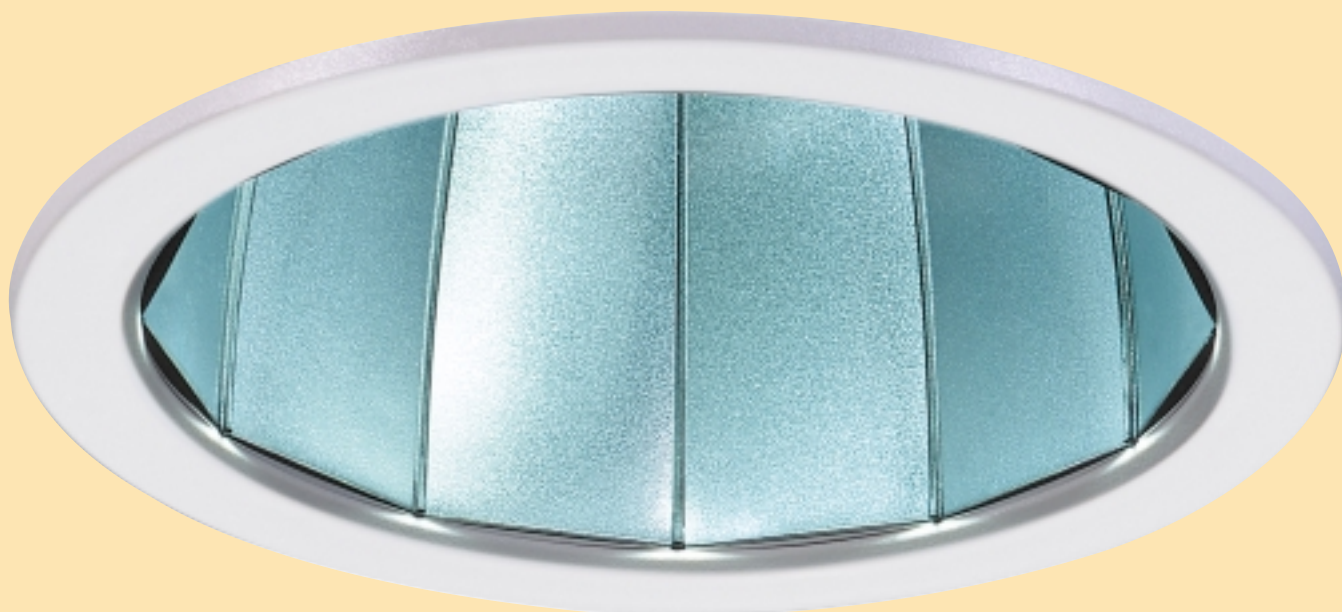


# 3F Dodeca

- restful illumination
- low luminance
- pleasing aesthetics



## 3F Dodeca 300

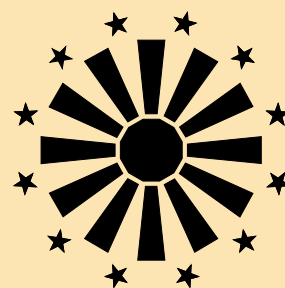
### Applications

offices with VDU's, conference rooms,  
auditoriums, showrooms.

