

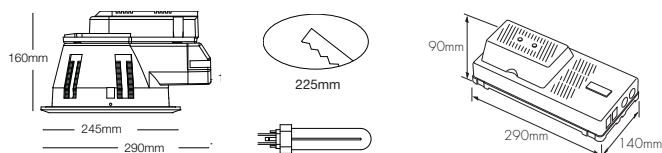
Ekostar is a low profile Downlight using low energy compact fluorescent lamps and high frequency control gear as standard. The housing is moulded from polycarbonate which passes the 850°C glow wire test making it available with a 3 hour maintained emergency option suitable for use in defined escape routes. The smooth polished anodised reflector assembly is highly efficient and allows lamp change to be carried out from below the ceiling without the need for extra cut outs in the reflector. Attachments can be added with a twist and lock type action removing the need for unsightly fixing screws and allows for retrospective change if required. Ekostar can also cleverly overcome shallow ceiling voids by detaching the gear pod and feeding through the ceiling cut out before the main body of the luminaire.

- Low profile, all polycarbonate housing
- High Frequency control gear as standard
- F marked, can be mounted on normally flammable surfaces
- 3 Hour maintained emergency versions available
- Diecast aluminium bezel with twist and lock attachment method
- Supplied complete with Low Energy lamp/s

## Catalogue Numbers

| Lamp Rating  | Part No.     | Description                            | Weight (kg) |
|--------------|--------------|--|-------------|
| 18w 4pin CFL | EKS118Z      | Ekostar 1 x 18w HF CFL Downlight       | 1.15        |
| 18w 4pin CFL | EKS218Z      | Ekostar 2 x 18w HF CFL Downlight       | 1.25        |
| 26w 4pin CFL | EKS126Z      | Ekostar 1 x 26w HF CFL Downlight       | 1.20        |
| 26w 4pin CFL | EKS226Z      | Ekostar 2 x 26w HF CFL Downlight       | 1.30        |
| 18w 4pin CFL | EREKS118Z    | Ekostar 1 x 18w Emerg HF CFL Downlight | 2.45        |
| 18w 4pin CFL | EREKS218Z    | Ekostar 2 x 18w Emerg HF CFL Downlight | 2.55        |
| 26w 4pin CFL | EREKS126Z    | Ekostar 1 x 26w Emerg HF CFL Downlight | 2.50        |
| 26w 4pin CFL | EREKS226Z    | Ekostar 2 x 26w Emerg HF CFL Downlight | 2.60        |
| All Types    | EKSIP44GLASS | Ekostar IP44 Glass Accessory           | 0.40        |
| All Types    | EKSHGLASS    | Ekostar Halo Glass Accessory           | 0.60        |

## Dimensions



Housing

Remote emergency gearbox

## Installation



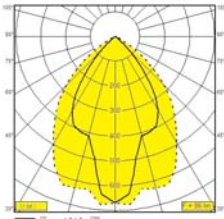
Normal installation



Shallow ceiling installation

# Photometric Data & Fast Calculation Tables

Cat No. EKS118Z



LOR: 86.3%  
ULOR: 0.0%  
DLOR: 86.3%

| EKS218Z |      |                             |    |    |    |    |    |    |     |  |
|---------|------|-----------------------------|----|----|----|----|----|----|-----|--|
| E       | Lph  | 2 x TC-D / 2400 lm          |    |    |    |    |    |    |     |  |
| IN      | IN   | Room Size (m <sup>2</sup> ) |    |    |    |    |    |    |     |  |
| IX      | M    | 20                          | 30 | 40 | 50 | 70 | 80 | 90 | 100 |  |
| 100     | 2.40 | 2                           | 3  | 4  | 4  | 5  | 6  | 7  | 7   |  |
|         | 2.60 | 2                           | 3  | 4  | 4  | 6  | 6  | 7  | 7   |  |
|         | 2.80 | 2                           | 3  | 4  | 4  | 6  | 6  | 7  | 8   |  |
| 200     | 2.40 | 4                           | 5  | 7  | 8  | 10 | 12 | 13 | 14  |  |
|         | 2.60 | 4                           | 6  | 7  | 8  | 11 | 12 | 13 | 14  |  |
|         | 2.80 | 4                           | 6  | 7  | 8  | 11 | 12 | 13 | 15  |  |
| 300     | 2.40 | 6                           | 8  | 10 | 12 | 15 | 17 | 19 | 21  |  |
|         | 2.60 | 6                           | 8  | 10 | 12 | 16 | 18 | 19 | 21  |  |
|         | 2.80 | 6                           | 8  | 10 | 12 | 16 | 18 | 20 | 22  |  |

