

GD4DS / ISD402

4" Gravity Square LED Lensed Downlight - Wet Location

| | | | |
|-----------------|--|-----------------------|--|
| 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 |
|------------------|--------------------------|------------------|----------|------------------|--------------------------|------------------|----------|
| L1 | 900lm | 12W | 75 lm/W | L6 | 3200lm | 37W | 86 lm/W |
| L2 | 1400lm | 15W | 93 lm/W | L7 | 3700lm | 44W | 84 lm/W |
| L3 | 1800lm | 20W | 90 lm/W | L8 | 4100lm | 48W | 85 lm/W |
| L4 | 2300lm | 25W | 92 lm/W | L9 | 4600lm | 55W | 84 lm/W |
| L5 | 2800lm | 31W | 90 lm/W | | | | |

*System Wattage include driver and LED Module consumption. / ** Delivered lumens will vary depending on CCT, CRI and optic selection

FEATURES

- 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

- 82/92 CRI at 2700K, 3000K, 3500K & 4000K with 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-Block dimming technology
- DMX512 RDM 0.1%

OPTICS

- 15° Narrow Spot, 20° Spot, 30° Narrow Flood, 40° Flood and 50° Wide Flood
- Optics are field customizable

ELECTRICAL SYSTEM

- Dedicated voltage options of 120V, 277V or 347V. Must be specified in catalog code. Consult factory for 347V
- 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 or black finish. Consult factory for other colors. Regressed lens available in two lens types; Clear Tempered or Solite. 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

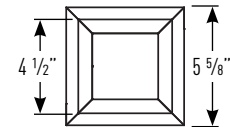
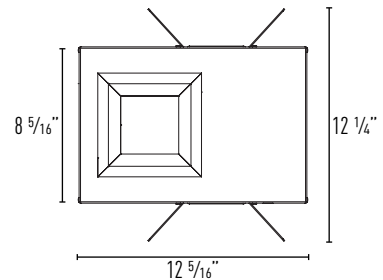
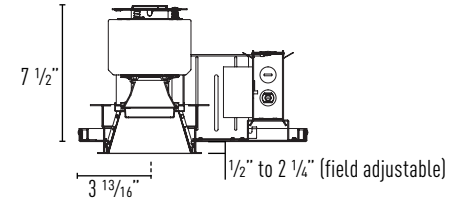
The luminaire is type Non-IC. Insulation must be kept at a minimum of 3" away from fixture. Accommodates ceiling thickness from 1/2" to 2 1/4". Universal mounting brackets included. Compatible with C-channel, flat bar, wood joist bar hanger and EMT. Bar hangers must be ordered separately. C-channel is 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 400 lumens for 90 minutes (EM7), or 20W at a minimum of 1250 lumens for 90 minutes (EM20).

LISTING / WARRANTY

- ETL Listed to US and Canadian standards for wet 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: GD4DSL230-D101-NSEM7)

| Housing | Wattage | CCT / CRI | Dimming | Voltage | Optic | Options |
|--------------|-----------------|-----------------------------|---|------------------------------|--|---|
| GD4DS | L1 (12W) | 27 (2700K / 82 CRI) | -DIM¹ (Phase Dimming) | blank (120V) | -NS⁴ (14° Narrow Spot) | EM7 (7W Emergency Backup IOTA part #ILB-CP07-A) |
| | L2 (15W) | 279 (2700K / 92 CRI) | -D101 (0-10V Dimming 1%) | 27 (277V) | -SP (20° Spot) | |
| | L3 (20W) | 30 (3000K / 82 CRI) | -ED10V1 (eldoLED 0-10V 1%) | 34⁶ (347V) | -NF (30° Narrow Flood) | EM20⁵ (20W Emergency Backup Bodine part #BSL20LV) |
| | L4 (25W) | 309 (3000K / 92 CRI) | -ED10V01 (eldoLED 0-10V 0.1%) | | -FL (40° Flood) | |
| | L5 (31W) | 35 (3500K / 82 CRI) | -LUT³ (Lutron® LDE1 EcoSystem 1%) | | -WF (50° Wide Flood) | |
| | L6 (37W) | 359 (3500K / 92 CRI) | -DMXR³ (DMX512 RDM 0.1%) | | | |
| | L7 (44W) | 40 (4000K / 82 CRI) | | | | |
| | L8 (48W) | 409 (4000K / 92 CRI) | | | | |
| | L9 (55W) | | | | | |

