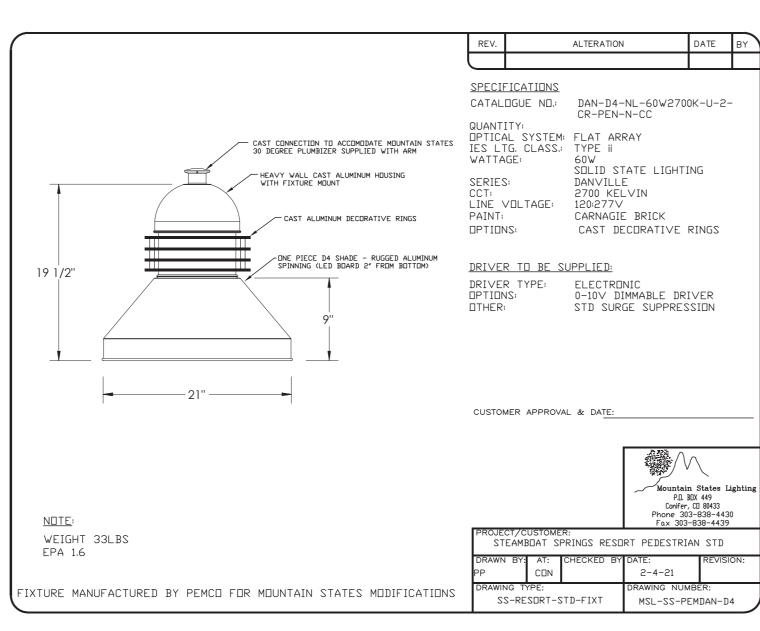
critical temperature range to ensure

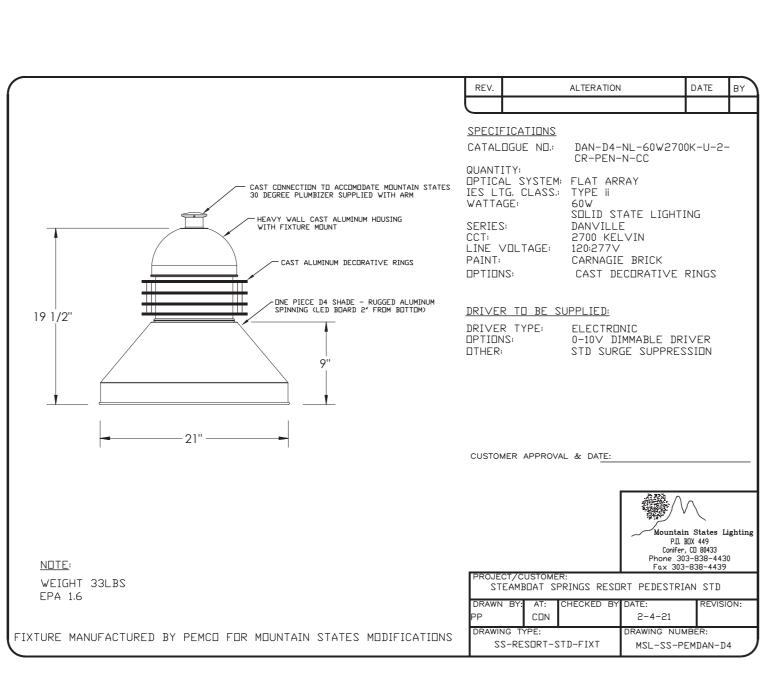
Stylish adjustable projector range.