Maintenance Factor: 0.8 (refl: 70/50/20)

| EKS118Z |      |                             |    |    |    |    |    |    |     |  |
|---------|------|-----------------------------|----|----|----|----|----|----|-----|--|
| E       | Lph  | 1 x TC-D / 1200 lm          |    |    |    |    |    |    |     |  |
| IN      | IN   | Room Size (m <sup>2</sup> ) |    |    |    |    |    |    |     |  |
| IX      | M    | 20                          | 30 | 40 | 50 | 70 | 80 | 90 | 100 |  |
| 100     | 2.40 | 4                           | 5  | 6  | 7  | 9  | 11 | 12 | 13  |  |
|         | 2.60 | 4                           | 5  | 6  | 7  | 9  | 11 | 12 | 13  |  |
|         | 2.80 | 4                           | 5  | 6  | 7  | 10 | 11 | 12 | 13  |  |
| 200     | 2.40 | 7                           | 9  | 11 | 14 | 18 | 21 | 23 | 25  |  |
|         | 2.60 | 7                           | 9  | 12 | 14 | 18 | 21 | 23 | 25  |  |
|         | 2.80 | 7                           | 10 | 12 | 14 | 19 | 21 | 23 | 26  |  |
| 300     | 2.40 | 10                          | 13 | 17 | 20 | 27 | 31 | 34 | 38  |  |
|         | 2.60 | 10                          | 14 | 17 | 21 | 27 | 31 | 34 | 38  |  |
|         | 2.80 | 11                          | 14 | 18 | 21 | 28 | 31 | 35 | 38  |  |

Maintenance Factor: 0.8 (refl: 70/50/20)

| Utilisation Factors/TM5 |    |    |              |     |      |     |              |     |     |     |     |
|-------------------------|----|----|--------------|-----|------|-----|--------------|-----|-----|-----|-----|
| Reflection              |    |    | Room Index   |     |      |     |              |     |     |     |     |
| C                       | W  | F  | 0.75         | 1.0 | 1.25 | 1.5 | 2.0          | 2.5 | 3.0 | 4.0 | 5.0 |
| 70                      | 50 | 20 | 64           | 72  | 77   | 80  | 85           | 88  | 90  | 92  | 94  |
| 70                      | 30 | 20 | 59           | 67  | 73   | 76  | 81           | 85  | 87  | 90  | 92  |
| 70                      | 10 | 20 | 55           | 64  | 69   | 73  | 78           | 82  | 85  | 88  | 90  |
| 50                      | 50 | 20 | 63           | 70  | 75   | 78  | 82           | 85  | 87  | 89  | 90  |
| 50                      | 30 | 20 | 58           | 66  | 71   | 75  | 79           | 82  | 84  | 87  | 89  |
| 50                      | 10 | 20 | 55           | 63  | 68   | 72  | 77           | 80  | 82  | 86  | 87  |
| 30                      | 50 | 20 | 61           | 69  | 73   | 76  | 80           | 82  | 84  | 86  | 87  |
| 30                      | 30 | 20 | 57           | 65  | 70   | 73  | 78           | 80  | 82  | 84  | 86  |
| 30                      | 10 | 20 | 54           | 63  | 68   | 71  | 76           | 78  | 81  | 83  | 85  |
| 0                       | 0  | 0  | 53           | 61  | 65   | 69  | 73           | 75  | 77  | 79  | 81  |
| BZ-class                |    |    | 1            | 1   | 1    | 1   | 1            | 1   | 1   | 1   | 1   |
|                         |    |    | SHRnom: 1:00 |     |      |     | SHRmax:1.154 |     |     |     |     |

