

1965 SKI TIME SQUARE DRIVE

STEAMBOAT SPRINGS, CO 80487

Development Plan Rev1 - 07/25/2024

SHEETS INCLUDED IN THIS SECTION

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C.004	ANTICIPATED CONDITIONS EXHIBIT

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L.100.2	SITE ILLUSTRATIVE PLAN - WINTER
L.101	SITE PLAN

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LIGHTING PLAN

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U.302	BUILDING LIGHTING - CUT SHEETS - 2
U.303	BUILDING LIGHTING - CUT SHEETS - 3
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DRAINAGE PLAN

C.300	DRAINAGE PLAN
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FIRE CODE ANALYSIS

L.401	FIRE CODE ANALYSIS
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LIGHTING PLAN

DEVELOPMENT PLAN



NOT FOR
CONSTRUCTION

THUNDERHEAD BEACH

1965 SKI TIMES SQUARE

STEAMBOAT SPRINGS, CO 80487

REVISIONS:

NO	DATE	DESCRIPTION
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PROJECT NUMBER:
123134.00

DATE:
07/25/2024

ISSUED FOR:
DEVELOPMENT PLAN

SHEET TITLE:
EXTERIOR LIGHTING
PHOTOMETRICS

SHEET NUMBER

LI.100

LIGHTING LEGEND

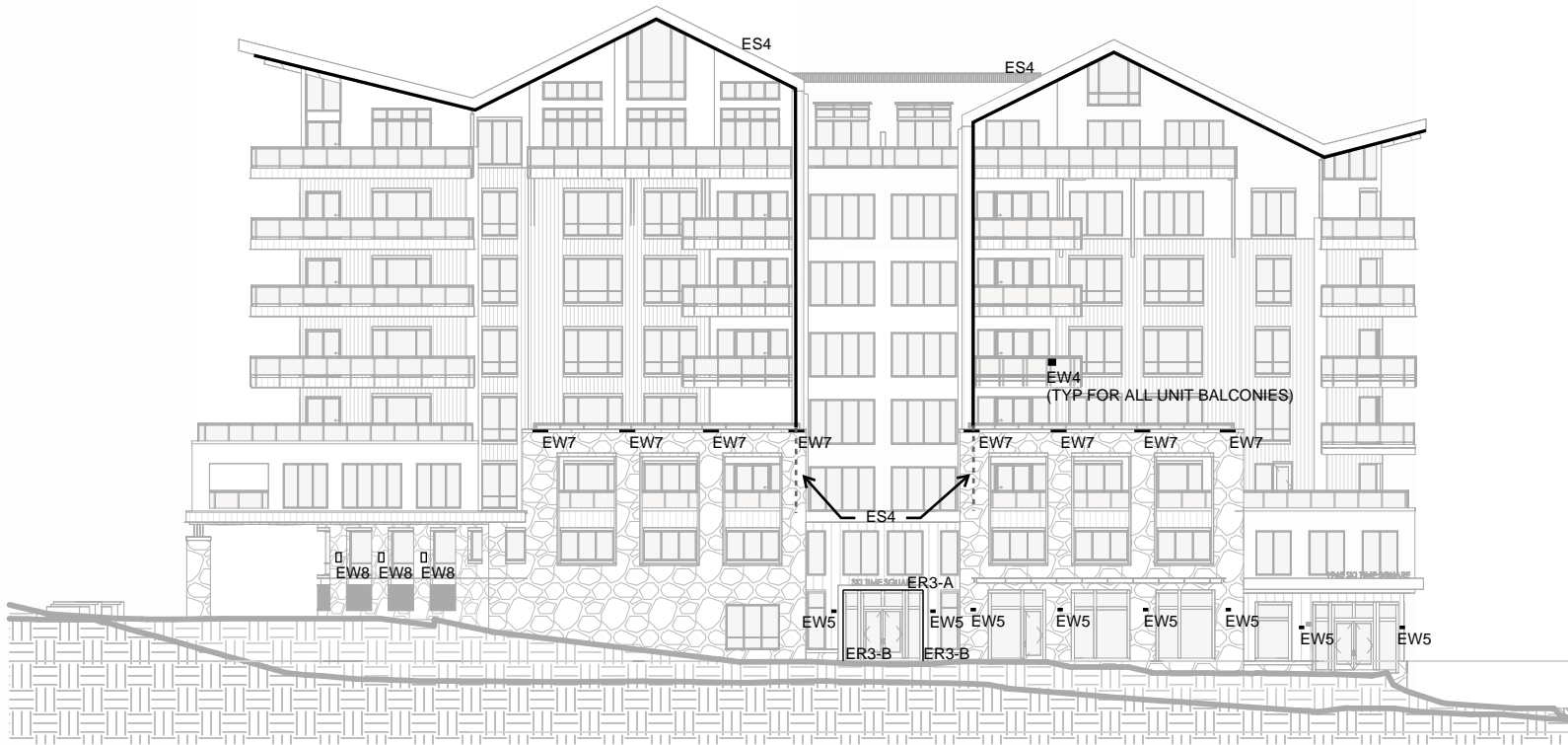
- LED BOLLARD
- GRADE MOUNTED ADJUSTABLE ACCENT LIGHT
- PEDESTRIAN SCALE POLE MOUNTED LIGHT
- RECESSED HANDRAIL LIGHT
- RECESSED DOWNLIGHT
- SURFACE MOUNTED STRIP LIGHT
- SURFACE MOUNTED LINEAR GRAZE LUMINAIRE
- MULLION MOUNTED LINEAR LIGHT
- INTEGRATED HORIZONTAL STEPLIGHT
- RECESSED STEPLIGHT
- DECORATIVE WALL MOUNTED LIGHT
- WALL MOUNTED WALL WASH
- WALL MOUNTED SCNCE

