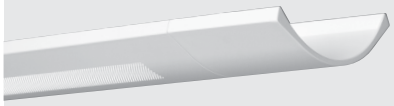
CURV LED

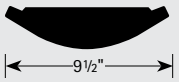
LED, Indirect, Indirect/Direct Distribution



FEATURES

- Integral LED technology
- L90 at 60,000 hours, projected over 100,000 hours
- Indirect luminaire illuminates ceilings, walls, and work surfaces
- Comfortable lighting for working environments
- Choice of three LED colors
- SpectraSync™ compatible options
- Choice of five lumen packages ranging from 3200 to 7500 nominal lumens
- Perforated housing is standard, solid or 2" square perforated housing optional
- Flat end treatment (standard), sculpted curve end (SCE) or bull nose end (BN)
- Modular mounting points for convenient hanging locations
- Patented die-cast aluminum ends and joiners for straight rows
- Controls compatible, NX Distributed Intelligence™ enabled
- DesignLights Consortium™ (DLC®) qualified with configurations qualifying for DLC® Premium
- Five year warranty (Terms and Conditions apply)
- 90° corners available; Contact factory for details
- Available with Lutron, eldoLED, and DALI compatible drivers upon request

SHAPE AND DIMENSIONS



SpectraSync™ Color Tuning Technology

NX DISTRIBUTED INTELLIGENCE

PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

CONSTRUCTION

—Integral LED technology is easily accessible from top of fixture (below ceiling plane) for ease of maintenance and modular replaceability of LED boards and drivers.

—Sturdy 20-gauge steel construction for excellent housing rigidity.

– Housing provides indirect distribution. Illumination from perforated housings approximately 94% indirect light. Solid housing emits 100% indirect light. 2" square perforated housing emits 82% indirect.

—The exact shape of the housing is maintained by the use of an inner die cast plate at each fixture end.

—The housing is designed to wrap around the end plates and secures on top with concealed screws to ensure housing tolerances are consistent. These die cast aluminum end caps and aligners provide zero tolerance alignment between fixtures, resulting in consistently straight rows with no snaking.

—Internal standard reflectors: high performance matte white painted steel.

—Downlight reflector high performance matte white painted steel.

FINISH

The housing and all painted parts are treated with a multi-stage phosphate bonding process before being finished. Parts are then finished with a white RAL powder coat finish for maximum consistent coverage and longevity.

LABELS AND ELECTRICAL

– All luminaires are built to UL 1598 and 2108 standards, and bear appropriate CSA labels.

- LCV with 2" square perforated design meets UL924

- 1% 0-10V dimming driver standard

– Please refer to DLC® website for specific product qualifications at www.designlights.org. DesignLights Consortium™ (DLC®) qualified; see www.designlights.org

MOUNTING

—Aircraft cable suspension mechanism.

—Fixed cable has a total vertical adjustment of 1¼".

End of cable barrel screws into a standard ¼-20 bolt brought down from the ceiling. A feed canopy is provided for each feed location. All fixtures are suspended in modular increments and must be supported at each fixture-housing end.

CONTROLS COMPATIBILITY

—Compatible with a wide range of integral and/or external (non-integral) controls including but not limited to switching, dimming, occupancy, vacancy and daylight harvesting. Some limitations apply. See also Sensor Options Guide. Compatibility with specific control (example, dimmer switch) is by others.

ARCHITECTURAL SENSORS INSTALLED

Architectural daylight and occupancy sensors can be installed on SCE end caps. See the Sensor Options Guide for details.

ORDERING INFORMATION

EXAMPLE: LCV-8-35ML-PERF-CM48-EDU-MW

LCV - - - - - - - -

MODEL
- LCV Curv LED

ROW LENGTH
- 4 4' Single
- 8 8' Single
- 12 12' Single
- — Indicate row length over 12' in 4' increments

Note: Rows over 12' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.

LED LUMEN PACKAGE
- VW Very Low Watt
- LW Low Watt
- ML Medium Lumen
- HL High Lumen
- VL Very High Lumen

LED COLOR
- 30 3000K
- 35 3500K
- 40 4000K
- 50 5000K
- 2750T 2700K-5000K SpectraSync™ Tunable White
- 2765T 2700K-6500K SpectraSync™ Tunable White

HOUSING TYPE
- PERF Perforated
- S Solid
- SQP 2" Square Perforated

MOUNTING METHOD
- FCM Fixed Cable Mount
- CM Adjustable Aircraft Cable Mount

ADJUSTABLE CABLE LENGTH
- 48 48"
- 96 96"

Other lengths available on request.

