JUNO

2" IC 600 AND 1000 LUMENS LED ROUND DOWNLIGHT BAFFLE

2LEDTRIM G2 DB

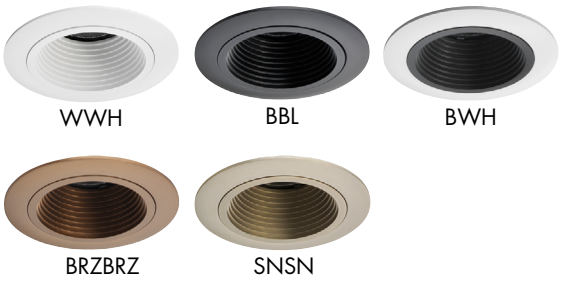
Project:

Fixture Type:

Location:

Contact/Phone:

Downlight Baffle Finishes



PRODUCT DESCRIPTION

2 inch aperture recessed downlight is IC rated for insulated or non-insulated applications • Luminaire produces up to 1000 lumens and is available with optical distributions approximating that of 75W MR16 halogen lamps • Low profile form factor allows luminaire to fit in 2 x 6 construction • Designed to provide 50,000 hours of life • 5 year limited warranty on LED Components.

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury, RoHS compliant
- Comparable light output up to a 75W MR16 halogen lamp

PRODUCT SPECIFICATIONS

LED Light Engine Exceptional fixture to fixture color consistency within a 3-step MacAdam ellipse • 2700K, 3000K, 3500K, and 4000K color temperatures are available with 80 CRI or 90 CRI minimum.

Modular Optics Available with field interchangeable optics in 18° Spot, 24° Narrow Flood, or 40° Flood distributions.

Aesthetic Trim Trim features die cast beveled knife edge trim ring for clean ceiling interface available in white, black, satin nickel, or brushed bronze • Die cast baffles are available in white, black, satin nickel, or brushed bronze

LED Driver Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 • Dedicated 120 volt driver (120) is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage dimmers • Universal voltage driver (MVOLT) is dimmable with the use of most 0-10V protocol dimmers • For a list of compatible dimmers, see JUNO2ING2-DIM.

Life Rated for 50,000 hours at 70% lumen maintenance.

Labels ENERGY STAR® Certified • 90CRI fixtures are certified to the high efficacy requirements of California T24 JA8-2016 • Meets energy code Air Leakage requirements per ASTM E283 • UL and cUL listed for wet locations • 2NCHSG option is compatible with spray foam insulation with an R-value of 3.2 per inch or less.

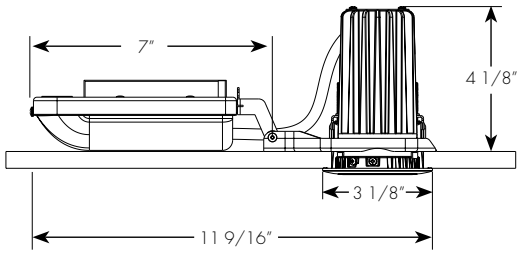
Junction Box Includes (2) ½" knock-outs equipped with pryout slots • Push-in electrical connectors for field connections.

Mounting Remodel style plaster frame installs from below the ceiling and accommodates ceiling thicknesses from ½" to 1" • For thicker ceilings up to 1 ½", order 2JCTA150 • New Construction mounting frame, 2NCMF, is also available with Patented (US Patent D552,969) Real Nail 3® telescoping bar hangers to position fixture and locate wiring prior to ceiling installation • Recommend a minimum of 5.5" cavity depth to install properly • Flexible supply is recommended and non-flexible supply requires top access.

Real Nail 3 Bar Hangers 2NCHSG new construction housing and new construction mounting frame, 2NCMF, available with telescoping Real Nail® 3 system which permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings • Design covered under US Patent D552,969 • 2NCHSG requires 2x8 construction

Specifications subject to change without notice.