Exterior Luminaires					
Luminaire Type	Description	Luminaire	Lumens	CCT	Mounting Height AFG
EG1	Bollard, Asymmetric	Louis Poulsen, Flindt Bollard	700	2700	3' 6"
EG2	Bollard, Asymmetric	Louis Poulsen, Flindt Bollard	700	2700	2' 3"
EG3	Bollard, Asymmetric	Louis Poulsen, Flindt Bollard	700	2700	2' 6"
EG4	Grade Mounted Floodlight	BK Lighting Artistar	1100	2700	1' 6"
EG20	Steamboat Springs Standard Pedestrian Light	--	--	--	--
EP1-A	Pole Mounted Area Light	Sternburg Villa Medium	4240	2700	14'
EP1-B	Pole Mounted Area Light with Shield	Sternburg Villa Medium	4240	2700	14'
EP2	Catenary System	Tegan Lighting Glass Envelope Silver Bowl with Dysk Metal Shade	93	2700	14'
ER1	Handrail Light	Klik LEDpod	145	2700	2' 8"
ER2	Recessed Downlights	Erco Quintessence	1374	2700	13' - 16'
ER3-A	Recessed Linear Around Spa Entry- Horizontal	QTL LATO	155lm/ft	2700	12' 6"
ER3-B	Recessed Linear Around Spa Entry- Vertical	QTL LATO	54lm/ft	2700	0'
ER4	Recessed Downlights-Townhomes	Erco Quintessence	494	2700	10'
ER5	Recessed Adjustable Downlight- Restaurant Canopy	Bega 24047	1000	2700	25'
ER6	Recessed Downlight-Members Patio	Bega 24047	1000	2700	29'
ES1	Surface Mounted Strip Light Under Steel Canopies	Kelvix Direct View LED with Frosted Lens Channel	189lm/ft	2700	~13' 6"
ES2	Surface Mounted Linear Graze on Gables	Kelvix Zolo Adjustable Graze	800lm/ft	2700	Roof Line
ES3	Linear Strip Light Mounted Underneath Wall Caps	QTL Q-CAP-KURV	264lm/ft	2700	Varying
ES4	Surface Mounted Linear Graze on Front Facing Building Exterior	Kelvix Zolo Adjustable Graze	800lm/ft	2700	Roof Line
ES5	Mounted to Ceiling Structure on Café Patio	LED LinearXOOLUM	660lm/ft	2700	25'
ES6	Surface Mounted Linear Graze on Rear Porte Cohere Wall	Kelvix Direct View LED with Frosted Lens Channel	189lm/ft	2700	10'
ES7	NOT USED				
ES8	Surface Mounted Cylinder Downlight	BK Lighting Micro Nite Star	480	2700	12' 6" and 11' 6"
EW1	Mullion Mounted Light	Signetix Muse 10	500	2700	8'
EW2	Patio Wall Steplight	Sistemalux Ghost for Cladding	532	2700	1' 6"
EW3	Square Steplight	MP Lighting L300	50	2700	1' 6"
EW4	Balcony Steplight	Sistemalux Ghost for Cladding	266	2700	1' 6"
EW5	Decorative Sconce	Bent Pocket Sconce	980	2700	8'
EW6	Decorative Sconce	Bent Pocket Sconce	1120	2700	6' 8"
EW7	Wall Graze Luminaire on Brick Columns	Luminaire Lumenfacade Nano Horizontal	1338	2700	20' - 40'
EW8	Wall Mounted Sconce	Sternburg Villa Small	2000	2700	8'

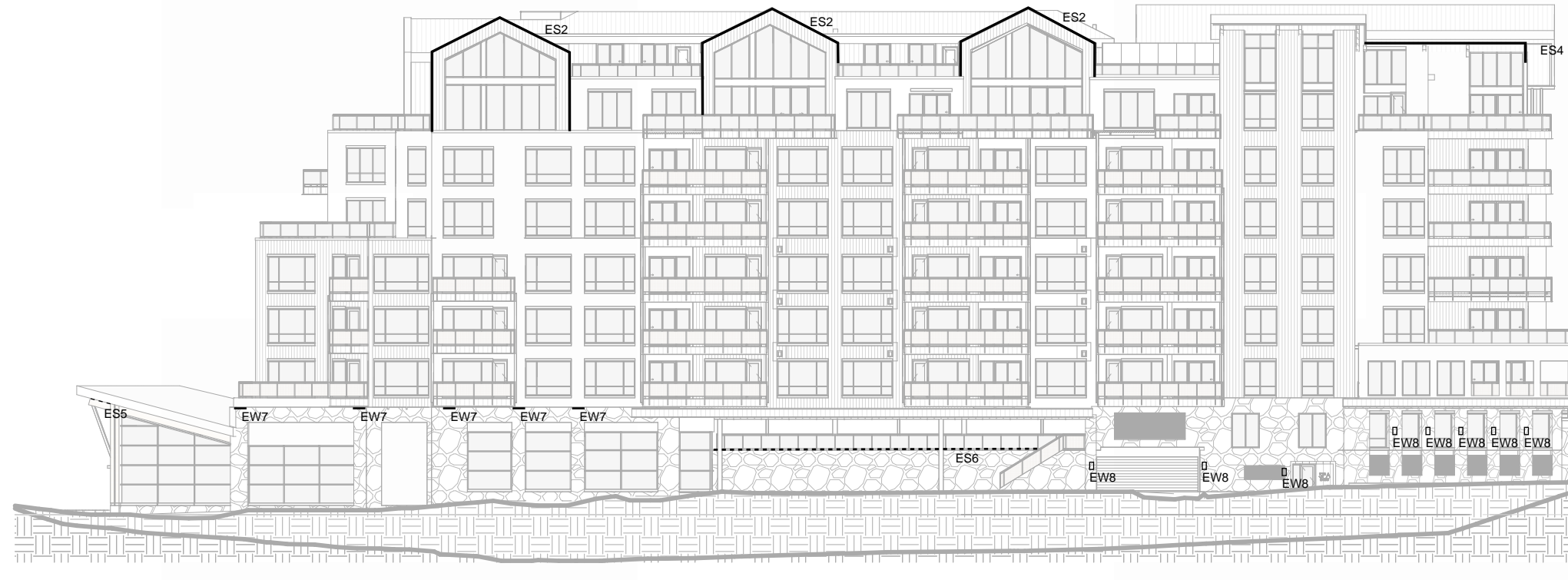
1 DIV-1.A4.405 - EXTERIOR LIGHTING - PHOTOMETRICS

1/16" = 1'-0"





1 NORTH OVERALL BUILDING ELEVATION - LIGHTING
1/32" = 1'-0"



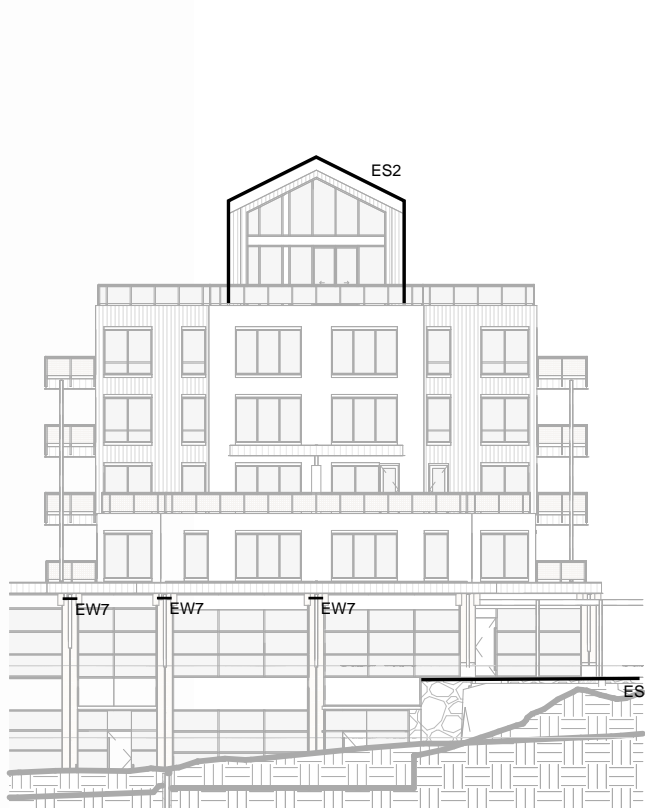
2 EAST OVERALL BUILDING ELEVATION - LIGHTING
1/32" = 1'-0"



