

PHILIPS

LED Modules

Fortimo SLM

1202 L06 1215 G6



Philips Fortimo LED spotlight module (SLM) gen 6 continues to focus on the combination of quality of light and performance. By offering the CoB separate from the holder, even more flexibility in possible system combinations and specifications is achieved. This results in an extensive portfolio of lumen ranges, CCTs and spectra. Please also check the online Easy Design-in Tool for your perfect system combination (www.na.easydesignintool.philips.com).

Ordering Data

Commercial Product Name	12NC	Minimum Order Quantity
Fortimo SLM C 827 1202 L06 1215 G6	9290 014 53106	20
Fortimo SLM C 830 1202 L06 1215 G6	9290 014 53206	20
Fortimo SLM C 835 1202 L06 1215 G6	9290 014 53306	20
Fortimo SLM C 840 1202 L06 1215 G6	9290 014 53406	20
Fortimo SLM C 927 1202 L06 1215 G6	9290 014 53706	20
Fortimo SLM C 930 1202 L06 1215 G6	9290 014 53806	20

Not all products are currently available as make-to-stock. Please contact your local Philips representative for specific availability and lead time.

Fortimo SLM 1202 L06 1215 G6

Features

- Excellent quality of light available for all applications
- Extensive range of CCT
- Small LES for narrow beam angles and small reflector designs
- Flexibility to select a different lumen output between 800 lm and 10000 lm
- State-of-the-art chip-on-board (CoB) technology, enabling high system efficacy
- System proposition (CoB + holder + driver)

- Flexibility to optimize luminaire performance (lm/W or high lumen output)
- Philips Advance Xitanium LED window drivers with SimpleSet technology for maximum flexibility
- Mini drivers for smallest possible luminaire designs
- Three dedicated product lines:
 - SLM gen 6 premium white
 - SLM gen 6 crisp white
 - SLM gen 6 food

Benefits

- 5-year limited system warranty with over 50,000 hours lifetime¹

Applications

- Architectural lighting
- Retail spot lighting
- Recessed downlight

Drive Currents

Parameter	Nominal*	Life**	Max***	Unit
Fortimo LED SLM 1203 L09 1619 G6	200	280	340	mA

Module Temperatures

Parameter	Nominal*	Life**	Max***	Unit
Tc (case temperature at Tc point)	85	85	95	°C

* Nominal value at which typical performance is specified

** Value at which life time is specified

*** Maximum value for safe operation, do not operate above this value

1. View limited warranty at <http://www.usa.lighting.philips.com/support/support/warranty> for details and restrictions.

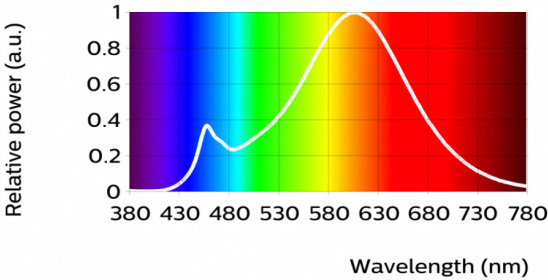
Fortimo SLM 1202 L06 1215 G6

Optical Characteristics – Table per CCT

Fortimo SLM C 827 1202 L06 1215 G6				
Parameter	Min	Typ	Max	Unit
Luminous Flux	780	870	950	lm
Module Efficiency		125		lm/W
Correlated Color Temperature (CCT)		2700		K
Color Coordinates (CIEx, CIEy)		(0.458, 0.410)		–
Color Consistency			3	SDCM
CRI	80	82		–

At currents higher than 228 mA the module might be classified as RG2.

Measurement precision for flux +/- 5%.
 Measurement precision for efficacy +/- 6%.
 Measurement precision for x, y +/- 0.005.
 Measurement precision for CRI +/- 1.5.

