

VIMALUX

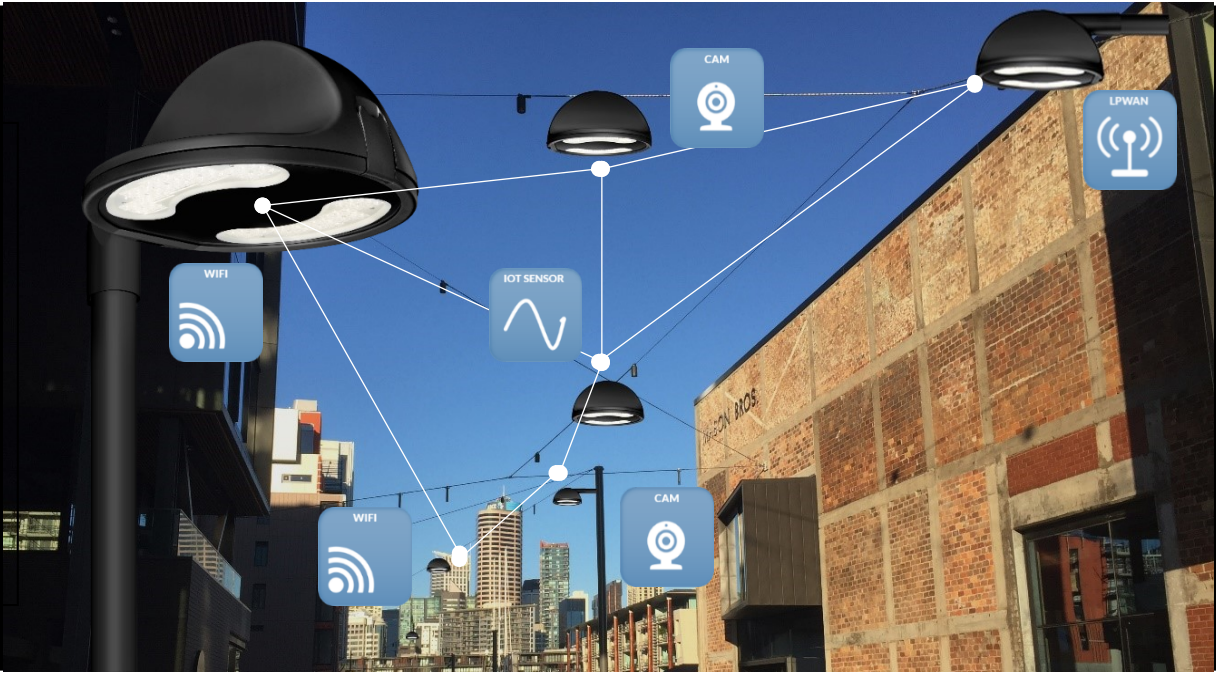


GYRO™

SMART NODE STREET LIGHT

FROM STREET LIGHT TO SMART CITY NODE

With GYRO™ Streetlights used as “Smart Nodes”, your lighting infrastructure is transformed from a single purpose asset to a smart edge network or real estate space of infinite possibilities and value.



The GYRO design facilitates a seamless and feasible “as you grow” migration from simple streetlights to advanced Smart City Nodes.

Luminaire integration of LPWAN based smart lighting control and as well as high value infrastructure such as WiFi, Cameras, Sensors, 5G and much more is finally possible and feasible.

Contact us today to learn more about our pre integrated Smart City Kits (SCK) for GYRO™ with market leading smart element manufacturers – or ask us to ingrate your smart city element...