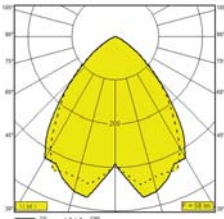
| EKS218Z + EKSHGLASS |      |                             |    |    |    |    |    |    |     |  |
|---------------------|------|-----------------------------|----|----|----|----|----|----|-----|--|
| E                   | Lph  | 2 x TC-D / 2400 lm          |    |    |    |    |    |    |     |  |
| IN                  | IN   | Room Size (m <sup>2</sup> ) |    |    |    |    |    |    |     |  |
| IX                  | M    | 20                          | 30 | 40 | 50 | 70 | 80 | 90 | 100 |  |
| 100                 | 2.40 | 2                           | 3  | 4  | 5  | 6  | 7  | 7  | 8   |  |
|                     | 2.60 | 3                           | 3  | 4  | 5  | 6  | 7  | 7  | 8   |  |
|                     | 2.80 | 3                           | 3  | 4  | 5  | 6  | 7  | 8  | 8   |  |
| 200                 | 2.40 | 4                           | 6  | 7  | 9  | 11 | 13 | 14 | 16  |  |
|                     | 2.60 | 5                           | 6  | 7  | 9  | 12 | 13 | 14 | 16  |  |
|                     | 2.80 | 5                           | 6  | 8  | 9  | 12 | 13 | 15 | 16  |  |
| 300                 | 2.40 | 6                           | 8  | 11 | 13 | 17 | 19 | 21 | 23  |  |
|                     | 2.60 | 7                           | 9  | 11 | 12 | 17 | 19 | 21 | 23  |  |
|                     | 2.80 | 7                           | 9  | 11 | 13 | 17 | 20 | 22 | 24  |  |

Maintenance Factor: 0.8 (refl: 70/50/20)

| EKS118Z + EKSHGLASS |      |                             |    |    |    |    |    |    |     |  |
|---------------------|------|-----------------------------|----|----|----|----|----|----|-----|--|
| E                   | Lph  | 1 x TC-D / 1200 lm          |    |    |    |    |    |    |     |  |
| IN                  | IN   | Room Size (m <sup>2</sup> ) |    |    |    |    |    |    |     |  |
| IX                  | M    | 20                          | 30 | 40 | 50 | 70 | 80 | 90 | 100 |  |
| 100                 | 2.40 | 4                           | 5  | 6  | 8  | 11 | 12 | 13 | 15  |  |
|                     | 2.60 | 4                           | 5  | 6  | 8  | 11 | 12 | 14 | 15  |  |
|                     | 2.80 | 4                           | 6  | 7  | 8  | 11 | 12 | 14 | 15  |  |
| 200                 | 2.40 | 8                           | 11 | 13 | 16 | 21 | 24 | 26 | 29  |  |
|                     | 2.60 | 8                           | 11 | 13 | 16 | 21 | 24 | 27 | 29  |  |
|                     | 2.80 | 8                           | 11 | 14 | 16 | 22 | 24 | 27 | 30  |  |
| 300                 | 2.40 | 11                          | 16 | 19 | 23 | 31 | 35 | 39 | 43  |  |
|                     | 2.60 | 12                          | 16 | 20 | 24 | 32 | 36 | 40 | 44  |  |
|                     | 2.80 | 12                          | 17 | 21 | 24 | 32 | 36 | 41 | 45  |  |

Maintenance Factor: 0.8 (refl: 70/50/20)