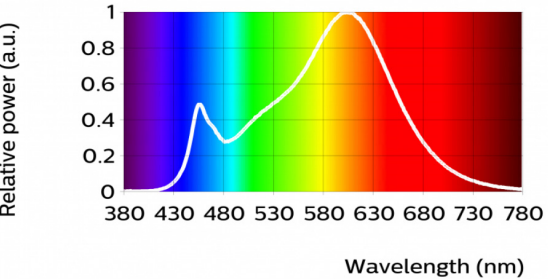


R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
79	92	94	76	79	90	82	59	12	82	72	73	82	97	

Fortimo SLM C 830 1202 L06 1215 G6				
Parameter	Min	Typ	Max	Unit
Luminous Flux	820	910	1000	lm
Module Efficiency		132		lm/W
Correlated Color Temperature (CCT)		3000		K
Color Coordinates (CIEx, CIEy)		(0.434, 0.403)		–
Color Consistency			3	SDCM
CRI	80	82		–

At currents higher than 228 mA the module might be classified as RG2.

Measurement precision for flux +/- 5%.
 Measurement precision for efficacy +/- 6%.
 Measurement precision for x, y +/- 0.005.
 Measurement precision for CRI +/- 1.5.



R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83	94	93	80	84	94	81	59	12	87	80	76	86	97	

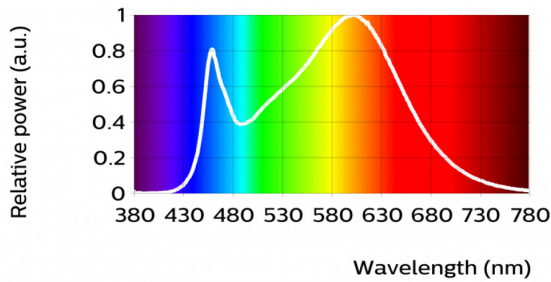
Fortimo SLM 1202 L06 1215 G6

Optical Characteristics – Table per CCT

Fortimo SLM C 835 1202 L06 1215 G6				
Parameter	Min	Typ	Max	Unit
Luminous Flux	830	930	1020	lm
Module Efficiency		134		lm/W
Correlated Color Temperature (CCT)		3500		K
Color Coordinates (CIEx, CIEy)		(0.407, 0.392)		–
Color Consistency			3	SDCM
CRI	80	82		–

At currents higher than 228 mA the module might be classified as RG2.

Measurement precision for flux +/- 5%.
 Measurement precision for efficacy +/- 6%.
 Measurement precision for x, y +/- 0.005.
 Measurement precision for CRI +/- 1.5.

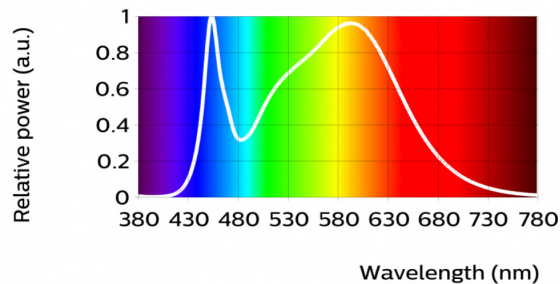


R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
86	96	93	80	85	94	83	65	22	90	79	70	89	97	

Fortimo SLM C 840 1202 L06 1215 G6				
Parameter	Min	Typ	Max	Unit
Luminous Flux	840	940	1030	lm
Module Efficiency		136		lm/W
Correlated Color Temperature (CCT)		4000		K
Color Coordinates (CIEx, CIEy)		(0.382, 0.380)		–
Color Consistency			3	SDCM
CRI	80	82		–

At currents higher than 228 mA the module might be classified as RG2.

Measurement precision for flux +/- 5%.
 Measurement precision for efficacy +/- 6%.
 Measurement precision for x, y +/- 0.005.
 Measurement precision for CRI +/- 1.5.



R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80	89	96	79	80	85	86	63	13	74	77	58	82	98	

Fortimo SLM 1202 L06 1215 G6

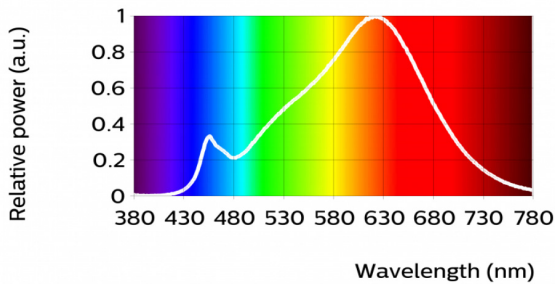
Optical Characteristics – Table per CCT

Fortimo SLM C 927 1202 L06 1215 G6

Parameter	Min	Typ	Max	Unit
Luminous Flux	650	720	790	lm
Module Efficiency		104		lm/W
Correlated Color Temperature (CCT)		2700		K
Color Coordinates (CIEx, CIEy)		(0.458, 0.410)		–
Color Consistency			3	SDCM
CRI	90	92		–

At currents higher than 228 mA the module might be classified as RG2.