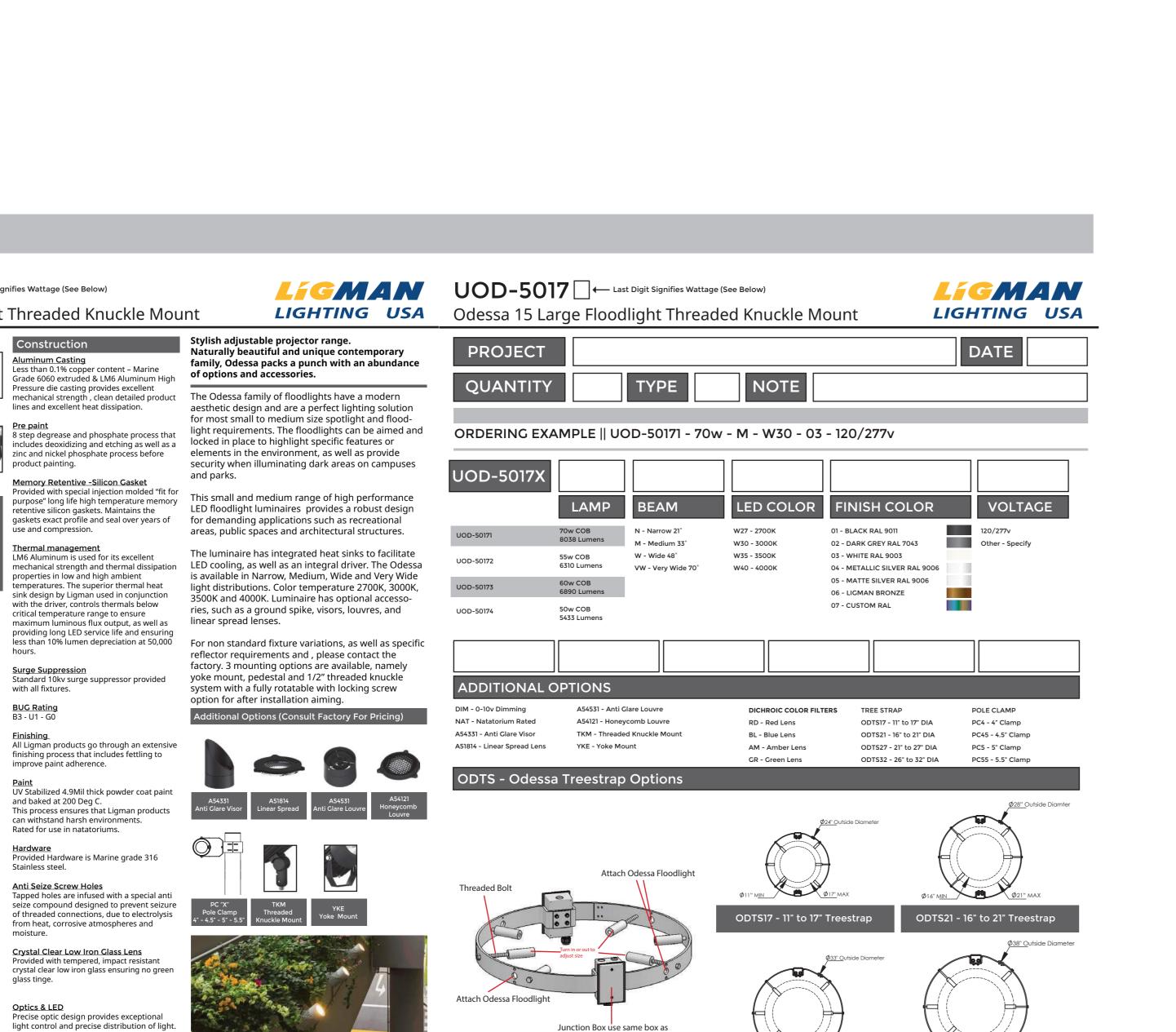
of options and accessories.

linear spread lenses.

option for after installation aiming.

