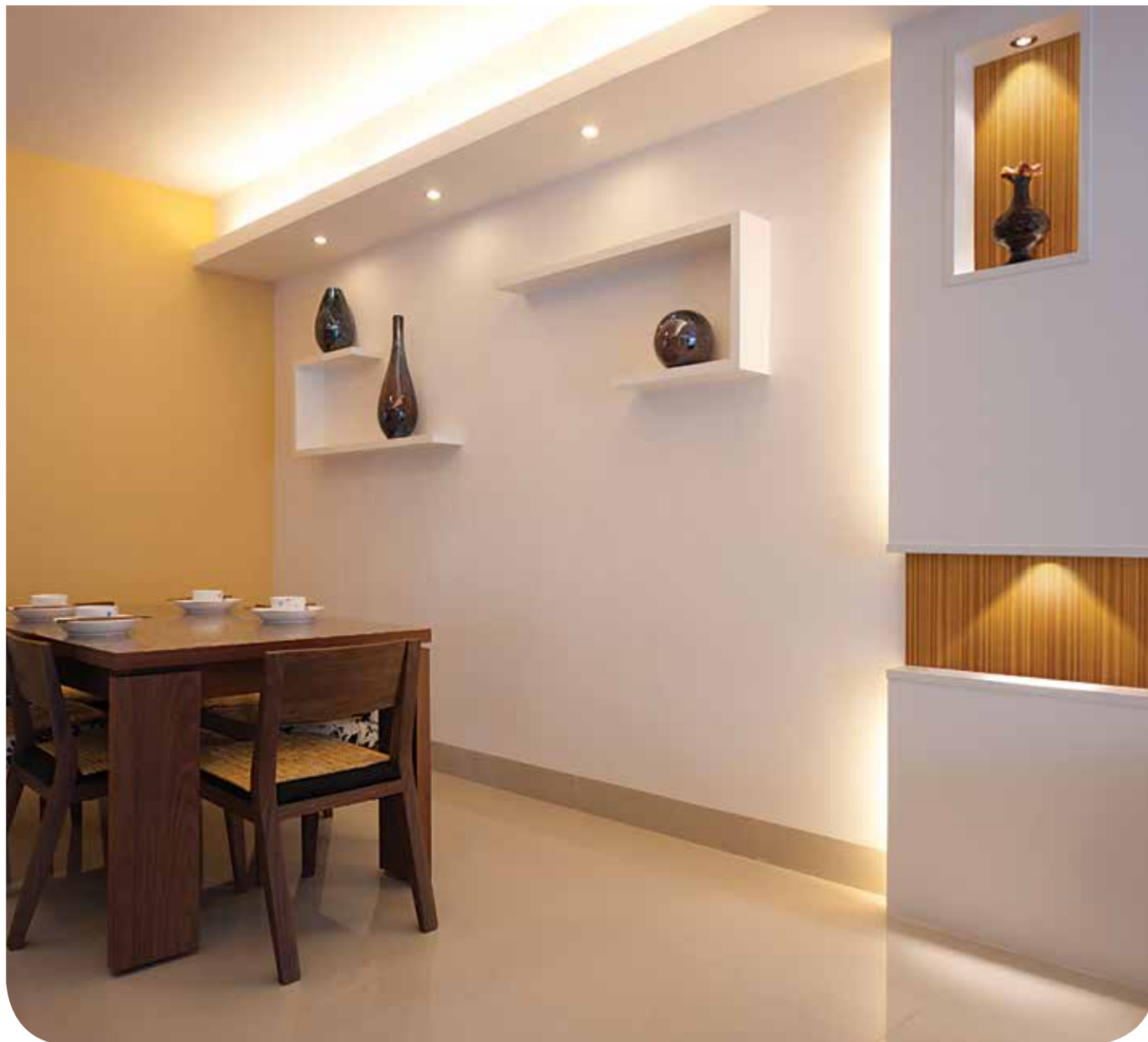


Juno Mini LED Downlights and Gimbals

Next generation illumination for small spaces



Juno Mini LED Downlights accentuate the finish and mitering details on the cabinet faces while providing useful task lighting on the front edge of the counter...all from an inconspicuous, delicately scaled 1" aperture that consumes less than 5-watts.



Next Generation Juno Mini LED Downlights and Gimbals

Energy-efficient fixtures with higher lumens for limited-space applications.

Juno Mini LED Downlights and Gimbals open-up a multitude of task and accent lighting possibilities, especially when installation space is at a premium. These second generation recessed Mini LEDs still require only 5-watt input but now feature 50% higher lumens to produce brilliant white light, exceeding the performance of a conventional 20-watt, MR11 light source.