GYRO with Integrated LoRaWAN Gateway

GYRO with Integrated Edge AI Processor and Traffic Detection Camera Sensor

GYRO with Integrated and Wi-Fi enabled CCTV Camera

GYRO with Integrated Wi-Fi Access Point



TEKTELIC
communications

kerlink
communication is everything

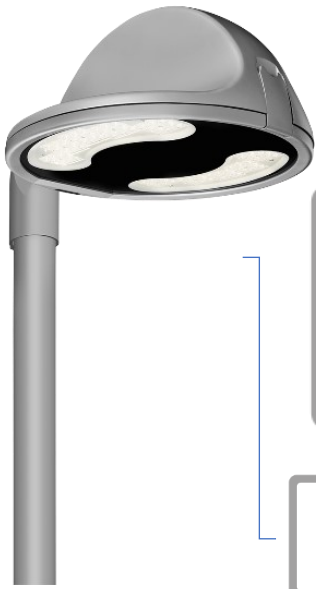


KHADASH



MOBOTIX
AXIS
COMMUNICATIONS

COMMSCOPE®
RUCKUS®



IN COMPLETE CONTROL - ANYWHERE YOU ARE



GYRO™ PLUS comes fully equipped with an NFC programmable DALI2 LED driver with advanced local and standalone dimming and control features like Astro dimming, Constant Lumen Output and much more.

Combined with optional pre-installed NEMA or ZHAGA socket, any wireless Lighting Control Unit can be added for centralized Control Management Systems.



For remote and central Control Management System, check out FELICITY CONNECT™, our Lighting Control and IoT Smart City Solution.

ANY ROAD AND ANY POLE – ONE SIZE FITS ALL

GYRO™ is designed specifically to offer a diverse range of interchangeable fittings and installation options to suit any existing pole infrastructure, making it the ideal LED replacement choice. Design your streets with GYRO™ to increase safety and atmosphere for all road types from traffic roads and highways to residential streets and urban spaces



PARK



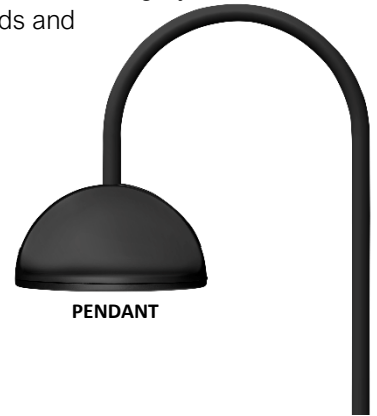
SIDE



TOP



SUSPENDED



PENDANT

INTERCHANGEABLE MOUNTING – LESS STOCK AND SPAREPARTS

With GYRO's unique mounting and tilt system, a side mounted road light can quickly and easily be transformed into a park light and vice versa and etc. This flexibility enables a completely new approach to city wide deployments and maintenance planning while also achieving a using a single and consistent luminaire design experience.



FLEXIBLE PHOTOMETRICAL DESIGN

The innovative and highly flexible lighting system of GYRO™ cover all Traffic Category Roads both in terms of power as well as optics. In addition, the LED modules are easily replaceable and thus a GYRO can easily be converted from one category to another.



GYRO-PLUS-20

20 pcs. High Power LEDs
14W-43W Optional Power Setting
10 different optical lenses

Residential , Park, Paths, Driveways

1158 AU/NZ
P1, P2, P3, P4 Roads

EU/DK
ME4, ME5



GYRO-PLUS-40

40 pcs. High Power LEDs
50W-72W Optional Power Setting
10 different optical lenses

**Urban Space, Intersection
Round About, Parking Area**

1158 AU/NZ
V4,V3,V2 Roads

EU/DK
ME2, ME3



GYRO-PLUS-60

60 pcs. High Power LEDs
73-115W Optional Power Setting
10 optical lenses different

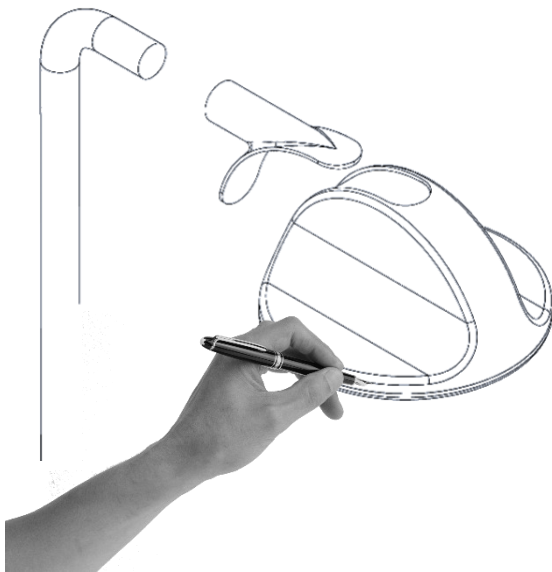
**Urban Space, Intersection
Round About, Parking Area**