Measurement precision for flux +/- 5%.
Measurement precision for efficacy +/- 6%.
Measurement precision for x, y +/- 0.005.
Measurement precision for CRI +/- 1.5.



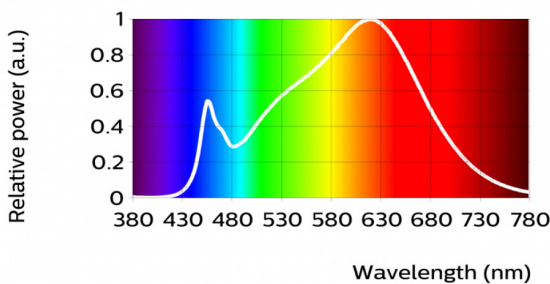
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92	96	99	91	91	96	91	79	60	90	91	81	93	99	

Fortimo SLM C 930 1202 L06 1215 G6

Parameter	Min	Typ	Max	Unit
Luminous Flux	670	750	820	lm
Module Efficiency		108		lm/W
Correlated Color Temperature (CCT)		3000		K
Color Coordinates (CIEx, CIEy)		(0.434, 0.403)		–
Color Consistency			3	SDCM
CRI	90	92		–

At currents higher than 228 mA the module might be classified as RG2.

Measurement precision for flux +/- 5%.
Measurement precision for efficacy +/- 6%.
Measurement precision for x, y +/- 0.005.
Measurement precision for CRI +/- 1.5.

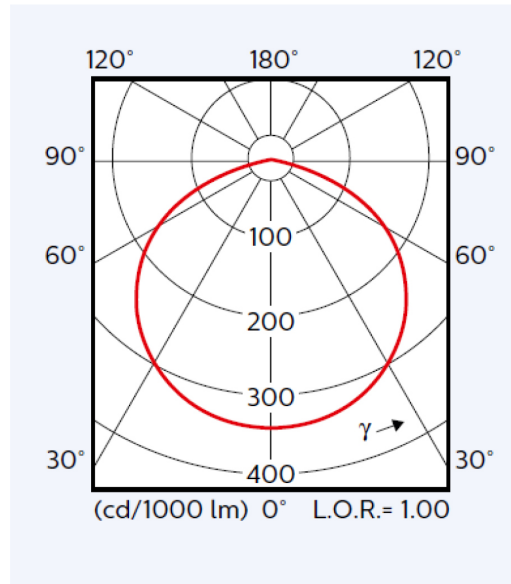


R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93	97	99	91	92	96	91	81	68	92	91	77	94	99	

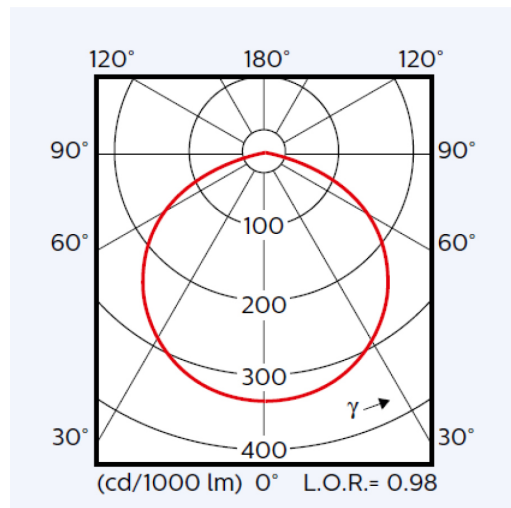
Fortimo SLM 1202 L06 1215 G6

Beam Shape

Bare CoB



CoB with a poke-in holder



Fortimo SLM 1202 L06 1215 G6

Fortimo SLM C 827 1202 L06 1215 G6

Fortimo SLM C 830 1202 L06 1215 G6

Fortimo SLM C 835 1202 L06 1215 G6

Fortimo SLM C 840 1202 L06 1215 G6

Parameter	Min	Typ	Max	Unit
Forward Voltage		34.5	36.9	V
Power Consumption		6.9	7.4	W
Thermal Power		4.1		W

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%.