DIMENSIONS



2 5/8" CEILING CUTOUT
2" APERTURE

ELECTRICAL DATA (600L)

	Dedicated 120V (120)	Universal Voltage (MVOLT)	
Voltage	120	120	277
Input Power	7.5 (±5%)	7.2	7.5 (±5%)
Input Current	.06	.06	.03
Frequency	50/60Hz	50/60Hz	
Power Factor	>0.9	>0.9	>0.9

ELECTRICAL DATA (1000L)

	Dedicated 120V (120)	Universal Voltage (MVOLT)	
Voltage	120	120	277
Input Power	11.5 (±5%)	10.9	11.4 (±5%)
Input Current	.10	.09	.04
Frequency	50/60Hz	50/60Hz	
Power Factor	>0.9	>0.9	>0.9

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2LEDTRIM G2 DB

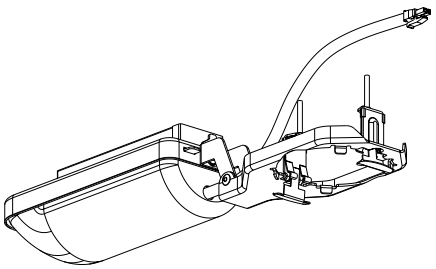
ORDERING INFORMATION DRIVER AND TRIM EACH ORDERED SEPARATELY.

DRIVER:

Example: 2LEDDRIVER G2 06LM 120 FRPC

Series		Generation		Lumens		Voltage		Driver	
2LEDDRIVER	Juno Recessed 2″ Driver	**G2**	Generation 2	**06LM**	600 Nominal Lumens	**120**	120V	**FRPC**	Forward/Reverse Phase Cut
				10LM	1000 Nominal Lumens	**MVOLT**	Multi-Volt (120-277V)	**ZT**	0-10V Dimming

Note: 120V must be ordered with FRPC.
MVOLT must be ordered with ZT



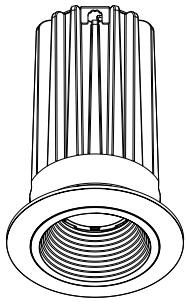
MOUNTING FRAME/DRIVER ASSEMBLY

Note: Driver assembly only intended for use with Gen2 LED trim modules. Not backward compatible with previous generation.

TRIM:

Example: 2LEDTRIM G2 DB 27K 80CRI FL BBL

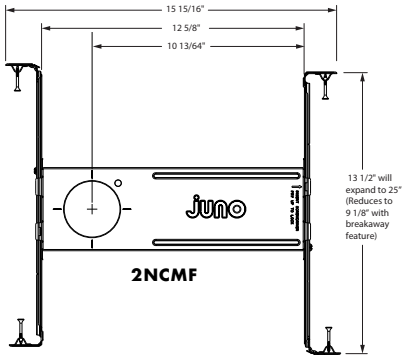
Series		Generation		Trim Designation		Color Temperature		CRI		Distribution		Trim Finish	
2LEDTRIM	Juno Recessed 2″ LED Trim	**G2**	Generation 2	**DB**	Downlight Baffle Trim	**27K**	2700K	**80CRI**	80+ CRI	**FL**	Flood	**BBL**	Black Baffle, Black Trim Ring
						30K	3000K	**90CRI**	90+ CRI	**NFL**	Narrow Flood	**BWH**	Black Baffle, White Trim Ring
						35K	3500K			**SP**	Spot	**BRZBRZ**	Bronze Baffle, Bronze Trim Ring
						40K	4000K					**SNSN**	Satin Nickel Baffle, Satin Nickel Trim Ring
												WWH	White Baffle, White Trim Ring



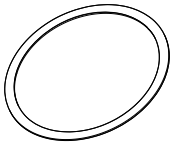
TRIM/LED ASSEMBLY

ACCESSORIES

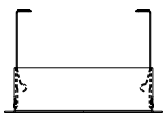
Catalog No.	Description
2NCMF	New Construction Mounting Frame with Real Nail® 3 bar hangers
2NCHSG	2″ New Construction Housing for spray foam installation
2DTCA	2″ LED Drop Tile Ceiling Adapter
2JCTA150	Thick Ceiling adapter for 1″ - 1½″ thick ceiling
LEDOPTIC2 SP	18° Spot Optic
LEDOPTIC2 NFL	24° Narrow Flood Optic
LEDOPTIC2 FL	40° Flood Optic



