

SPECIFICATION SHEET

SUBJECT

FRISBEE LED SURFACE MOUNT DISC LIGHT

CUSTOMER PROJECT

Project: _____

Type: _____

Cat. No.: _____

Qty: _____

Date: _____

EEL Rep: _____



solutions closer to nature

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



DESCRIPTION

The Frisbee LED Disc Light provides surface mount light for new constructions and retrofitting existing 4" housing applications (retrofit accessories sold separately). It is dimmable, suitable for damp locations and Energy Star listed.

SPECIFICATION FEATURES

Construction

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

Controls

Dimmable LED Driver; CRI 80 LED

Electrical

Long life LED system complete with electrical driver to deliver optimal performance. LED's available in 3000K and 4000K with typical CRI: 80. Projected life is 50,000 hours. Luminaires are intended for use with standard type dimmers (TRIAC). 10-100% dimming range. Ambient temperature -20°C to 40°C. Input Voltage 120V

Mounting

Installs into 3.5" round and standard 4" J-box applications. Includes friction blades to mount trim securely to housing

Finish

Powder coated white

Beam Angle

90 degrees

Shielding

LED Frosted Acrylic Diffuser

Compliance

cETLus and Energy Star approved

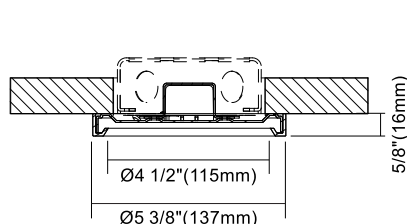
Warranty

5 years. 50,000 hours



FRISBEE LED
SURFACE MOUNT
DISC LIGHT
(ROUND)

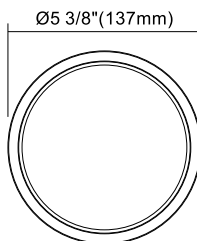
EEL
frisbee.
disc light



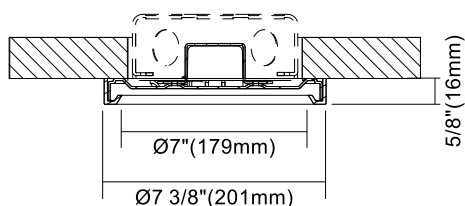
FBLED-5-S10W

Dimensions

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



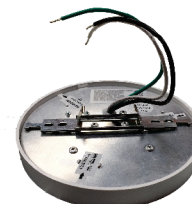
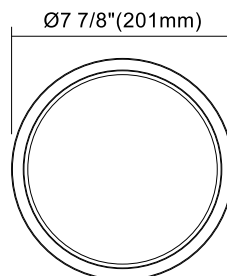
SIDE VIEW



FBLED-7-S15W

Dimensions

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



BACK VIEW



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...continued

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ORDERING CODE, ENERGY AND PERFORMANCE DATA

| Model No. | Delivered Lumens (lm) | Input Watts (W) | Voltage (V) | Colour Temp. (K) | Certification | Type |
|---|-----------------------|-----------------|--------------|------------------|---|----------------------|
|  FBLED-5-S10W-3KWH FBLED-5-S10W-4KWH 5-inch, White | 600 650 | 10 10 | 120V 120V | 3000K 4000K |   | Standard Standard |
|  FBLED-7-S15W-3KWH FBLED-7-S15W-4KWH 7-inch, White | 900 950 | 15 15 | 120V 120V | 3000K 4000K |   | Standard Standard |

NOTE:

- 120V dimmable
- Lumens are estimated

OPTIONAL ACCESSORIES

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

SHIPPING DATA

Model No.
 FBLED-5-S10W
 FBLED-7-S15W

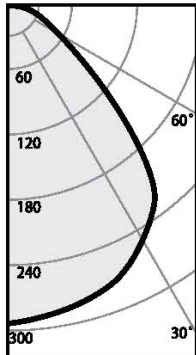
Gross Weight

0.22kg / 0.48lbs
 0.41kg / 0.90lbs

PHOTOMETRICS

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

Candela C. curves



Report #: 438GFR

Output lumens: 625 lms
 Spacing Criterion: 1.3
 Field Angle: 141°
 Beam Angle: 92°

| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0 | 294 | 28 |
| 5 | 291 | |
| 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 |

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

Coefficients of utilization

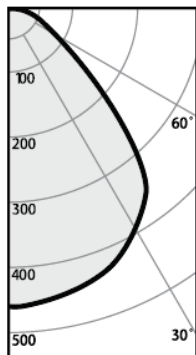
| Ceiling | 80% | | | | 70% | | | | 50% | | | | 30% | | | | 0% |
|-------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | Zonal cavity method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



Report #: 441GFR

Output lumens: 977 lms
 Spacing Criterion: 1.3
 Field Angle: 140°
 Beam Angle: 91°

| Angle | Mean CP | Lumens |
|-------|---------|--------|
| 0 | 461 | 43 |
| 5 | 457 | |
| 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 |

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

Coefficients of utilization

| Ceiling | 80% | | | | 70% | | 50% | | 30% | | 0% | |
|-------------------|---|--|--|---|-----|--|--|--|--|------------------------------|------------------|-----|
| Wall | 70 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 | |
| RCR | Zonal cavity method - Effective floor reflectance = 20% | | | | | | | | | | | |
| Room Cavity Ratio | 0 | 119 <td>119<td>119<td>119</td><td>116<td>116<td>111<td>111<td>106<td>106<td>100</td></td></td></td></td></td></td></td></td> | 119 <td>119<td>119</td><td>116<td>116<td>111<td>111<td>106<td>106<td>100</td></td></td></td></td></td></td></td> | 119 <td>119</td> <td>116<td>116<td>111<td>111<td>106<td>106<td>100</td></td></td></td></td></td></td> | 119 | 116 <td>116<td>111<td>111<td>106<td>106<td>100</td></td></td></td></td></td> | 116 <td>111<td>111<td>106<td>106<td>100</td></td></td></td></td> | 111 <td>111<td>106<td>106<td>100</td></td></td></td> | 111 <td>106<td>106<td>100</td></td></td> | 106 <td>106<td>100</td></td> | 106 <td>100</td> | 100 |
| | 1 | 111 | 107 | 103 | 100 | 104 | 98 | 100 | 95 | 96 | 92 | 87 |
| | 2 | 102 | 95 | 89 | 84 | 93 | 83 | 90 | 82 | 87 | 80 | 76 |
| | 3 | 94 | 85 | 78 | 73 | 84 | 72 | 81 | 71 | 78 | 70 | 66 |
| | 4 | 87 | 77 | 69 | 63 | 76 | 63 | 73 | 62 | 71 | 61 | 59 |
| | 5 | 81 | 70 | 62 | 56 | 69 | 56 | 67 | 55 | 65 | 54 | 52 |
| | 6 | 75 | 63 | 55 | 50 | 63 | 49 | 61 | 49 | 59 | 48 | 46 |
| | 7 | 70 | 58 | 50 | 44 | 57 | 44 | 56 | 44 | 54 | 44 | 42 |
| | 8 | 66 | 53 | 46 | 40 | 53 | 40 | 51 | 40 | 50 | 40 | 38 |
| | 9 | 62 | 49 | 42 | 36 | 49 | 36 | 48 | 36 | 47 | 36 | 34 |
| 10 | 58 | 46 | 38 | 33 | 45 | 33 | 44 | 33 | 43 | 33 | 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% |

