



גשר הולכי רגל מעל כביש 444 בשהם

אפיין גופי תאורה למכרז

כ"ה באדר ב' תשפ"ב | 28 במרץ 2022

גשר הולכי רגל מעל כביש 444 שהם - רשימת כמויות גופי תאורה

סעיף	ג"ת מסוג	לתאורת	תאור הגוף	כדוגמאת	גמר	יבואן	מדידה	יחידות	מס' מחיר ליח'	סה"כ מחיר
1.01.1	LWO	מאחז יד	ג"ת ליניארי מוגן מים IP67 לנורת LED 6W/m 24V 3000K 320lm/m CRI96 SDCM3 מוגן UV, עמיד בטמפ' סביבה מינ' 25°C, מקס' 60°C. עמידה בבדיקות LM80,LM79 לדעיכת הלד. תאורה הומוגנית ללא נקודות + פרופיל התקנה	LED-LINEAR VENUS TV W825 + 10000049-01		אלתם שטייניץ	מ"א	138.8		
1.01.2	LWO	מאחז יד	ספק כח חיצוני DALI לעמסום	ספקי כח		אלתם שטייניץ	יח'	14		
1.01.3	LWO	CNC	ג"ת ליניארי מוגן מים IP67 לנורת LED 6W/m 24V 3000K 320lm/m CRI96 SDCM3 מוגן UV, עמיד בטמפ' סביבה מינ' 25°C, מקס' 60°C. עמידה בבדיקות LM80,LM79 לדעיכת הלד. תאורה הומוגנית ללא נקודות + פרופיל התקנה	LED-LINEAR VENUS TV W825 + 10000049-01		אלתם שטייניץ	מ"א	138.8		
1.01.4	LWO	CNC	ספק כח DALI לעמסום	ספקי כח		אלתם שטייניץ	מ"א	14		
1.05	PR	תרנים	ג"ת מוגן מים IP66 לנורת LED 41W 220V 3000K 3892lm MacAdam3 אלומה 8 מעלות IK08 + ספק כח אינטגרלי DALI לעמסום	THORN Contrast 96633444 CONT3 12L105-830 NB HFX 6K ANT	גרפיט	אלתם שטייניץ	יח'	16		
1.06.1	PR1	כבלים	ג"ת מוגן מים IP67 לנורת LED 36W 500mA 4000K 3120lm CRI85 MacAdam3 אלומה 11 מעלות+ קסקט+HC	DLED HIVE24-500-3000K-11	גרפיט	אלתם שטייניץ	יח'	22		
1.06.2			דרייבר חיצוני DALI לעמסום			אלתם שטייניץ	יח'	22		
1.07	PR2	חזית צד קורה תחתונה	ג"ת מוגן מים IP66 לנורת LED 41W 220V 3000K 3892lm MacAdam3 אלומה 8 מעלות IK08 + ספק כח אינטגרלי DALI לעמסום	THORN Contrast 96633444 CONT3 12L105-830 NB HFX 6K ANT	גרפיט	אלתם שטייניץ	יח'	32		

סה"כ



גשר הולכי רגל מעל כביש 444 שהם

הפרויקט:

LWO

סימן הגוף:

מאחז יד, CNC

מיקום:

ג'ית לניארי גמיש מוגן מים IP67 לנורת LED 6W/m 24VDC 3000K 320lm/m CRI96 SDCM3 למטר, עשוי פוליאוריתן אופל עטוף. מוגן UV, עמיד בטמפי סביבה מיני 25°C, מקסי 60°C. עמידה בבדיקות LM80, LM79 לדעיכת הלד. תאורה הומוגנית ללא נקודות.

תאור:

פרופיל התקנה

אביזרים:

ראה פרט

התקנה:

6W 24VDC

הספק:

Nichia LED SMD 6W/M 24VDC 3000K 320lm/m CRI96 SDCM3

נורה:

60000 ש"י

אורך חיי נורה:

חיצוני לעמעום DALI

ספק כח:

לבן

צבע גמר:

מידות חוץ:

לפי מפרט. ניתן לחיתוך כל 62.5 מ"מ

אורך:

15 מ"מ

גובה:

16 מ"מ

רוחב:

משקל הגוף:

IP67

הגנה ממים:

VENUS TV W825 + 10000049-01

מק"ט:

LED Linear

יצרן:

אלתם שטייניץ

יבואן:

אילן 050-2177314

איש קשר:

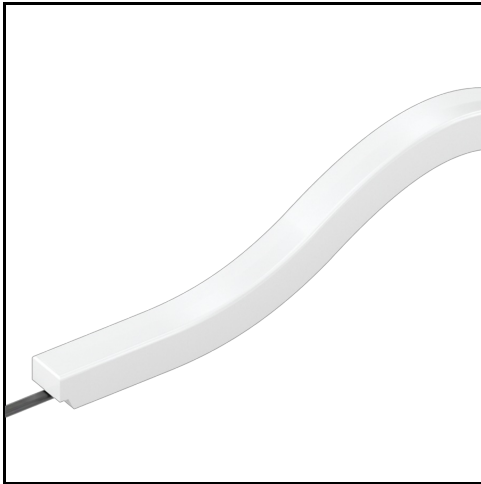
הערות:

VarioLED™ Flex VENUS White Top View IP67

Area: **Outdoor Luminaires**

Category: **Flexible light lines**

Mounting: **Surface-mounted, Clips and profile without mounting channel / Surface-mounted, Clips and profile with mounting channel / Surface-mounted, SST Clips / Surface-mounted, Clips**



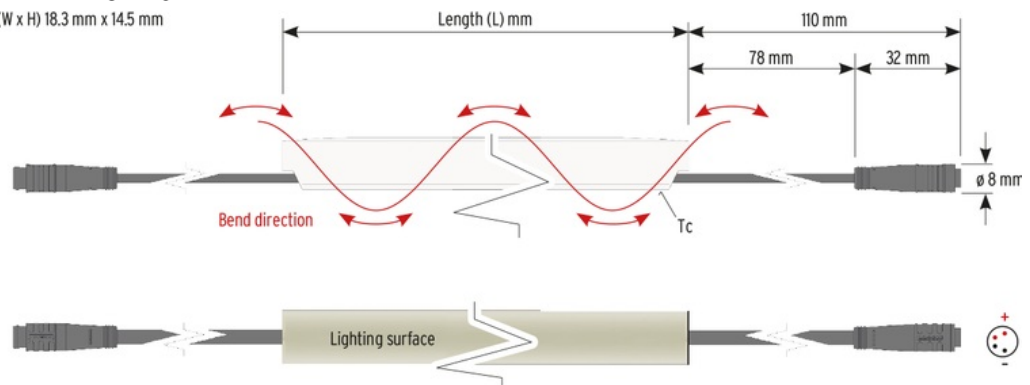
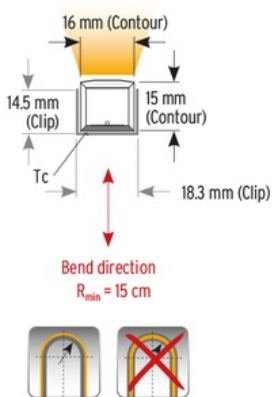
Light lines bendable in one direction (top view or side view) with a perfectly homogeneous and dot-free light surface for outdoor architectural lighting.

- VENUS is a polyurethane encapsulated luminaire. Resistance and chemical stability against urban gases.
- With an efficiency up to 95 lm/W, VENUS stands out as one of the most efficient light line available to date.
- The various lumen output and a large panel of available CCTs turns VENUS into a modular lighting design toolkit.

Detailed specification text in download section.

DIMENSIONS & AVAILABLE LENGTHS

Measurements VarioClip and VarioContour (W x H) 18.3 mm x 14.5 mm



110 mm IP67 plug in connector (male / female) on both ends

At maximum length only one side with IP67 plug in connector male, no female connector. Tc-point (Case temp.) on the rear side of the module

Tolerance +/- 5 mm

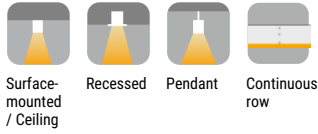
Fixture build to length (not field cuttable): $L = (N \times 62.5 \text{ mm}) + 26 \text{ mm}$; $N = 3 \dots 80$; $L_{\min} = 213.5 \text{ mm}$; $N_{\max} = 80$; $L_{\max} = 5,026 \text{ mm}$