The new IC-Rated Mini LED Downlights and Gimbals can squeeze into the tightest of places—whether indoor, outdoor or wet locations—providing the desired “look” with just the right amount of light. They are perfect for niches, bookcases, soffits, displays, elevators or any tight space.



Next Generation Juno Mini LED...

A. Ultra-Compact Design. Able to fit in the palm of your hand, these versatile, miniature fixtures easily integrate into the smallest of spaces. From kitchen soffits to cabinetry and architectural niches... even a wet location version that is perfect for outdoor applications such as under eaves.

B. Super-efficient LED Light engine. The latest generation of high performance LEDs produce over 300 lumens in 2700K, 3000K, 3500K or 4100K; exceeding the performance of 20W halogen MR11 lamps while consuming less than 5-watts of power. 80+CRI color rendering out of an inconspicuous 1" aperture with a 50,000 L70 service life... truly remarkable!

C. Versatile Optics. Precision injection molded spot, narrow flood and flood optics provide maximum versatility for task, accent and even ambient/circulation lighting in low ambient lighting applications such as home theatres.

D. Familiar, easily dimmable 12V AC operation. An onboard 12-volt LED driver allows the mini-downlight and gimbal to be operated off of Class 2 Juno 12-volt electronic or magnetic transformers, eliminating concerns over voltage drop while providing reliable, fool proof dimming using commercially available low voltage style halogen dimmers.

E. Easy installation. Fixtures and the TL602E transformer install from below the ceiling through miniature holes that can be cut using standard 2" or 2-3/8" hole saws. Fixtures grip securely in place on material thicknesses from 1/8" to 1" using easy to use "mouse-trap" springs. And both the fixtures and the TL602E transformer are rated for direct contact with insulation.

F. Simplified daisy-chain wiring. Unlike most low voltage systems which require a home run back to the transformer from each fixture, Juno Mini-Downlights and Gimbals have an integral 4-port terminal block that facilitates fixture to fixture wiring using commonly available type CL2 or NEC equivalent 18-12 AWG wire.



Mini LED Downlight



The Mini LED recessed downlight is IC rated for insulated or non-insulated applications. Direct accent lighting with low glare optic system exceeds the performance of a 20W MR11 and distribution of 20W MR11 halogen lamp. Ideal for both residential and commercial applications. Remote mount Class 2 120V to 12V AC electronic or magnetic transformer required. Designed to provide 50,000 hours of life.

Example: MD1LG2-27K-SP-SN

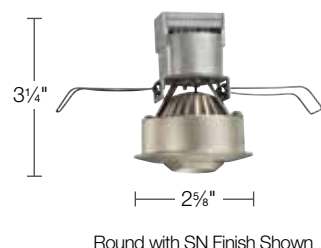
Round Cat. No.	Square Cat. No.	Color Temp.	Optic	Finish
MD1LG2	MDSL2G2	27K 2700K	SP Spot (16°)	WH White
		3K 3000K	NFL Narrow Flood (24°)	BL Black
		35K 3500K	FL Flood (35°)	SN Satin Nickel
		41K 4100K		BZ Bronze

Outdoor/wet location models

MD1LWG2	MDSLWG2
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Mini LED Gimbal



The Mini LED recessed gimbal is IC rated for insulated or non-insulated applications. Provides 30° aimable accent lighting with performance that exceeds a 20W MR11 halogen lamp. Ideal for both residential and commercial limited space applications. Remote mount Class 2 120V to 12V AC electronic or magnetic transformer required. Designed to provide 50,000 hours of life.

Example: MG1LG2-27K-SP-SN

Round Cat. No.	Square Cat. No.	Color Temp.	Optic	Finish
MG1LG2	MGSLG2	27K 2700K	SP Spot (16°)	WH White
		3K 3000K	NFL Narrow Flood (24°)	BL Black
		35K 3500K	FL Flood (35°)	SN Satin Nickel
		41K 4100K		BZ Bronze

Finishes

WH White



BL Black



SN Satin Nickel



BZ Bronze



Transformers

Catalog No.	Finish	Description
TL602E-10-WH	White	10W 12V AC Electronic Transformer
TL602E-25-WH	White	25W 12V AC Electronic Transformer
TL602E-60-WH	White	60W 12V AC Electronic Transformer
TL576-10-BL	Black	10W 12V AC Magnetic Transformer
TL576-25-BL	Black	25W 12V AC Magnetic Transformer
TL576-60-BL	Black	60W 12V AC Magnetic Transformer

