

# PRODUCTINFORMATIEBLAD

## BLKH RD 250 P 9.5W CPS BK

BULKHEAD ROUND | Robuust wand- en plafondarmatuur met IP65- en IK10-bescherming



### Toepassingsgebieden

- Directe vervanging voor armaturen met fluorescentielampen
- Gangen, trappen, ontvangsthallen
- Doorgangen, onderdoorgangen
- Publieke zones

### Productvoordelen

- Zeer veelzijdig dankzij selecteerbare CCT en vermogensstappen (Multi Color / Multi Lumen) op de driver
- Flexibele montagepatronen voor gemakkelijke installatie
- Geschikt voor gebruik in stoffige en vochtige ruimtes dankzij de hoge IP-classificatie
- Geschikt voor gebruik in openbare ruimtes dankzij de hoge IK-waarde
- Suitable for use in emergency lighting systems (DC capable)
- Apart decorelement verkrijgbaar voor een esthetisch en functioneel productontwerp

### Productkenmerken

- UV-gestabiliseerde polycarbonaat (PC) behuizing, PC-diffuser
- Hoge lichtopbrengst: > 120 lm/W voor 3000K en 4000K
- Slagvastheid: IK10
- IP-klasse: IP65
- Steekklemmen voor gereedschapvrije aansluiting
- Doorvoerbedrading mogelijk



## TECHNISCHE GEGEVENS

## ELEKTRISCHE GEGEVENS

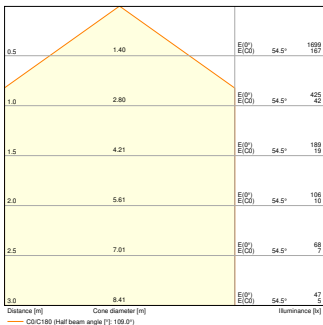
|                                                             |                                           |
|-------------------------------------------------------------|-------------------------------------------|
| Nominale vermogen                                           | 9,5 W / 8 W / 6,5 W / 5,5 W <sup>1)</sup> |
| Nominale spanning                                           | 220...240 V                               |
| Netfrequentie                                               | 0/50/60 Hz                                |
| Nominale stroom                                             | 42...37...30...25 mA                      |
| Inschakelstroom                                             | 3.44 A                                    |
| Inschakelstroomtijd T <sub>h50</sub>                        | 3.284 µs                                  |
| Max. armaturen op stroomonderbreke B16 A                    | 248                                       |
| Max. aantal armaturen per leidingbeveiligingsschakelaar C10 | 155                                       |
| Max. aantal armaturen per leidingbeveiligingsschakelaar C16 | 248                                       |
| Arbeidsfactor $\lambda$                                     | > 0,80                                    |
| Totale harmonische vervorming                               | < 15 %                                    |
| Veiligheidsklasse                                           | II                                        |
| Bedrijfsmodus                                               | Integrated LED driver                     |

1) Zie de afbeelding van de lumen/vermogen tabel voor mogelijke opties

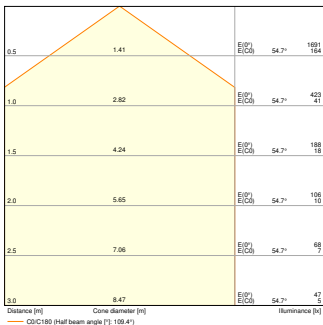
## Fotometrische gegevens

|                                          |                                                   |
|------------------------------------------|---------------------------------------------------|
| Lichtstroom                              | 1220 lm / 1070 lm / 860 lm / 710 lm <sup>1)</sup> |
| Lichtstroom efficiëntie                  | 128 lm/W / 132 lm/W / 129 lm/W <sup>1)</sup>      |
| Kleurtemperatuur                         | 3000 K / 4000 K                                   |
| Lichtkleur                               | Warm White / Koel wit                             |
| Kleurweergave-index Ra                   | > 80                                              |
| Standaardafwijking van kleurproeven      | 5 sdcn                                            |
| Flikkervrij                              | Ja                                                |
| Flikkerwaarde Pst LM                     | <1                                                |
| Stroboscoopeffect waarde SVM             | <0.4                                              |
| Fotobiologische veiligheidsgroep EN62778 | RG0                                               |
| Stralingshoek                            | 120 °                                             |