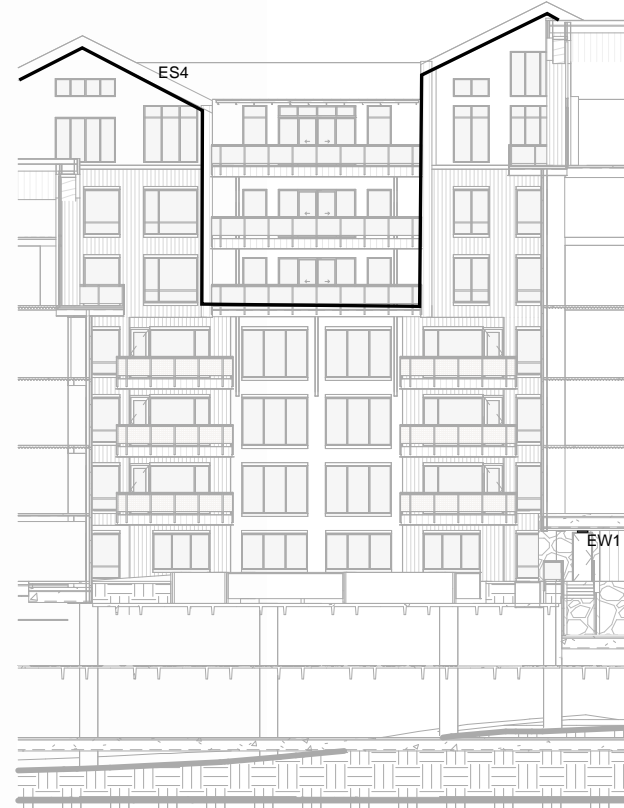
3 WEST BUILDING ELEVATION - NORTH SIDE - LIGHTING
1/32" = 1'-0"



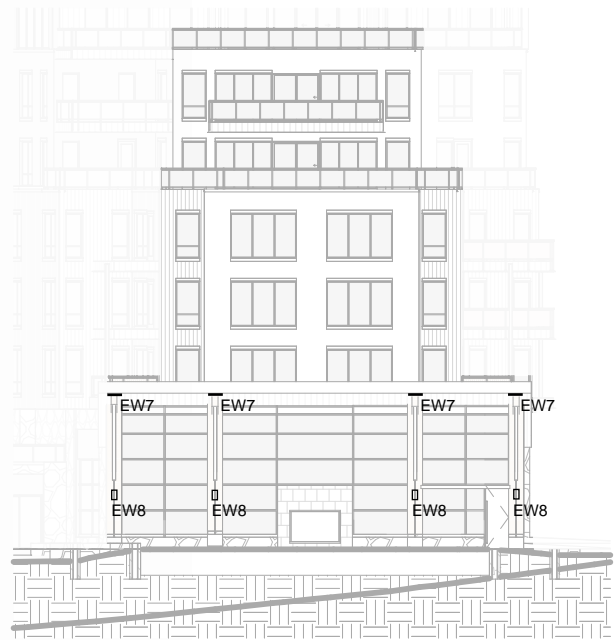
4 WEST BUILDING ELEVATION - SOUTH SIDE - LIGHTING
1/32" = 1'-0"



5 SOUTH ELEVATION - WEST WING - LIGHTING
1/32" = 1'-0"



6 SOUTH ELEVATION - COURTYARD - LIGHTING
1/32" = 1'-0"



7 SOUTH LOBBY - LIGHTING
1/32" = 1'-0"



8 COURTYARD WEST ELEVATION - LIGHTING
1/32" = 1'-0"



9 LOWER COURTYARD EAST ELEVATION - LIGHTING
1/32" = 1'-0"



10 COURTYARD EAST ELEVATION - LIGHTING
1/32" = 1'-0"



12 HT - ROOF PLAN Copy 1
1/32" = 1'-0"



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DEVELOPMENT PLAN

SHEET TITLE:
BUILDING LIGHTING -
ELEVATIONS

SHEET NUMBER

LI.200

EG1, EG3

FLINDT BOLLARD

Specification sheet

1/3

Project name:

Project type:

Notes:

Design

Product description

Variant options

Specification notes

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EG1,EG3

FLINDT BOLLARD

Specification sheet

2/3

Light description

Material

Weight

Dimensions

Finish

Other functions

Light distribution diagrams

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EG2

FLINDT GARDEN BOLLARD

Technical specifications

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EG2

FLINDT GARDEN BOLLARD

Materials

Finishes

Mounting

Information

Light distribution diagrams

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EG4

IP68 RATED

CATALOG NUMBER LOGIC

CATALOG NUMBER LOGIC

MATERIAL

SERIES

SOURCE

HOUSING

LED TYPE

OPTICS

FINISH

SHIELDING

CAP STYLE

MOUNTING OPTIONS

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EP1

1720LED VILLA SERIES

Mounting Configuration

Feature

Internal Housing

LED

Disorientation Type

Performance (based on "C" style fixture with "RD" roof)

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EP1

1720LED VILLA SERIES

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EP1

1720LED VILLA SERIES

Mounting Configuration

Feature

Internal Housing

LED

Disorientation Type

Performance (based on "C" style fixture with "RD" roof)

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EP2

1720LED VILLA SERIES

Mounting Configuration

Feature

Internal Housing

LED

Disorientation Type

Performance (based on "C" style fixture with "RD" roof)

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EP2

1720LED VILLA SERIES

Mounting Configuration

Feature

Internal Housing

LED

Disorientation Type

Performance (based on "C" style fixture with "RD" roof)

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EP2

1720LED VILLA SERIES

Mounting Configuration

Feature

Internal Housing

LED

Disorientation Type

Performance (based on "C" style fixture with "RD" roof)

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EP2

1720LED VILLA SERIES

Mounting Configuration

Feature

Internal Housing

LED

Disorientation Type

Performance (based on "C" style fixture with "RD" roof)

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EP2

1720LED VILLA SERIES

Mounting Configuration

Feature

Internal Housing

LED

Disorientation Type

Performance (based on "C" style fixture with "RD" roof)

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THUNDERHEAD BEACH

1965 SKI TIMES SQUARE

STEAMBOAT SPRINGS, CO 80487


PROJECT NUMBER:

DATE:

ISSUED FOR:

SHEET TITLE:

SHEET NUMBER



KIK USA

2840 E. Broadway, Suite 3
Brooklyn, NY 11234

PH: 202.505.5124
Fax: 202.755.2125

www.kikusa.com
sales@kikusa.com

Project Name: _____

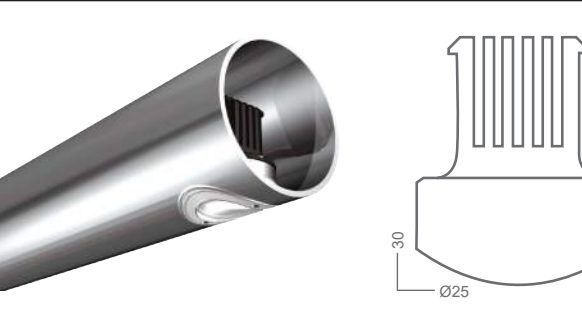
Location: _____

Specifier: _____

Rep Agency: _____

Fixture Type: _____

Product Code: _____



KLIK LEDPDM™ 40 Patented

Dynamic, accurately point source LED fixture for use in code-compliant hand, recessed, especially corner runs and hidden slots as well as long runs on trigen and pedestrian paths. Asymmetrically angle mounting at all sizes, eliminating uncomfortable glare.

