

GD4DR / IRD400

4" Gravity BIOS 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. 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

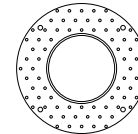
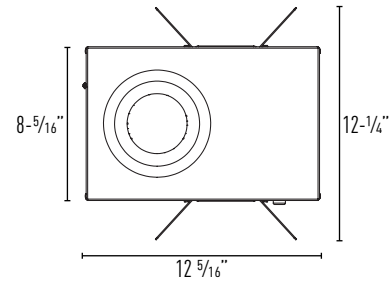
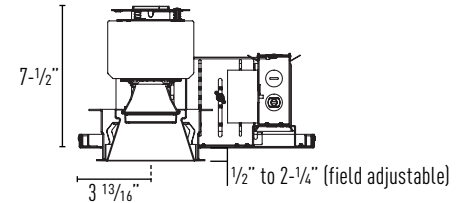
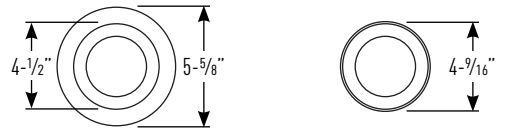
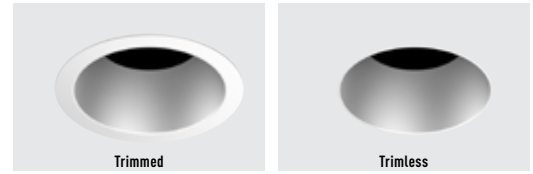
Remote test switch included. External battery operates LED load of up to 7W at a minimum of 450 lumens for 90 minutes (EM7), or 20W at a minimum of 1250 lumens for 90 minutes (EM20).

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.



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 / CRI	Dimming	Voltage	Optic	Options
GD4DR	BS05 ¹ (10W)	30 (3000K / 80 CRI)	-DIM ² (Phase Dimming)	blank (120V)	-SP (20° Spot)	EM7 (7W Emergency Backup (IOTA ILB-CP07-A))
	BS1 (18W)	35 (3500K / 80 CRI)	-D101 (0-10V Dimming 1%)	27 (277V)	-NF (30° Narrow Flood)	EM20 ³ (20W Emergency Backup (IOTA ILB-CP20-HE-S))
	BS2 (27W)	40 (4000K / 80 CRI)	-ED10V1 (eldoLED 0-10V 1%)		-FL (40° Flood)	
	BS3 (34W)		-ED10V01 (eldoLED 0-10V 0.1%)		-WF (50° Wide Flood)	
			-LUT (Lutron® LDE1 EcoSystem 1%)			
			-LUT2 ² (Lutron® LTEA2W 2-Wire 1%)			
			-DMXR (DMX512 RDM 0.1%)			

Reflector Part Number: (Example: IRD400HZ-SF)

Reflector	Reflector Finish	Trim
IRD400	HZ (Haze)	-SF (Self Flanged)
	W (White)	-SFW (Self Flanged White)
	C (Clear)	blank ⁵ (Trimless, for use with mud ring only)
	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 optics are for use with mud ring accessory only

Trimless Mud Ring⁵

GD4R-MR ⁵	(Round Trimless Mud Ring)
----------------------	---------------------------

GRAVITY L/M0119.22 P-1

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.

© 2022 Intense Lighting, LLC. All rights reserved. Note: This document is subject to change without notice.



GD4DR / IRD400

4" Gravity BIOS Downlight



JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

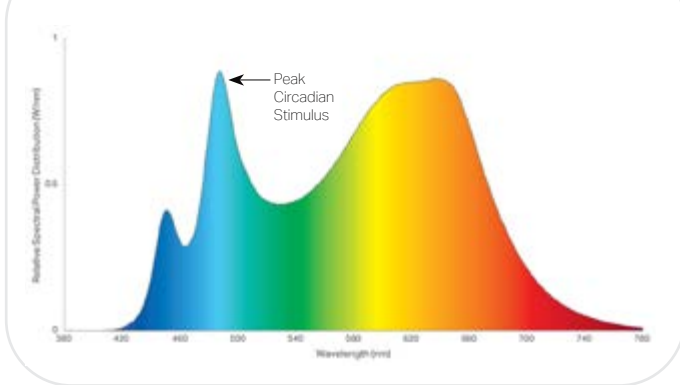
0-10V Dimming Electrical Table: System Wattage

Lumen Package	Voltage	Wattage	VA	Input Current	Power Factor
BS05	120V	9.35W	10.18	0.08	0.918
	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

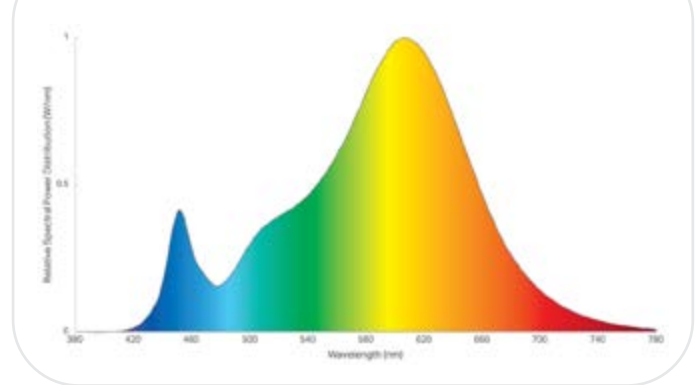
Phase Dimming Electrical Table: System Wattage