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Fortimo SLM C 930 1202 L06 1215 G6

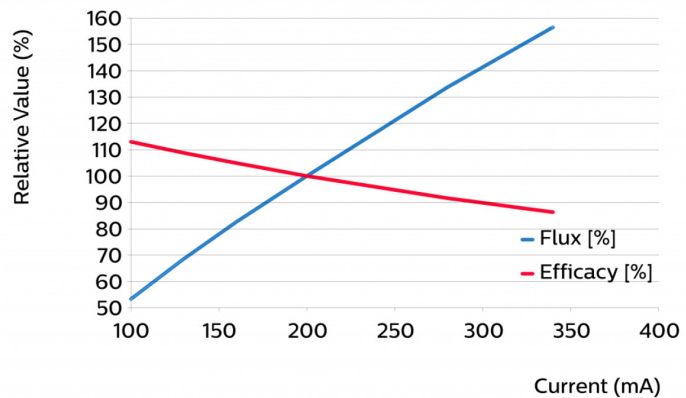
Parameter	Min	Typ	Max	Unit
Forward Voltage		34.5	37.0	V
Power Consumption		6.9	7.4	W
Thermal Power		4.4		W

Measurement precision for Vf +/- 3%. Measurement precision for power +/- 3.3%.

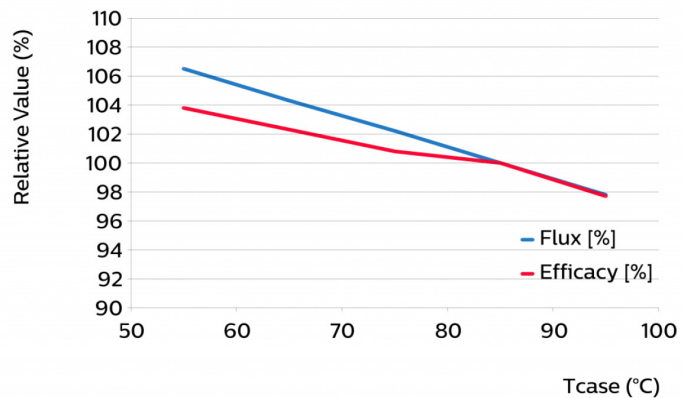
Tuning Information

Flux and efficacy vs. current (at Tc nominal)

I [mA]	Flux [%]	Efficacy [%]
100	53	113
130	69	109
160	83	105
200	100	100
280	134	92
300	141	90
320	149	88
340	157	86