## 3F Dodeca 220

### Applications

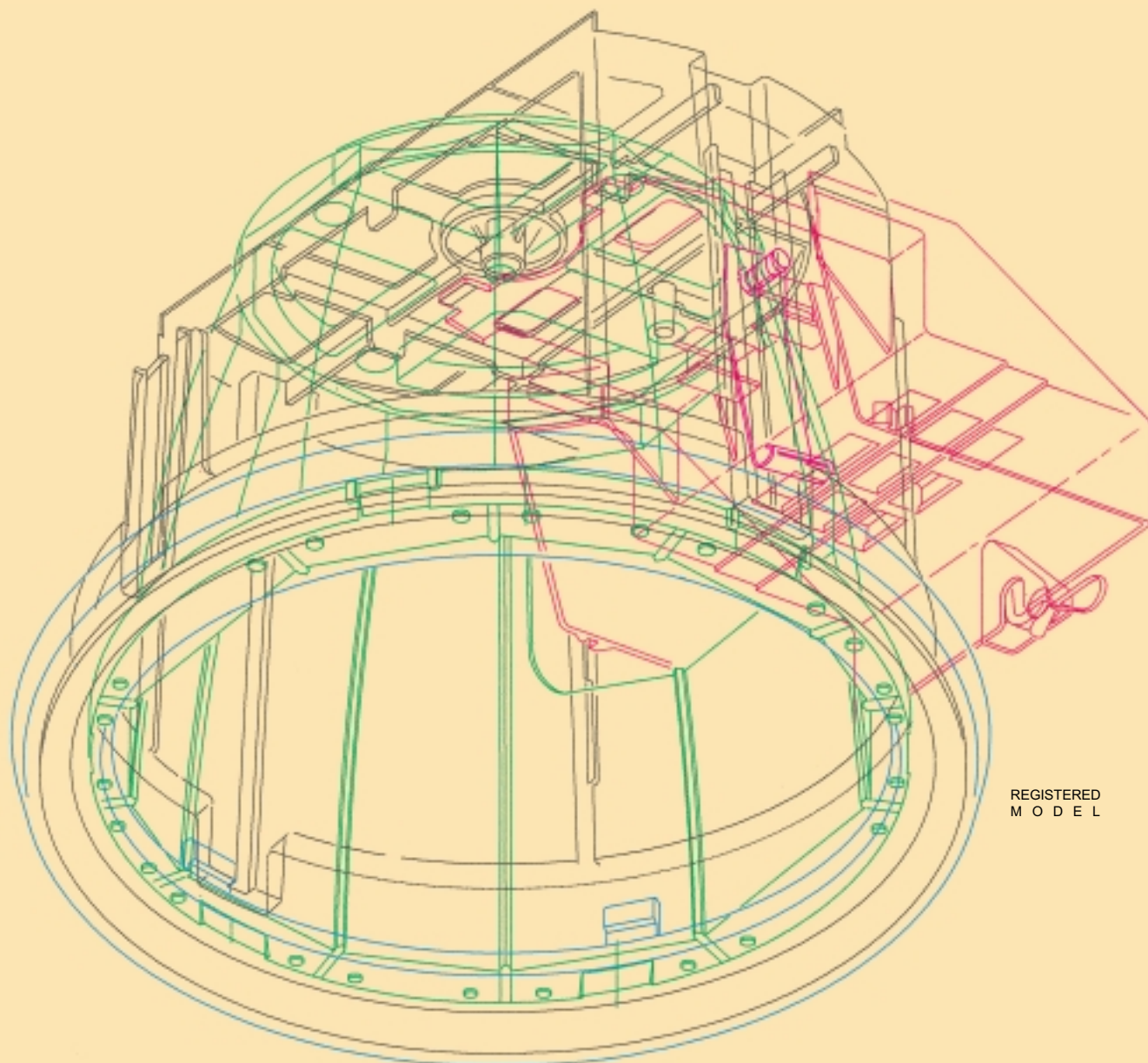
lobbies, offices with VDU's,  
transit areas and washrooms.



**3F Filippi**

Compact decorative recessed luminaire with an innovative **dodecagonal louvre** with **high efficiency** plated segments.

Self-extinguishing polycarbonate housing, injection moulded, halide-free.



#### Plated segments

**2MG** in plated specular aluminium with superficial titanium/magnesium treatment, non-iridescent.

**2S** in non-reflecting semi-specular aluminium.

**3AO** in non-mirroring matt silver aluminium.

**2M** in specular aluminium.

**2US** in non-mirroring semi-glossy aluminium.

Luminous efficiency over 80% thanks to the optimised design of the louvre and high-reflection aluminium.



*Illuminotechnical characteristics*

- Efficiency over E>80%.
- Symmetric distribution, asymmetric/wall washer distribution available in the single-lamp version by dislocating the lamp.
- Luminance <200 cd/m<sup>2</sup> for radial angles >60° for 2MG version and for angles >65° for 2S version.
- Photometric data on page 1.5.

*Mechanical characteristics*

- Self-extinguishing polycarbonate V2 housing, halide-free; fixing with 4 brackets in galvanised steel with regulation height min 0 mm max 65 mm.
- Dodecagonal louvre constructed in aluminium segments placed on a polycarbonate support.
- Trim in light grey polycarbonate.