TECHNICAL SPECIFICATIONS

Certifications



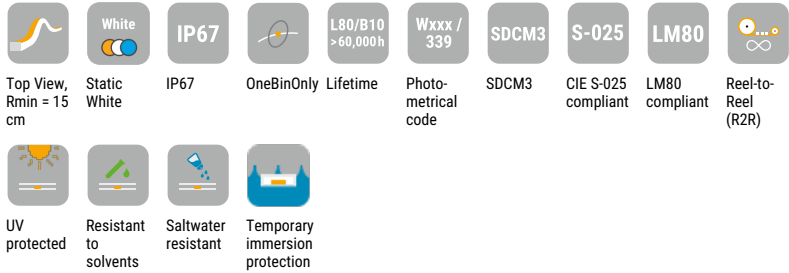
Key Features



Awards



Technical Data/Performance



ELECTRICAL & OUTPUT DATA

Voltage	24 Volt (23 V _{min} , 25 V _{max})
Case Temperature (T _{Cmin} & T _{Cmax})	T _{Cmin} = -25°C, T _{Cmax} = specific, see Table below
Storage Temperature (T _{Smin} & T _{Smax})	T _{Smin} = -30°C, T _{Smax} = 85°C
Ambient Temperature (T _{Amin} & T _{Amax})	T _{Amin} = -25°C, T _{Amax} = specific, see Table below

VarioLED™ Flex VENUS White Top View IP67	VENUS White TV	PHOBOS White TV	SKYLLA White TV
Power (W/m) ^A	6	10	15
Efficacy (lm/W) ^A	72	71	76
max. length (m)	5.03	5.03	4.03
max. serial run length (m)	5.0	5.0	4.0
CRI / R9 (up to)	96 / 81	96 / 81	86 / 36
Temperature Tc-point (T _{Cmax}) ^B	70°C	70°C	70°C
max. ambient temp. (T _{Amax})	50°C	50°C	50°C

VarioLED™ Flex VENUS White Top View IP67		VENUS White TV		PHOBOS White TV	SKYLLA White TV
Color temperature ^C		luminaire lumens/meter (lm/m) ^A			
Order Code	Delivered CCT				
● W820	2,400K	250		410	660
● W822	2,700K	280		470	760
● W825	3,000K	320		540	860
● W827	W927 3,500K 3,400 K	280		460	920
● W830	W930 3,900K 3,800 K	280		470	970
● W835	W935 4,600K 4,400 K	290		480	1020
● W840	W940 5,500K 5,600 K	300		490	1040
● W850	7,200K	430		710	1140

! To configure the specific luminaire please use the online configurator.

Please note: The orange values are CRI 90 specifications.

^AThe given data are typical values. Due to tolerances of the production process and the electrical components, photometric values and electrical power can vary up to 10%

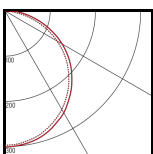
^BThe Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

^CIn case of IP67 products, tolerances in the color temperature can occur.

! Note: -40% luminous flux at opal and -25% with diffuse cover.

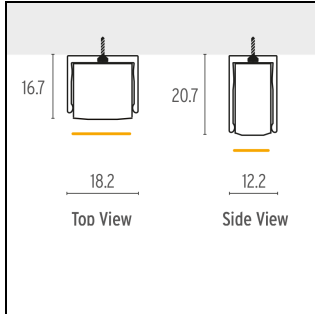
AVAILABLE OPTICS

Polyurethane encapsulation

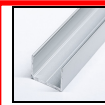


MOUNTING

Surface-mounted, Clips and profile without mounting channel



Mounting accessories

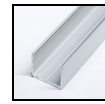


Vario Contour TV Channel
2,000 mm aluminum profile (only for Top View light lines)
Art.-#: 10000049-01

Description

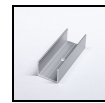
Continuous anodized aluminum surface mounting profile designed to fit Venus TV product.

Example of application



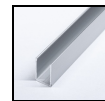
Vario Contour TV Channel
4,000 mm aluminum profile (only for Top View light lines)
Art.-#: 10000049-01-4m

Continuous anodized aluminum surface mounting profile designed to fit Venus TV product.



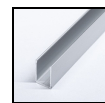
VarioClips VENUS TV 50 mm
Mounting-Clip for Venus TV (only for Top View light lines)
Art.-#: 13000010-01

Aluminum surface mounting bracket. Recommended for overhead mounting 5 brackets per meter (3 brackets for other mountings).