Suffix No.	Description
-CP6	6 ft. Cord & Plug, factory installed (Add as suffix to catalog number)

Example: TL602E-10-WH-CP6



Mini LED Downlight Photometric Information

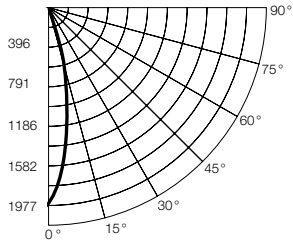
Photometric Report

Test Report #: PT10130702R

Catalog No: MD1LG2-35K-SP-WH

Luminaire Spacing Criterion: 0.34

Luminaire LPW: 64



Candlepower Distribution

(Candelas)

Degrees Vertical	0°
0	1977
5	1648
15	421
25	80
35	17
45	6
55	3
65	1
75	1
85	0
90	0
Multiplier: 27K - 0.92	
3K - 0.96	
41K - 1.06	

Average Initial Footcandles

Multiple Units (Square Array, 60' x 60' room)

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR4	RCR8
4'	23	21	19
5'	14	13	12
6'	10	9	9
7'	8	7	7
8'	6	6	5
9'	5	4	4
10'	4	3	3

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0 - 30°	297	N/A	93.3
0 - 40°	309	N/A	96.9
0 - 60°	316	N/A	99.2
0 - 90°	319	N/A	100.0

Initial Footcandles

One Unit, 5W, 19.4° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	123.6	1.4'
6	54.9	2.1'
8	30.9	2.7'
10	19.8	3.4'

Luminance (Average cd/m²)

Degrees	Average 0° Luminance
45	12095
55	6710
65	4720
75	4407
85	1634

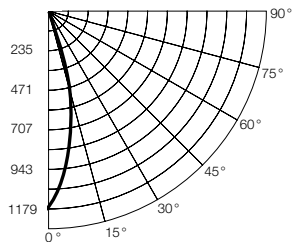
Photometric Report

Test Report #: PT10130703R

Catalog No: MD1LG2-35K-NFL-WH

Luminaire Spacing Criterion: 0.42

Luminaire LPW: 61



Candlepower Distribution

(Candelas)

Degrees Vertical	0°
0	1179
5	1044
15	436
25	122
35	30
45	9
55	3
65	2
75	1
85	0
90	0
Multiplier: 27K - 0.92	
3K - 0.96	
41K - 1.06	

Average Initial Footcandles

Multiple Units (Square Array, 60' x 60' room)

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR4	RCR8
4'	21	19	17
5'	14	12	11
6'	9	9	8
7'	8	7	6
8'	6	5	5
9'	5	4	4
10'	3	3	3

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0 - 30°	270	N/A	88.9
0 - 40°	290	N/A	95.5
0 - 60°	300	N/A	98.9
0 - 90°	304	N/A	100.0

Initial Footcandles

One Unit, 5W, 24.6° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	73.7	1.7'
6	32.8	2.6'
8	18.4	3.5'
10	11.8	4.4'

Luminance (Average cd/m²)

Degrees	Average 0° Luminance
45	17336
55	7952
65	6071
75	5507
85	3268

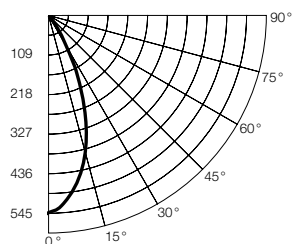
Photometric Report

Test Report #: PT10130704R

Catalog No: MD1LG2-35K-FL-WH

Luminaire Spacing Criterion: 0.64

Luminaire LPW: 55



Candlepower Distribution

(Candelas)

Degrees Vertical	0°
0	545
5	527
15	366
25	158
35	44
45	14
55	6
65	3
75	2
85	0
90	0
Multiplier: 27K - 0.92	
3K - 0.96	
41K - 1.06	

Average Initial Footcandles

Multiple Units (Square Array, 60' x 60' room)

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR4	RCR8
4'	19	17	15
5'	12	11	10
6'	8	7	7
7'	7	6	5
8'	5	5	4
9'	4	4	3
10'	3	3	2

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0 - 30°	221	N/A	81.2
0 - 40°	251	N/A	91.9
0 - 60°	267	N/A	98.0
0 - 90°	273	N/A	100.0

Initial Footcandles

One Unit, 5W, 38.3° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	34.1	2.8'
6	15.1	4.2'
8	8.5	5.6'
10	5.5	6.9'

Luminance (Average cd/m²)

Degrees	Average 0° Luminance
45	26205
55	13917
65	10455
75	9364
85	4902

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit at 12VAC in a 25°C ambient represents a baseline of performance for the fixture. Results may vary in the field and when multiple fixtures are used in a system.