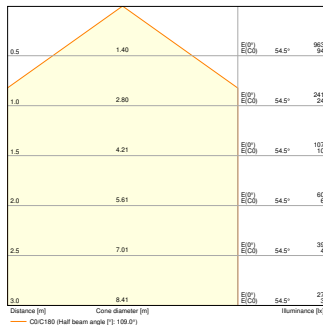
1) Zie de afbeelding van de lumen/vermogen tabel voor mogelijke opties



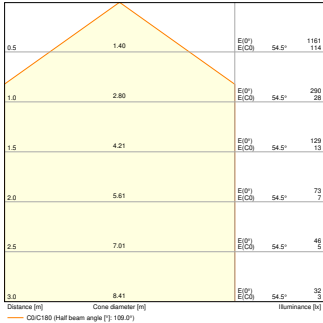
BLKH 250 P 10W 830 1200lm



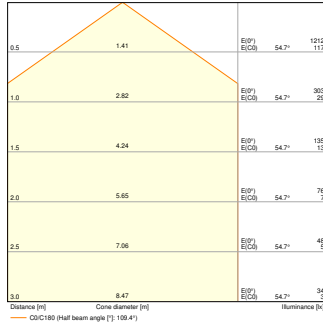
BLKH 250 P 10W 840 1200lm



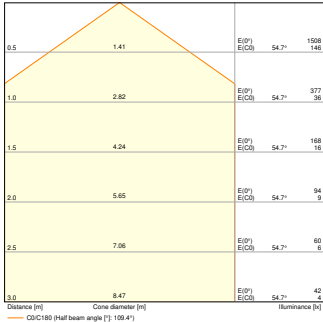
BLKH 250 P 5.5W 830 680lm



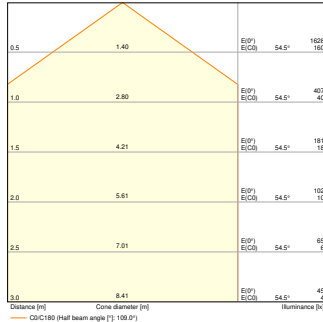
BLKH 250 P 6.5W 830 820lm



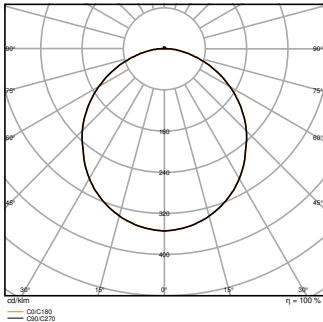
BLKH 250 P 5.5W 840 710lm



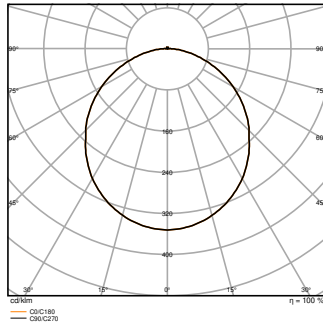
BLKH 250 P 6.5W 840 860lm



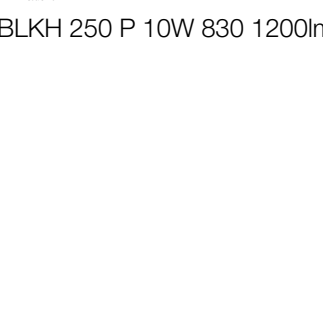
BLKH 250 P 8W 830 1020lm



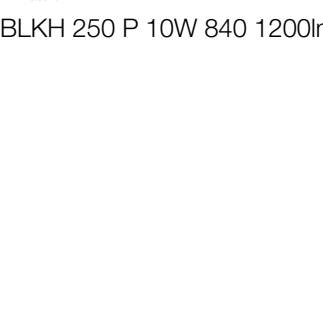
BLKH 250 P 8W 840 1070lm



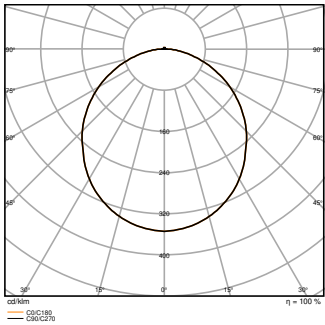
BLKH 250 P 9.5W 840 1220lm



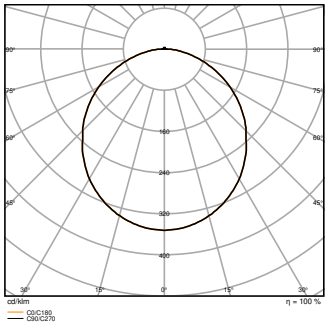
BLKH 250 P 10W 830 1200lm



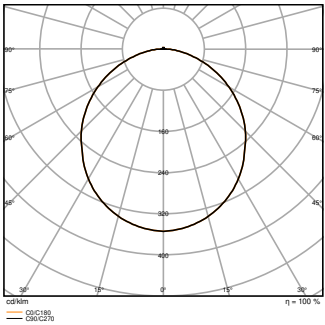
BLKH 250 P 10W 840 1200lm



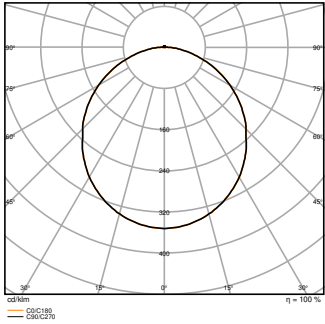
BLKH 250 P 5.5W 830 680lm



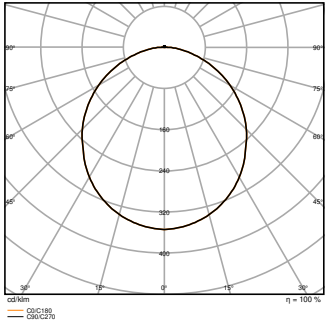
BLKH 250 P 5.5W 840 710lm



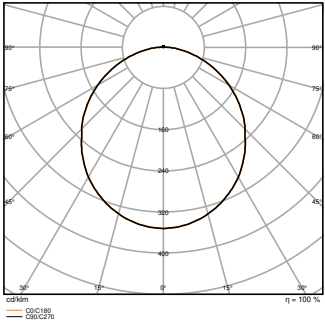
BLKH 250 P 6.5W 830 820lm



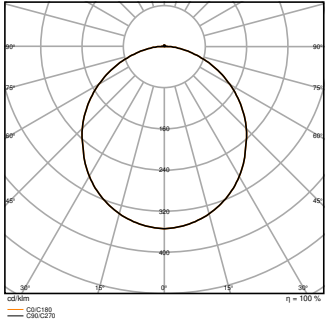
BLKH 250 P 6.5W 840 860lm



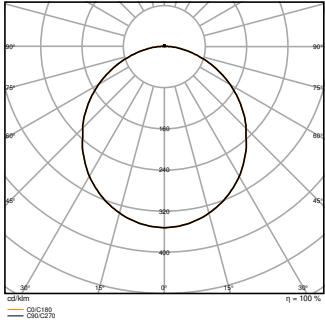