1158 AU/NZ
V1, V2 Roads

EU/DK
ME1, ME2

MODERN YET CLASSIC AND TIMELESS

GYRO™ is distinct and bold, yet classic in its expression. The design is a result of both Scandinavian and Italian traditions for minimalism and organic lines.



EASY ACCESS – REPAIR IN THE AIR

GYRO™ offer tool free and immediate access to all internal active parts of the luminaire. The unique gear access system makes upgrades and site repair a feasible option.





LUMEN AND EFFICIENCY

MODEL	LED QTY	LED CURRENT	NOMINAL SYSTEM POWER		LUMEN*			LUMEN/WATT 4000k
		SETTING	W	4000k	3000k	2700k	LM/Watt	
		mA						
GYRO-P-20	20	200	14	2000	1750	1610	130	
		250	17	2400	2125	1955	135	
		300	20	2800	2500	2300	141	
		400	26	3500	3300	3036	138	
		500	32	4300	4000	3680	136	
		600	38	5100	4700	4324	133	
		650	42	5500	5200	4784	130	
GYRO-P-40	40	350	45	6500	6045	5561	145	
		400	50	7150	6500	5980	142	
		500	61	8200	7600	6992	138	
		600	72	9700	9000	8280	133	
GYRO-P-60	60	400	7	10200	9490	8731	140	
		500	89	12000	11540	10617	135	
		600	107	14231	13903	12791	133	
		650	115	14950	14375	13225	130	

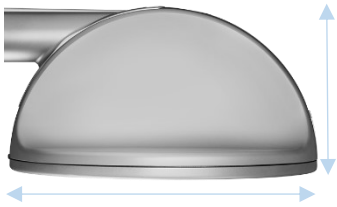
LIFETIME AND WARRANTY

CALCULATION	L90@25° B10	L80@50° B10	STANADARD WARRANTY
LLMF	>90.000 hours	>60.000 hours	10 Years
TM-21	>54.000 hours	>54.000 hours	



DIMENSIONS AND WEIGHT

MODEL	HEIGHT Mm	WIDTH mm	WEIGHT Kg
GYRO-P-20	220	440	7,0
GYRO-P-40			7,1
GYRO-P-60			7,6
GYRO-TOP MOUNTING (TM)	-	-	+1,4
GYRO-SIDE MOUNTING (SM)	-	-	+1,0
GYRO-PARK MOUNTING (PM)	-	-	+1,7
GYRO-PENDANT/WIRE SUSPENDED (PE/WS)	-	-	+0,8
GYRO + SCK-WIFI	-	-	+0,9
GYRO + SCK-CAM	-	-	+0,7



