

# DOWNLIGHT SQUARE

LED



**2950  
lm**  
*Net lumen output up to*

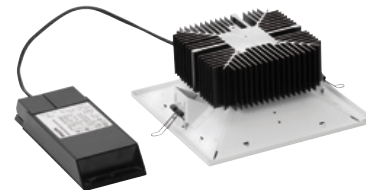
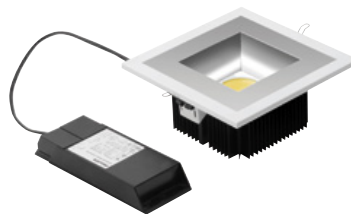
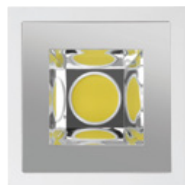
**81  
lm/W**  
*Efficacy up to*

**CRI  
80**



OMS

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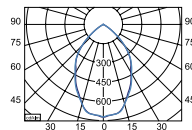
## STANDARD



## ON REQUEST



2950lm 4000K



— C0.0-C180.0 — C90.0-C270.0



## Features

- High efficacy system (up to 81 lm/W)
- Color Rendering Index 80 Ra
- Color temperature 3000K or 4000K
- Beam angle 80°
- Maintenance free
- Environment-friendly (no hazardous materials content)
- Long lifetime 50 000 hours (12 years lifetime of 12 hour-per-day operation cycle)
- Fast and easy tool-less mechanical and electrical installation
- Passive heat sink for optimum thermal management
- 5 years warranty
- Replacement for 1x32W, 2x32W and 2x42W compact fluorescent lamp
- No UV and IR radiation

## Mounting

Ceiling recessed

## Lamps

LED

## Optical system

Reflector

## Light distribution

Direct

## Wiring

Electronic control gear

On request: Dimmable electronic control gear DALI (10-100%)

## On request:

Dimmable electronic control gear DALI (5-100%)

## Materials

Housing: sheet steel, Reflector: MIRO4 aluminium,  
Ring: sheet steel + MIRO5 aluminium

## Surface finish

Housing: white (RAL9003), Ring: white (RAL9003)

## Lifetime

50 000 hrs./L70

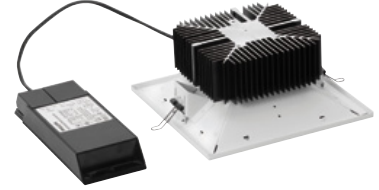
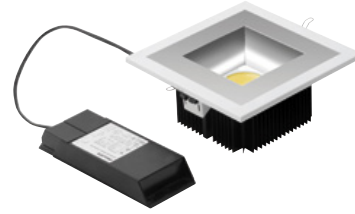
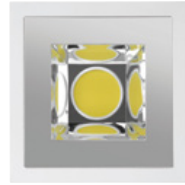
## Ambient temp.

up to + 35°C

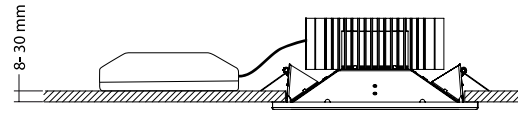
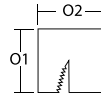
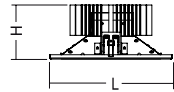
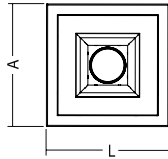
## Weight

2,0 kg (2,3 kg including packing)

# DOWNLIGHT SQUARE



Type	optical system	net lumen output (at Ta = 25 °C)	power	color rendering index	color temperature	dimensions			opening		beam angle	thermal management
	POLISHED	(lm)	(W)	CRI (Ra)	CCT (K)	L	A	H	O1	O2		passive
<b>DOWNLIGHT SQUARE</b>	•	1050	15	80	3000	226	226	100	210	210	80°	•
<b>DOWNLIGHT SQUARE</b>	•	1050	13	80	4000	226	226	100	210	210	80°	•
<b>DOWNLIGHT SQUARE</b>	•	1950	28	80	3000	226	226	100	210	210	80°	•
<b>DOWNLIGHT SQUARE</b>	•	1950	26	80	4000	226	226	100	210	210	80°	•
<b>DOWNLIGHT SQUARE</b>	•	2950	50	80	3000	226	226	100	210	210	80°	•
<b>DOWNLIGHT SQUARE</b>	•	2950	46	80	4000	226	226	100	210	210	80°	•