BLKH 250 P 8W 830 1020lm



BLKH 250 P 8W 840 1070lm



BLKH 250 P 9.5W 830 1150lm



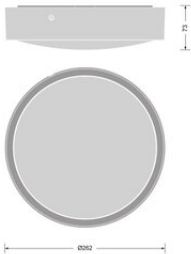
BLKH 250 P 9.5W 840 1220lm

Adjustable attributes

| Nominale vermogen | Kleurtemperatuur | Lichtstroom | Lichtstroom efficiëntie |
|-------------------|------------------|-------------|-------------------------|
| 9.5 W             | 4000 K           | 1200 lm     | 128 lm/W                |
| 9.5 W             | 3000 K           | 1150 lm     | 120 lm/W                |
| 8 W               | 4000 K           | 1070 lm     | 132 lm/W                |
| 8 W               | 3000 K           | 1020 lm     | 125 lm/W                |
| 6.5 W             | 4000 K           | 860 lm      | 132 lm/W                |
| 6.5 W             | 3000 K           | 820 lm      | 125 lm/W                |
| 5.5 W             | 4000 K           | 710 lm      | 129 lm/W                |
| 5.5 W             | 3000 K           | 680 lm      | 123 lm/W                |

AFMETINGEN & GEWICHT

|                 |           |
|-----------------|-----------|
| Diameter        | 262,00 mm |
| Hoogte          | 73,00 mm  |
| Product gewicht | 680,00 g  |



