

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

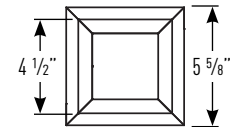
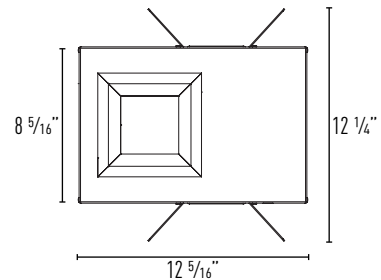
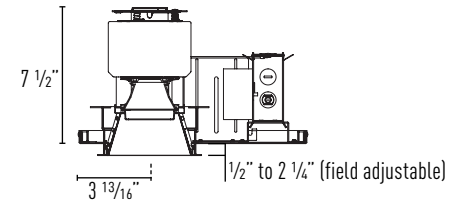
The luminaire is type Non-IC. Insulation must be kept at a minimum of 3" away from fixture. Accommodates ceiling thickness from 1/2" to 2 1/4". Universal mounting brackets included. Compatible with C-channel, flat bar, wood joist bar hanger and EMT. Bar hangers must be ordered separately. C-channel is 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)	-DIM ¹ (Phase Dimming)	blank (120V)	-NS ⁴ (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%)	34 ⁶ (347V)	-NF (30° Narrow Flood)	EM20 ⁵ (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)	-LUT ³ (Lutron® LDE1 EcoSystem 1%)		-WF (50° Wide Flood)	
	L6 (37W)	359 (3500K / 92 CRI)	-DMXR ³ (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)	-SFW ⁷ (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; not available with L9
- 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

JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

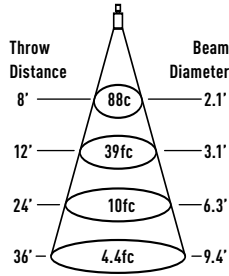
GD4DSL1 ISD402HZ

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)



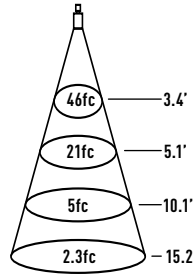
Footcandles at Nadir

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)



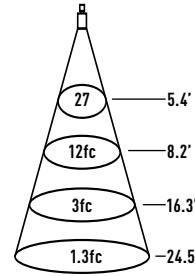
Footcandles at Nadir

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)



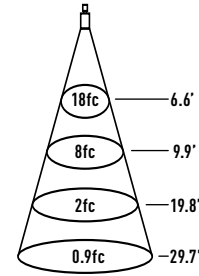
Footcandles at Nadir

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)



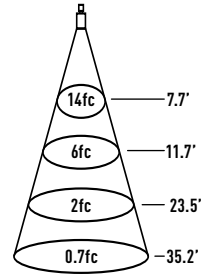
Footcandles at Nadir

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

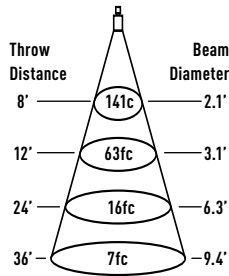
GD4DSL2 ISD402HZ

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)



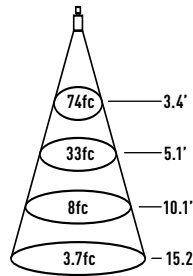
Footcandles at Nadir

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)



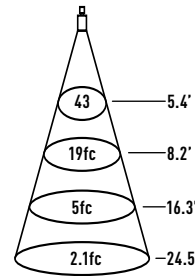
Footcandles at Nadir

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)



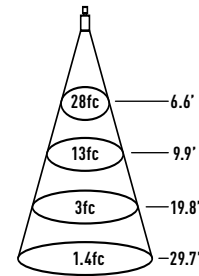
Footcandles at Nadir

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)



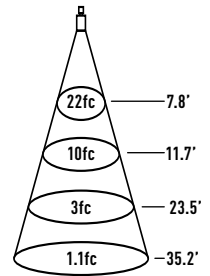
Footcandles at Nadir

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	

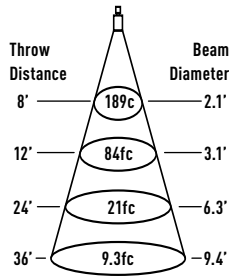
GD4DSL3 ISD402HZ

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)



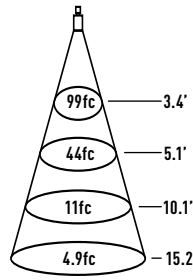
Footcandles at Nadir

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)



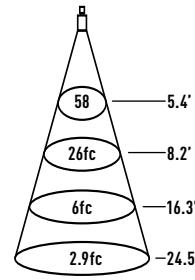
Footcandles at Nadir

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)



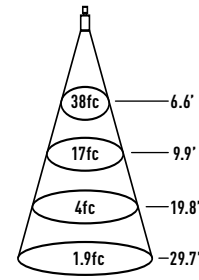
Footcandles at Nadir

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)



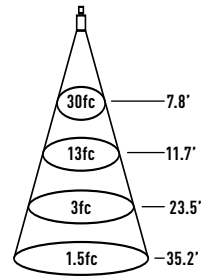
Footcandles at Nadir

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

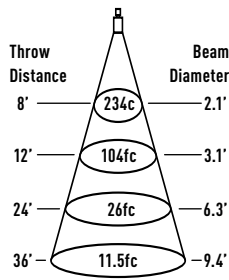
GD4DSL4 ISD402HZ

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)



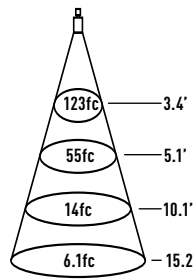
Footcandles at Nadir

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)



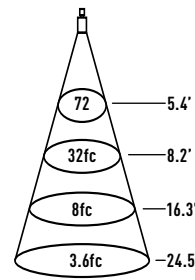
Footcandles at Nadir

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)



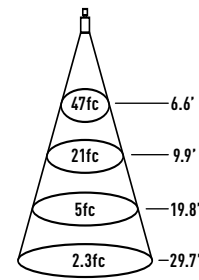
Footcandles at Nadir

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

Luminance

Degree	CBCP
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5°	4382
15°	2921
25°	1428
35°	286
45°	104

-FL (40° Flood)



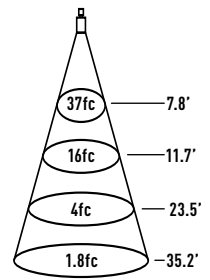
Footcandles at Nadir

Watts: 24 LPW: 86.6
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