*Electrical characteristics*

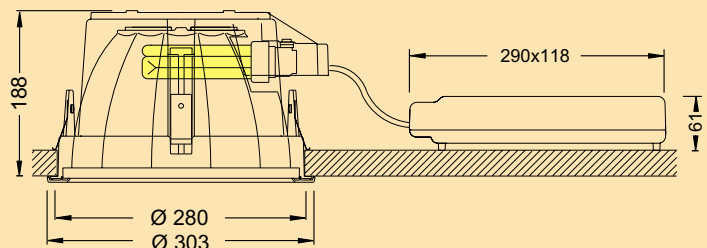
- Wiring on a separate unit with polycarbonate case.
- EEI B1 very low loss wiring with starter on page C.2, 230V-50Hz, power factor correction, fuse, class I, the installation does not require the protection conductor.
- EEI A2 electronic wiring on page D.1, 230V-50/60Hz, power factor >0.95, fuse, lamp warm start, class I.
- EP maintained emergency on a single lamp, 1h duration with 24hrs recharge, 1/2h with 12hrs recharge. Inhibition mode on page C.3. In compliance with EN 60598-2-22.
- **Compact lamps supplied as standard**, colour temperature 4000 K-840; with integrated starter, cap 26W = G24d-3, for very low loss starter wiring; cap 26W = G24q-3, 32W = GX24q-3, 42W = GX24q-4, 57W = GX24q-5, for electronic and emergency wiring. 32W, 42W, 57W amalgam lamps, and 26W.

*Available on request*

- Luminaires with COM louvre manufactured with plated segments, in specular aluminium with superficial titanium-magnesium treatment, non-iridescent, alternate with segments painted white; luminaires with 3AO louvre in non-mirroring matt silver aluminium.
- Luminaires with double-switch wiring.
- Luminaires in other wattages.
- Class II; in the electronic version it is recommended the connection to protective earth for a correct suppression of radio interferences, always necessary in the dimmable versions.
- Twin lamp luminaires with asymmetric/wall washer distribution.
- Luminaires with dimmable electronic wiring.
- Luminaires with emergency wiring, 1h duration 12hrs recharge.
- Luminaires with ENP non maintained emergency and/or nightlight with a third lamp e.g.1x13W.
- Trim with different colours.

*Notes*

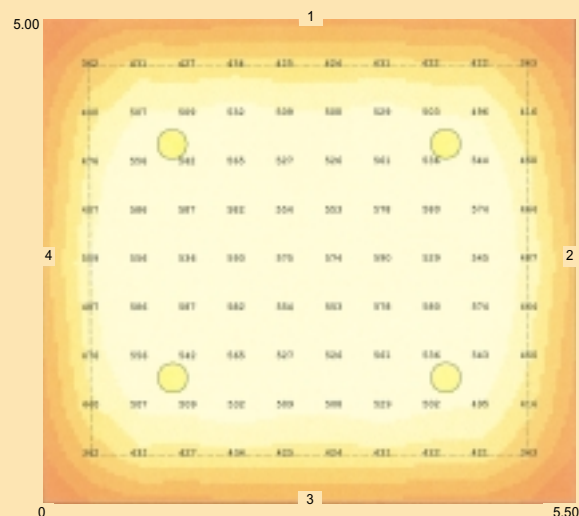
- Recommended ceiling cut-out size Ø280 mm.
- Accessories on page 1.5.
- For false ceilings with void less than 188 mm see 3F Dodeca 220 or 3F Canda Quadrato with recess height 50 mm only.



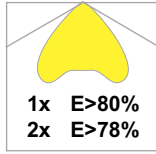
**Typical office lighting**

Dimensions: 5,5x5 m, height 3m  
 Reflections: ceiling 70%; walls (1-3-4) 50%, (2) 10%; floor 20%.  
 Working plane: 0,85 m  
 Maintenance factor: 0,80

Luminaire: n°4 3F Dodeca 300 2x42CT HF 2MG  
 Mean maintained illuminance: 537 lx  
 Min./mean uniformity: 0,85



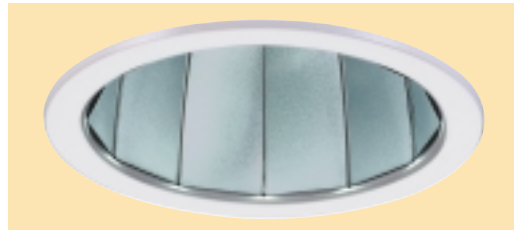
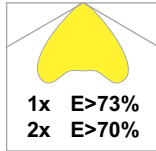
## 3F Dodeca 300 2MG