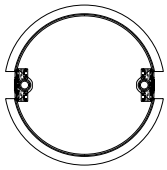
2NCMF

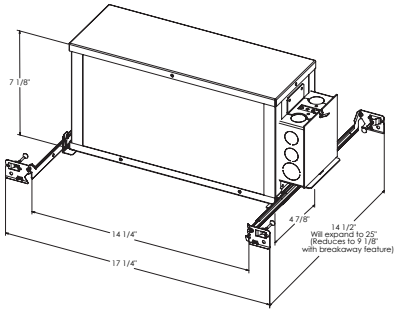


2DTCA



2JCTA150





2NCHSG

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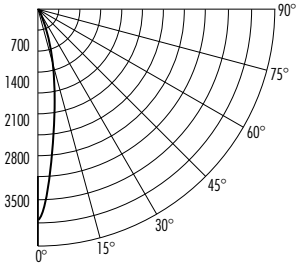
2" IC 600 AND 1000 LUMENS LED ROUND DOWNLIGHT BAFFLE

2LEDTRIM G2 DB

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report#: PT07161801
Catalog No: 2LEDTRIM G2 DB 35K 80CRI SP WWH (600L), White Baffle with Spot Optic
Luminaire Spacing Criteria: 0.34
Luminaire LPW: 93



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3492
5	2934
15	926
25	286
35	45
45	16
55	12
65	8
75	4
85	1
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	49	44	41
5'	31	28	26
6'	22	20	18
7'	18	16	15
8'	14	13	12
9'	11	10	9
10'	8	7	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	629	N/A	89.9
0-40°	662	N/A	94.6
0-60°	686	N/A	98.2
0-90°	699	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 18.9° Beam)

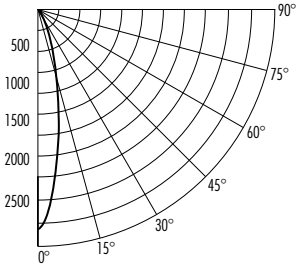
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	218.3	1.3
6'	97.0	2.0
8'	54.6	2.7
10'	34.9	3.3
12'	24.3	4.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	10385
55°	9995
65°	8744
75°	6956
85°	3805

PHOTOMETRIC REPORT

Test Report#: PT07161805
Catalog No: 2LEDTRIM G2 DB 35K 80CRI NFL WWH (600L), White Baffle with Narrow Flood Optic
Luminaire Spacing Criteria: 0.42
Luminaire LPW: 89



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2532
5	2228
15	926
25	308
35	48
45	17
55	13
65	8
75	4
85	1
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	46	42	38
5'	30	27	24
6'	21	18	17
7'	17	15	14
8'	13	12	11
9'	10	9	8
10'	7	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	591	N/A	89.0
0-40°	627	N/A	94.4
0-60°	652	N/A	98.1
0-90°	664	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 24.4° Beam)

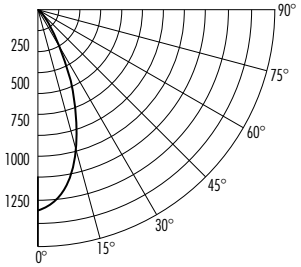
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	158.3	1.7
6'	70.3	2.6
8'	39.6	3.5
10'	25.3	4.3
12'	17.6	5.2

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	11256
55°	10325
65°	8744
75°	6773
85°	2718

PHOTOMETRIC REPORT

Test Report#: PT07161809
Catalog No: 2LEDTRIM G2 DB 35K 80CRI FL WWH (600L), White Baffle with Flood Optic
Luminaire Spacing Criteria: 0.72
Luminaire LPW: 94



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1187
5	1141
15	879
25	492
35	135
45	27
55	11
65	8
75	4
85	1
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	49	43	38
5'	31	27	24
6'	22	19	17
7'	18	15	14
8'	14	12	11
9'	11	9	8
10'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	568	N/A	80.9
0-40°	656	N/A	93.3
0-60°	689	N/A	98.0
0-90°	703	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 44.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	74.2	3.3
6'	33.0	5.0
8'	18.5	6.6
10'	11.9	8.3
12'	8.2	9.9

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	18024
55°	9169
65°	9193
75°	8054
85°	4349

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

Multiplier:	80CRI	90CRI
	27K = .94	27K = .83
	30K = .97	30K = .86
	35K = 1.00	35K = .88
	40K = 1.03	40K = .90

