

GD4DS / ISD400

4" Gravity BIOS Square Downlight



| | | | |
|----------|--|----------------|--|
| JOB NAME | | CATALOG NUMBER | |
| NOTES | | TYPE | |

ELECTRICAL DATA: (Data Based On 3000K/82CRI Configuration)

| LED Light Engine | Nominal Delivered Lumen* | System Wattage** | Efficacy | LED Light Engine | Nominal Delivered Lumen* | System Wattage** | Efficacy |
|------------------|--------------------------|------------------|----------|------------------|--------------------------|------------------|----------|
| BS05 | 500lm | 10W | 50 lm/W | BS2 | 1500lm | 27W | 56 lm/W |
| BS1 | 1000lm | 18W | 56 lm/W | BS3 | 2000lm | 34W | 59 lm/W |

*Delivered lumen output will vary depending on CCT, CRI, optic and reflector finish. | **System Wattage includes driver and LED Module consumption.

FEATURES

- BIOS Illuminated: Blue Spectrum Peak Emission at 490 nm
- High delivered lumens maintained in ceiling from 1/2" to 2 1/4" using patent pending design
- Future proof luminaire with easy module install via twist-to-lock mounting and driver access through raised junction box

LED LIGHT ENGINE

- 3000K, 3500K or 4000K w/ CRI 80+ and R9 > 90
- 2 Step MacAdam (2 SDCM)
- Rated life of >50,000 hours L70 based on LED testing per LM-80-08 and projected values using IESNA TM21-11

DIMMING

- Phase Dimming 120V only, Forward 1% / Reverse 5%
- 0-10V Dimming 1%
- EldoLED 0-10V 0.1% or 1%
- Lutron® LDE1 Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
- Lutron® LTEA2W Hi-Lume 1% 2-Wire LED driver (120V forward phase only)
- DMX512 RDM 0.1%

OPTICS

- 20° Spot, 30° Narrow Flood, 40° Flood and 50° Wide Flood
- Optics and filter media are field customizable

ELECTRICAL SYSTEM

- Dedicated voltage options of 120V or 277V. Must be specified in catalog code.
- This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Additional surge protection recommended. Damage from power surge is not covered by warranty.

FRAME CONSTRUCTION

Constructed from 16 and 18 gauge heavy duty powder coated cold rolled steel frame with a large access junction box. ETL listed for through wiring. LED light engine and driver are accessible from above or below ceiling. Innovative collar is field selectable for ceiling thicknesses from 1/2" to 2 1/4" without reducing delivered lumens.

REFLECTOR

Specification grade reflector with 1.5mm thickness. Reflector available in haze, white, clear, black or wheat finish. Consult factory for other colors. Architectural, discrete polished self flange standard. Optional painted white flange is available. Meets RP-1 requirements with controlled light distribution at a 55° cut off.

INSTALLATION

The luminaire is type Non-IC. Insulation must be kept at a minimum of 3" away from fixture. Accommodates ceiling thickness from 1/2" to 2 1/4". Universal mounting brackets included. Compatible with C-channel, flat bar, wood joist bar hanger and EMT. Bar hangers must be ordered separately. C-channel is recommended for T-bar ceilings. Max. ambient temperature: 95°F (35°C).

EMERGENCY BACKUP

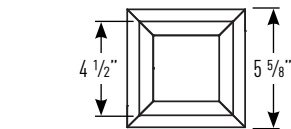
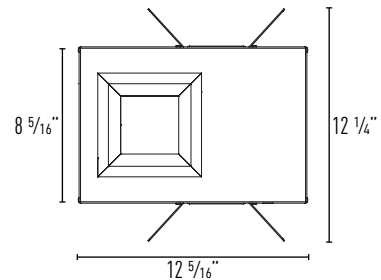
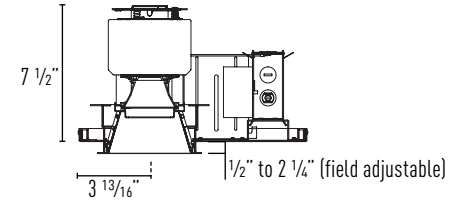
Remote test switch included. External battery operates LED load of up to 7W at a minimum of 450 lumens for 90 minutes (EM7), or 20W at a minimum of 1250 lumens for 90 minutes (EM20).