BLKH RD/SEN/EM 250 P 10W CPS

MATERIALEN & KLEUREN

|                                          |                    |
|------------------------------------------|--------------------|
| Kleur van het product                    | Zwart              |
| Kleur behuizing                          | Zwart              |
| Body materiaal                           | Polycarbonate (PC) |
| Materiaal afdekking                      | Polycarbonate (PC) |
| Materiaal van lichtuitstralend oppervlak | Polycarbonaat (pc) |
| Glow Wire Test volgens IEC 60695-2-12    | 850 °C             |
| Kwikgehalte                              | 0.0 mg             |

TOEPASSING & MONTAGE

|                                          |                      |
|------------------------------------------|----------------------|
| Omgevingstemperatuur bereik              | -20...+40 °C         |
| Opslagtemperatuur                        | -20...+80 °C         |
| Type aansluiting                         | Schroefloze terminal |
| Type bescherming                         | IP65                 |
| Beschermklasse IK ( Schok bestendi [PIM] | IK10                 |
| Dimbaar                                  | Nee                  |
| Montagetype                              | Surface              |
| Montagelocatie                           | Plafond / Muur       |
| Toepassingsomgeving                      | Buiten               |
| Met lichtbron                            | Ja                   |

Levensduur

|                                      |                       |
|--------------------------------------|-----------------------|
| Levensduur L70/B50 @ 25 °C           | 70000 h <sup>1)</sup> |
| Levensduur L80/B10 @ 25 °C           | 55000 h <sup>1)</sup> |
| Nominale levensduur L80/B50 bij 25°C | 65000 h               |
| Levensduur L90/B10 @ 25 °C           | 40000 h               |
| Aantal schakelcycli                  | 100000                |

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

## VOORSCHAKELAPPARATUUR

|                              |                          |
|------------------------------|--------------------------|
| Uitgangsstroom:              | 350...300...250...200 mA |
| E-VSA - Uitgangsrimpelstroom | < 5 %                    |

## NOODVERLICHTING

|                         |      |
|-------------------------|------|
| Type noodbedieningstest | Geen |
|-------------------------|------|

## CERTIFICATEN & NORMEN

|                                     |                                        |
|-------------------------------------|----------------------------------------|
| Normen                              | CE / CB / UKCA / EAC / ENEC / EL / EPD |
| Gelimiteerde oppervlaktetemperatuur | Nee                                    |
| Balschot veilig                     | Nee                                    |
| EPD                                 | LEDV-00029-V01.01-EN                   |
| Vervangbare LED module              | Uitsluitend door een expert            |

## AANVULLENDE PRODUCTGEGEVENS

|                     |                         |
|---------------------|-------------------------|
| Toegevoegde functie | EVERLOOP / MULTI SELECT |
|---------------------|-------------------------|

## OPTIONELE ACCESSOIRES

| Product afbeelding                                                                  | Naam product          | EAN           |
|-------------------------------------------------------------------------------------|-----------------------|---------------|
|  | BLKH RD Eyelid 300 BK | 4099854286797 |
|  | BLKH RD Eyelid 300 WT | 4099854286810 |
|  | BLKH RD Eyelid 250 WT | 4099854286773 |

| Product afbeelding                                                                | Naam product                 | EAN           |
|-----------------------------------------------------------------------------------|------------------------------|---------------|
|  | BLKH RD Eyelid 250 BK        | 4099854286759 |
|  | LISOEV 250R 8W 830 840 BLKH  | 4099854311918 |
|  | DR DS-P- 10/220-240/350 BLKH | 4099854286834 |

### Technische uitrusting

- Extra afdekkingen in verschillende uitvoeringen beschikbaar
- Inclusief schroeven en pluggen
- Anti-diefstal schroef inbegrepen

### Veiligheidsadvies

- Alle elektrische aansluitingen moeten door een installateur worden gemaakt.
- Let op, risico op elektrische schokken.

