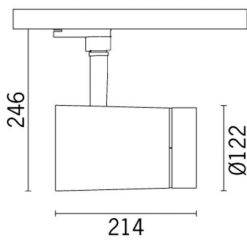# Palco

Product configuration: QG69
QG69: Neutral white medium body spotlight - DALI ballast - wide flood optic

Product code
QG69: Neutral white medium body spotlight - DALI ballast - wide flood optic

Technical description
Adjustable spotlight with adapter for installation on DALI track for high output LED lamp with monochrome emission in a Neutral White (4000K) tone. DALI ballast integrated in the product. Luminaire made of die-cast aluminium and thermoplastic material, allows 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. The luminaire has mechanical aiming locks for both movements, operated using the same tool on two screws, one at the side of the rod and one on the adapter for the track. Passive heat dissipation. Reflector in superpure mirrored aluminium with special faceting that improves the distribution of the light beam (OPTIBEAM). Spotlight can hold up to two flat accessories at the same time. Another external component can also be applied, selected from directional flaps and an anti-glare screen. All external accessories rotate 360° about the spotlight longitudinal axis.

Installation
On a DALI electrified track

Colour	Weight (Kg)
White (01)	Black (04)	2.1

Mounting
dali track|wall surface|ceiling surface

Wiring
DALI components housed in the luminaire

Sistemi_di_controllo_compatibili:
Quick BLE ⧉
Quick DALI - Touch display 7" ⧉
Quick DALI LMS Quick ⧉
Master Pro Evo KNX ⧉

Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	3118	CRI (minimum):	97
W system:	41.7	Colour temperature [K]:	4000
lm source:	3950	MacAdam Step:	2
W source:	36	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	74.8	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	79	Number of optical assemblies:	1
Beam angle [°]:	42°	Control:	DALI-2

Polar

	CIE			Lux				
Imax=6830 cd	nL 0.79				h	d	Em	Emax
	99-100-100-100-79							
	UGR <10-<10				2	1.6	1386	1679
	DIN A.61							
	UTE 0.79A+0.00T				4	3.1	346	420
	F"1=994							
	F"1+F"2=999				6	4.7	154	187
	F"1+F"2+F"3=1000							
	CIBSE LG3 L<1500 cd/m² at 65°				8	6.3	87	105
α=43°	UGR<10	L<1500 cd/mq @65°						

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	71	67	65	63	67	65	64	62	78
1.0	74	71	69	67	70	68	68	65	83
1.5	78	75	74	72	75	73	72	70	88
2.0	80	79	77	76	78	76	75	73	93
2.5	82	81	79	79	79	78	78	75	96
3.0	83	82	81	80	81	80	79	77	98
4.0	84	83	83	82	82	81	80	78	99
5.0	84	84	83	83	83	82	81	79	100

Luminance curve limit

QC		G									
	A		1.15	2000	1000	500			<=300		
	B		1.50		2000	1000	750		500	<=300	
	C		1.85			2000			1000	500	<=300

C0-180

UGR diagram

Corrected UGR values (at 3950 lm bare lamp luminous flux)

Riflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim			viewed					viewed			
x	y		crosswise					endwise			
2H	2H	5.1	5.7	5.4	5.9	6.2	5.1	5.7	5.4	5.9	6.2
	3H	5.1	5.6	5.4	5.9	6.2	5.1	5.6	5.4	5.8	6.1
	4H	5.1	5.6	5.4	5.8	6.1	5.0	5.5	5.3	5.8	6.1
	6H	5.0	5.5	5.4	5.8	6.1	4.9	5.4	5.3	5.7	6.0
	8H	5.0	5.4	5.4	5.8	6.1	4.9	5.3	5.3	5.6	6.0
	12H	5.0	5.4	5.4	5.7	6.1	4.9	5.3	5.2	5.6	6.0
4H	2H	5.0	5.5	5.3	5.8	6.1	5.1	5.6	5.4	5.8	6.1
	3H	5.0	5.4	5.4	5.8	6.1	5.0	5.4	5.4	5.8	6.1
	4H	5.0	5.3	5.4	5.7	6.1	5.0	5.3	5.4	5.7	6.1
	6H	5.0	5.3	5.4	5.7	6.1	4.9	5.2	5.4	5.6	6.1
	8H	4.9	5.2	5.4	5.6	6.1	4.9	5.2	5.3	5.6	6.0
	12H	4.9	5.1	5.3	5.6	6.0	4.8	5.1	5.3	5.5	6.0
8H	4H	4.9	5.2	5.3	5.6	6.0	4.9	5.2	5.4	5.6	6.1
	6H	4.9	5.1	5.4	5.6	6.0	4.9	5.1	5.4	5.6	6.0
	8H	4.9	5.1	5.3	5.5	6.0	4.9	5.1	5.3	5.5	6.0
	12H	4.8	5.0	5.3	5.5	6.0	4.8	5.0	5.3	5.5	6.0
12H	4H	4.8	5.1	5.3	5.5	6.0	4.9	5.1	5.3	5.6	6.0
	6H	4.8	5.0	5.3	5.5	6.0	4.8	5.0	5.3	5.5	6.0
	8H	4.8	5.0	5.3	5.5	6.0	4.8	5.0	5.3	5.5	6.0

Variations with the observer position at spacing:

S =	1.0H	5.6 / -5.4	5.6 / -5.4
	1.5H	8.3 / -6.1	8.3 / -6.1
	2.0H	10.2 / -6.8	10.2 / -6.8