SIDE



FRONT

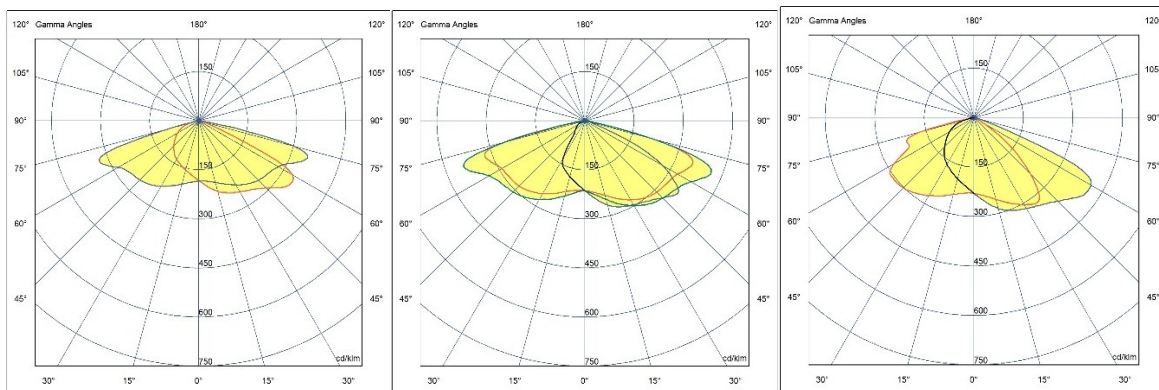
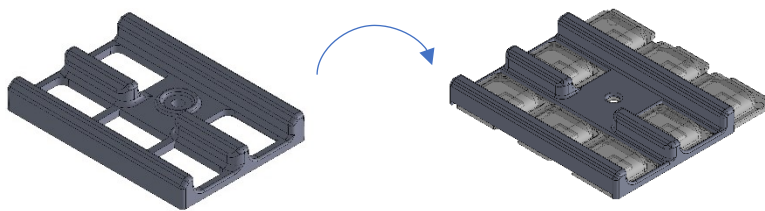


STREET FACING

Optics Shields

Available for Back light, Left and Right spill

Installation: on the optics



Original

-

Back

-

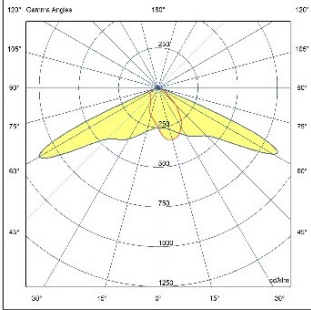
Right



LIGHT DISTRIBUTION – PHOTOMETRIC LENSES

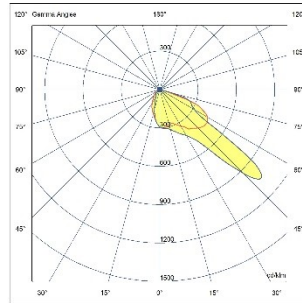
Bicycle Path and Path ways

L1

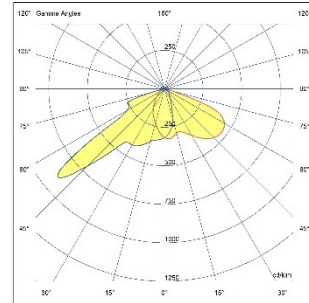


Pedestrian Crossing

TPL

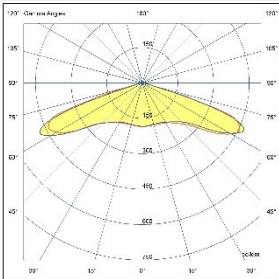


TPR

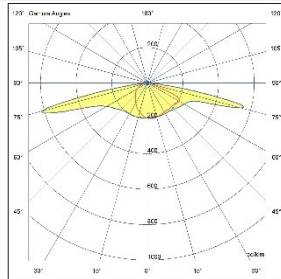


Park, Area Lighting AU/NZ P Cat

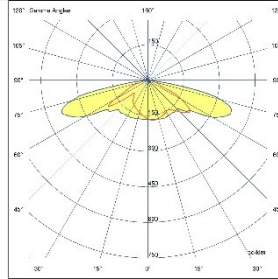
L5



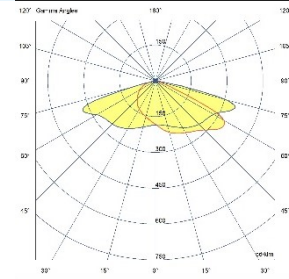
T6 (Au)



T8

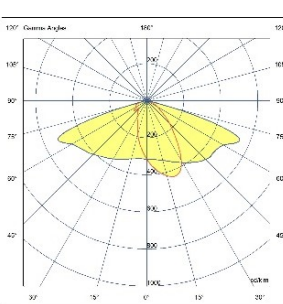


L9 (NZ)