### DOWNLOADS

| Documenten en certificaten                                                                                                     | Naam document                      |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
|  Gebruiksaanwijzing / veiligheidsinstructies | BLKH RD GEN2                       |
|  Juridische informatie                       | Informationstext 18 Abs 4 ElektroG |
|  Juridische informatie                       | Light Source Insert G11233325      |
|  Juridische informatie                       | Legal Insert G11234785             |
|  Juridische informatie                       | Safety Insert G11234787            |
|  Conformiteitsverklaringen                   | BLKH RD/LISOEV                     |

| Documenten en certificaten                                                          |                                 | Naam document              |
|-------------------------------------------------------------------------------------|---------------------------------|----------------------------|
|    | Conformiteitsverklaringen UKCA  | BLKH RD/LISOEV             |
| Fotometrische- en lichtontwerpbestanden                                             |                                 | Naam document              |
|    | IES-bestand (IES)               | BLKH 250 P 9.5W 830 1150lm |
|    | IES-bestand (IES)               | BLKH 250 P 9.5W 840 1220lm |
|    | IES-bestanden (IES, aanvullend) | BLKH 250 P 5.5W 830 680lm  |
|    | IES-bestanden (IES, aanvullend) | BLKH 250 P 5.5W 840 710lm  |
|    | IES-bestanden (IES, aanvullend) | BLKH 250 P 6.5W 830 820lm  |
|    | IES-bestanden (IES, aanvullend) | BLKH 250 P 6.5W 840 860lm  |
|   | IES-bestanden (IES, aanvullend) | BLKH 250 P 8W 830 1020lm   |
|  | IES-bestanden (IES, aanvullend) | BLKH 250 P 8W 840 1070lm   |
|  | LDT-bestand (Eulumdat)          | BLKH 250 P 9.5W 830 1150lm |
|  | LDT-bestand (Eulumdat)          | BLKH 250 P 9.5W 840 1220lm |
|  | LDT-bestanden (Eulumdat, extra) | BLKH 250 P 5.5W 830 680lm  |
|  | LDT-bestanden (Eulumdat, extra) | BLKH 250 P 5.5W 840 710lm  |
|  | LDT-bestanden (Eulumdat, extra) | BLKH 250 P 6.5W 830 820lm  |
|  | LDT-bestanden (Eulumdat, extra) | BLKH 250 P 6.5W 840 860lm  |
|  | LDT-bestanden (Eulumdat, extra) | BLKH 250 P 8W 830 1020lm   |
|  | LDT-bestanden (Eulumdat, extra) | BLKH 250 P 8W 840 1070lm   |

| Fotometrische- en lichtontwerpbestanden                                             |                                  | Naam document              |
|-------------------------------------------------------------------------------------|----------------------------------|----------------------------|
|    | ULD-bestand (DIALux)             | BLKH RD 250 P 9.5W CPS BK  |
|    | ROLF-bestand (RELUX)             | BLKH RD 250 P 9.5W CPS BK  |
|    | UGR-bestand (UGR-tabel)          | BLKH 250 P 10W 830 1200lm  |
|    | UGR-bestand (UGR-tabel)          | BLKH 250 P 10W 840 1200lm  |
|    | UGR-bestand (UGR-tabel)          | BLKH 250 P 5.5W 830 680lm  |
|    | UGR-bestand (UGR-tabel)          | BLKH 250 P 5.5W 840 710lm  |
|    | UGR-bestand (UGR-tabel)          | BLKH 250 P 6.5W 830 820lm  |
|    | UGR-bestand (UGR-tabel)          | BLKH 250 P 6.5W 840 860lm  |
|   | UGR-bestand (UGR-tabel)          | BLKH 250 P 8W 830 1020lm   |
|  | UGR-bestand (UGR-tabel)          | BLKH 250 P 8W 840 1070lm   |
|  | UGR-bestand (UGR-tabel)          | BLKH 250 P 9.5W 830 1150lm |
|  | UGR-bestand (UGR-tabel)          | BLKH 250 P 9.5W 840 1220lm |
|   | Lichtverdelingscurve type kegel  | BLKH 250 P 10W 830 1200lm  |
|   | Lichtverdelingscurve type kegel  | BLKH 250 P 10W 840 1200lm  |
|   | Lichtverdelingscurve type kegel  | BLKH 250 P 5.5W 830 680lm  |
|   | Lichtverdelingscurve type kegel  | BLKH 250 P 5.5W 840 710lm  |
|   | Lichtverdelingscurve type kegel  | BLKH 250 P 6.5W 830 820lm  |
|   | Lichtverdelingscurve type kegel  | BLKH 250 P 6.5W 840 860lm  |
|   | Lichtverdelingscurve type kegel  | BLKH 250 P 8W 830 1020lm   |
|   | Lichtverdelingscurve type kegel  | BLKH 250 P 8W 840 1070lm   |
|   | Lichtverdelingscurve type kegel  | BLKH 250 P 9.5W 830 1150lm |
|   | Lichtverdelingscurve type kegel  | BLKH 250 P 9.5W 840 1220lm |
|   | Lichtverdelingscurve type polair | BLKH 250 P 10W 830 1200lm  |
|   | Lichtverdelingscurve type polair | BLKH 250 P 10W 840 1200lm  |