Cat No. EKS226Z



LOR: 58.3%  
ULOR: 0.0%  
DLOR: 58.3%

| EKS226Z |      |                             |    |    |    |    |    |    |     |  |
|---------|------|-----------------------------|----|----|----|----|----|----|-----|--|
| E       | Lph  | 2 x TC-D / 3600 lm          |    |    |    |    |    |    |     |  |
| IN      | IN   | Room Size (m <sup>2</sup> ) |    |    |    |    |    |    |     |  |
| IX      | M    | 20                          | 30 | 40 | 50 | 70 | 80 | 90 | 100 |  |
| 100     | 2.40 | 2                           | 3  | 3  | 4  | 5  | 5  | 6  | 7   |  |
|         | 2.60 | 2                           | 3  | 3  | 4  | 5  | 6  | 6  | 7   |  |
|         | 2.80 | 2                           | 3  | 3  | 4  | 5  | 6  | 6  | 7   |  |
| 200     | 2.40 | 4                           | 5  | 6  | 7  | 9  | 10 | 12 | 13  |  |
|         | 2.60 | 4                           | 5  | 6  | 7  | 9  | 11 | 12 | 13  |  |
|         | 2.80 | 4                           | 5  | 6  | 7  | 10 | 11 | 12 | 13  |  |
| 300     | 2.40 | 5                           | 7  | 9  | 10 | 14 | 15 | 17 | 19  |  |
|         | 2.60 | 5                           | 7  | 9  | 10 | 14 | 16 | 17 | 19  |  |
|         | 2.80 | 6                           | 7  | 9  | 11 | 14 | 16 | 18 | 19  |  |

Maintenance Factor: 0.8 (refl: 70/50/20)

| EKS126Z |      |                             |    |    |    |    |    |    |     |  |
|---------|------|-----------------------------|----|----|----|----|----|----|-----|--|
| E       | Lph  | 1 x TC-D / 1800 lm          |    |    |    |    |    |    |     |  |
| IN      | IN   | Room Size (m <sup>2</sup> ) |    |    |    |    |    |    |     |  |
| IX      | M    | 20                          | 30 | 40 | 50 | 70 | 80 | 90 | 100 |  |
| 100     | 2.40 | 3                           | 4  | 5  | 6  | 7  | 8  | 9  | 10  |  |
|         | 2.60 | 3                           | 4  | 5  | 6  | 8  | 8  | 9  | 10  |  |
|         | 2.80 | 3                           | 4  | 5  | 6  | 8  | 9  | 9  | 10  |  |
| 200     | 2.40 | 5                           | 7  | 9  | 11 | 14 | 16 | 18 | 20  |  |
|         | 2.60 | 6                           | 7  | 9  | 11 | 15 | 16 | 18 | 20  |  |
|         | 2.80 | 6                           | 8  | 9  | 11 | 15 | 17 | 18 | 20  |  |
| 300     | 2.40 | 8                           | 11 | 13 | 16 | 21 | 24 | 27 | 29  |  |
|         | 2.60 | 8                           | 11 | 14 | 16 | 22 | 24 | 27 | 30  |  |
|         | 2.80 | 8                           | 11 | 14 | 17 | 22 | 25 | 27 | 30  |  |

Maintenance Factor: 0.8 (refl: 70/50/20)

| Utilisation Factors/TM5 |    |    |              |     |      |     |              |     |     |     |     |
|-------------------------|----|----|--------------|-----|------|-----|--------------|-----|-----|-----|-----|
| Reflection              |    |    | Room Index   |     |      |     |              |     |     |     |     |
| C                       | W  | F  | 0.75         | 1.0 | 1.25 | 1.5 | 2.0          | 2.5 | 3.0 | 4.0 | 5.0 |
| 70                      | 50 | 20 | 42           | 48  | 51   | 54  | 57           | 59  | 60  | 62  | 63  |
| 70                      | 30 | 20 | 39           | 45  | 48   | 51  | 55           | 57  | 58  | 61  | 62  |
| 70                      | 10 | 20 | 36           | 42  | 46   | 49  | 53           | 55  | 57  | 59  | 61  |
| 50                      | 50 | 20 | 42           | 47  | 50   | 52  | 55           | 57  | 58  | 60  | 61  |
| 50                      | 30 | 20 | 38           | 44  | 48   | 50  | 53           | 55  | 57  | 59  | 60  |
| 50                      | 10 | 20 | 36           | 42  | 46   | 48  | 52           | 54  | 55  | 58  | 59  |
| 30                      | 50 | 20 | 41           | 46  | 49   | 51  | 54           | 55  | 57  | 58  | 59  |
| 30                      | 30 | 20 | 38           | 44  | 47   | 49  | 52           | 54  | 55  | 57  | 58  |
| 30                      | 10 | 20 | 36           | 42  | 45   | 47  | 51           | 53  | 54  | 56  | 57  |
| 0                       | 0  | 0  | 35           | 40  | 44   | 46  | 49           | 51  | 52  | 53  | 54  |
| BZ-class                |    |    | 1            | 1   | 1    | 1   | 1            | 1   | 1   | 1   | 1   |
|                         |    |    | SHRnom: 1.00 |     |      |     | SHRmax:1.179 |     |     |     |     |