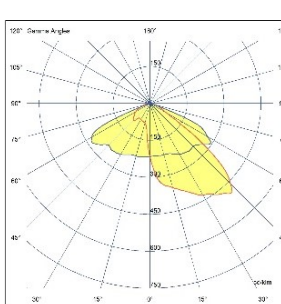


Road Lighting – Short poles distance, low glare, EU standard

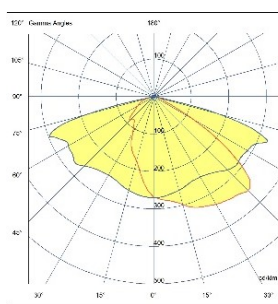
L2



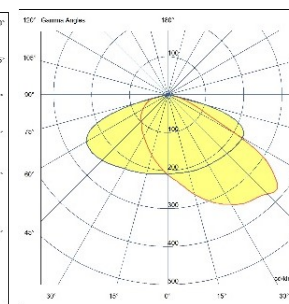
TEW (wet)



L3

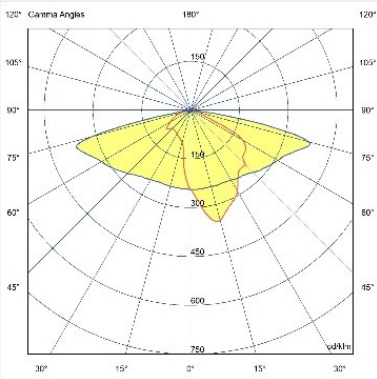


T4

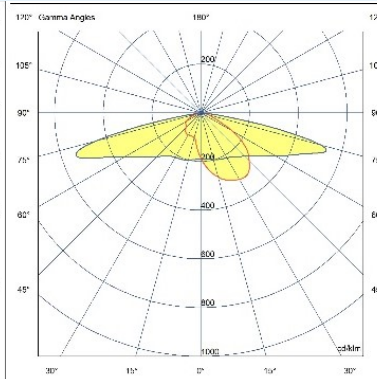


Road Lighting – Long poles distance, V Cat

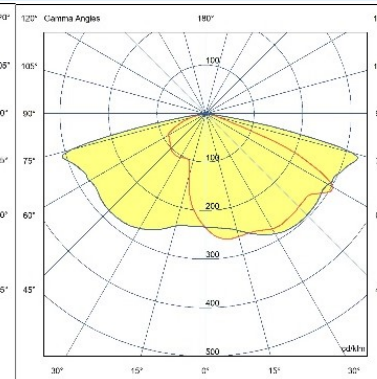
L7



L12



L13



DISCOMFORT GLARE INDEX

AZ/NZS 1158.3 – DGI values

MODEL	NOMINAL SYSTEM POWER	LUMEN @ 3000K	LUMEN @ 4000K	DISCOMFORT GLARE INDEX BY LENS TYPE									
				L1		L5		T6 (AU)		L8		L9(NZ)	
				3000K	4000K	3000K	4000K	3000K	4000K	3000K	4000K	3000K	4000K
GYRO-P-20	W	LM	LM										
	14	1700	2000	20820	24494	11227	13208	25116	29548	19327	22738	10725	12618
	17	2125	2400	26025	29393	14034	15850	31395	35458	24159	27286	13407	15142
	20	2500	2800	30618	34292	16510	18491	36935	41367	28423	31833	15773	17665
	26	3300	3500	40415	42865	21793	23114	48754	51709	37518	39792	20820	22082
	32	4000	4300	48988	52662	26416	28397	59096	63528	45476	48887	25236	27129
	38	4700	5100	57561	62460	31039	33680	69438	75347	53434	57982	29652	32176
42	5200	5500	63684	67359	34341	36322	76825	81257	59119	62530	32807	34700	