ACCESSORIES

Luminaire will accommodate (2) accessories, accessory holder required.

LISTING / WARRANTY

- ETL Listed to US and Canadian standards for damp locations
- 5-Year Intense LED Limited Warranty
- This product is covered by U.S. Pat. No. 10,274,148.



Ceiling Cut Out: 5 1/4" x 5 1/4"
Maximum Ceiling Thickness: 2 1/4"
Minimum Ceiling Thickness: 1/2"

Housing Part Number: (Example: NA/TBD)

| Housing | Wattage | CCT / CRI | Dimming | Voltage | Optic | Options |
|---------|-------------------------|---------------------|---|--------------|------------------------|--|
| GD4DS | BS05 ¹ (10W) | 30 (3000K / 80 CRI) | -DIM ² (Phase Dimming) | blank (120V) | -SP (20° Spot) | EM7 (7W Emergency Backup) |
| | BS1 (18W) | 35 (3500K / 80 CRI) | -D101 (0-10V Dimming 1%) | 27 (277V) | -NF (30° Narrow Flood) | IOTA ILB-CP07-A |
| | BS2 (27W) | 40 (4000K / 80 CRI) | -ED10V1 (eldoLED 0-10V 1%) | | -FL (40° Flood) | EM20 ³ (20W Emergency Backup) |
| | BS3 (34W) | | -ED10V01 (eldoLED 0-10V 0.1%) | | -WF (50° Wide Flood) | IOTA ILB-CP20-HE-S |
| | | | -LUT (Lutron® LDE1 EcoSystem 1%) | | | |
| | | | -LUT2 ² (Lutron® LTEA2W 2-Wire 1%) | | | |
| | | | -DMXR (DMX512 RDM 0.1%) | | | |

Reflector Part Number: (Example: ISD400HZ-SF)

| Reflector | Reflector Finish | Trim Type |
|-----------|--------------------------|---------------------------|
| ISD400 | HZ (Haze) | -SF (Self Flanged) |
| | W (White) | -SFW (Self Flanged White) |
| | C (Clear) | |
| | B ⁴ (Black) | |
| | WHT ⁴ (Wheat) | |

Accessories

| | |
|----------|--------------------------|
| LH63 | (Black Accessory Holder) |
| LH63W | (White Accessory Holder) |
| PFL2-63 | (Linear Spread Lens) |
| PFL4-63 | (Solite Soft Focus Lens) |
| PFLMB-63 | (Black Hex Louver) |

Bar Hangers

| | |
|------|--------------------------|
| 1100 | (C-Channel Bar Hangers) |
| 1200 | (Flat Bar Hangers) |
| 1400 | (Wood Joist Bar Hangers) |

Replacement Optics

| | |
|-----------|--------------------------|
| IP-OP63SP | (20° Spot Optic) |
| IP-OP63NF | (30° Narrow Flood Optic) |
| IP-OP63FL | (40° Flood Optic) |
| IP-OP63WF | (50° Wide Flood Optic) |

Notes:

- BS05 Not Available With (DIM) Phase Dimming
- Available in 120V only
- EM20 Not Available with BS05 & BS01
- Consult factory for lead times
- Trimless options are for use with mud ring accessory only

GRAVITY LM0119.22 P-7

INTENSE LIGHTING | 3340 E La Palma Ave, Anaheim, CA 92806 | tel 714 630-9877 | fax 714 630-9883

For Intense Lighting's limited product warranty, go to www.intenselighting.com. For a printed copy of the warranty, you may call 800 961-5321.

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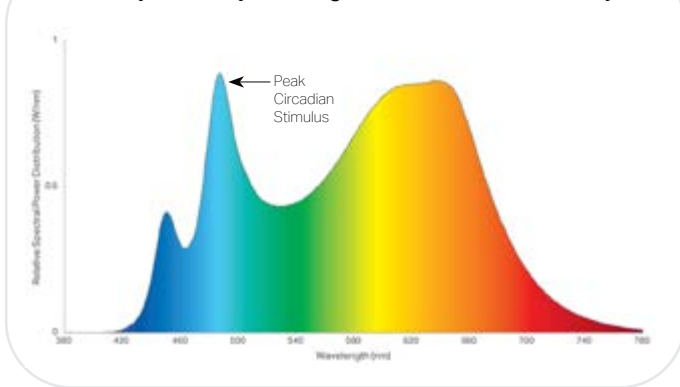
0-10V Dimming Electrical Table: System Wattage

