# **GD4DR / IRD402**

4" Gravity BIOS 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
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%

- 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
- 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. 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 450 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 Warrany
- This product is covered by U.S. Pat. No. 10.274.148.



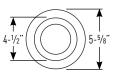




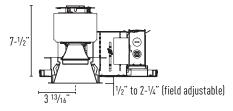


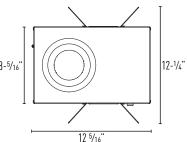














## Trimless Mud Ring:

Perforated collar for seamless and trimless mounting. Must be ordered separately and can only be used in conjunction with trimless trims.

Ceiling Cut Out: 5-1/4" Ceiling Thickness: 1/2" to 2-1/4"

## Housing Part Number: (Example: NA/TBD)

Housing	Wattage		CCT / CI	RI	Dimming		Voltage		Optic		Options	
GD4DR	BS051	(10W)	30	(3000K / 80 CRI)	-DIM <sup>2</sup>	(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 part #ILB-CP07-A)
	BS2	(27W)	40	(4000K / 80 CRI)	-ED10V1	(eldoLED 0-10V 1%)			-FL	(40° Flood)	EM20	(20W Emergency Backup
	BS3	(34W)			-ED10V01	(eldoLED 0-10V 0.1%)			-WF	(50° Wide Flood)		Bodine part #BSL20LV)
					-LUT	(Lutron® LDE1 EcoSystem 1%)						
					-LUT2 <sup>2</sup>	(Lutron® LTEA2W 2-Wire 1%)						

(DMX512 RDM 0.1%)

Poflector Part Number: (Evample: IPD//02H7\_SE\_CP)

Reflector	Reflector	Finish	Trim		Lens Ty	pe
IRD402	HZ W C B <sup>4</sup> WHT <sup>4</sup>	(Haze) (White) (Clear) (Black) (Wheat)		(Self Flanged) (Self Flanged White) (Trimless, for use with mud ring only)		(Clear Tempered) (Solite)

Bar Hangers		Replacement Op	tics
I100	(C-Channel Bar	IP-OP63SP	(20° Spot Optic)
	Hangers)	IP-OP63NF	(30° Narrow Flood Optic)
1200	(Flat Bar Hangers)	IP-0P63FL	(40° Flood Optic)
1400	(Wood Joist Bar Hangers)	IP-0P63WF	(50° Wide Flood Optic)
rimless Mud	•	Notes: 1. BS05 Not Ava	liable With ( <b>DIM</b> ) Phase

GD4R-MR6 (Round Trimless Mud Ring)

Dimming

2. Available in 120V only

4. Consult factory for lead times 5. Trimless ontions are for use with mud 3. EM20 Not Available with BS05 & BS01 ring accessory only

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-DMXR

# GD4DR / IRD402

4" Gravity BIOS Lensed Downlight - Wet Location



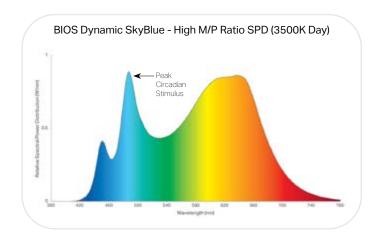
JOB NAME	CATALOG NUMBER	
NOTES	TYPE	

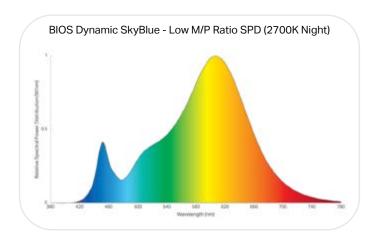
## 0-10V Dimming Electrical Table: System Wattage

Lumen Package	Voltage	Wattage	VA	Input Current	Power Factor
BS05	120V	9.35W	10.18	0.08	0.918
0903	277V	10.47W	14.50	0.05	0.722
DC1	120V	17.05W	17.38	0.14	0.981
BS1	277V	18.45W	21.51	0.08	0.858
BS2	120V	26.61W	26.95	0.22	0.987
D97	277V	27.90W	31.25	0.11	0.893
DCO	120V	33.84W	34.11	0.28	0.992
BS3	277V	35.12W	38.89	0.14	0.903

