



MINI LED DOWNLIGHT

MD1LG2 RECESSED HOUSING AND TRIM LOW VOLTAGE

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

The Mini LED recessed downlight is IC rated for insulated or non-insulated applications • Sleek, compact form factor provides direct accent lighting with low glare optic system that approximates the light output and distribution of 20W halogen lamps • Ideal for both residential and commercial limited space applications including niches, bookshelves, displays and cabinets • Remote mount Class 2 120V to 12V AC electronic or magnetic transformer required • 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
- Comparable light output to 20W MR11 halogen lamps while consuming 5W

PRODUCT SPECIFICATIONS

LED Light Engine High performance, low power LEDs provide outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500K or 4100K color temperatures available • 80 or 90 CRI minimum.

Optical System Fixtures are offered with a choice of spot, narrow flood or flood beam patterns • LED source concealed with lensed optic is deeply regressed into an internal reflector to produce a low glare system • Reflectors finished to match trim ring color for uniform appearance • Field replacement of optical lenses is NOT recommended.

Transformer Requires remote mount Class 2, 120V to 12V AC electronic or magnetic transformer for operation • Juno [TL602E](#) electronic transformer and [TL576](#) magnetic transformer are designed specifically for use with these fixtures.

Dimming May be dimmed with dimmers tested and qualified by Juno for use with [TL602E](#) and [TL576](#) – see transformer specifications for compatible dimmers • Color temperature remains constant over dimming range • Consult factory for additional information.

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

Labels UL Listed for indoor damp locations and daisy chaining • Union made • UL and cUL listed • RoHS compliant.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

HOUSING FEATURES

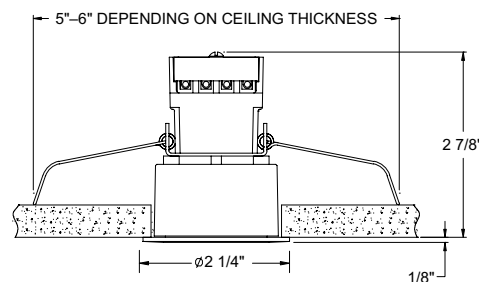
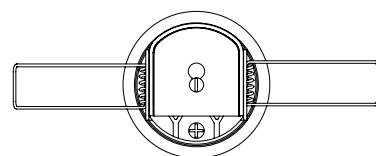
Housing Designed for use in IC (insulated ceiling) or non-IC construction • Die cast aluminum housing.

Wiring Compartment Provided with removable access plate • Four pole terminal block allows for quick, secure connection • UL /cUL listed for daisy chaining • Easy to wire with commonly available low voltage cable (Type CL2 or NEC equivalent, 18-12 AWG). Consult local codes for compliant wiring methods.

Mounting Tempered spring steel torsion clips are provided fully assembled to housing • Springs allow for fast, secure installation or removal in mounting surfaces from 1/8" to 1" thick material • 2" Cutout dimension corresponds to common hole saw size.



DIMENSIONS



2" CUTOUT

ELECTRICAL DATA

Input Voltage	12VAC
Input Power	4.8W
Input Current	0.42A
Frequency	Varies with Transformer

ORDERING INFORMATION:

Example: **MD1LG2-27K-FL-WH**

Fixture	Catalog No.		Color Temp./CRI	Optic	Finish
MD1LG2	27K	2700K-80CRI	SP	Spot	WH White
	3K	3000K-80CRI	NFL	Narrow Flood	BL Black
	35K	3500K-80CRI	FL	Flood	SN Satin Nickel
	41K	4100K-80CRI			BZ Bronze
	927	2700K-90CRI			
	930	3000K-90CRI			
	935	3500K-90CRI			
	940	4000K-90CRI			

Transformers

Catalog Number	Finish	Description
TL602E-10-WH	White	10W 12V AC Electronic Driver/Transformer
TL602E-25-WH	White	25W 12V AC Electronic Driver/Transformer
TL602E-60-WH	White	60W 12V AC Electronic Driver/Transformer
TL576-10-BL	Black	10W 12V AC Magnetic Driver/Transformer
TL576-25-BL	Black	25W 12V AC Magnetic Driver/Transformer
TL576-60-BL	Black	60W 12V AC Magnetic Driver/Transformer

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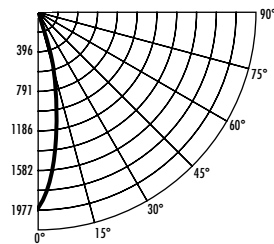
PHOTOMETRIC REPORT

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: 80CRI 90CRI
27K - 0.91 927 - 0.67
3K - 0.95 930 - 0.72
35K - 1.00 935 - 0.77
41K - 1.01 940 - 0.80

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

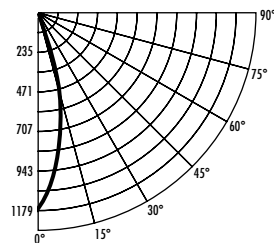
PHOTOMETRIC REPORT

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: 80CRI 90CRI
27K - 0.91 927 - 0.67
3K - 0.95 930 - 0.72
35K - 1.00 935 - 0.77
41K - 1.01 940 - 0.80

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

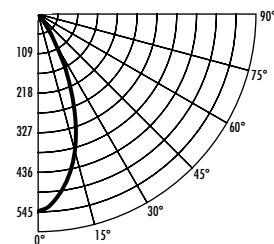
PHOTOMETRIC REPORT

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: 80CRI 90CRI
27K - 0.91 927 - 0.67
3K - 0.95 930 - 0.72
35K - 1.00 935 - 0.77
41K - 1.01 940 - 0.80

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.