# DOWNLIGHT SQUARE

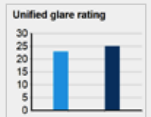
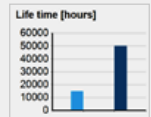
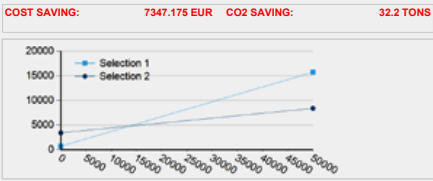
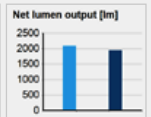
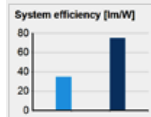


OMS

LED'S compare V1.0

Selection 1			
Manufacturer	OMS		
Type	DOWNLIGHT		
Product name	DOWNLIGHT 211 S POLISHED		
Light source	2x26W TC-DEL		
Color temperature	4000 K		
CRI	80		
Lumen output	3600 Lumen		
Lumen output-light source meas.	3600 Lumen	Luminaire price	€
Wattage	60 W	Cost for light source	4 €
Light source efficacy	60.0 Lumen/W	Color constance	7 MACADAM
LOR	58 %	Lifetime	15000 Hours
System efficiency	34.8 Lumen/W	Maintenance cycle	2.3 times
Net lumen output from luminaire	2088 Lumen	Maintenance factor	0.8 MF
Air condition * Presents detection * Daylight sensor $1 * 1 * 1 = 0.0\%$			
Calcul. Qty of products incl. LLMF	25 PCS		
(Ratio to lumen output of 1st selection)	1.00		
Initial investment costs	725 €		
Energy costs	15000 €		
Reductions (AC, PD, DS)	0 €		
Maintenance	589 €		
<b>Total costs</b>	<b>16314 €</b>		
Total power consumption	75000 kWh	Total Co2 emission	
	48.0 TONS		

Selection 2			
Manufacturer	OMS		
Type	DOWNLIGHT		
Product name	DOWNLIGHT SQUARE		
Light source	FORTIMO GEN 3		
Color temperature	4000 K		
CRI	80		
Lumen output	1950 Lumen		
Lumen output-light source meas.	1950 Lumen	Luminaire price	€
Wattage	26 W	Cost for light source	0 €
Light source efficacy	75.0 Lumen/W	Color constance	3 MACADAM
LOR	100 %	Lifetime	50000 Hours
System efficiency	75.0 Lumen/W	Maintenance cycle	0 times
Net lumen output from luminaire	1950 Lumen	Maintenance factor	0.9 MF
Air condition * Presents detection * Daylight sensor $0.8 * 1 * 1 = -20.0\%$			
Calcul. Qty of products incl. LLMF	23.8 PCS		
(Ratio to lumen output of 1st selection)	1.07		
Initial investment costs	3451 €		
Energy costs	4950 €		
Reductions (AC, PD, DS)	-990 €		
Maintenance	0 €		
<b>Total costs</b>	<b>7411 €</b>		
Total power consumption	24752 kWh	Total Co2 emission	
	15.8 TONS		



Additional Information(201):

Additional Information(202):

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**PAYBACK TIME RELATED TO HIGHER INITIAL COSTS: 3.1 YEARS**  
**OPERATING: 365 DAYS AT 12 HOURS PER DAY**

ATTENTION: This tool is not replacing a professional lighting calculation.