DRIVER
- E Fixed Output
- ED 0-10V 1% Dimming[6]

VOLTAGE
- U 120V-277V
- 347 347V

FINISH
- MW Matte White (Std.)
- MB Black
- ZT ZET Metallic Silver

See Color Selection Guide for other color selections.

OPTIONS
- DC Dust Cover[4]
- SCE Sculpted End Cap (5 5/16")[4]
- BN Bull Nose End Cap (5 1/16")[4]
- ELL10 Emergency Battery Pack Installed[1]
- ELL10ST Emergency Battery Pack, Self Testing, Installed[1]
- EMC One Emergency Circuit[2,3]
- GTD Generator Transfer Device[1]
- NLC Night Light Circuit[2,3]
- GLR Fast Blow Fuse
- TBAR T-Bar Mounting
- DS_ Integral Daylight Sensor[2,5]
- OS_ Integral Occupancy Sensor[2,5]
- NX_ NX Distributed Intelligence[2,5]
- SLC Sloped Ceiling Coupler (45° swivel from vertical)
- A/B A/B Circuitry

PRODUCT AVAILABILITY TABLE

LED LUMEN PACKAGE	NOMINAL LUMENS	NOMINAL WATTS	LUMENS/ WATT
VW	3200	27	119
LW	4200	38	111
ML	5200	47	111
HL	6200	54	115

[1] For additional, specify quantity before nomenclature (Example: 2ELL10).
[2] Not available with all configurations; some limitations apply.
[3] Additional feed drop per EMC, NLC or GTD. Contact factory for through wiring.
[4] Ships separately.
[5] See Sensor Options Guide for details on integral occupancy and daylight sensors.
[6] 5% dimming minimum when SpectraSync selected.

Protected by US Patent 6,796,676.
Protected by Canada Patent 2,450,528.
Specifications subject to change without notice.

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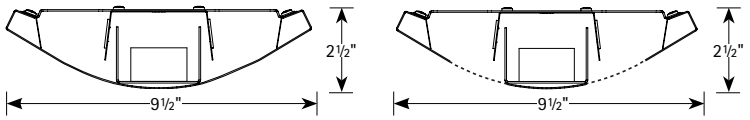
HUBBELL Lighting

CROSS SECTION



LCV Solid Housing

LCV Perforated Housing

PHOTOMETRIC DATA

LUMINAIRE DATA Test 16.02449

Luminaire	LCV-35ML-PERF LCV Curv LED, Curves 9.5" X 48" LED with perforated housing and opal overlay
Ballast	XI040C110V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	5266
Watts	43
Mounting	Pendant
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.18 90° = 1.24
Luminous Opening in Feet	Length: 3.56 Width: 0.60 Height: 0.06

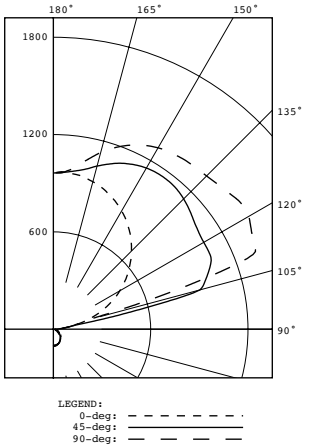
ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixt.
0-30	78	1.5
0-40	124	2.4
0-60	209	4.0
0-90	271	5.2
90-120	1633	31.0
90-130	2568	48.8
90-150	4101	77.9
90-180	4995	94.8
0-180	5266	100.0

ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens Per Watt	121.2
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$2.40 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 9/23/16

PHOTOMETRIC DATA

LUMINAIRE DATA Test 16.02450

Luminaire	LCV-35HL-PERF LCV Curv LED, Curves 9.5" X 48" LED with perforated housing and opal overlay
Ballast	XI054C150V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	6300
Watts	52
Mounting	Pendant
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.18 90° = 1.24
Luminous Opening in Feet	Length: 3.56 Width: 0.60 Height: 0.06

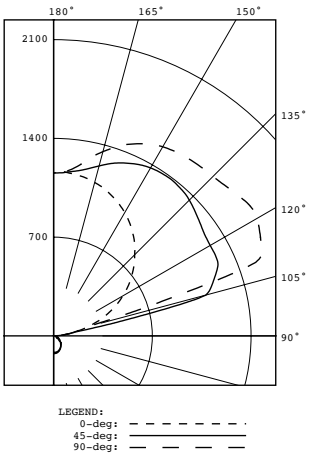
ZONAL LUMEN SUMMARY

Zone	Lumens	% Fixt.
0-30	93	1.5
0-40	148	2.4
0-60	250	4.0
0-90	324	5.1
90-120	1948	30.9
90-130	3067	48.7
90-150	4904	77.8
90-180	5975	94.9
0-180	6300	100.0

ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens Per Watt	122.5
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$2.50 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 9/23/16

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