Mini LED Gimbal Photometric Information

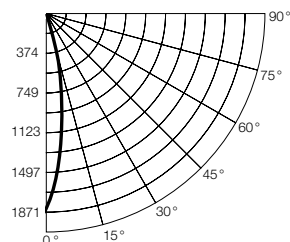
Photometric Report

Test Report #: PT10130802R

Catalog No: MG1LG2-35K-SP-WH

Luminaire Spacing Criterion: 0.34

Luminaire LPW: 62



Candlepower Distribution

(Candelas)

Degrees Vertical	0°
0	1871
5	1575
15	406
25	73
35	17
45	9
55	6
65	3
75	1
85	0
90	0

Multiplier: 27K - 0.92
3K - 0.96
41K - 1.06

Average Initial Footcandles

Multiple Units (Square Array, 60' x 60' room)

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR4	RCR8
4'	22	20	19
5'	14	13	12
6'	10	9	8
7'	8	7	7
8'	6	6	5
9'	5	4	4
10'	4	3	3

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0 - 30°	284	N/A	91.0
0 - 40°	296	N/A	94.8
0 - 60°	308	N/A	98.7
0 - 90°	312	N/A	100.0

Initial Footcandles

One Unit, 5W, 19.6° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	116.9	1.4'
6	52.0	2.1'
8	29.2	2.8'
10	18.7	3.5'

Luminance (Average cd/m²)

Degrees	Average 0° Luminance
45	26773
55	21746
65	15809
75	6886
85	0

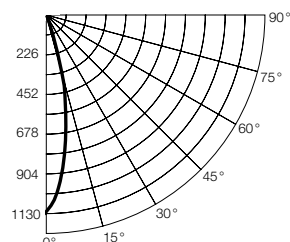
Photometric Report

Test Report #: PT10130803R

Catalog No: MG1LG2-35K-NFL-WH

Luminaire Spacing Criterion: 0.42

Luminaire LPW: 60



Candlepower Distribution

(Candelas)

Degrees Vertical	0°
0	1130
5	1002
15	419
25	114
35	32
45	13
55	7
65	4
75	1
85	0
90	0

Multiplier: 27K - 0.92
3K - 0.96
41K - 1.06

Average Initial Footcandles

Multiple Units (Square Array, 60' x 60' room)

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR4	RCR8
4'	21	19	17
5'	13	12	11
6'	9	8	8
7'	8	7	6
8'	6	5	5
9'	5	4	4
10'	3	3	3

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0 - 30°	258	N/A	85.9
0 - 40°	279	N/A	92.9
0 - 60°	296	N/A	98.5
0 - 90°	300	N/A	100.0

Initial Footcandles

One Unit, 5W, 24.7° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	70.6	1.8'
6	31.4	2.6'
8	17.7	3.5'
10	11.3	4.4'

Luminance (Average cd/m²)

Degrees	Average 0° Luminance
45	40192
55	26139
65	18001
75	7778
85	0

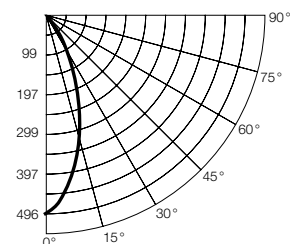
Photometric Report

Test Report #: PT10130804R

Catalog No: MG1LG2-35K-FL-WH

Luminaire Spacing Criterion: 0.62

Luminaire LPW: 52



Candlepower Distribution

(Candelas)

Degrees Vertical	0°
0	496
5	478
15	327
25	140
35	47
45	19
55	10
65	6
75	2
85	0
90	0

Multiplier: 27K - 0.92
3K - 0.96
41K - 1.06

Average Initial Footcandles

Multiple Units (Square Array, 60' x 60' room)

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR4	RCR8
4'	18	16	14
5'	12	10	9
6'	8	7	6
7'	7	6	5
8'	5	4	4
9'	4	3	3
10'	3	3	2

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0 - 30°	198	N/A	75.8
0 - 40°	229	N/A	87.6
0 - 60°	254	N/A	97.0
0 - 90°	262	N/A	100.0

Initial Footcandles

One Unit, 5W, 37.7° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	31.0	2.7'
6	13.8	4.1'
8	7.8	5.5'
10	5.0	6.8'

Luminance (Average cd/m²)

Degrees	Average 0° Luminance
45	57323
55	38441
65	31092
75	14631
85	2553

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit at 12VAC in a 25°C ambient represents a baseline of performance for the fixture. Results may vary in the field and when multiple fixtures are used in a system.

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