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)



JOB NAME		CATALOG NUMBER	
NOTES		TYPE	

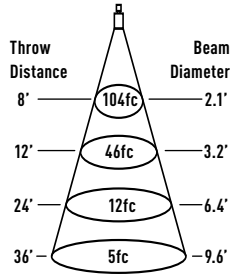
GD4DRL1 IRD400HZ

Report #: ILL20181221-2.001
ILL20181212-2.001
ILL20181212-5.001
ILL20181212-8.002
ILL20181212-11.001

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)

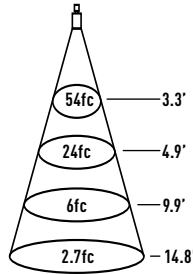


Footcandles at Nadir

Watts: 10 LPW: 83.4
Lumens: 834 CCT: 3000K

Luminance	
Degree	CBCP
0°	6635
5°	4992
15°	770
25°	394
35°	40
45°	20

-SP (20° Spot)

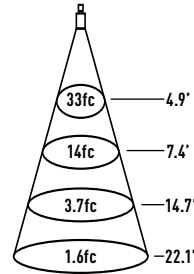


Footcandles at Nadir

Watts: 10 LPW: 88.4
Lumens: 884 CCT: 3000K

Luminance	
Degree	CBCP
0°	3461
5°	3073
15°	1156
25°	454
35°	70
45°	30

-NF (30° Narrow Flood)

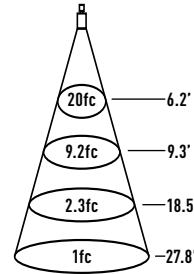


Footcandles at Nadir

Watts: 10 LPW: 87.9
Lumens: 879 CCT: 3000K

Luminance	
Degree	CBCP
0°	2128
5°	1984
15°	1227
25°	552
35°	102
45°	33

-FL (40° Flood)

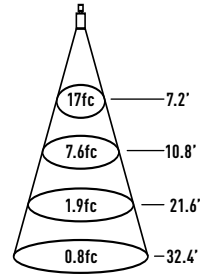


Footcandles at Nadir

Watts: 10 LPW: 78.4
Lumens: 784 CCT: 3000K

Luminance	
Degree	CBCP
0°	1328
5°	1269
15°	923
25°	488
35°	172
45°	62

-WF (50° Wide Flood)



Footcandles at Nadir

Watts: 10 LPW: 78.9
Lumens: 789 CCT: 3000K

Luminance	
Degree	CBCP
0°	1097
5°	1069
15°	869
25°	516
35°	201
45°	71

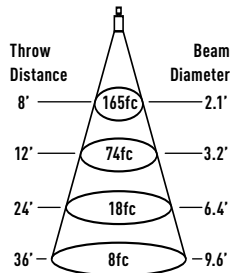
GD4DRL2 IRD400HZ

Report #: ILL20181221-2.002
ILL20181212-2.002
ILL20181212-5.002
ILL20181212-8.002
ILL20181212-11.002

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)

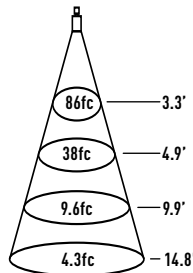


Footcandles at Nadir

Watts: 14 LPW: 95
Lumens: 1330 CCT: 3000K

Luminance	
Degree	CBCP
0°	10579
5°	7960
15°	1228
25°	629
35°	63
45°	31

-SP (20° Spot)

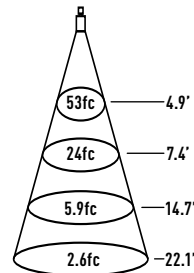


Footcandles at Nadir

Watts: 14 LPW: 100.7
Lumens: 1410 CCT: 3000K

Luminance	
Degree	CBCP
0°	5518
5°	4901
15°	1843
25°	724
35°	111
45°	47

-NF (30° Narrow Flood)

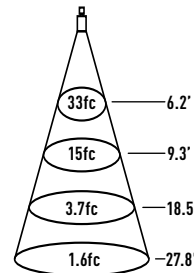


Footcandles at Nadir

Watts: 14 LPW: 100.7
Lumens: 1402 CCT: 3000K

Luminance	
Degree	CBCP
0°	3394
5°	3163
15°	1956
25°	881
35°	163
45°	53

-FL (40° Flood)

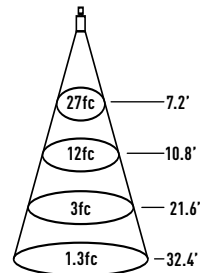


Footcandles at Nadir

Watts: 14 LPW: 89.3
Lumens: 1250 CCT: 3000K

Luminance	
Degree	CBCP
0°	2117
5°	2024
15°	1472
25°	779
35°	274
45°	100

-WF (50° Wide Flood)



Footcandles at Nadir

Watts: 14 LPW: 89.8
Lumens: 1258 CCT: 3000K

Luminance	
Degree	CBCP
0°	1749
5°	1705
15°	1386
25°	822
35°	320
45°	113