Housing

Clear anodized aluminum body as standard. Color-matched anodized or bronze body also optional, contact factory.

Aluminum body has 3/16-in. finish and is then hand coat anodized. This preventing galvanic corrosion. Silicone gasket for the insulation from water ingress and provides added means of electrical isolation to minimize potential for electric shock.

Mounting

Patented attachment method offers unparalleled security and ease of mounting. Requires only a simple drilled hole in wall, masonry, insulation, sheetrock, gyp or exposed surfaces common among other handball fixtures. All construction details are in the mounting manual. Mounting is simple and secure. No special tools are required. By taping to provide temporary hold, it permits trying fixture on trigen, under insulator, sheetrock or on the product surface. For secure mountings, consult factory.

• Tube Size: 4" 5" 1" 1.5" Max. Weir: 2" Other sizes available upon request
 Cut-Out: 2.5-in.
 Weight: 0.16 LBS

Electric/LED Driver

- Constant Voltage, 120 VAC
- Operating Temp: 40 to 120° F
- Efficiency: 88-91%
- Driver:
 - Primary Driver: 110V - 277 VAC, 1.5 Watt Constant Current (available with fixture)
 - Secondary Driver: 270V - 300V Constant Current (available with fixture)
- Control: DALI, 0-10V, DMX
- CDM compatible for dimming only, not for individually addressable LEDPDM
- Enclosure: Nemko NEMA3 for indoor, NEMA 3R for outdoor
- Input connectors provided. Fixtures are pre-wired, unless optional, contact factory

Listings

• ETL Listed to UL 1595CA, 222, 2 C

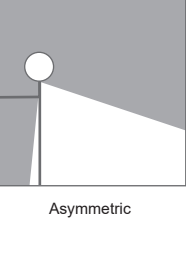
• cETL

• ETL and ETL of most manufacturers listed: IESNA/2003 Design of product protection by UL (patent) © 2003

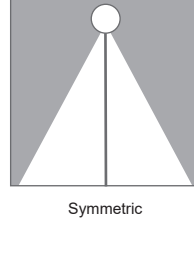
• IESNA Impact Resistant

• Most locations listed







• International Data for the Association Certified: Contact us or visit our web (www.kikusa.com)



Asymmetric



Symmetric

Product Codes		Follow the key to specify the fixture.	Enter Product Code in list of top of pages. Example: LPA300A40
Fixture Type	Size	Color*	Beam Type/Thickness*
LP / LEDPDM	40" 12" 18" 24" 30" 36" 42" 48" 54" 60" 66" 72" 78" 84" 90" 96" 102" 108" 114" 120"	Cool† 27K 3000K 35K 3500K 40K 4000K 45K 4500K 50K 5000K 55K 5500K 60K 6000K 65K 6500K 70K 7000K 75K 7500K 80K 8000K 85K 8500K 90K 9000K 95K 9500K 100K 10000K 105K 10500K 110K 11000K 115K 11500K 120K 12000K 125K 12500K 130K 13000K 135K 13500K 140K 14000K 145K 14500K 150K 15000K 155K 15500K 160K 16000K 165K 16500K 170K 17000K 175K 17500K 180K 18000K 185K 18500K 190K 19000K 195K 19500K 200K 20000K 205K 20500K 210K 21000K 215K 21500K 220K 22000K 225K 22500K 230K 23000K 235K 23500K 240K 24000K 245K 24500K 250K 25000K 255K 25500K 260K 26000K 265K 26500K 270K 27000K 275K 27500K 280K 28000K 285K 28500K 290K 29000K 295K 29500K 300K 30000K 305K 30500K 310K 31000K 315K 31500K 320K 32000K 325K 32500K 330K 33000K 335K 33500K 340K 34000K 345K 34500K 350K 35000K 355K 35500K 360K 36000K 365K 36500K 370K 37000K 375K 37500K 380K 38000K 385K 38500K 390K 39000K 395K 39500K 400K 40000K 405K 40500K 410K 41000K 415K 41500K 420K 42000K 425K 42500K 430K 43000K 435K 43500K 440K 44000K 445K 44500K 450K 45000K 455K 45500K 460K 46000K 465K 46500K 470K 47000K 475K 47500K 480K 48000K 485K 48500K 490K 49000K 495K 49500K 500K 50000K 505K 50500K 510K 51000K 515K 51500K 520K 52000K 525K 52500K 530K 53000K 535K 53500K 540K 54000K 545K 54500K 550K 55000K 555K 55500K 560K 56000K 565K 56500K 570K 57000K 575K 57500K 580K 58000K 585K 58500K 590K 59000K 595K 59500K 600K 60000K 605K 60500K 610K 61000K 615K 61500K 620K 62000K 625K 62500K 630K 63000K 635K 63500K 640K 64000K 645K 64500K 650K 65000K 655K 65500K 660K 66000K 665K 66500K 670K 67000K 675K 67500K 680K 68000K 685K 68500K 690K 69000K 695K 69500K 700K 70000K 705K 70500K 710K 71000K 715K 71500K 720K 72000K 725K 72500K 730K 73000K 735K 73500K 740K 74000K 745K 74500K 750K 75000K 755K 7	

ER2

ERCO

Quintessence Directional luminaire

80224-023 Silver
LED version: 18/21cm/3000K
warm white
halving eye diameter
Size 2
No direct mounting detail
halving is possible with
accessory
spherical lens, food

Product description
Rotating, aluminium-repainted cast
aluminium with perfect, storm-
tight, double power-coating.
Mounting with 3-point support and
cable hanger. Side-mounted control
gear for dimming, power-on/off
and colour setting. Through-
mounting, double, 5-point terminal block.
Control gear: 40W/1, 120W/dimmable,
ETP2 network.
LED module: high-power LEDs.
Collimating lens made of optical
polymers (P-20° to 360° rotation).
Reflector: polymer, aluminium
coated, clear, specular.