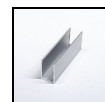
VarioContour SV Channel
2,000 mm aluminum profile (only for Side View light lines)
Art.-#: 10000048-01

Continuous anodized aluminum surface mounting profile designed to fit VENUS SV product.



VarioContour SV Channel
4,000 mm aluminum profile (only for Side View light lines)
Art.-#: 10000048-01-4m

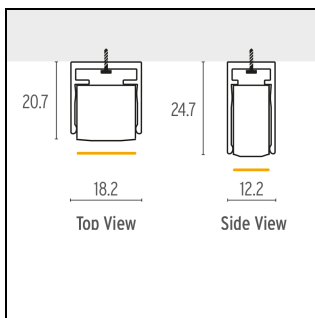
Continuous anodized aluminum surface mounting profile designed to fit Venus SV product.



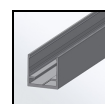
VarioClip VENUS SV 50mm
Mounting-Clip for Venus SV (only for Side View light lines)
Art.-#: 13000011-01

Aluminum surface mounting bracket. Recommended for overhead mounting 5 brackets per meter (3 brackets for other mountings).

Surface-mounted, Clips and profile with mounting channel



Mounting accessories

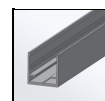
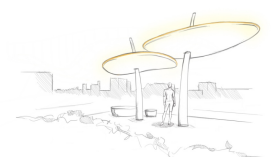


VarioContour VENUS TV CC
2,000 mm aluminum profile with cable runway (only for Top View light lines)
Art.-#: 10000339

Description

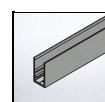
Continuous aluminum surface mounting profile. Cable runway allows the cables to run underneath the fixture.

Example of application



VarioContour VENUS TV CC
4,000 mm aluminum profile with cable runway (only for Top View light lines)
Art.-#: 10000339-4m

Continuous aluminum surface mounting profile. Cable Runway allows the cables to run underneath the fixture.



VarioContour VENUS SV CC
2,000 mm aluminum profile with cable runway (only for Side View light lines)

Continuous aluminum surface mounting profile. Cable Runway allows the cables to run underneath the fixture.

VOLTAGE DROP INFORMATION FOR THE FEED-IN LINE (PSU / CONTROL TO FIXTURE)

0.34 mm² / AWG 22

VarioLED™ Flex VENUS White Top View IP67	VENUS White TV	PHOBOS White TV	SKYLLA White TV
Product run Length	max. cable length between PSU / Control unit and the luminaire		
1 m	32.3 m	19.4 m	12.9 m
2 m	16.1 m	9.7 m	6.4 m
3 m	10.7 m	6.4 m	4.3 m
4 m	8 m	4.8 m	3.2 m
5 m	6.4 m	3.8 m	

1.5 mm² / AWG 15

VarioLED™ Flex VENUS White Top View IP67	VENUS White TV	PHOBOS White TV	SKYLLA White TV
Product run Length	max. cable length between PSU / Control unit and the luminaire		
1 m	142.8 m	85.6 m	57.1 m
2 m	71.4 m	42.8 m	28.5 m
3 m	47.6 m	28.5 m	19 m
4 m	35.7 m	21.4 m	14.2 m
5 m	28.5 m	17.1 m	

Calculation based on a max. voltage drop of 0.85 V.
Calculation refers to the cable configuration on-site.



גשר הולכי רגל מעל כביש 444 שהם

הפרויקט :

PR+PR2

סימן הגוף :

תרנים, חזית צד קורה תחתונה

מיקום :

ג'ית מוגן מים IP66 לנורת MacAdam3 3891lm LED 41W 220V 3000K אלומה 8 מעלות IK08, גוף יצוק בשילוב זכוכית מחוסמת

תאור:

אביזרים:

ע"ג תרנים וחזית

התקנה :

41W 220V

הספק :

LED CON312L105-830NB 3.41W 220V 3000K 324.25lm SDCM3

נורה :

50000 ש"י

אורך חיי נורה :

אינטגרלי לעמעום DALI

ספק כח:

גרפיט

צבע גמר :

מידות חוץ:

239 מ"מ

קוטר:

156 מ"מ

גובה:

5.07 ק"ג

משקל הגוף:

IP66

הגנה ממים :

Contrast 96633444 CONT3 12L105-830 NB HFX 6K ANT

מק"ט:

THORN

יצרן:

אלתם שטייניץ

יבואן :

אילן 050-2177314

איש קשר:

הערות :

Contrast

96633444 CONT3 12L105-830 NB HFX 6K ANT

LED 41W CON312L105-830NB	ISO 9223 C5	IP66	IK08							T _a - 20 + 35
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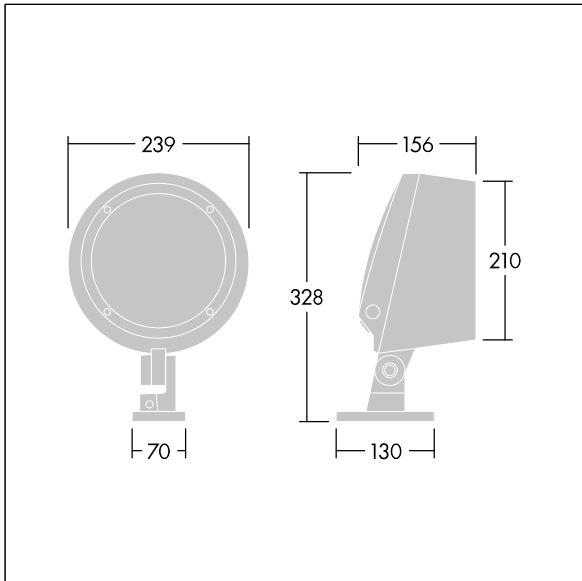
Contrast

A medium architectural Bracket mounted LED floodlight with 12 LEDs driven at 1050mA and a narrow beam distribution. LED driver, DALI-2 dimmable. Class II electrical, IP66, IK08. Body: die-cast, powder coated, textured anthracite (close to RAL7043). Compatible with coastal environments. Glass: tempered, 5mm thick. Gasket: EPDM. Screws: geomet. Equipped with 6kV surge protection device. Complete with 3000K LED

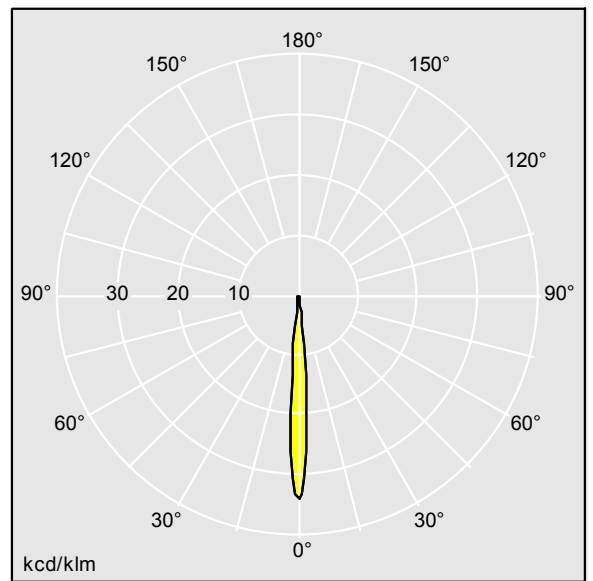
Dimensions: Ø239 x 156 mm
 Luminaire input power: 41 W
 Luminaire luminous flux: 3891 lm
 Luminaire efficacy: 95 lm/W
 Weight: 5.07 kg



TLG_CON3_F_S_12L.jpg



TLG_CONL_M_12L.wmf



TL_CONT312L105NB830.ltd

Lamp position: STD - standard
 Light Source: LED
 Luminaire luminous flux*: 3891 lm
 Luminaire efficacy*: 95 lm/W
 Lamp efficacy: 94 lm/W
 Colour Rendering Index min.: 80
 LOR: 1,00 ULOR: 0,00 DLOR: 1,00

Ballast: 1 x 87500884 DRV TR LCO 40W 1.05A 64V
 D #EXC3 VAR
 Correlated colour temperature: 3000 Kelvin
 Chromaticity tolerance (initial MacAdam): 3
 Rated median useful life*:
 L80 50000h at 25°C
 Luminaire input power*: 41 W Power factor = 0.97
 Dimming: Dali2Dim

All values marked with an * are rated values. Thorn uses tried and tested components from leading suppliers, however there may be isolated instances of technology-related failures of individual LEDs during the rated product lifetime. International standards set the tolerance in initial flux and connected load at $\pm 10\%$. Unless stated otherwise, the values apply to an ambient temperature of 25°C. In most products the failure of one LED point causes no functional impairment to the lighting performance of the luminaire and is therefore no reason for complaint. Unless otherwise stated all Thorn LED products are suitable for unrestricted use (rated RG1) with regard photobiological blue light safety (IEC/EN60598-1).