## Phase Dimming Electrical Table: System Wattage

Lume	en Package	Voltage	Wattage	VA	Input Current	Power Factor
	DC1	120V	16.60W	17.07	0.14	0.972
	BS1	277V	-	-		
	BS2	120V	26.00W	26.42	0.22	0.984
		277V	-	-		
	BS3	120V	33.16W	33.16	0.28	1.000
		277V	-	-		





# Gravity™



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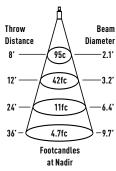
# GD4DRL1 IRD402HZ

Report #: ILL20181221-5.001 ILL20181213-2.001 ILL20181213-5.001 ILL20181213-8.001 ILL20181213-11.001

## **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)

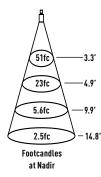
## -NS (14° Narrow Spot)



Watts: 10	<b>LPW:</b> 79.4
Lumens: 794	CCT: 3000K

Luminance					
Degree	CBCP				
0°	6053				
5°	4582				
15°	737				
25°	384				
35°	43				
45°	21				
	1				

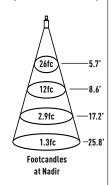
## -SP (20° Spot)



Watts: 10	LPW: 84.4
Lumens: 844	CCT: 3000K

Luminance	
Degree	CBCP
0°	3233
5°	2871
15°	1090
25°	441
35°	72
45°	30
	l

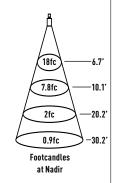
-NF (30° Narrow Flood)



Watts: 10 LPW: 84.1 Lumens: 841 CCT: 3000K

Luminance	
Degree	CBCP
0°	1677
5°	1569
15°	1065
25°	585
35°	137
45°	40

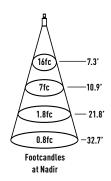
-FL (40° Flood)



Watts: 10 LPW: 74.6 Lumens: 746 CCT: 3000K

Luminance	
Degree	СВСР
0°	1128
5°	1087
15°	834
25°	476
35°	181
45°	67

-WF (50° Wide Flood)



Watts: 10	LPW: 75.2
Lumens: 752	CCT: 3000K

Luminance	
Degree	CBCP
0°	1022
5°	997
15°	813
25°	491
35°	196
45°	71

# GD4DRL2 IRD402HZ

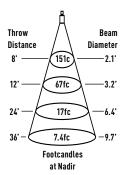
Report #: ILL20181221-5.002 ILL20181213-2.002 ILL20181213-5.002 ILL20181213-8.002

## 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)

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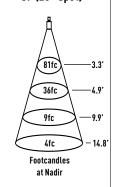
## -NS (14° Narrow Spot)



Watts: 14	<b>LPW:</b> 90.5
Lumens: 1267	CCT: 3000K

Luminance	
Degree CBCP	
0°	9652
5°	7307
15°	1175
25°	612
35°	69
45°	33

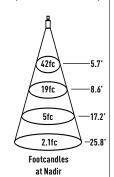
-SP (20° Spot)



Watts: 14	LPW: 96.2
Lumens: 1346	CCT: 3000

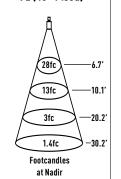
Luminance	
Degree	CBCP
0°	5156
5°	4578
15°	1738
25°	703
35°	115
45°	48
	1

-NF (30° Narrow Flood)



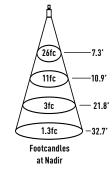
Luminance	
Degree	CBCP
0°	2674
5°	2502
15°	1698
25°	933
35°	218
45°	64

-FL (40° Flood)



Luminance		
Degree	СВСР	
0°	1798	
5°	1734	
15°	1330	
25°	759	
35°	289	
45°	106t	

-WF (50° Wide Flood)



Watts: 14	LPW: 85.6
umens: 1199	CCT: 3000K

Luminance		
Degree	CBCP	
0°	1630	
5°	1589	
15°	1296	
25°	782	
35°	313	
45°	113	