Reflector Part Number: (Example: ISD402HZ-SF-CR)

| Reflector | Reflector Finish | Trim | Lens Type |
|---------------|--------------------------------|--|-----------------------------|
| ISD402 | HZ (Haze) | -SF (Self Flanged) | -CR (Clear Tempered) |
| | W (White) | -SFW⁷ (Self Flanged White) | -SL (Solite) |
| | C (Clear) | | |
| | B^{6,7} (Black) | | |

Accessories

- I100** (C-Channel Bar Hangers)
- I200** (Flat Bar Hangers)
- I400** (Wood Joist Bar Hangers)

Notes:

- Available in 120V only
- Lutron® dimming not available in L9
- DMX512 RDM not available with L1 & L2
- 14° Optic not available in L8 & L9
- EM20 only available for L4 to L9
- Consult factory for lead times
- Self Flanged White (-SFW) not available with White or Black Reflector Finish

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|----------|--|----------------|--|
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| NOTES | | TYPE | |

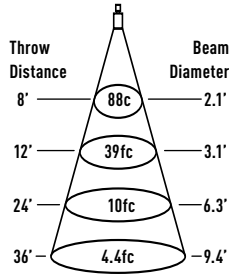
GD4DSL1 ISD402HZ

Report #: ILL20190103-1.001
ILL20181219-2.001
ILL20181219-5.001
ILL20181219-8.001
ILL20181219-11.001

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) |

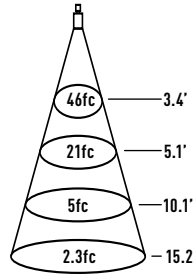
-NS (14° Narrow Spot)



Footcandles at Nadir
Watts: 10 LPW: 81.8
Lumens: 818 CCT: 3000K

| Luminance | |
|-----------|------|
| Degree | CBCP |
| 0° | 5651 |
| 5° | 4160 |
| 15° | 657 |
| 25° | 387 |
| 35° | 48 |
| 45° | 27 |

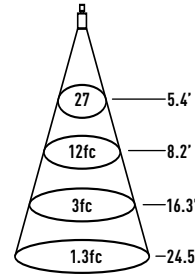
-SP (20° Spot)



Footcandles at Nadir
Watts: 10 LPW: 87.6
Lumens: 876 CCT: 3000K

| Luminance | |
|-----------|------|
| Degree | CBCP |
| 0° | 2968 |
| 5° | 2662 |
| 15° | 1048 |
| 25° | 447 |
| 35° | 76 |
| 45° | 35 |

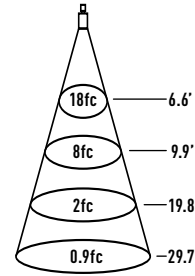
-NF (30° Narrow Flood)



Footcandles at Nadir
Watts: 10 LPW: 87.5
Lumens: 875 CCT: 3000K

| Luminance | |
|-----------|------|
| Degree | CBCP |
| 0° | 1737 |
| 5° | 1655 |
| 15° | 1103 |
| 25° | 539 |
| 35° | 108 |
| 45° | 39 |

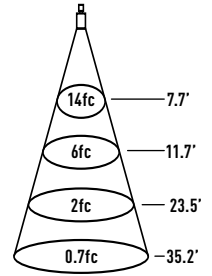
-FL (40° Flood)



Footcandles at Nadir
Watts: 10 LPW: 77.5
Lumens: 775 CCT: 3000K

| Luminance | |
|-----------|------|
| Degree | CBCP |
| 0° | 1127 |
| 5° | 1083 |
| 15° | 813 |
| 25° | 464 |
| 35° | 173 |
| 45° | 69 |

-WF (50° Wide Flood)



Footcandles at Nadir
Watts: 10 LPW: 77.0
Lumens: 770 CCT: 3000K

| Luminance | |
|-----------|------|
| Degree | CBCP |
| 0° | 889 |
| 5° | 874 |
| 15° | 745 |
| 25° | 481 |
| 35° | 200 |
| 45° | 79 |