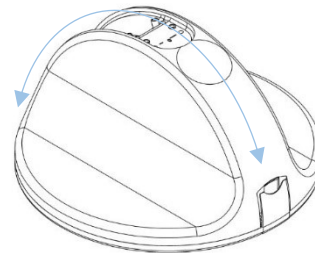
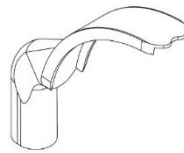
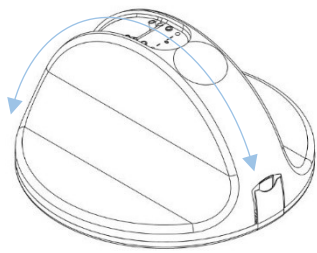
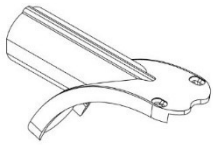
MOUNTING ADAPTERS – TILT SETTINGS

SIDE MOUNTING (SM)

Spigot Size: Ø42-60mm
Min outreach 100mm
0-15°

TOP MOUNTING (TM)

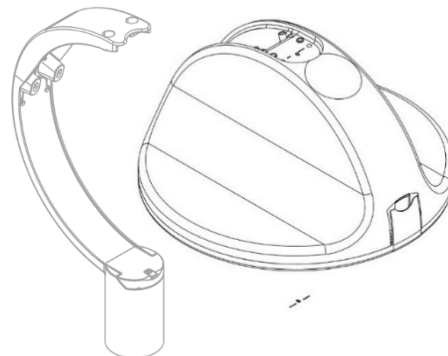
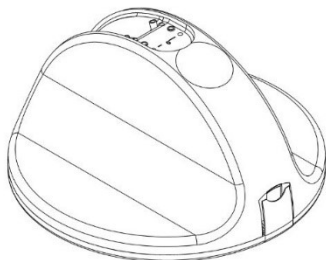
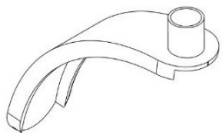
Spigot Size: Ø42-60mm
0-5°



PENDANT/WIRE SUSPENDED MOUNTING (PE/WS)

PARK MOUNTING (PM)

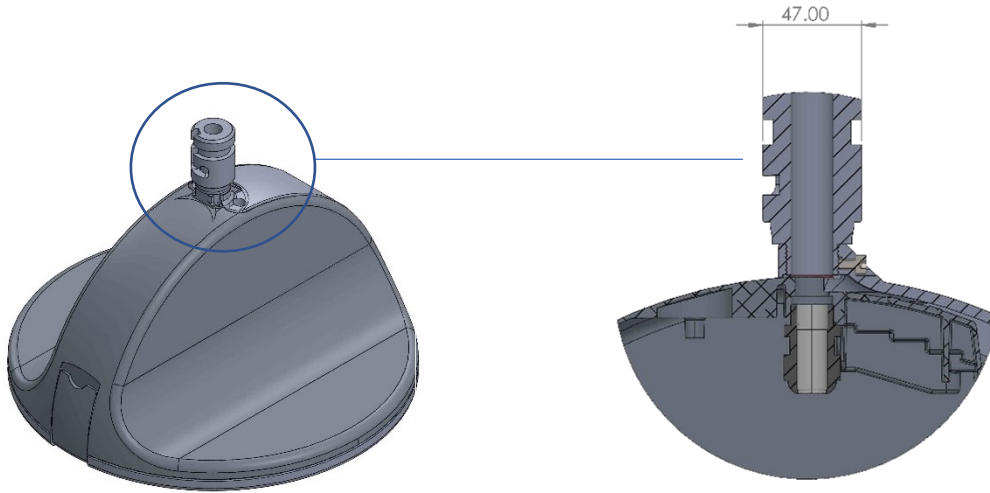
Spigot Size: Ø60-80mm



SPIGOTS FOR PENDANT MOUNTING (PE)