Technical data

Luminous flux of the luminaire	1374lm
Connector	2-pin/4m
Luminous efficacy	100lm/W
Color deviation	15 SDCM
Color rendering index	95 Ra
Lumen maintenance IED manufacturer specification)	100/1 to 50000h
LED failure rate	0.1% <50000h
Life (Temp./Temp. Arr./mths)	50k/50k/50k
EMF	E

Optical cut-off 30° from horizontal
LED screw-adjusted cover ring with
non-reflective safety glass.
corrosion-resistant cast aluminium,
silver, double power-coated
Top flange: 40°C
Insulation materials must be kept away
from the luminaire by a minimum of 5°C.
Max. ceiling thickness: 1.31ft"
1200: Operating with exposed dimmers
possible (halving only).
Suitable for wet location (IP65):
dust and dirt and water (p-proof)
Weight 4.62kg / 10.15lb

h(m)	h'(m)	D
3	601	17°
6	150	12°
9	69	10°
12	58	8°
15	24	8°

For your regional contact in the EROC
Sales network, click here
www.erco.com/contact

Technical version: 12/20/04/04

27/10/04/04

We reserve the right to make technical
and design changes.

Version: 27/10/2004

Current version under
www.erco.com/8024231

© ERCO GmbH 2004

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[illegible]

ER3

ESSENTIALS LATO- ENCAPSULATED (O3) STATIC WHITE Linear Fixtures - Recessed

- Shadow Resistant recessed fixture
- Features high quality LED Emitter technology in rigid extrusion providing a robust fixture for use in wet or damp areas
- Available for home and outdoor locations (WFO)
- Impact resistant fixture with secure surface
- Parts and panels are made from high quality clear and color acrylic with excellent appearance of light and color
- Suitable for installation in the range areas of a 300mm channel when specified with LEDRA 4 with up to 300 watt per foot per MC2 transformer

Declare.

Product Code: 127896 | Part Number: 127896-01 | EAN: 600 700 000 000 000 | MC2 MC3 MC4 MC5 MC6 MC7 MC8 MC9 MC10 MC11 MC12 MC13 MC14 MC15 MC16 MC17 MC18 MC19 MC20 MC21 MC22 MC23 MC24 MC25 MC26 MC27 MC28 MC29 MC30 MC31 MC32 MC33 MC34 MC35 MC36 MC37 MC38 MC39 MC40 MC41 MC42 MC43 MC44 MC45 MC46 MC47 MC48 MC49 MC50 MC51 MC52 MC53 MC54 MC55 MC56 MC57 MC58 MC59 MC60 MC61 MC62 MC63 MC64 MC65 MC66 MC67 MC68 MC69 MC70 MC71 MC72 MC73 MC74 MC75 MC76 MC77 MC78 MC79 MC80 MC81 MC82 MC83 MC84 MC85 MC86 MC87 MC88 MC89 MC90 MC91 MC92 MC93 MC94 MC95 MC96 MC97 MC98 MC99 MC100 MC101 MC102 MC103 MC104 MC105 MC106 MC107 MC108 MC109 MC110 MC111 MC112 MC113 MC114 MC115 MC116 MC117 MC118 MC119 MC120 MC121 MC122 MC123 MC124 MC125 MC126 MC127 MC128 MC129 MC130 MC131 MC132 MC133 MC134 MC135 MC136 MC137 MC138 MC139 MC140 MC141 MC142 MC143 MC144 MC145 MC146 MC147 MC148 MC149 MC150 MC151 MC152 MC153 MC154 MC155 MC156 MC157 MC158 MC159 MC160 MC161 MC162 MC163 MC164 MC165 MC166 MC167 MC168 MC169 MC170 MC171 MC172 MC173 MC174 MC175 MC176 MC177 MC178 MC179 MC180 MC181 MC182 MC183 MC184 MC185 MC186 MC187 MC188 MC189 MC190 MC191 MC192 MC193 MC194 MC195 MC196 MC197 MC198 MC199 MC200 MC201 MC202 MC203 MC204 MC205 MC206 MC207 MC208 MC209 MC210 MC211 MC212 MC213 MC214 MC215 MC216 MC217 MC218 MC219 MC220 MC221 MC222 MC223 MC224 MC225 MC226 MC227 MC228 MC229 MC230 MC231 MC232 MC233 MC234 MC235 MC236 MC237 MC238 MC239 MC240 MC241 MC242 MC243 MC244 MC245 MC246 MC247 MC248 MC249 MC250 MC251 MC252 MC253 MC254 MC255 MC256 MC257 MC258 MC259 MC260 MC261 MC262 MC263 MC264 MC265 MC266 MC267 MC268 MC269 MC270 MC271 MC272 MC273 MC274 MC275 MC276 MC277 MC278 MC279 MC280 MC281 MC282 MC283 MC284 MC285 MC286 MC287 MC288 MC289 MC290 MC291 MC292 MC293 MC294 MC295 MC296 MC297 MC298 MC299 MC300 MC301 MC302 MC303 MC304 MC305 MC306 MC307 MC308 MC309 MC310 MC311 MC312 MC313 MC314 MC315 MC316 MC317 MC318 MC319 MC320 MC321 MC322 MC323 MC324 MC325 MC326 MC327 MC328 MC329 MC330 MC331 MC332 MC333 MC334 MC335 MC336 MC337 MC338 MC339 MC340 MC341 MC342 MC343 MC344 MC345 MC346 MC347 MC348 MC349 MC350 MC351 MC352 MC353 MC354 MC355 MC356 MC357 MC358 MC359 MC360 MC361 MC362 MC363 MC364 MC365 MC366 MC367 MC368 MC369 MC370 MC371 MC372 MC373 MC374 MC375 MC376 MC377 MC378 MC379 MC380 MC381 MC382 MC383 MC384 MC385 MC386 MC387 MC388 MC389 MC390 MC391 MC392 MC393 MC394 MC395 MC396 MC397 MC398 MC399 MC400 MC401 MC402 MC403 MC404 MC405 MC406 MC407 MC408 MC409 MC410 MC411 MC412 MC413 MC414 MC415 MC416 MC417 MC418 MC419 MC420 MC421 MC422 MC423 MC424 MC425 MC426 MC427 MC428 MC429 MC430 MC431 MC432 MC433 MC434 MC435 MC436 MC437 MC438 MC439 MC440 MC441 MC442 MC443 MC444 MC445 MC446 MC447 MC448 MC449 MC450 MC451 MC452 MC453 MC454 MC455 MC456 MC457 MC458 MC459 MC460 MC461 MC462 MC463 MC464 MC465 MC466 MC467 MC468 MC469 MC470 MC471 MC472 MC473 MC474 MC475 MC476 MC477 MC478 MC479 MC480 MC481 MC482 MC483 MC484 MC485 MC486 MC487 MC488 MC489 MC490 MC491 MC492 MC493 MC494 MC495 MC496 MC497 MC498 MC499 MC500 MC501 MC502 MC503 MC504 MC505 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MC672 MC673 MC674 MC675 MC676 MC677 MC678 MC679 MC680 MC681 MC682 MC683 MC684 MC685 MC686 MC687 MC688 MC689 MC690 MC691 MC692 MC693 MC694 MC695 MC696 MC697 MC698 MC699 MC700 MC701 MC702 MC703 MC704 MC705 MC706 MC707 MC708 MC709 MC710 MC711 MC712 MC713 MC714 MC715 MC716 MC717 MC718 MC719 MC720 MC721 MC722 MC723 MC724 MC725 MC726 MC727 MC728 MC729 MC730 MC731 MC732 MC733 MC734 MC735 MC736 MC737 MC738 MC739 MC740 MC741 MC742 MC743 MC744 MC745 MC746 MC747 MC748 MC749 MC750 MC751 MC752 MC753 MC754 MC755 MC756 MC757 MC758 MC759 MC760 MC761 MC762 MC763 MC764 MC765 MC766 MC767 MC768 MC769 MC770 MC771 MC772 MC773 MC774 MC775 MC776 MC777 MC778 MC779 MC780 MC781 MC782 MC783 MC784 MC785 MC786 MC787 MC788 MC789 MC790 MC791 MC792 MC793 MC794 MC795 MC796 MC797 MC798 MC799 MC800 MC801 MC802 MC803 MC804 MC805 MC806 MC807 MC808 MC809 MC810 MC811 MC812 MC813 MC814 MC815 MC816 MC817 MC818 MC819 MC820 MC821 MC822 MC823 MC824 MC825 MC826 MC827 MC828 MC829 MC830 MC831 MC832 MC833 MC834 MC835 MC836 MC837 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[illegible]