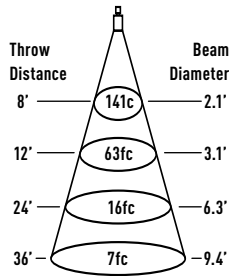
GD4DSL2 ISD402HZ

Report #: ILL20190103-1.002
ILL20181219-2.002
ILL20181219-5.002
ILL20181219-8.002
ILL20181219-11.002

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) |

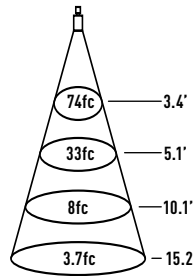
-NS (14° Narrow Spot)



Footcandles at Nadir
Watts: 14 LPW: 93.1
Lumens: 1304 CCT: 3000K

| Luminance | |
|-----------|------|
| Degree | CBCP |
| 0° | 9011 |
| 5° | 6633 |
| 15° | 1048 |
| 25° | 618 |
| 35° | 76 |
| 45° | 43 |

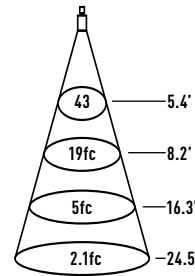
-SP (20° Spot)



Footcandles at Nadir
Watts: 14 LPW: 99.8
Lumens: 1398 CCT: 3000K

| Luminance | |
|-----------|------|
| Degree | CBCP |
| 0° | 4733 |
| 5° | 4244 |
| 15° | 1671 |
| 25° | 713 |
| 35° | 121 |
| 45° | 56 |

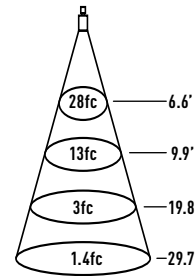
-NF (30° Narrow Flood)



Footcandles at Nadir
Watts: 14 LPW: 99.6
Lumens: 1395 CCT: 3000K

| Luminance | |
|-----------|------|
| Degree | CBCP |
| 0° | 2770 |
| 5° | 2638 |
| 15° | 1759 |
| 25° | 860 |
| 35° | 172 |
| 45° | 62 |

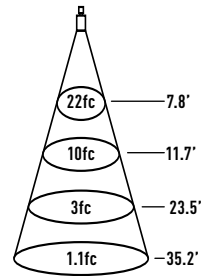
-FL (40° Flood)



Footcandles at Nadir
Watts: 14 LPW: 88.3
Lumens: 1236 CCT: 3000K

| Luminance | |
|-----------|------|
| Degree | CBCP |
| 0° | 1798 |
| 5° | 1727 |
| 15° | 1296 |
| 25° | 740 |
| 35° | 275 |
| 45° | 110 |

-WF (50° Wide Flood)



Footcandles at Nadir
Watts: 14 LPW: 87.7
Lumens: 1227 CCT: 3000K

| Luminance | |
|-----------|------|
| Degree | CBCP |
| 0° | 1418 |
| 5° | 1393 |
| 15° | 1188 |
| 25° | 766 |
| 35° | 318 |
| 45° | 125 |

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

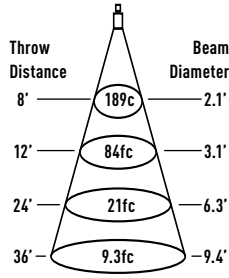
GD4DSL3 ISD402HZ

Report #: ILL20190103-1.003
ILL20181219-2.003
ILL20181219-5.003
ILL20181219-8.003
ILL20181219-11.003

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)



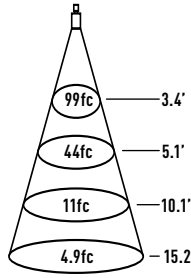
Footcandles at Nadir

Watts: 19 LPW: 91.9
Lumens: 1746 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|-------|
| 0° | 12065 |
| 5° | 8881 |
| 15° | 1404 |
| 25° | 827 |
| 35° | 102 |
| 45° | 58 |

-SP (20° Spot)