- Application in environments with exacting visual tasks, offices with VDU's, conference rooms, auditoriums, showrooms, environments where high illuminations are requested e.g. shopping centres, exhibition areas.
- Efficiency 1x E>80%, 2x E>78%.
- Luminance <200 cd/m<sup>2</sup> for radial angles >60°, shielding higher than the requirements of the CAT 2 CIBSE LG3.
- Dodecagonal louvre constructed in plated segments, in specular aluminium with superficial titanium-magnesium treatment, non-iridescent.

Very low loss with starter	
3F DODECA 300 2x26 CD 2MG	3557
Emergency	
3F DODECA 300 2x26 CD EP 2MG	3560
Electronic	
3F DODECA 300 1x57 CT HF 2MG	3564
3F DODECA 300 2x26 CD HF 2MG	3566
3F DODECA 300 2x32 CT HF 2MG	3567
3F DODECA 300 2x42 CT HF 2MG	3568
Emergency	
3F DODECA 300 1x57 CT HF EP 2MG	3573
3F DODECA 300 2x26 CD HF EP 2MG	3575
3F DODECA 300 2x32 CT HF EP 2MG	3576
3F DODECA 300 2x42 CT HF EP 2MG	3577

## 3F Dodeca 300 2S



- Application in environments with exacting visual tasks, offices with VDU's, conference rooms, auditoriums.
- Efficiency 1x E>73%, 2x E>70%.
- Luminance <200 cd/m<sup>2</sup> for radial angles >65°, CAT 2 CIBSE LG3.
- Dodecagonal louvre constructed in segments, in semi-specular non-reflecting aluminium.

Very low loss with starter	
3F DODECA 300 2x26 CD 2S	3602
Emergency	
3F DODECA 300 2x26 CD EP 2S	3605
Electronic	
3F DODECA 300 1x57 CT HF 2S	3609
3F DODECA 300 2x26 CD HF 2S	3611
3F DODECA 300 2x32 CT HF 2S	3612
3F DODECA 300 2x42 CT HF 2S	3613
Emergency	
3F DODECA 300 1x57 CT HF EP 2S	3618
3F DODECA 300 2x26 CD HF EP 2S	3620
3F DODECA 300 2x32 CT HF EP 2S	3621
3F DODECA 300 2x42 CT HF EP 2S	3622



**Transparent glass, tempered,** thickness 4 mm, steel springs included for quick lock-in mounting to the trim. Protection degree IP44.



**IP44 transparent glass**  
pack of 4 pieces.

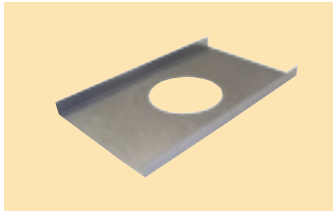
0197



**Decorative moulded glass,** tempered, thickness 4 mm, steel springs included for quick lock-in mounting to the trim. Protection degree IP44.

**IP44 decorative moulded glass**  
pack of 4 pieces.

0198



Reinforcing bracket for exposed T-bar false-ceiling 600x600, 600x1200, in hot galvanised steel.

**Reinforcing bracket**  
pack of 10 pieces.

0203

**3F DODECA 300 2x42 CT HF 2MG**

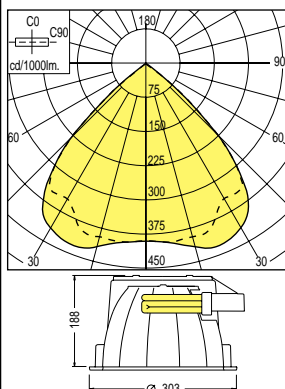
**2000203**

**1 Efficiency**  
zones % lm  
in degrees install.  
0°-25° = 23.9  
25°-60° = **53.2**  
60°-90° = 0.1  
0°-180° = 77.1