ER4

ERCO

Quintessence Directional luminaire

ER414.002 Silver

LED module: 1 W @ 3300K, warm white
 beading edge dimmable
 beam angle 2°
 Spot 3
 Color rendering index
 Flush mounting plate
 Flush mounting is possible with accessory
 Spherulic lens, frosted


Product description

Isolating, corrosion-resistant cast aluminum body with perfect 180° reflector.
 Silver, silver powder-coated
 Mounting with 3-point support and cable fixing. Side-mounted control gear: optional.
 2 cable entries. Through-wiring possible. 5-point terminal block.
 Control gear: 30W, 120W dimmable, 270W non-dimmable.
 LED module: 1 W, high-power LEDs.
 Cooling fins made of optical polymer (P-PP 10, 180° rotation).
 Reflector: polymer, aluminum
 Spherulic lens, spherulic

Technical data

Luminous flux of the luminaire	40lm
Connected load	85W
Beam angle	2°
Color deviation	13-150mA
Color rendering index	90-95
Lumen maintenance (LED manufacturer)	100-110 at 10000h
Temperature	100-130°C
LED failure rate	0.1% > 100000h
IEC Temperature Area/Class	IEC 1
EMF	E

Optical cut-off 90° from horizontal.
 Screw-adjusted zoom ring with non-reflective safety glass.
 corrosion-resistant cast aluminum, double powder-coated.
 No floor surface treatment. Silver, double powder-coated.
 Light fixture: 100mm.
 Insulation materials must be kept away from the luminaire by a minimum of 37.5 mm.
 Max. wiring thickness 1 3/16".
 120W: 20mm with 180° beveled diameters possible (beading edge).
 Suitable for wet location (IP60).
 Max. cable and water 40-proof.
 Weight 1.028kg / 1.37kg

DryLamp  **Wet**

°	h	h	D
90°	2000	2000	20"
75°	2100	2100	17"
60°	2200	2200	14"
45°	2300	2300	11"
30°	2400	2400	8"
15°	2500	2500	5"

For your regional contact in the ERECO
 Sales network click here:
www.ereco.com/contact

Technical version: 120W/40lm,
 270W/100lm

We reserve the right to make technical
 and design changes.

ER414.002 2014
 Current version under
www.ereco.com/ER414.002

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1/3

ERCO

Luminissence Directional luminaire

Planning data

Miscellaneous light effect

Air no.

R014123 (direct)

Spectrum

3000K CR 91

MR

G13

ACDER

0.48

MR Melanopic factor [a luminous radiation]_nety

MRD Melanopic Daylight (Polar Ray) [melanopic_mel_nD65]

Measuring the Illuminance with the melanopic daylight efficacy index MEEI uses the melanopic equivalent daylight illuminance (MEDI). [MEDI Melanopic Equivalent Daylight Illuminance] ([a_L_vlmD65 \[%d\]](#))

Observing (α)

Ambient conditions

LMF

ROAF

Hours of operation [h]

LMF

UVF

	1	P	C	N	D	2	P	C	N	D	3	P	C	N	D
LMF	0.86	0.94	0.90	0.86	0.93	0.93	0.91	0.88	0.81	0.92	0.90	0.84	0.79	0.91	0.87
ROAF	0.97	0.97	0.95	0.97	0.96	0.97	0.95	0.95	0.90	0.98	0.97	0.95	0.93	0.97	0.97
Hours of operation [h]	1000	5000	10000	20000	30000	40000	40000	50000							
LMF	1	0.99	0.99	0.96	0.94	0.93	0.90								
UVF							1								

MF LMF+ROAF+CLMP+LGF

MMF

LMF Luximetric Maintenance Factor

EMMF

Room Surface Maintenance Factor

LMFf

Lamp Lumens Maintenance Factor

LMFf

Lamp Survival Factor

P

Room point

C

Room colour

D

Room reflector

D

Room dirty

Technical data based on international standards and directives

IEC 60598 Luminaires - Parts 1 + 2 General requirements,

particular requirements and tests

EN 12469 LED Products for general lighting - Safety specifications

EN 12471 Photobiological safety of lamps and lamp systems

UL 1004

UL 1674 Standard for Track Lighting Systems

UL 8750 Standard for Exit Limiting Switches (ELDS) Equipment for Use in Lighting Products

IES LM-79-08 Electrical and Photometric Measurements of Solid State Lighting Products

IES LM-80-08 Measuring Lumen Maintenance of LED Light Sources

CEI 13 Rules for determining the useful life of LEDs

properties of light sources

All technical data are subject to regulatory developments

See also www.ercos.com/en/so-

For explanations of the symbols and abbreviations used and other general information, see [www.ercos.com/symbols](#)

Luminissence Directional luminaire

B01-1023

239

BEGA

Dawnlight - Adjustable - Static white

Application

Recommended ceiling luminaires with adjustable light distribution. The inclination angle can be adjusted from 0° to 30°. The optical assembly can be rotated 360° around the vertical axis. The adjustable optical system makes these luminaires ideal for solving a myriad of lighting tasks.

Materials

Ceiling safety glass

Marine grade, copper free (c 0.3% copper content) A300 aluminum alloy

Mechanically resistant stainless steel fasteners

Stainless steel screw clamps

High temperature silicone gasket

Pure anodized aluminum reflector surface

NRTL listed to North American Standards, suitable for wet locations

Protection class IP 65

Weight: 4.0 lbs.

Electrical

LED module voltage 115 W

System voltage 13.8 W

Cord ending type Rm 9x0

Luminaire lumens 1025 lm

LED service life L70 60000 hrs

LED color temperature

☐ 3000K (R9)

☐ 3500K (R9)

☐ 4000K (R9)

☐ 2700K (K27)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details.

Finish

All BEGA standard finishes are matte, textured powder coat with minimum 1 mil thickness. BEGA Unidirect® in Kacopolymar technology provides superior impact protection in Black, Bronze, and Silver. BEGA Select® finish is a slower durable polymer powder. Optionally available:

RAL and custom color finishes provided in either polyester powder or liquid paint.