| EKS226Z + EKSHGLASS |      |                             |    |    |    |    |    |    |     |  |
|---------------------|------|-----------------------------|----|----|----|----|----|----|-----|--|
| E                   | Lph  | 2 x TC-D / 3600 lm          |    |    |    |    |    |    |     |  |
| IN                  | IN   | Room Size (m <sup>2</sup> ) |    |    |    |    |    |    |     |  |
| IX                  | M    | 20                          | 30 | 40 | 50 | 70 | 80 | 90 | 100 |  |
| 100                 | 2.40 | 2                           | 3  | 4  | 4  | 5  | 6  | 7  | 7   |  |
|                     | 2.60 | 2                           | 3  | 4  | 4  | 6  | 6  | 7  | 7   |  |
|                     | 2.80 | 2                           | 3  | 4  | 4  | 6  | 6  | 7  | 8   |  |
| 200                 | 2.40 | 4                           | 5  | 7  | 8  | 10 | 12 | 13 | 14  |  |
|                     | 2.60 | 4                           | 5  | 7  | 8  | 11 | 12 | 13 | 14  |  |
|                     | 2.80 | 4                           | 6  | 7  | 8  | 11 | 12 | 13 | 15  |  |
| 300                 | 2.40 | 6                           | 8  | 10 | 12 | 15 | 17 | 19 | 21  |  |
|                     | 2.60 | 6                           | 8  | 10 | 12 | 16 | 18 | 20 | 21  |  |
|                     | 2.80 | 6                           | 8  | 10 | 12 | 16 | 18 | 20 | 22  |  |

Maintenance Factor: 0.8 (refl: 70/50/20)

| EKS126Z + EKSHGLASS |      |                             |    |    |    |    |    |    |     |  |
|---------------------|------|-----------------------------|----|----|----|----|----|----|-----|--|
| E                   | Lph  | 1 x TC-D / 1800 lm          |    |    |    |    |    |    |     |  |
| IN                  | IN   | Room Size (m <sup>2</sup> ) |    |    |    |    |    |    |     |  |
| IX                  | M    | 20                          | 30 | 40 | 50 | 70 | 80 | 90 | 100 |  |
| 100                 | 2.40 | 3                           | 4  | 5  | 6  | 8  | 9  | 10 | 11  |  |
|                     | 2.60 | 3                           | 4  | 5  | 6  | 8  | 9  | 10 | 11  |  |
|                     | 2.80 | 3                           | 4  | 5  | 6  | 8  | 9  | 10 | 11  |  |
| 200                 | 2.40 | 6                           | 8  | 10 | 12 | 16 | 17 | 19 | 21  |  |
|                     | 2.60 | 6                           | 8  | 10 | 12 | 16 | 18 | 20 | 22  |  |
|                     | 2.80 | 6                           | 8  | 10 | 12 | 16 | 18 | 20 | 22  |  |
| 300                 | 2.40 | 8                           | 11 | 14 | 17 | 23 | 26 | 29 | 32  |  |
|                     | 2.60 | 9                           | 12 | 15 | 18 | 23 | 26 | 29 | 32  |  |
|                     | 2.80 | 9                           | 12 | 15 | 18 | 24 | 27 | 30 | 33  |  |

Maintenance Factor: 0.8 (refl: 70/50/20)

**Cooper Lighting and Safety Ltd**  
Wheatley Hall Road, Doncaster, South Yorkshire. DN2 4NB  
www.cooper-ls.com

**Sales**  
T: +44 (0)1302 303303  
F: +44 (0)1302 367155  
E: sales@cooper-ls.com

**General**  
T: +44 (0)1302 321541  
F: +44 (0)1302 303220  
E: technical@cooper-ls.com

**Major Projects London**  
T: +44 (0)1992 787999  
F: +44 (0)1992 787222  
E: london@cooper-ls.com

**Export**  
T: +44 (0)1302 303250  
F: +44 (0)1302 303251  
E: export@cooper-ls.com