**2 Illumination uniformity**  
Installation distances to comply with  
Dt = 1.45 · hu  
DI = 1.40 · hu

**3 BZ Method**  
BZ = **BZ1**  
ni = 77.1%  
ns = 0 %

**4 Photometric exploration**



**5 Maintenance factor**  
cat. **IV**

**6 Conversion factor k**  
Multiply efficiency and U by k  
2x26 CD 2MG k = **1.04**  
2x32 CT 2MG k = **1.08**  
2S k = **0.93**  
Glass Tr CT k = **0.87**  
Glass Tr CD k = **0.73**  
Glass St CT k = **0.80**  
Glass St CD k = **0.65**

**7 Cut-off angle**  
Transverse **35°**  
Longitudinal **32°**

**8 Utilization factors U in %**

r-ceiling	80	70	70	70	50	50	30	30	10
r-walls	70	50	50	30	50	30	30	10	10
r-floor	30	30	10	10	10	10	10	10	10
<b>K</b>	0.6	56	43	41	35	40	35	31	31
	0.8	67	54	51	46	50	45	41	41
	1.0	74	61	57	52	56	51	51	47
	1.25	81	69	64	59	62	58	57	54
	1.5	85	74	68	63	67	63	62	59
	2.0	90	80	72	68	70	67	66	63
	2.5	94	84	75	72	74	70	69	67
	3.0	97	87	78	75	76	73	72	70
4.0	99	90	80	76	78	75	74	72	
5.0	101	92	81	78	79	77	75	73	

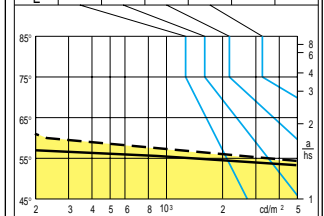
**9 Classifications**

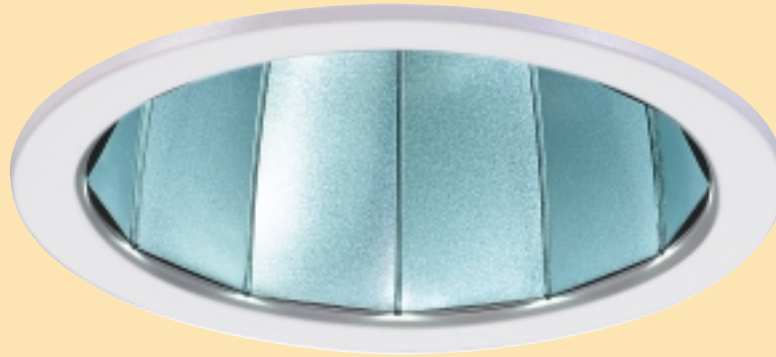
Cod. CIE: **78 100 100 100 77**     DIN 5040: **A50**  
UTE C71-121: **0.77B**     CIBSE LG3: **CAT 2**

**10 Average luminance**

Exploration in cd/m<sup>2</sup> on 0° and 90° planes.  
Reference 2x3200 lumens

Class	Illuminance (lux)			
A	2000	1000	500	300
B		2000	1000	500
C			2000	1000
D				2000
E				





*Illuminotechnical characteristics*

- Efficiency over E>70%.
- Symmetric distribution, asymmetric/wall washer distribution available in the single-lamp version by dislocating the lamp.
- Luminance <200 cd/m<sup>2</sup> for radial angles >65° (types 2MG - 2S - 2M - 2US).
- Photometric data on page 1.9.

*Mechanical characteristics*

- Self-extinguishing polycarbonate V2 housing, halide-free; fixing with 3 brackets in galvanised steel with regulation height min 0 mm max 65 mm.
- Dodecagonal louvre constructed in aluminium segments placed on a polycarbonate support.
- Trim in light grey polycarbonate.

*Electrical characteristics*

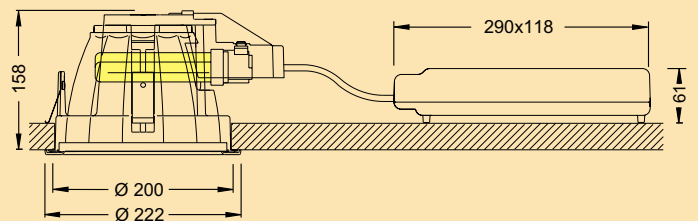
- Wiring on a separate unit with polycarbonate case.
- EEI B1 very low loss wiring with starter on page C.2, 230V-50Hz, power factor correction, fuse, class I in 2M, 2US version (the installation does not require the protection conductor), class II in 2MG, 2S, 3AO versions.
- EEI A2 electronic wiring on page D.1, 230V-50/60Hz, power factor >0.95, fuse, lamp warm start, class I.
- EP maintained emergency on a single lamp, 1h duration with 24hrs recharge, 1/2h with 12hrs recharge. Inhibition mode on page C.3. In compliance with EN 60598-2-22.
- **Compact lamps supplied as standard**, colour temperature 4000 K-840; with integrated starter, cap 18W = G24d-2, 26W = G24d-3; for very low loss starter wiring; cap 18W = G24q-2, 26W = G24q-3, for electronic and emergency wiring.