| Lumen Package | Voltage | Wattage | VA | Input Current | Power Factor |
|---------------|---------|---------|-------|---------------|--------------|
| BS05 | 120V | 9.35W | 10.18 | 0.08 | 0.918 |
| | 277V | 10.47W | 14.50 | 0.05 | 0.722 |
| BS1 | 120V | 17.05W | 17.38 | 0.14 | 0.981 |
| | 277V | 18.45W | 21.51 | 0.08 | 0.858 |
| BS2 | 120V | 26.61W | 26.95 | 0.22 | 0.987 |
| | 277V | 27.90W | 31.25 | 0.11 | 0.893 |
| BS3 | 120V | 33.84W | 34.11 | 0.28 | 0.992 |
| | 277V | 35.12W | 38.89 | 0.14 | 0.903 |

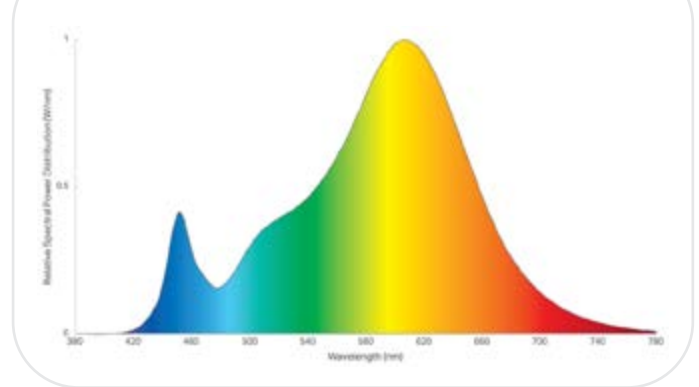
Phase Dimming Electrical Table: System Wattage

| Lumen Package | Voltage | Wattage | VA | Input Current | Power Factor |
|---------------|---------|---------|-------|---------------|--------------|
| BS1 | 120V | 16.60W | 17.07 | 0.14 | 0.972 |
| | 277V | - | - | | |
| BS2 | 120V | 26.00W | 26.42 | 0.22 | 0.984 |
| | 277V | - | - | | |
| BS3 | 120V | 33.16W | 33.16 | 0.28 | 1.000 |
| | 277V | - | - | | |

BIOS Dynamic SkyBlue - High M/P Ratio SPD (3500K Day)



BIOS Dynamic SkyBlue - Low M/P Ratio SPD (2700K Night)



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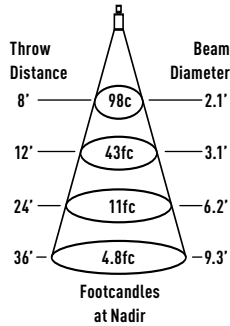
GD4DSL1 ISD400

Report #: ILL20190102-1.001
ILL20181218-2.001
ILL20181218-5.001
ILL20181218-8.001
ILL20181218-11.001

CCT MULTIPLIERS:

| | | |
|-------|----------|----------|
| | 82 CRI | 92 CRI |
| 2700K | (x 0.95) | (x 0.79) |
| 3000K | (x 1.00) | (x 0.82) |
| 3500K | (x 1.02) | (x 0.85) |
| 4000K | (x 1.03) | (x 0.88) |

-NS (14° Narrow Spot)

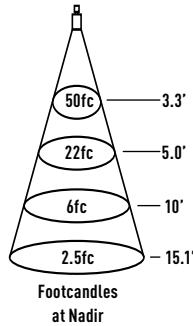


Watts: 10 LPW: 87.1
Lumens: 871 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 6243 |
| 5° | 4540 |
| 15° | 690 |
| 25° | 411 |
| 35° | 46 |
| 45° | 27 |

-SP (20° Spot)

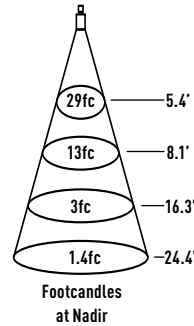


Watts: 10 LPW: 89.4
Lumens: 894 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 3203 |
| 5° | 2874 |
| 15° | 1112 |
| 25° | 430 |
| 35° | 64 |
| 45° | 33 |