| Fotometrische- en lichtontwerpbestanden                                          |                                  | Naam document              |
|----------------------------------------------------------------------------------|----------------------------------|----------------------------|
|  | Lichtverdelingscurve type polair | BLKH 250 P 5.5W 830 680lm  |
|  | Lichtverdelingscurve type polair | BLKH 250 P 5.5W 840 710lm  |
|  | Lichtverdelingscurve type polair | BLKH 250 P 6.5W 830 820lm  |
|  | Lichtverdelingscurve type polair | BLKH 250 P 6.5W 840 860lm  |
|  | Lichtverdelingscurve type polair | BLKH 250 P 8W 830 1020lm   |
|  | Lichtverdelingscurve type polair | BLKH 250 P 8W 840 1070lm   |
|  | Lichtverdelingscurve type polair | BLKH 250 P 9.5W 830 1150lm |
|  | Lichtverdelingscurve type polair | BLKH 250 P 9.5W 840 1220lm |

| CAD/BIM-bestanden                                                                |              | Naam document  |
|----------------------------------------------------------------------------------|--------------|----------------|
|  | BIM Revit 3D | Bulkhead Round |
|  | CAD STEP 3D  | BLKH G2 250    |

LOGISTIEKE GEGEVENS

| Productcode   | Verpakkingseenheid (stuks per verpakking) | Afmetingen (lengte x breedte x hoogte) | Brutogewicht | Volume                |
|---------------|-------------------------------------------|----------------------------------------|--------------|-----------------------|
| 4099854286087 | Vouwdoos<br>1                             | 77 mm x 266 mm x 266 mm                | 783.00 g     | 5.45 dm <sup>3</sup>  |
| 4099854286094 | Verzenddoos<br>8                          | 545 mm x 280 mm x 335 mm               | 6814.00 g    | 51.12 dm <sup>3</sup> |

De genoemde productcodes beschrijven de kleinste hoeveelheid die besteld kan worden. Eén verzendenheid kan bestaan uit één of meer afzonderlijke producten. Bij het plaatsen van een order enkele of veelvouden van de verpakkingseenheid invoeren.

AANVULLENDE CATALOGUSINFORMATIE

| BLKH RD 250 |      |      |      |      | BLKH RD 250P 250 |      |      |      |      | B16  |      | B18  |      | C10  |      | C16  |      |
|-------------|------|------|------|------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| WAC         | 5,5  | 6    | 6,5  | 6,5  | WAC              | 5,5  | 7    | 7    |      |      |      |      |      |      |      |      |      |
| T (Wattage) | 4000 | 3000 | 4000 | 3000 | T (Wattage)      | 4000 | 3000 | 4000 | 3000 | 4000 | 3000 | 4000 | 3000 | 4000 | 3000 | 4000 | 3000 |
| lm          | 1230 | 1140 | 1200 | 860  | lm               | 1230 | 1140 | 1200 | 860  | 1230 | 1140 | 1200 | 860  | 1230 | 1140 | 1200 | 860  |
| lm/W        | 108  | 100  | 100  | 100  | lm/W             | 108  | 100  | 100  | 100  | 108  | 100  | 100  | 100  | 108  | 100  | 100  | 100  |