*Available on request*

- Luminaires with COM louvre manufactured with plated segments, in specular aluminium with superficial titanium-magnesium treatment, non-iridescent, alternate with segments painted white.
- Luminaires with double-switch wiring.
- Luminaires in other wattages.
- Class II; in the electronic version it is recommended the connection to protective earth for a correct suppression of radio interferences, always necessary in the dimmable versions.
- Twin lamp luminaires with asymmetric/wall washer distribution.
- Luminaires with dimmable electronic wiring.
- Luminaires with emergency wiring, 1h duration 12hrs recharge.
- Luminaires with ENP non maintained emergency and/or nightlight.
- Trim with different colours.

*Notes*

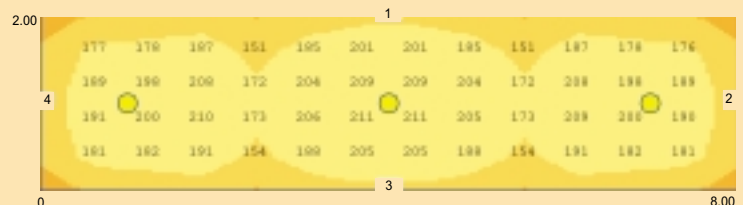
- Recommended ceiling cut-out size Ø200 mm.
- Accessories on page 1.9.
- For false ceilings with void less than 158 mm see 3F Canda Quadrato with recess height 50 mm only.



**Corridor lighting**

Dimensions: width 2 m, height 2,70 m  
 Reflections: ceiling 70%; walls (1) 30%, (2-3-4) 50%;  
 floor 20%.  
 Working plane: 0,20 m  
 Maintenance factor: 0,80

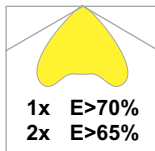
Luminaire: n°3 3F Dodeca 220 2x26CD HF 2MG  
 Mean maintained illuminance: 200 lx  
 Min./mean uniformity: 0,78



### 3F Dodeca 220 2MG



<200  
cd/m<sup>2</sup>



03  
F IP43

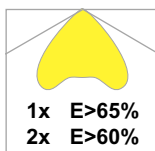
- Application in lobbies, offices with VDU's, transit areas, exhibition areas, shops, display windows.
- Efficiency 1x E>70%, 2x E>65%.
- Luminance <200 cd/m<sup>2</sup> for radial angles >65°, CAT 2 CIBSE LG3.
- Dodecagonal louvre constructed in plated segments, in specular aluminium with superficial titanium-magnesium treatment, non-iridescent.

Item	Code
Very low loss with starter, class II	
3F DODECA 220 1x18 CD 2MG II	3301
3F DODECA 220 1x26 CD 2MG II	3302
3F DODECA 220 2x18 CD 2MG II	3304
3F DODECA 220 2x26 CD 2MG II	3305
Emergency, class II	
3F DODECA 220 1x18 CD EP 2MG II	3309
3F DODECA 220 1x26 CD EP 2MG II	3310
3F DODECA 220 2x18 CD EP 2MG II	3312
3F DODECA 220 2x26 CD EP 2MG II	3313
Electronic, class I	
3F DODECA 220 1x18 CD HF 2MG	3897
3F DODECA 220 1x26 CD HF 2MG	3898
3F DODECA 220 2x18 CD HF 2MG	3900
3F DODECA 220 2x26 CD HF 2MG	3901
Emergency, class I	
3F DODECA 220 1x18 CD HF EP 2MG	3907
3F DODECA 220 1x26 CD HF EP 2MG	3908
3F DODECA 220 2x18 CD HF EP 2MG	3910
3F DODECA 220 2x26 CD HF EP 2MG	3911

### 3F Dodeca 220 2S



<200  
cd/m<sup>2</sup>

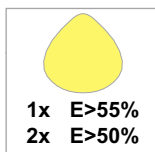


03  
F IP43

- Application in lobbies, offices with VDU's, exhibition areas, conference rooms.
- Efficiency 1x E>65%, 2x E>60%.
- Luminance <200 cd/m<sup>2</sup> for radial angles >65°, CAT 2 CIBSE LG3.
- Dodecagonal louvre constructed in segments, in semi-specular aluminium, non-reflecting.