AS 1158.6 "J-HOOK" PENDANT SPIGOT ADAPTOR

CUSTOM PENDANT SPIGOT ADAPTORS ON REQUEST



TOP MOUNT AND SIDE MOUNT SPIGOT ADAPTORS

OPTIONAL Side
SMALL SPIGOT ADAPTOR
32-42mm
Large SPIGOT ADAPTOR
60-80mm

TOP
LARGE SPIGOT ADAPTOR
60-80mm

Park
XL SPIGOT ADAPTOR
80- 110 mm



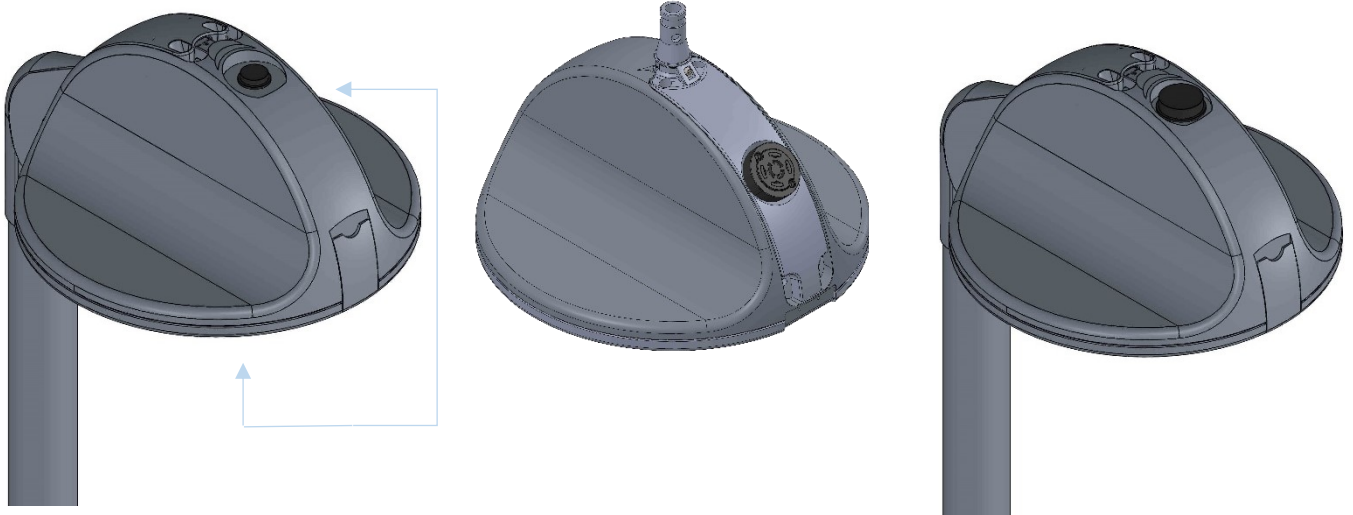
CUSTOM adaptors available upon request

EXTERNAL CONTROL CONNECTORS

ZHAGA BOOK 18 SOCKET (ZU/ZD/ZUD)
(VDC)
(OPTIONAL)

NEMA FOR
PENDANT MOUNT
(OPTIONAL)

NEMA FOR SIDE and TOP MOUNT
(OPTIONAL)



LUMINAIRE COLOUR OPTIONS

NAME	ORDER CODE	RAL CODE (Equivalent)
Black	BK	7016
White	WH	9002
Light Grey	LG	7005
Dark Grey	DG	7022

GENERAL SPECIFICATIONS FOR ALL GYRO PLUS VERSIONS

FREQUENCY (Hz)	50/60
POWER FACTOR (COS)	>90
VOLTAGE	AC 200-240 V
DRIVER CONTROL INTERFACE	DALI2
COLOR	DARK GREY, LIGHT GRAY, CUSTOM COLOR ON REQUEST
BODY PARTS MATERIAL	Alu Alloy: YLD104 (Die Cast)
ISOLATION CLASS	CLASS I / CLASS II
SURGE PROTECTION	(SetFuse SD10C277LM) Max Surge Current: 15kA – with fault indicator (LED)
INGRESS PROTECTION	IP66
WIND LOAD FACTOR	<0.098m2
IMPACT PROTECTION	IK8
OPERATING TEMPERATURE	-20°C / +50°C



