

SPECIFICATION SHEET

SUBJECT

FRISBEE LED SURFACE MOUNT DISC LIGHT

CUSTOMER PROJECT

Project: _____
 Type: _____
 Cat. No.: _____
 Qty: _____
 Date: _____
 EEL Rep: _____



Telephone: 905 415 8878 Fax Number: 905 415 8872 Toll Free Telephone: 855 415 8878 Toll Free Fax: 855 415 8872

DESCRIPTION

Quite simply, the frisbee disc light provides a quality LED surface mount for new construction and retrofit applications. It's dimmable, lightweight and also suitable for damp locations.

SPECIFICATION FEATURES

Construction

- Powder-coated white plastic flange
- High transmittance lens for smooth, comfortable light pattern
- Integrated Driver-on-Board (DOB) designed to save recessed spacing

Beam Angle

- 90°

Shielding

- LED Frosted Acrylic Diffuser

Compliance

- cETLus
- Energy Star

Warranty

- 5-Year Warranty (Standard)
- 10-Year Limited Warranty (Optional)
- 50,000 hours

Mounting

- Installs into 3.5" round and standard 4" J-box applications

Finish

- Powder coated white



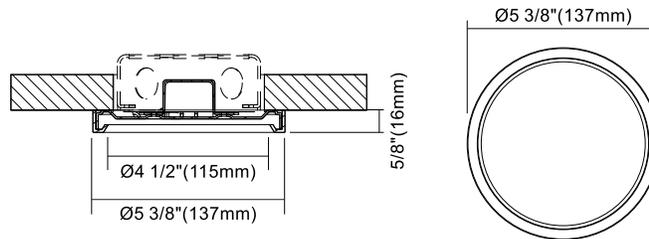
FRISBEE LED SURFACE MOUNT DISC LIGHT (ROUND)



FRISBEE SERIES

FRISBEE SURFACE MOUNT DISC LIGHT

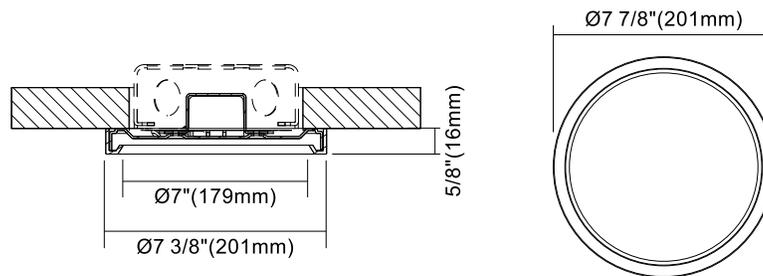
| | |
|------------------------------|--------------------------------|
| Wattage(s) | 10W, 15W |
| Voltage | 120V |
| Dimmable | Triac, 10-100% dimming range |
| CCT | 3000K, 4000K, 3CCT Adjustable |
| CRI | 80 |
| Lumen Maintenance | Projected life is 50,000 hours |
| Operating Temperature | -20°C to 40°C |
| Power Factor | >0.9 |



FBLED-5-S10W
Dimensions
 OD 5-3/8" (137mm) x ID 4-1/2" (115mm)
 Thickness 5/8" (16mm)



SIDE VIEW



FBLED-7-S15W
Dimensions
 OD 7-7/8" (201mm) x ID 7" (179mm)
 Thickness 5/8" (16mm)



BACK VIEW



...continued

Telephone: 905 415 8878 Fax Number: 905 415 8872 Toll Free Telephone: 855 415 8878 Toll Free Fax: 855 415 8872

ORDERING CODE, ENERGY AND PERFORMANCE DATA

| Model No. | Delivered Lumens (lm) | Input Watts (W) | Voltage (V) | Colour Temp. (K) | Location |
|--|-----------------------|-----------------|----------------------|-------------------------|---|
|  FBLED-5-S10W-3KWH FBLED-5-S10W-4KWH 5-inch, White - Legacy II - | 600 650 | 10 10 | 120V 120V | 3000K 4000K |  |
|  FBLED-7-S15W-3KWH FBLED-7-S15W-4KWH 7-inch, White - Legacy II - | 950 1000 | 15 15 | 120V 120V | 3000K 4000K |  |
|  FBLED-7-S15W-27KWH 3CCT Adjustable 7-inch, White - Legacy II - | 900 950 1000 | 15 15 15 | 120V 120V 120V | 2700K 3000K 4000K |  |