Available colors

☐ BLACK

☐ SILVER (SLV)

☐ RAL

☐ BRONZE (BRZ)

☐ WHITE (WHT)

☐ CUBS

Type:

BEGA Product:

Project:

Modified:

Available options

☐ B101019 Elliptical spread lens

☐ E110147 Round spread lens

☐ CUS Custom Finish

☐ FSC Fogging

☐ MGU Marine grade undercoat

☐ RAL RAL finish

Included (available for pre-installment)

☐ CP4218

The technical drawing shows two views of the Dawnlight luminaire. The top view is a circle with a diameter dimension of 14". It includes mounting holes spaced at 12" and 10" from the center. The side view shows the luminaire's profile with a height dimension of 10 1/2". A circular inset shows a detail of the mounting bracket with a 90° angle indicated. Below the drawings is a table summarizing the specifications.

Dawnlight - Adjustable - Static white			
LED	A	B	C
B24047	11.5 W	14"	S ₁ /S ₂

A photograph showing the Dawnlight luminaire installed on a ceiling. The luminaire is a circular, recessed fixture with a dark, textured finish. It is shown from a perspective view, highlighting its sleek design and integration into the ceiling.

BEGA 1000 BÖGA Weg, Garmisch, CA 90015 (800) 884-6553 info@bega.com

See us at the Lighting Council of America products and the associated technologies. Luminaire data in this report is subject to change due to the discretion of BEGA North America. For the most current technical data, please visit our BEGA US website.

ER6

BEGA

Downlight - Narrow beam

Application

Necessitated downlight with a symmetric narrow beam distribution. These luminaires are suitable for down lighting stairs, canopies, passages, and other interior and exterior locations.

Materials

Case safety glass

Mining grade, copper free (α 0.03% copper content) A300.0 aluminum alloy
High temperature silicone gasket
Silicone applied robotically to casting, plasma treated for increased adhesion

Stainless steel screw clamps

Aluminum ceiling mounted stud box

Pure anodized aluminum reflector surface

Silicone optic with excellent high temperature and UV stability

BEGA Hybrid Circuitry

NRTL listed to North American Standards, suitable for wet locations
Protection class IP 65

Weight: 1.8 lbs.

Electrical

Operating voltage 120-277VAC

Minimum start temperature -20°C

LED module voltage 12.3V

System wattage 14.0W

Controllability Ra > 10V dimmable

Color rendering index Ra > 90

Luminaire lumens 1313lm

LED service life (L70) 60,000hrs

LED color temperature

4400K (C4)

3500K (C3)

3000K (C2)

2700K (C1)

BEGA can supply you with suitable LED replacement modules for up to 10 years after the purchase of LED luminaires - see website for details

Finish: All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA (industry first), a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA (industry first) White is a super durable super-white coating. Optionally available:RAL and custom color finishes provided in either polyester powder or liquid paint.

Available colors

Black (B10)

Silver (SLV)

CHAL

Bronze (BRZ)

White (WHF)

CUS

Available options

□ CUS

□ DMU-2

□ ELV/TRAC

□ FPD

□ FSC

□ MQJ

□ PAL

Custom finish

Digital addressable lighting interface

Electronic low voltage/TRAC dimming

Front face

Flange

Mining grade undercoat

RAL finish

Downlight - Narrow beam				
LED	A	B	C	
R4342	12.3V	16"	9.75"	2 1/8"

BEGA - 1500 BEGA Ave. Cary, CA 95013 | 800-884-6539 | intlighting.us.com

Due to the unique nature of lighting products and the associated technologies, luminaires data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please visit bega-us.com or contact your local BEGA representative.

[illegible]

ES3

ESSENTIALS LATO-ENCAPSULATED (03) STATIC WHITE

Linear Fixtures - Recessed

1 PRODUCT - DIMENSIONS

Profile

Profile with stainless steel mounting clip

2 DELIVERED LUMENS

Calculated (L70 = 40000 hrs)

Tested with C229W = 30 ENC-870

	1.5W/FT	1.5E-W/FT	3.0W/FT	3.0E-W/FT	6.0W/FT	6.0E-W/FT
LM79	LM79	CR	LM79	CR	LM79	CR
LM79	CR	LM79	CR	LM79	CR	LM79
CL	90	90	90	90	120	90
CL	90	90	90	90	120	90
CL	90	90	90	90	120	90
CL	90	90	90	90	120	90

Calculated (L70 = 40000 hrs)

Tested with C229W = 30 ENC-870

	1.5W/FT	1.5E-W/FT	3.0W/FT	3.0E-W/FT	6.0W/FT	6.0E-W/FT
LM79	LM79	CR	LM79	CR	LM79	CR
LM79	CR	LM79	CR	LM79	CR	LM79
CL	90	90	90	90	120	90
CL	90	90	90	90	120	90
CL	90	90	90	90	120	90
CL	90	90	90	90	120	90

TEMPERATURE RATINGS

	1.5W/FT		1.5E-W/FT		3.0W/FT		3.0E-W/FT		6.0W/FT		6.0E-W/FT	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Ambient Operating Temp (Max)	-4°F	120°F	-4°F	120°F	-4°F	120°F	-4°F	120°F	-4°F	110°F	-4°F	90°F
Ambient Operating Temp (Min)	-4°F	-4°F	-4°F	-4°F	-4°F	-4°F	-4°F	-4°F	-4°F	-4°F	-4°F	-4°F

3 DIODE VISIBILITY

	ENC-03 - Clear encapsulation
	ENC-03 - Translucent encapsulation

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Specification subject to change. Rev. 03-04-24

ES5

XOOLUM IP67 Static White

Dimensions & available lengths

Calculated and simulated ambient lighting housing

1-point Case (max) in the rear side of the module

Lighting beam 40° adjusted

P/F 2.0 x 2.0 mm
 127.0 mm
 Length 6.0 L mm
 127.0 mm

Electrical & output data

Voltage	24-98 VDC (V _{in} , 25% Δ)
Temperature	T _{amb} = 25°C (T _{in} , T _{case} below)
Storage temperature	T _{stg} = -25°C (T _{in} , T _{case} below)
Ambient temperature	T _{amb} = 25°C (T _{in} , T _{case} below)
IP	IP67
ES	ES5

XOOLUM HYBRID

	HS6	HS10	HS15	HS25
Power (Watts) (P _{out})	18.7 (5)	31.2 (5)	46.9 (5)	78.4 (5)
Efficiency (η) (W / W _{LED})	52	51	55	53
max. length (L) [mm]	127.0	127.0	127.0	127.0
Temperature to point (Case) [°C]	104.7 (5) 100.0	104.7 (5) 100.0	104.7 (5) 100.0	104.7 (5) 100.0
Ambient temperature (T _{amb}) [°C]	104.7 (5) 100.0	104.7 (5) 100.0	104.7 (5) 100.0	104.7 (5) 100.0