CERTIFICATIONS/ACCREDITATIONS TEST REPORTS

AS/NZS	IEC (CB) LVD	CE LVD	CE EMC
AS/NZS 1158.6:2015 AS/NZS 60958.1:2013 AS/NZS 60958.2.3:2015 AT Approved M30 listed (NZTA) NEM Load Table (AEMO) PowerCor/CitiPower Approved	IEC 60958-1:2014 IEC EN60958-2-3:2002 IEC 60958-2-3:2002/AMD1:2011 IEC 62471:2006 IEC 62493:2015 IEC LM-80-08	EN 60958-1:2015 EN 60958-2-3:2003/A1:2011 EN 62471:2008 EN 62493:2015	EN 55015:2013/A1:2015 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013
Lighting Tests	Salt Spray Test >1000 hrs	Vibration Test	EU RoHS
IESNA LM-79-2008	ISO 9227	IEC60068-2-6:2007	EN 62321:2009



ORDER CODE – LUMINAIRE CONFIGURATION

ORDER CODE POSITION	CODE TYPE	OPTIONS	WHAT IS THIS?
1	Product Family	CRUX GYRO RAZO-S RAZO-M	Name of Product Family
2	Quality Model	P E	P= PLUS = Programmable Driver + High Power LEDs E=ESSENTIAL= Dimmable Driver + Medium Power LEDs
3	LED Qty	Look up in Data Sheet Lumen Table	Choose your LED Qty for desired wattage and lumen area
4	LED Current Setting	Look up in Data Sheet Lumen Table	Choose your LED Current Setting and corresponding System Power for exact wattage and lumen required. The driver will then be pre-programmed to this specific setting during production or installation
5	CRI + CCT	730 740 727 830	Colour Rendering Index (Ra) = 70 or 80 = 7 or 8 Choose Colour Temperature: 30= 3000K 40=4000K 27=2700K
6	Body Colour	DG LG C	DG=Dark Grey (RAL XXX) LG= Light Grey (RAL XXX) C = Custom Colour (Specify in Order Text)
7	Lens Type	L1, L2, L3, L4 L5, L7, L9....	Choose Lens Type for desired lighting distribution according to your Lighting Design Requirements
8	Mounting Type	SM TM PM SU PE	SM=Side Mounted TM=Top Mounted PM=Park Mounted WS=Wire Suspended PE=Pendant Mounted
9	External Control Connector	N ZU ZD ZUD	N =NEMA ZU =ZHAGA – facing UP ZD = ZHAGA – facing DOWN ZUD = ZHAGA – 2 pcs. facing UP and DOWN
SCK	Smart City Kit	See Smart City options and codes in respective Datasheets for GYRO and CRUX	CRUX: Choose Smart City Module (SCM) with Camera, WIFI, Sensors etc. GYRO: Choose Smart City Kit (SCK) with Camera, WiFi, Sensors etc.

ORDER CODE CONSTRUCTION

1	2	3	4	5	6	7	8	9	SCK
GYRO	P	20	350	740	LG	L9	TM	N	SCK-WIFI-MESH



GYRO-P-20-350-740-LG-L9-TM-N-(SCK-WIFI-MESH)

GYRO PLUS Street Light with Integrated WiFi Access Point

Top Mounted Street Light with Programmable Driver for **20 LEDs** in **4000K** Colour Temperature set at **350 mA**. Equipped with **L9** optical lenses. **Light Grey** Die-Cast Alu Body. Fitted with **NEMA 7-PIN** for external control device.

Integrated **WiFi Access Point** (Ruckus E510, with internal PoE Inserter) – for **MESH** connectivity to CORE Access Point



VIMALUX

www.vimalux.com

IMPORTANT!

Due to continuous technological innovation, changes in external conditions, and availability of parts and services, the products and specifications displayed in this data sheet are subject to change. Please ask your Felicity Smart Infrastructure representative for full up-to-date technical details