| BLKH RD 300 |      |      |      |      | BLKH RD 250 P 10W CPS BUK |      |      |      |      | 155 <th colspan="2">248<th colspan="2">155<th colspan="2">248</th></th></th> |      | 248 <th colspan="2">155<th colspan="2">248</th></th> |      | 155 <th colspan="2">248</th> |      | 248  |      |
|-------------|------|------|------|------|---------------------------|------|------|------|------|------------------------------------------------------------------------------|------|------------------------------------------------------|------|------------------------------|------|------|------|
| WAC         | 6,5  | 6,5  | 6,5  | 6,5  | WAC                       | 6,5  | 6,5  | 6,5  | 6,5  |                                                                              |      |                                                      |      |                              |      |      |      |
| T (Wattage) | 4000 | 3000 | 4000 | 3000 | T (Wattage)               | 4000 | 3000 | 4000 | 3000 | 4000                                                                         | 3000 | 4000                                                 | 3000 | 4000                         | 3000 | 4000 | 3000 |
| lm          | 1270 | 1140 | 1270 | 1140 | lm                        | 1270 | 1140 | 1270 | 1140 | 1270                                                                         | 1140 | 1270                                                 | 1140 | 1270                         | 1140 | 1270 | 1140 |
| lm/W        | 100  | 100  | 100  | 100  | lm/W                      | 100  | 100  | 100  | 100  | 100                                                                          | 100  | 100                                                  | 100  | 100                          | 100  | 100  | 100  |

| BLKH RD 300 |      |      |      |      | BLKH RD 250 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|-------------|------|------|------|------|--------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC         | 6,5  | 6,5  | 6,5  | 6,5  | WAC                      | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage) | 4000 | 3000 | 4000 | 3000 | T (Wattage)              | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm          | 1270 | 1140 | 1270 | 1140 | lm                       | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W        | 100  | 100  | 100  | 100  | lm/W                     | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|--------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                      | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)              | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                       | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                     | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS BUK |      |      |      |      | 140 <th colspan="2">224<th colspan="2">140<th colspan="2">224</th></th></th> |      | 224 <th colspan="2">140<th colspan="2">224</th></th> |      | 140 <th colspan="2">224</th> |      | 224  |      |
|------------------|------|------|------|------|--------------------------------|------|------|------|------|------------------------------------------------------------------------------|------|------------------------------------------------------|------|------------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                            | 6,5  | 6,5  | 6,5  | 6,5  |                                                                              |      |                                                      |      |                              |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                    | 4000 | 3000 | 4000 | 3000 | 4000                                                                         | 3000 | 4000                                                 | 3000 | 4000                         | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                             | 1270 | 1140 | 1270 | 1140 | 1270                                                                         | 1140 | 1270                                                 | 1140 | 1270                         | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                           | 100  | 100  | 100  | 100  | 100                                                                          | 100  | 100                                                  | 100  | 100                          | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |      |      |      |      | BLKH RD 300P 300 P 10W CPS WT |      |      |      |      | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |      | 79 <th colspan="2">63<th colspan="2">101</th></th> |      | 63 <th colspan="2">101</th> |      | 101  |      |
|------------------|------|------|------|------|-------------------------------|------|------|------|------|---------------------------------------------------------------------------|------|----------------------------------------------------|------|-----------------------------|------|------|------|
| WAC              | 6,5  | 6,5  | 6,5  | 6,5  | WAC                           | 6,5  | 6,5  | 6,5  | 6,5  |                                                                           |      |                                                    |      |                             |      |      |      |
| T (Wattage)      | 4000 | 3000 | 4000 | 3000 | T (Wattage)                   | 4000 | 3000 | 4000 | 3000 | 4000                                                                      | 3000 | 4000                                               | 3000 | 4000                        | 3000 | 4000 | 3000 |
| lm               | 1270 | 1140 | 1270 | 1140 | lm                            | 1270 | 1140 | 1270 | 1140 | 1270                                                                      | 1140 | 1270                                               | 1140 | 1270                        | 1140 | 1270 | 1140 |
| lm/W             | 100  | 100  | 100  | 100  | lm/W                          | 100  | 100  | 100  | 100  | 100                                                                       | 100  | 100                                                | 100  | 100                         | 100  | 100  | 100  |

| BLKH RD 300P 300 |     |     |     |     | BLKH RD 300P 300 P 10W CPS WT |       |  |  |  | 63 <th colspan="2">79<th colspan="2">63<th colspan="2">101</th></th></th> |  | 79 <th colspan="2">63<th colspan="2">101</th></th> |  | 63 <th colspan="2">101</th> |  | 101 |  |
|------------------|-----|-----|-----|-----|-------------------------------|-------|--|--|--|---------------------------------------------------------------------------|--|----------------------------------------------------|--|-----------------------------|--|-----|--|
| WAC              | 6,5 | 6,5 | 6,5 | 6,5 | WAC                           | 6,5</ |  |  |  |                                                                           |  |                                                    |  |                             |  |     |  |