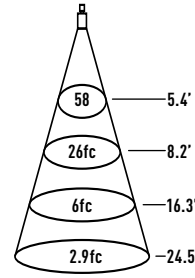
Footcandles at Nadir

Watts: 19 LPW: 98.5
Lumens: 1871 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 6337 |
| 5° | 5683 |
| 15° | 2237 |
| 25° | 954 |
| 35° | 162 |
| 45° | 75 |

-NF (30° Narrow Flood)



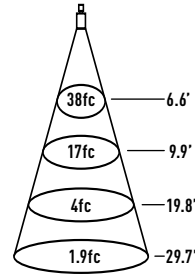
Footcandles at Nadir

Watts: 19 LPW: 98.3
Lumens: 1867 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 3709 |
| 5° | 3533 |
| 15° | 2355 |
| 25° | 1151 |
| 35° | 231 |
| 45° | 84 |

-FL (40° Flood)



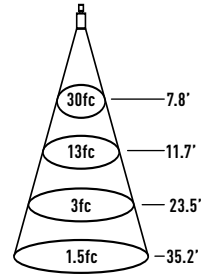
Footcandles at Nadir

Watts: 19 LPW: 87.1
Lumens: 1655 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 2407 |
| 5° | 2312 |
| 15° | 1735 |
| 25° | 991 |
| 35° | 369 |
| 45° | 148 |

-WF (50° Wide Flood)



Footcandles at Nadir

Watts: 19 LPW: 86.5
Lumens: 1643 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 1899 |
| 5° | 1865 |
| 15° | 1591 |
| 25° | 1026 |
| 35° | 426 |
| 45° | 168 |

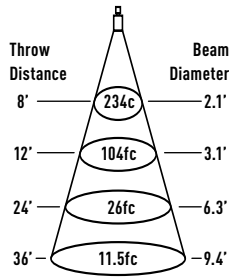
GD4DSL4 ISD402HZ

Report #: ILL20190103-1.004
ILL20181219-2.004
ILL20181219-5.004
ILL20181219-8.004
ILL20181219-11.004

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)



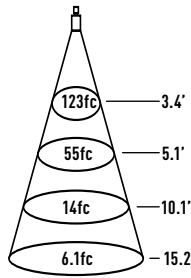
Footcandles at Nadir

Watts: 24 LPW: 90.2
Lumens: 2166 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|-------|
| 0° | 14968 |
| 5° | 11018 |
| 15° | 1741 |
| 25° | 1026 |
| 35° | 126 |
| 45° | 72 |

-SP (20° Spot)



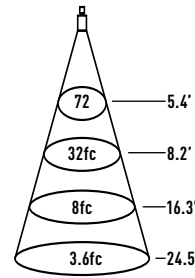
Footcandles at Nadir

Watts: 24 LPW: 96.7
Lumens: 2321 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 7861 |
| 5° | 7050 |
| 15° | 2775 |
| 25° | 1184 |
| 35° | 201 |
| 45° | 93 |

-NF (30° Narrow Flood)



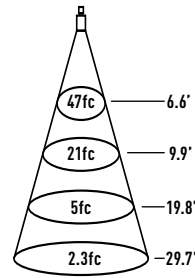
Footcandles at Nadir

Watts: 24 LPW: 96.5
Lumens: 2316 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 4601 |
| 5° | 4382 |
| 15° | 2921 |
| 25° | 1428 |
| 35° | 286 |
| 45° | 104 |

-FL (40° Flood)



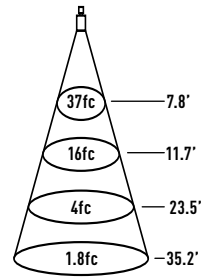
Footcandles at Nadir

Watts: 24 LPW: 85.6
Lumens: 2053 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 2986 |
| 5° | 2868 |
| 15° | 2152 |
| 25° | 1229 |
| 35° | 457 |
| 45° | 183 |

-WF (50° Wide Flood)



Footcandles at Nadir

Watts: 24 LPW: 84.9
Lumens: 2039 CCT: 3000K

Luminance

| Degree | CBCP |
|--------|------|
| 0° | 2356 |
| 5° | 2314 |
| 15° | 1974 |
| 25° | 1273 |
| 35° | 529 |
| 45° | 208 |