NOTE:
 • 120V Triac dimmable
 • Lumens are estimated

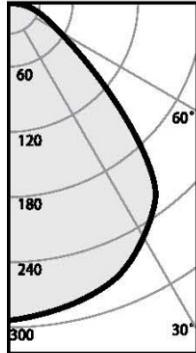
OPTIONAL ACCESSORIES

FB-RETROFIT INSTALL (5") | Frisbee Retrofit Installation Accessory
 FB-RETROFIT INSTALL (7") | Frisbee Retrofit Installation Accessory

PHOTOMETRICS

FBLED-5-S10W-3KWH | 10W | 3000K

Candela C curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0 | 294 | |
| 5 | 291 | 28 |
| 10 | 286 | |
| 15 | 282 | 80 |
| 20 | 276 | |
| 25 | 265 | 122 |
| 30 | 253 | |
| 35 | 236 | 147 |
| 40 | 211 | |
| 45 | 157 | 121 |
| 50 | 108 | |
| 55 | 74 | 68 |
| 60 | 53 | |
| 65 | 39 | 40 |
| 70 | 30 | |
| 75 | 22 | 23 |
| 80 | 14 | |
| 85 | 5 | 6 |
| 90 | 0 | |

Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5' | 12 | 6.5' |
| 6' | 8 | 7.8' |
| 7' | 6 | 9.1' |
| 8' | 5 | 10.4' |
| 9' | 4 | 11.7' |

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5' | 26.7 | 0.43 |
| 6' | 17.5 | 0.29 |
| 7' | 12.5 | 0.20 |
| 8' | 10.4 | 0.17 |
| 9' | 8.4 | 0.14 |

Report #: 438GFR

Output lumens: 625 lms
 Spacing Criterion: 1.3
 Field Angle: 141°
 Beam Angle: 92°
 Input Watts: 9.8 W
 Efficacy: 64.8 lm/w
 CCT: 3000 K
 CRI: >80

38"x38"x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

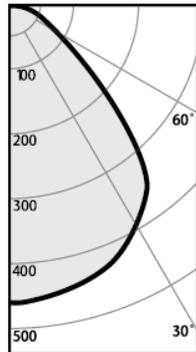
| Ceiling | 80% | | | | | 70% | | | | | 50% | | | | | 30% | | | | | 0% | | | | |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 | | |
| Wall | Zonal cavity method - Effective floor reflectance = 20% | | | | | | | | | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | |
| Room Cavity Ratio | 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 | 100 | 106 | 106 | 100 | 100 | 106 | 106 | 100 | 100 | 106 | 106 | | |
| 1 | 111 | 107 | 103 | 100 | 104 | 98 | 100 | 95 | 96 | 92 | 87 | 87 | 80 | 76 | 76 | 76 | 76 | 78 | 69 | 66 | 66 | 66 | 66 | | |
| 2 | 102 | 95 | 89 | 84 | 93 | 83 | 90 | 81 | 87 | 80 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 78 | 69 | 66 | 66 | 66 | 66 | | |
| 3 | 94 | 85 | 78 | 72 | 84 | 72 | 81 | 71 | 78 | 69 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 71 | 61 | 58 | 58 | 58 | 58 | | |
| 4 | 87 | 77 | 69 | 63 | 75 | 63 | 73 | 62 | 71 | 61 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 64 | 54 | 52 | 52 | 52 | 52 | | |
| 5 | 81 | 69 | 61 | 55 | 68 | 55 | 66 | 55 | 64 | 54 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 61 | 49 | 46 | 46 | 46 | 46 | | |
| 6 | 75 | 63 | 55 | 49 | 62 | 49 | 61 | 49 | 59 | 48 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 54 | 43 | 41 | 41 | 41 | 41 | | |
| 7 | 70 | 58 | 50 | 44 | 57 | 44 | 55 | 44 | 54 | 43 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 50 | 39 | 37 | 37 | 37 | 37 | | |
| 8 | 65 | 53 | 45 | 40 | 52 | 40 | 51 | 39 | 50 | 39 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 46 | 36 | 34 | 34 | 34 | 34 | | |
| 9 | 61 | 49 | 41 | 36 | 48 | 36 | 47 | 36 | 46 | 36 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 43 | 33 | 31 | 31 | 31 | 31 | | |
| 10 | 58 | 45 | 38 | 33 | 45 | 33 | 44 | 33 | 43 | 33 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 43 | 33 | 31 | 31 | 31 | 31 | | |

Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 230 | 36.2% |
| 0-40 | 377 | 59.3% |
| 0-60 | 566 | 89.2% |
| 0-90 | 635 | 100.0% |

FBLED-7-S15W-3KWH | 15W | 3000K

Candela C curves



| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0 | 461 | |
| 5 | 457 | 43 |
| 10 | 450 | |
| 15 | 444 | 125 |
| 20 | 433 | |
| 25 | 415 | 192 |
| 30 | 395 | |
| 35 | 365 | 227 |
| 40 | 322 | |
| 45 | 235 | 182 |
| 50 | 161 | |
| 55 | 111 | 102 |
| 60 | 80 | |
| 65 | 59 | 60 |
| 70 | 45 | |
| 75 | 34 | 36 |
| 80 | 22 | |
| 85 | 10 | 11 |
| 90 | 0 | |

Single unit data

| Height to Lighted Plane | Initial center beam foot-candles | Beam dia. (ft)* |
|-------------------------|----------------------------------|-----------------|
| 5' | 18 | 6.5' |
| 6' | 13 | 7.8' |
| 7' | 9 | 9.1' |
| 8' | 7 | 10.4' |
| 9' | 6 | 11.7' |

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

| Spacing on center | Initial center beam foot-candles | Watts per sq.ft. |
|-------------------|----------------------------------|------------------|
| 5' | 41.2 | 0.61 |
| 6' | 27.0 | 0.40 |
| 7' | 19.3 | 0.29 |
| 8' | 16.1 | 0.24 |
| 9' | 12.9 | 0.19 |

Report #: 441GFR

Output lumens: 977 lms
 Spacing Criterion: 1.3
 Field Angle: 140°
 Beam Angle: 91°
 Input Watts: 13.8W
 Efficacy: 70.8 lm/w
 CCT: 3000 K
 CRI: >80

38"x38"x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Coefficients of utilization

| Ceiling | 80% | | | | | 70% | | | | | 50% | | | | | 30% | | | | | 0% | | | | |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 | | |
| Wall | Zonal cavity method - Effective floor reflectance = 20% | | | | | | | | | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | |
| Room Cavity Ratio | 0 | 119 | 119 | 119 | 119 | 116 | 116 | 111 | 111 | 106 | 106 | 100 | 100 | 106 | 106 | 100 | 100 | 106 | 106 | 100 | 100 | 106 | 106 | | |
| 1 | 111 | 107 | 103 | 100 | 104 | 98 | 100 | 95 | 96 | 92 | 87 | 87 | 80 | 76 | 76 | 76 | 76 | 78 | 69 | 66 | 66 | 66 | 66 | | |
| 2 | 102 | 95 | 89 | 84 | 93 | 83 | 90 | 81 | 87 | 80 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 78 | 69 | 66 | 66 | 66 | 66 | | |
| 3 | 94 | 85 | 78 | 73 | 84 | 72 | 81 | 71 | 78 | 69 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 71 | 61 | 59 | 59 | 59 | 59 | | |
| 4 | 87 | 77 | 69 | 63 | 76 | 63 | 73 | 62 | 71 | 61 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 64 | 54 | 52 | 52 | 52 | 52 | | |
| 5 | 81 | 70 | 62 | 56 | 69 | 56 | 67 | 55 | 65 | 54 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 61 | 49 | 46 | 46 | 46 | 46 | | |
| 6 | 75 | 63 | 55 | 50 | 63 | 49 | 61 | 49 | 59 | 48 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 54 | 43 | 41 | 41 | 41 | 41 | | |
| 7 | 70 | 58 | 50 | 44 | 57 | 44 | 56 | 44 | 54 | 43 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 50 | 39 | 37 | 37 | 37 | 37 | | |
| 8 | 66 | 53 | 46 | 40 | 53 | 40 | 51 | 39 | 50 | 39 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 46 | 36 | 34 | 34 | 34 | 34 | | |
| 9 | 62 | 49 | 42 | 36 | 49 | 36 | 48 | 36 | 47 | 36 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 43 | 33 | 31 | 31 | 31 | 31 | | |
| 10 | 58 | 46 | 38 | 33 | 45 | 33 | 44 | 33 | 43 | 33 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 43 | 33 | 31 | 31 | 31 | 31 | | |

Zonal lumens & percentages

| Zone | Lumens | %Luminaire |
|------|--------|------------|
| 0-30 | 360 | 36.9% |
| 0-40 | 587 | 60.1% |
| 0-60 | 871 | 89.2% |
| 0-90 | 977 | 100.0% |