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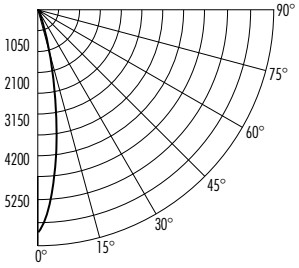
2" IC 600 AND 1000 LUMENS LED ROUND DOWNLIGHT BAFFLE
2LEDTRIM G2 DB

PHOTOMETRICS

PHOTOMETRIC REPORT
Test Report#: PT07161913
Catalog No: 2LEDTRIM G2 DB 35K 80CRI SP WWH (1000L), White Baffle with Spot Optic
Luminaire Spacing Criteria: 0.32
Luminaire LPW: 92



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	5297
5	4423
15	1390
25	434
35	69
45	25
55	19
65	13
75	6
85	1
90	0

AVERAGE INITIAL FOOTCANDLES
Multiple Units (Square Array, 60'x60' room)
Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	74	67	61
5'	47	43	39
6'	33	30	27
7'	27	24	22
8'	21	19	17
9'	16	15	13
10'	12	11	10

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	945	N/A	89.5
0-40°	996	N/A	94.3
0-60°	1035	N/A	98.0
0-90°	1056	N/A	100.0

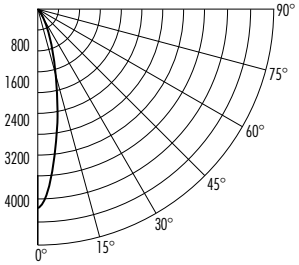
INITIAL FOOTCANDLES
(One Unit, 11.5W, 18.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	331.1	1.3
6'	147.1	2.0
8'	82.8	2.6
10'	53.0	3.3
12'	36.8	3.9

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	16550
55°	15859
65°	14013
75°	11532
85°	7610

PHOTOMETRIC REPORT
Test Report#: PT07161917
Catalog No: 2LEDTRIM G2 DB 35K 80CRI NFL WWH (1000L), White Baffle with Narrow Flood Optic
Luminaire Spacing Criteria: 0.42
Luminaire LPW: 88



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3827
5	3375
15	1423
25	469
35	73
45	25
55	19
65	12
75	6
85	1
90	0

AVERAGE INITIAL FOOTCANDLES
Multiple Units (Square Array, 60'x60' room)
Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	71	63	58
5'	45	40	37
6'	31	28	26
7'	25	23	21
8'	20	18	17
9'	15	14	13
10'	11	10	9

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	902	N/A	89.2
0-40°	955	N/A	94.4
0-60°	992	N/A	98.1
0-90°	1011	N/A	100.0

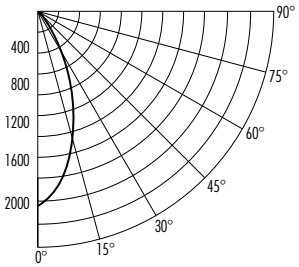
INITIAL FOOTCANDLES
(One Unit, 11.5W, 24.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	239.1	1.7
6'	106.3	2.6
8'	59.8	3.5
10'	38.3	4.4
12'	26.6	5.2

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	16818
55°	15281
65°	13228
75°	10617
85°	6523

PHOTOMETRIC REPORT
Test Report#: PT07161921
Catalog No: 2LEDTRIM G2 DB 35K 80CRI FL WWH (1000L), White Baffle with Flood Optic
Luminaire Spacing Criteria: 0.72
Luminaire LPW: 94



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1822
5	1752
15	1351
25	757
35	208
45	42
55	17
65	13
75	7
85	2
90	0

AVERAGE INITIAL FOOTCANDLES
Multiple Units (Square Array, 60'x60' room)
Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	75	66	58
5'	48	42	37
6'	33	29	26
7'	27	24	21
8'	21	19	17
9'	16	14	13
10'	12	10	9

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	873	N/A	80.7
0-40°	1008	N/A	93.2
0-60°	1059	N/A	97.9
0-90°	1082	N/A	100.0

INITIAL FOOTCANDLES
(One Unit, 11.5W, 45° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	113.9	3.3
6'	50.6	5.0
8'	28.5	6.6
10'	18.2	8.3
12'	12.7	9.9

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	28007
55°	14373
65°	14686
75°	13180
85°	9785

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

Multiplier:	80CRI	90CRI
	27K = .94	27K = .83
	30K = .97	30K = .86
	35K = 1.00	35K = .88
	40K = 1.03	40K = .90

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