-NF (30° Narrow Flood)

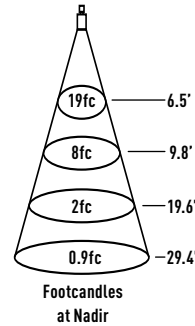


Watts: 10 LPW: 91.6
Lumens: 916 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 1856 |
| 5° | 1767 |
| 15° | 1179 |
| 25° | 560 |
| 35° | 107 |
| 45° | 39 |

-FL (40° Flood)

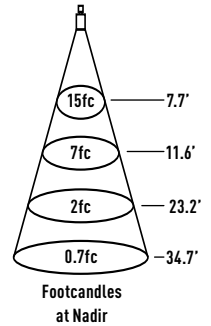


Watts: 10 LPW: 80.8
Lumens: 808 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 1196 |
| 5° | 1148 |
| 15° | 860 |
| 25° | 483 |
| 35° | 176 |
| 45° | 70 |

-WF (50° Wide Flood)



Watts: 10 LPW: 80.8
Lumens: 808 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 957 |
| 5° | 940 |
| 15° | 799 |
| 25° | 507 |
| 35° | 203 |
| 45° | 78 |

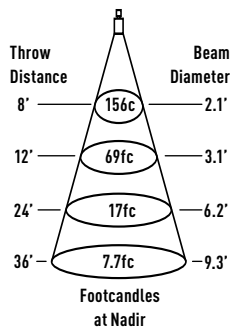
GD4DSL2 ISD400

Report #: ILL20190102-1.002
ILL20181218-2.002
ILL20181218-5.002
ILL20181218-8.002
ILL20181218-11.002

CCT MULTIPLIERS:

| | | |
|-------|----------|----------|
| | 82 CRI | 92 CRI |
| 2700K | (x 0.95) | (x 0.79) |
| 3000K | (x 1.00) | (x 0.82) |
| 3500K | (x 1.02) | (x 0.85) |
| 4000K | (x 1.03) | (x 0.88) |

-NS (14° Narrow Spot)

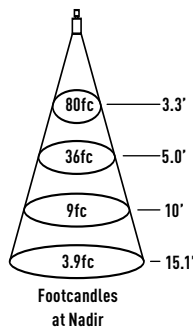


Watts: 14 LPW: 99.2
Lumens: 1389 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 9955 |
| 5° | 7240 |
| 15° | 1101 |
| 25° | 655 |
| 35° | 74 |
| 45° | 44 |

-SP (20° Spot)

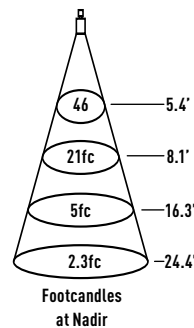


Watts: 14 LPW: 101.8
Lumens: 1425 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 5107 |
| 5° | 4583 |
| 15° | 1774 |
| 25° | 686 |
| 35° | 103 |
| 45° | 53 |

-NF (30° Narrow Flood)

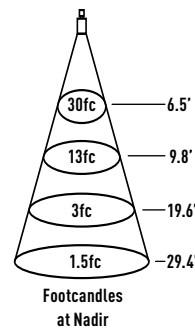


Watts: 14 LPW: 104.3
Lumens: 1460 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 2960 |
| 5° | 2817 |
| 15° | 1879 |
| 25° | 893 |
| 35° | 170 |
| 45° | 62 |

-FL (40° Flood)

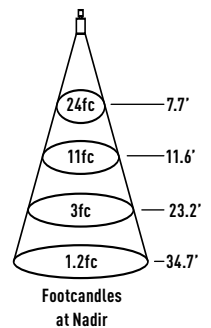


Watts: 14 LPW: 92.1
Lumens: 1289 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 1907 |
| 5° | 1831 |
| 15° | 1372 |
| 25° | 771 |
| 35° | 280 |
| 45° | 111 |

-WF (50° Wide Flood)



Watts: 14 LPW: 92
Lumens: 1288 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 1526 |
| 5° | 1498 |
| 15° | 1275 |
| 25° | 808 |
| 35° | 324 |
| 45° | 124 |