Very low loss with starter, class II	
3F DODECA 220 1x18 CD 2S II	3342
3F DODECA 220 1x26 CD 2S II	3344
3F DODECA 220 2x18 CD 2S II	3346
3F DODECA 220 2x26 CD 2S II	3347
Emergency, class II	
3F DODECA 220 1x18 CD EP 2S II	3350
3F DODECA 220 1x26 CD EP 2S II	3352
3F DODECA 220 2x18 CD EP 2S II	3354
3F DODECA 220 2x26 CD EP 2S II	3355
Electronic, class I	
3F DODECA 220 1x18 CD HF 2S	3938
3F DODECA 220 1x26 CD HF 2S	3940
3F DODECA 220 2x18 CD HF 2S	3944
3F DODECA 220 2x26 CD HF 2S	3945
Emergency, class I	
3F DODECA 220 1x18 CD HF EP 2S	3948
3F DODECA 220 1x26 CD HF EP 2S	3950
3F DODECA 220 2x18 CD HF EP 2S	3954
3F DODECA 220 2x26 CD HF EP 2S	3955

### 3F Dodeca 220 3AO



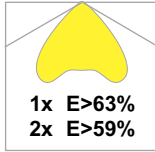
03  
F IP43

- Application in lobbies, transit areas, commercial environments, shops.
- Efficiency 1x E>55%, 2x E>50%.
- Dodecagonal louvre constructed in segments, in non-mirroring silver matt aluminium.

Very low loss with starter, class II	
3F DODECA 220 1x18 CD 3AO II	3382
3F DODECA 220 1x26 CD 3AO II	3384
3F DODECA 220 2x18 CD 3AO II	3386
3F DODECA 220 2x26 CD 3AO II	3387
Emergency, class II	
3F DODECA 220 1x18 CD EP 3AO II	3390
3F DODECA 220 1x26 CD EP 3AO II	3392
3F DODECA 220 2x18 CD EP 3AO II	3394
3F DODECA 220 2x26 CD EP 3AO II	3395
Electronic, class I	
3F DODECA 220 1x18 CD HF 3AO	3978
3F DODECA 220 1x26 CD HF 3AO	3980
3F DODECA 220 2x18 CD HF 3AO	3984
3F DODECA 220 2x26 CD HF 3AO	3985
Emergency, class I	
3F DODECA 220 1x18 CD HF EP 3AO	3988
3F DODECA 220 1x26 CD HF EP 3AO	3990
3F DODECA 220 2x18 CD HF EP 3AO	3994
3F DODECA 220 2x26 CD HF EP 3AO	3995

Item	Code
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### 3F Dodeca 220 2M



Very low loss with starter, class I

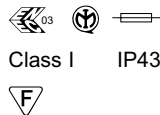
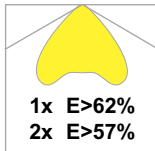
3F DODECA 220 1x18 CD 2M	3841
3F DODECA 220 1x26 CD 2M	3842
3F DODECA 220 2x18 CD 2M	3844
3F DODECA 220 2x26 CD 2M	3845

Emergency, class I

3F DODECA 220 1x18 CD EP 2M	3849
3F DODECA 220 1x26 CD EP 2M	3850
3F DODECA 220 2x18 CD EP 2M	3852
3F DODECA 220 2x26 CD EP 2M	3853

- Application in lobbies, offices with VDU's or with exacting visual tasks, transit areas, shops, display windows.
- Efficiency 1x E>63%, 2x E>59%.
- Luminance <math><200\text{ cd/m}^2</math> for radial angles >65°, CAT 2 CIBSE LG3.
- Dodecagonal louvre constructed in plated segments, in specular aluminium.