Color temperature

Color temperature (Kelvin) LED used	Color temperature (Kelvin) Color temperature (Kelvin) low output	HS6	HS10	HS15	HS25	High output
W002	2000 K	2000 K	1541 (5)	1541 (5)	1541 (5)	2384 (7.5)
W002	2100 K	2100 K	162 (5.0)	162 (5.0)	164 (5.0)	267 (8.0)
W002	2300 K	2300 K	497 (5.0)	497 (5.0)	497 (5.0)	307 (9.0)
W002	2700 K	2700 K	130 (5.0)	130 (5.0)	200 (5.0)	352 (10.0)
W002	3000 K	3000 K	137 (5.0)	136 (5.0)	220 (5.0)	344 (10.0)
W002	3500 K	3500 K	140 (5.0)	140 (5.0)	222 (5.0)	342 (10.0)
W002	4000 K	4000 K	161 (5.0)	161 (5.0)	228 (5.0)	371 (10.0)
W002	5000 K	5000 K	191 (5.0)	191 (5.0)	240 (5.0)	404 (10.0)

The given data are typical values, but to be sure of the production process and the electrical components, values are light output and electrical power.

This is point should be measured in thermal equilibrium according to EN 60561.

To use of IP67 products, measures in the color temperature can occur for further explanations, please see specification table 2360203.

LED Luminaire - G401

ES5

Order code

Your order code	XQLOHM HYD	HQ	W									IP67
Order code example	XQLOHM HYD	HD25	W8	27	20	5	A	BS	IP67			

LED type

intS40 rds	intS40
intS40 rds	intS40
intS40 rds	intS40
intS40 rds	intS40

Color rendering

R _a	8
R _c	9

Color temperature

Color temperature	2700 K
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Color temperature

Color temperature	2700 K
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Color temperature

Color temperature	2700 K
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Color temperature

Color temperature	2700 K
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rod installation
24x140x140

rod installation
24x140x140

rod installation
24x140x140

rod installation
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rod installation
24x140x140

rod installation
24x140x140

ES8

MICRO NITE STAR - SURFACE DOWNLIGHT

IP66 RATED

DATE _____ PROJECT _____

TYPE _____

CATALOG NUMBER LOGIC _____

CATALOG NUMBER LOGIC

Example: SM - 3 - MN - LED - e68 - SP - 82W - 12 - 11 - C

MATERIAL

(Watts) - Aluminum B - Brass

SERIES

SM - Surface Downlight

STEM LENGTH

0" _____

3' 61" 12" 24" 36" 36" 42" or 48" length _____

FIXTURE

MN - Micro Nite Star

SOURCE

LED - with Integral Dimming Driver (25W min. load when dimmed)*

LED TYPE

e61 - 7W LED/2700K e62 - 7W/2700K 90 CRI

e68 - 7W LED/3000K e63 - 7W/3000K 90 CRI

e69 - 7W LED/4000K e64 - 7W/3500K 80 CRI

e70 - 7W LED/Amber

OPTICS

SP - Spot (30°) MFL - Medium Flood (25°) FL - Flood (30°)

FINISH (See page 4 for full-color swatches)

Standard Finishes (B27, B28, B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, B31, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62, B63, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74, B75, B76, B77, B78, B79, B80, B81, B82, B83, B84, B85, B86, B87, B88, B89, B90, B91, B92, B93, B94, B95, B96, B97, B98, B99, B100, B101, B102, B103, B104, B105, B106, B107, B108, B109, B110, B111, B112, B113, B114, B115, B116, B117, B118, B119, B120, B121, B122, B123, B124, B125, B126, B127, B128, B129, B130, B131, B132, B133, B134, B135, B136, B137, B138, B139, B140, B141, B142, B143, B144, B145, B146, B147, B148, B149, B150, B151, B152, B153, B154, B155, B156, B157, B158, B159, B160, B161, B162, B163, B164, B165, B166, B167, B168, B169, B170, B171, B172, B173, B174, B175, B176, B177, B178, B179, B180, B181, B182, B183, B184, B185, B186, B187, B188, B189, B190, B191, B192, B193, B194, B195, B196, B197, B198, B199, B200, B201, B202, B203, B204, B205, B206, B207, B208, B209, B210, B211, B212, B213, B214, B215, B216, B217, B218, B219, B220, B221, B222, B223, B224, B225, B226, B227, B228, B229, B230, B231, B232, B233, B234, B235, B236, B237, B238, B239, B240, B241, B242, B243, B244, B245, B246, B247, B248, B249, B250, B251, B252, B253, B254, B255, B256, B257, B258, B259, B260, B261, B262, B263, B264, B265, B266, B267, B268, B269, B270, B271, B272, B273, B274, B275, B276, B277, B278, B279, B280, B281, B282, B283, B284, B285, B286, B287, B288, B289, B290, B291, B292, B293, B294, B295, B296, B297, B298, B299, B300, B301, B302, B303, B304, B305, B306, B307, B308, B309, B310, B311, B312, B313, B314, B315, B316, B317, B318, B319, B320, B321, B322, B323, B324, B325, B326, B327, B328, B329, B330, B331, B332, B333, B334, B335, B336, B337, B338, B339, B340, B341, B342, B343, B344, B345, B346, B347, B348, B349, B350, B351, B352, B353, B354, B355, B356, B357, B358, B359, B360, B361, B362, B363, B364, B365, B366, B367, B368, B369, B370, B371, B372, B373, B374, B375, B376, B377, B378, B379, B380, B381, B382, B383, B384, B385, B386, B387, B388, B389, B390, B391, B392, B393, B394, B395, B396, B397, B398, B399, B400, B401, B402, B403, B404, B405, B406, B407, B408, B409, B410, B411, B412, B413, B414, B415, B416, B417, B418, B419, B420, B421, B422, B423, B424, B425, B426, B427, B428, B429, B430, B431, B432, B433, B434, B435, B436, B437, B438, B439, B440, B441, B442, B443, B444, B445, B446, B447, B448, B449, B450, B451, B452, B453, B454, B455, B456, B457, B458, B459, B460, B461, B462, B463, B464, B465, B466, B467, B468, B469, B470, B471, B472, B473, B474, B475, B476, B477, B478, B479, B480, B481, B482, B483, B484, B485, B486, B487, B488, B489, B490, B491, B492, B493, B494, B495, B496, B497, B498, B499, B500, B501, B502, B503, B504, B505, B506, B507, B508, B509, B510, B511, B512, B513, B514, B515, B516, B517, B518, B519, B520, B521, B522, B523, B524, B525, B526, B527, B528, B529, B530, B531, B532, B533, B534, B535, B536, B537, B538, B539, B540, B541, B542, B543, B544, B545, B546, B547, B548, B549, B550, B551, B552, B553, B554, B555, B556, B557, B558, B559, B560, B561, B562, B563, B564, B565, B566, B567, B568, B569, B570, B571, B572, B573, B574, B575, B576, B577, B578, B579, B580, B581, B582, B583, B584, B585, B586, B587, B588, B589, B590, B591, B592, B593, B594, B595, B596, B597, B598, B599, B600, B601, B602, B603, B



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