Thorn Lighting is constantly developing and improving its products. The right is reserved to change specifications without prior notification or public announcement.
 © Thorn Lighting



גשר הולכי רגל מעל כביש 444 שהם

הפרויקט :

PR1

סימן הגוף :

כבלים

מיקום :

ג'יט מוגן מים IP67 לנורת LED 36W 500mA 4000K 3120lm CRI85 אלומה 11 מעלות, גוף עשוי אלומיניום בשילוב פוליקרבונט

תאור:

קסקט+HC

אביזרים:

ע"ג כבלים

התקנה :

40W 48V

הספק :

LUXEON LED 1.5W 500mA 4000K 130lm CRI85

נורה :

50000 ש"י

אורך חיי נורה :

חיצוני לעמסם DALI

ספק כח:

גרפיט

צבע גמר :

מידות חוץ:

114 מ"מ

קוטר:

84 מ"מ

עומק:

1.6 ק"ג

משקל הגוף:

IP67

הגנה ממים :

HIVE24-500-3000K-11

מק"ט:

DLED

יצרן:

אלתם שטייניץ

יבואן :

אילן 050-2177314

איש קשר:







הערות :

Innovative and stylish design transforms this fixture into a powerful washer, generating a uniform light output from a compact unit. With an aluminum body, perfect proportions and sleek design, it fits elegantly into every environment.

The **HIVE** is operated at 350/500/700mA with a maximal power consumption of 40W per fixture. Option for 12/16/18/24 LEDs ranging from 11 to 37 degrees and Oval. The HIVE can be operated as 1/2/3 or 4 channels fixture with any color combination and CRI ranging from 2200 to 6500K. the **HIVE** is suitable for almost any outdoor need.

As one of the smallest high-power LED fixtures around and with IP rating of 67, **HIVE** is truly versatile and suitable for Architectural lighting, wall washing, areal lighting for retail, commercial and hospitality.



	CRI		lm	lm/w				
IP 67	70-90	40W	3900lm	103 lm/w	11-37° / Oval	2700 - 6500K	RGB / RGBW / DW	RAL / Anodize

OUTPUT

LED System	High power Luxeon Rebel ES / Luxeon Rebel Z / Luxeon Z ES
Intensity	3900 lm @ full power CRI 80 4000K (18 LED'S @ 500mA)
Channel Range	1 / 2 / 3 / 4 Channel
Color Range	2200K - 6500K RGB / RGBW/DW
Optical System	11° / 16° / 24° / 28° / 32° / 37° / Oval 14 * 41° / Oval 18 40° / 20° frost

ELECTRICAL

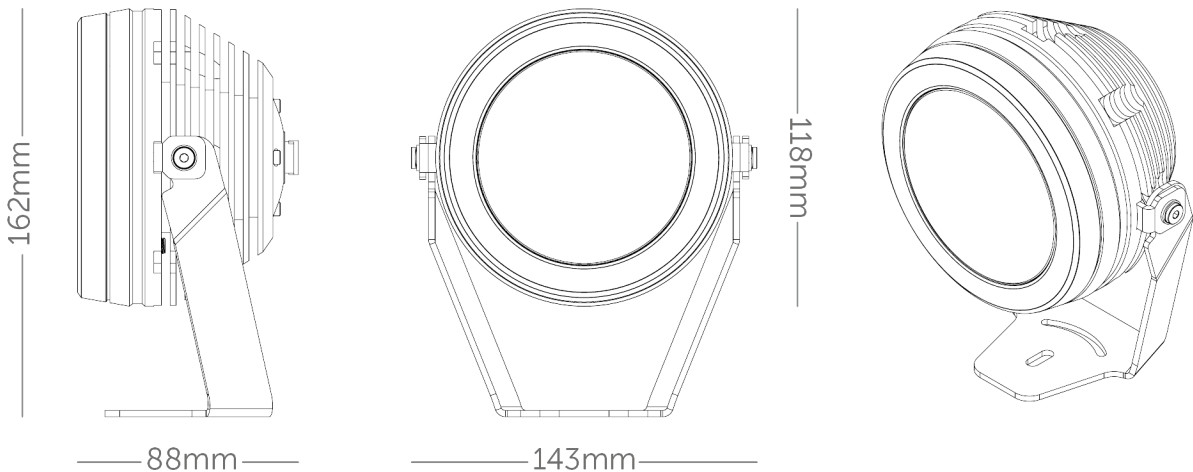
Control	External constant current driver (max. 700mA)
Input Voltage	48V
Consumption	40W MAX (with Thermal Protection only!)
Max LED's	RGBW: 24 LEDs @500mA WHITE : 24 LEDs @350mA / 18 LEDs @500mA / 12 LEDs @700mA
Efficiency LM/W	Net 103 lm/w @ 350mA / 4000K / 80CRI
Connection	Cable 10X24AWG