### 3F Dodeca 220 2US



Very low loss with starter, class I

3F DODECA 220 1x18 CD 2US	3802
3F DODECA 220 1x26 CD 2US	3804
3F DODECA 220 2x18 CD 2US	3806
3F DODECA 220 2x26 CD 2US	3807

Emergency, class I

3F DODECA 220 1x18 CD EP 2US	3810
3F DODECA 220 1x26 CD EP 2US	3812
3F DODECA 220 2x18 CD EP 2US	3814
3F DODECA 220 2x26 CD EP 2US	3815

- Application in lobbies, rooms with VDU's, conference rooms, public offices.
- Efficiency 1x E>62%, 2x E>57%.
- Luminance <math><200\text{ cd/m}^2</math> for radial angles >65°, CAT 2 CIBSE LG3.
- Dodecagonal louvre constructed in segments, in non-mirroring semi-glossy aluminium.





**Closing diffuser** for environments where **IP44** protection degree is requested, or where tamperproof luminaires are necessary, in transparent self-extinguishing V2 polycarbonate, UV stabilised, prismatic, injection-moulded. Quick lock-in mounting to the louvre.

**IP44 closing diffuser**  
pack of 20 pieces.

0194



**Transparent glass**, tempered, thickness 4mm, steel springs included for quick lock-in mounting to the trim. Protection degree IP44.

**IP44 transparent glass cover**  
pack of 5 pieces.

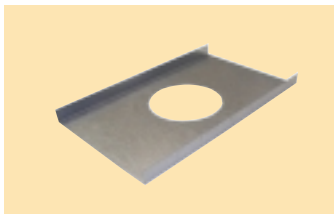
0195



**Decorative moulded glass**, tempered, thickness 4mm, steel springs included for quick lock-in mounting to the trim. Protection degree IP44.

**IP44 decorative moulded glass**  
pack of 5 pieces.

0196



**Reinforcing bracket** for exposed T-bar false-ceiling 600x600, 600x1200, in hot galvanised steel.

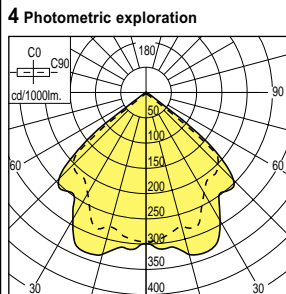
**Reinforcing bracket**  
pack of 10 pieces.

0202

**3F DODECA 220 2x26 CD 2MG**

**2000234**

**1 Efficiency**  
zones % lm  
in degrees install.  
0°-25° = 18.8  
25°-60° = **46.5**  
60°-90° = 0.3  
0°-180° = **65.6**



**2 Illumination uniformity**  
Installation distances to comply with  
Dt = **1.35 · hu**  
DI = **1.15 · hu**

**3 BZ Method**  
BZ = **BZ1**  
ni = 65.6%  
ns = 0 %

**5 Maintenance factor**  
cat. **IV**

**6 Conversion factor k**  
Multiply efficiency and U by k  
2x18 CD 2MG k = **1.05**  
2S-2M k = **0.92**  
3AO k = **0.77**  
2US k = **0.89**  
Glass Tr k = **0.70**  
Glass St k = **0.63**  
Diffuser PC k = **0.50**

**7 Cut-off angle**  
Transverse **36°**  
Longitudinal **31°**

**8 Utilization factors U in %**

r-ceiling	80	70	70	70	50	50	30	30	10
r-walls	70	50	50	30	50	30	30	10	10
r-floor	30	30	10	10	10	10	10	10	10
K	0.6	46	35	33	28	33	28	27	24
	0.8	55	44	41	36	40	36	35	32
	1.0	62	50	47	42	46	41	41	38
	1.25	68	57	53	48	52	48	47	44
	1.5	72	62	57	52	55	52	51	48
	2.0	76	67	61	57	59	56	55	52
	2.5	80	71	64	60	62	59	58	56
	3.0	82	74	66	63	64	62	61	59
	4.0	84	77	68	65	66	63	62	60
	5.0	86	79	69	66	67	65	64	62

**9 Classifications**

Cod. CIE: **67 100 100 66**      DIN 5040: **A50**  
UTE C71-121: **0.66**                  CIBSE LG3: **CAT 2**

**10 Average luminance**

Exploration in cd/m<sup>2</sup> on 0° and 90° planes. Reference 2x1800 lumens