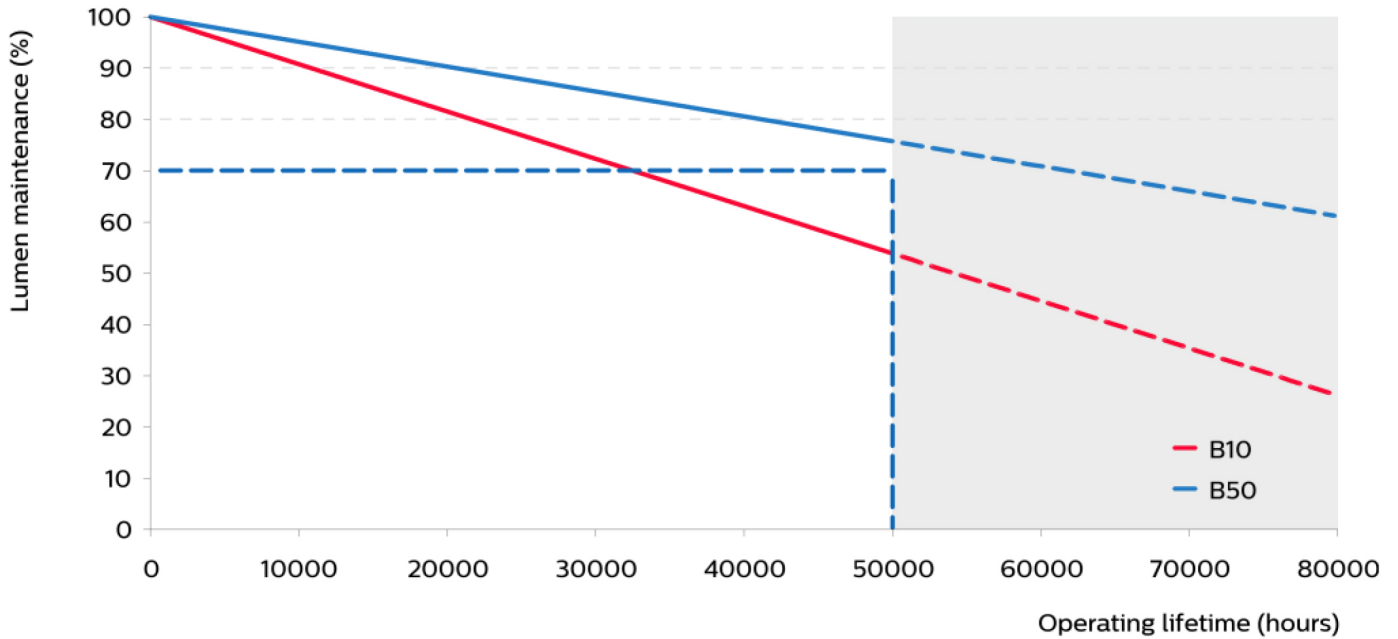
I [mA]	Flux [%]	Efficacy [%]
55	107	104
65	104	102
75	102	101
85	100	100
95	98	98



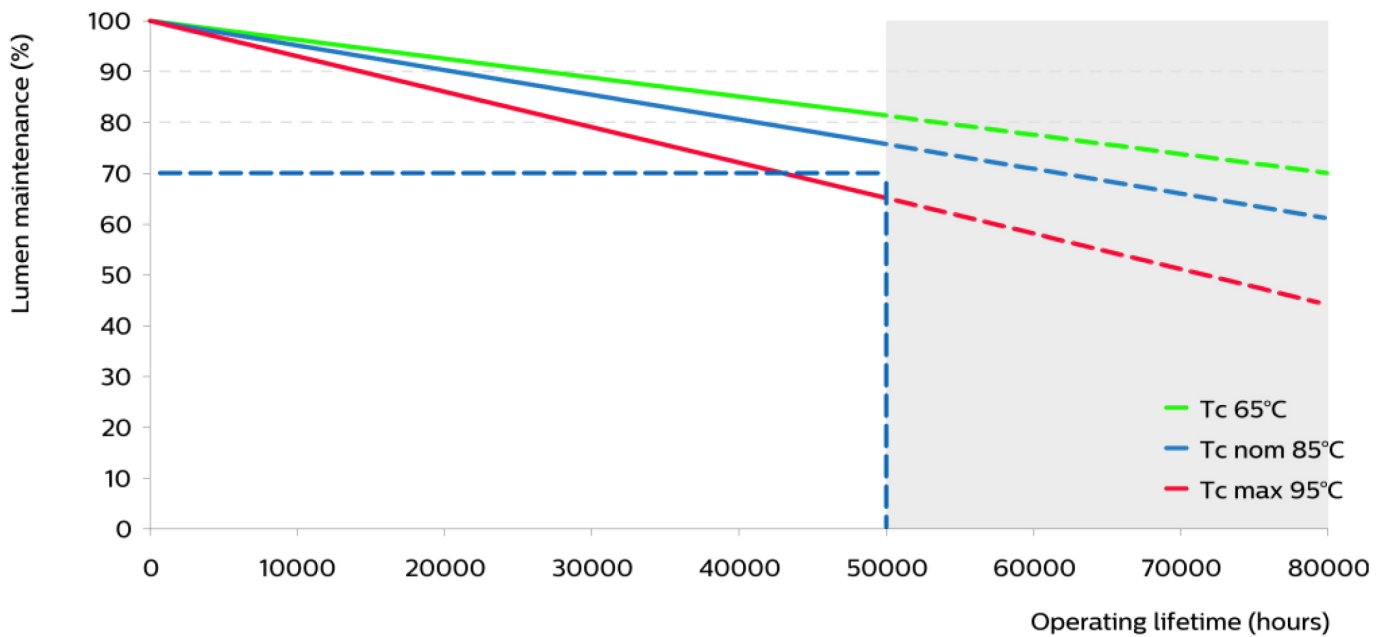
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Lumen Maintenance