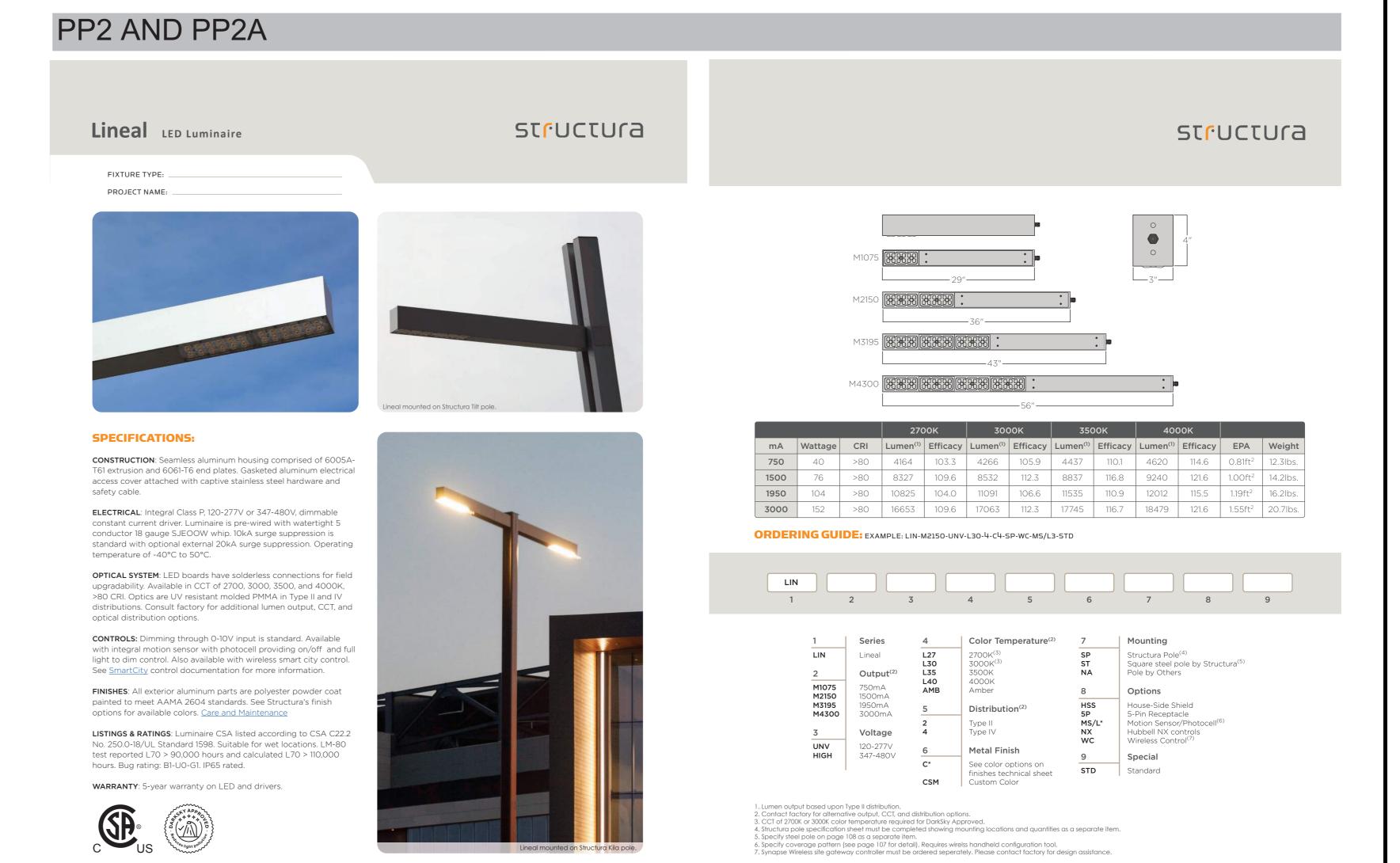






DDTS32 - 26" to 32" Treestrap

GFCI box in pole



Product specification sheets subject to change.



104 ©2024 STRUCTURA, INC.



©2024 STRUCTURA, INC. 105

**REVISIONS:** NO DATE DESCRIPTION

PROJECT NUMBER: 123134.00

10/04/2024 ISSUED FOR: 2024-10-04 DP

SHEET TITLE: **BUILDING LIGHTING** CUTSHEETS - 3

SHEET NUMBER