ENVIRONMENTAL

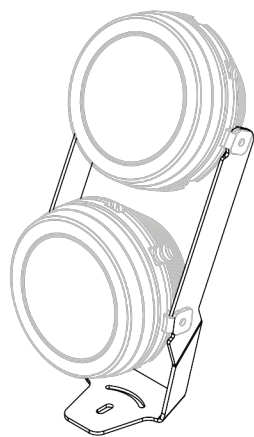
IP Rating	IP 67
Working Temp.	-18°C ~ 40°C / 0°F ~ 104°F
Storage Temp.	-18°C ~ 40°C / -0.4°F ~ 104°F

PHYSICAL

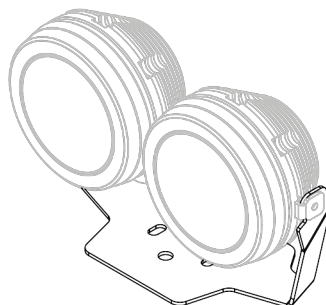
Size	L94 * Ø114mm
Housing	15µ Anodized aluminum



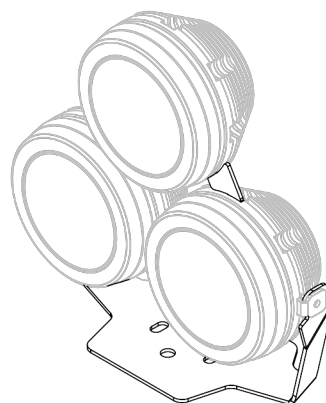
BRACKETS



Double Bracket
60° Tilt, 290 * 135mm

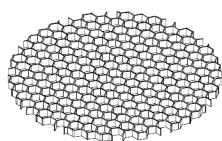


Double Bracket
90° Tilt, 160* 265mm

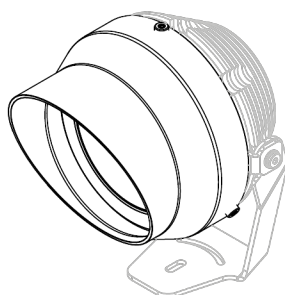


Triple Bracket
90° Tilt, 270* 265mm

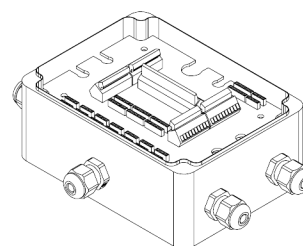
ACCESSORIES



Hobeycomb
Cell W 5.2mm, H 3.2mm



Angular Louver



Configuration Box
160 * 120 * 80mm

Pin

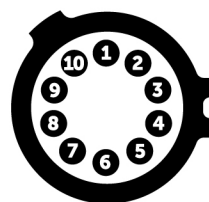
2
3
1
6
7
4
8
10
9
5

Polarity

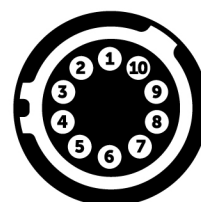
CH 1 +
CH 1 -
CH 2 +
CH 2 -
CH 3 +
CH 3 -
CH 4 +
CH 4 -
NTC
NTC

Color

Black
White
Red
Blue
Yellow
Green
Orange
Purple
Grey
Brown



Male Side



Female Side

PINOUT