Lumen maintenance at I-life and Tc-life conditions



Lumen maintenance for B50 at current I-life conditions



Fortimo SLM 1202 L06 1215 G6

Mechanical Characteristics

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Fortimo SLM C 830 1202 L06 1215 G6

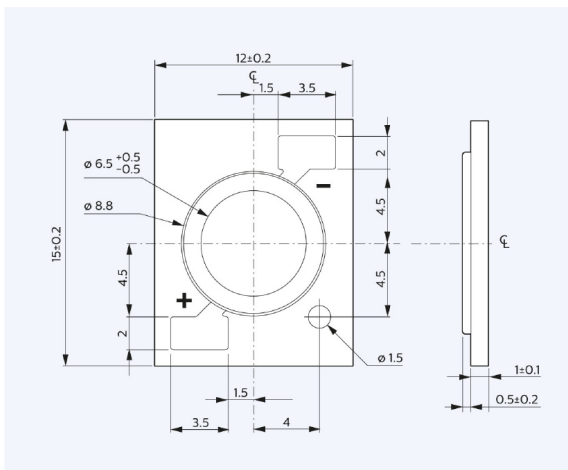
Fortimo SLM C 835 1202 L06 1215 G6

Fortimo SLM C 840 1202 L06 1215 G6

Fortimo SLM C 927 1202 L06 1215 G6

Fortimo SLM C 930 1202 L06 1215 G6

Parameter	Min	Typ	Max	Unit
Length	14.8	15	15.2	mm
Width	11.8	12	12.2	mm
Height PCB	0.9	1	1.1	mm
Height including dam	1.2	1.5	1.8	mm



Absolute Ratings

Parameter	Min	Typ	Max	Unit
Current Through the LED Module (I-max)			340	mA
Case Temperature (Tc-max)			95	°C
Power at Rated Vf-max and I-max			13.3	W
ESD Machine Model (MM) Class B JESD22-A115-B			400	kV
Ambient Temperature	-20		40	°C
Storage Temperature	-40		80	°C

Fortimo SLM 1202 L06 1215 G6

Application Information

Environmental

RoHS/REACH

Certificates and standards

IEC 62031:2008 (First Edition) + A1:2012 + A2:2014

EN 62031:2008 + A1:2013 + A2:2015 without differences

Relevant clauses of IEC 62471:2006 (Incl. IEC/TR 62471-2: 2009 and IEC/TR 62778: 2014)

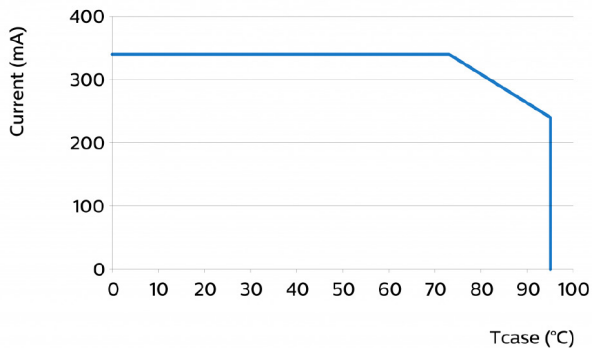
Relevant clauses of EN 62471:2008 (With IEC/TR 62471-2: 2009 and IEC/TR 62778: 2014)

Relevant clauses of IEC 60838-1:2004 + A1:2008 + A2:2011 with IEC 60838-2-2:2006 + A1:2012

Relevant clauses of EN 60838-1:2004 + A1:2008 + A2:2011 with EN 60838-2-2:2006 + A1:2012

Application	
IP Rating	No IP-rating
Overheating Protection	No
Luminaire Class	IEC Class I and Class II
Dimming	Yes

Warranty Window



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