Project Name _____   Qty _____
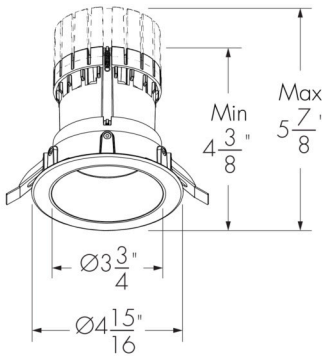
Type _____   Catalog / Part Number _____

Round trim
(Deep decorative bezel shown with 1 in in ceiling springs)
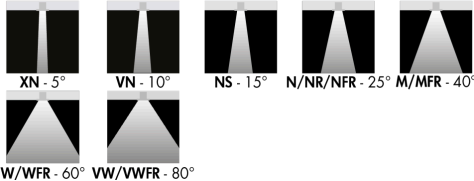Round trim ceiling cutout: Ø4.5 in

Photometric Summary
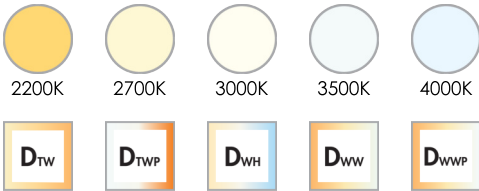
Based on Narrow Optic (nominal 25°), 4000K, CRI 90+

Nominal output [lm]	Delivered output [lm][1]	Insulated ceiling		Non-insulated ceiling	
		Power (120V) [W]	Efficacy [lm/W]	Power (120V) [W]	Efficacy [lm/W]
700	444	6.5	68	8.5	52
1000	574	8	72	10	57
1300	796	11	72	13	61
2000	1,852	18	103	20	93

1. Consult website for latest IES files.

2. Photometric performance is measured in compliance with IESNA LM-79-24.

Optics

XN - 5°   VN - 10°   NS - 15°   N/NR/NFR - 25°   M/MFR - 40°

W/WFR - 60°   VW/VWFR - 80°

Color and Color Temperature

2200K   2700K   3000K   3500K   4000K

D$_{TW}$ D$_{TWP}$ D$_{WH}$ D$_{WW}$ D$_{WWP}$

Description

The Lumencore Recessed Small Shower Rated is a high-performance LED downlight for ceiling applications in wet locations. Available in an array of trims and finishes, optics, color renderings, accessories, and with a Shower Rated IP55 Dead Front. The Lumencore Recessed Small Shower Rated possesses a previously unseen lifespan, is quick to install, and can be used with a number of different control options.

Physical

Cutout	**R:** Round
Decorative Bezel	Deep Rollover, Polycarbonate bezel for Dead Front protection
Ceiling Thickness	**1:** 0.04 in to 1 in Ceiling Thickness **2:** 1.05 in to 2 in Ceiling Thickness
Housing Material	Aluminum
Lens Seal Material	Silicone
Gasket Material	Urethane foam
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminum
Bezel Material	Polycarbonate
Weight	3.4 lbs with RM installation type, 4.75 lbs with NC installation type, 10.8 lbs with PC, IC, IC/AT and RMR installation types (Weights are approximate based on the heaviest fixture configuration) Please consult factory if exact fixture weight is needed

Color Rendering

CRI 80+   CRI 90+   CRI 95+

Controls

ON/OFF   0-10V   PRO 0-10V   PH   PRO PH

LUTRON   Caséta Wireless by LUTRON   VIVE by LUTRON   nLIGHT   DALI

PRO DALI   DALIT8   DMXrdm   lumen talk

Ceiling Cutout Shape

Ø4 1/2" [114mm]

R - Round

Decorative Bezel

DR - Deep rolled over

Standard Finishes for Decorative Bezel

MWH - Matte white   **MBK -** Matte black

Trim Shape

RD - Round

Ratings

IP55   UL Wet Location

Certifications

c(UL)us   RoHS   5 YEARS lumenpulse   ENERGY STAR

Ceiling Space Requirements (Length x Width x Height)	Up to 18 in x 18 in x 8 in with RM and NC installation types, Up to 18 in x 15 in x 9 in with PC/IC/ICAT/RMR installation types Dimensions will vary by output and color rendering, refer to Ceiling Requirements table for details

Features

Output (Nominal Lumens)	**L07:** 700 lm, **L10:** 1000 lm, **L13:** 1300 lm, **L20:** 2000 lm, **L30:** 3000 lm, **L40:** 4000 lm, **L50:** 5000 lm
Color and Color Temperature	**22K:** 2200K **27K:** 2700K **30K:** 3000K **35K:** 3500K **40K:** 4000K **DTW:** Dim to Warm **DTWP:** Dim to Warm Plus **DWH:** Dynamic White **DWW:** Dynamic Warm White **DWWP:** Dynamic Warm White Plus
Optics (Nominal Distribution)	**XN:** Extra Narrow Spot Distribution 5° **VN:** Very Narrow Spot Distribution 10° **NS:** Narrow Spot Distribution 15° **N:** Narrow Distribution 25° **NR:** Narrow Reflector 25° **NFR:** Narrow Faceted Reflector 25° **M:** Medium Reflector 40° **MFR:** Medium Faceted Reflector 40° **W:** Wide Reflector 60° **WFR:** Wide Faceted Reflector 60° **VW:** Very Wide Reflector 80° **VWFR:** Very Wide Faceted Reflector 80°
Decorative Bezel Finish	**MWH:** Matte White **MBK:** Matte Black
Installation Type	**RM:** Remodel Non-Insulated Ceiling (Non-Plenum Rated) **NC:** New Construction Non-Insulated Ceiling (Non-Plenum Rated) **PC:** Plenum Non-Insulated Ceiling (Enclosed Box) **IC:** New Construction Insulated Ceiling (Enclosed Box) **IC/AT:** New Construction Insulated Ceiling (Chicago Plenum/airtight, enclosed box) **RMR:** Remote Recessed Insulated Ceiling/Plenum (enclosed box)
Certifications	UL compliant, UL Wet Location, ENERGY STAR®, RoHS
Warranty	5-year limited warranty

Electrical and Control

Voltage	**120:** 120 Volts, **277:** 277 Volts, **347:** 347 Volts
Wattage Range	8.5W to 42W (wattage will vary based on voltage, output, color temperature, color rendering, optic, control and installation type, refer to Power Consumption table for details)

Control	**NO:** On/Off Control
	NO3: On/Off Control 347V
	DAMC: Standard 0-10V Dimming 1% Linear Curve
	DA1: Standard 0-10V Dimming 1% Linear Curve
	DA2: Standard 1-10V Dimming 1% Logarithmic Curve
	DA3: Standard 0-10V Dimming 1% Linear Curve (347V)
	PDA1: Professional 0-10V Dimming 0.1% Linear Curve
	PDA2: Professional 0-10V Dimming 0.1% Logarithmic Curve
	PH: Phase Dimming
	PPH: Phase Dimming 1%
	PHB: Pro Phase Dimming ERP PHB Series
	ES: Lutron® Hi-lume 1% EcoSystem® LDE1/PEQ1 Soft-on/Fade-to-Black
	ESP: Lutron® Hi-lume Premier 0.1% EcoSystem® PEQ0 Soft-on/Fade-to-Black
	CA: Lutron® Caséta dimming compatible (Lutron Hi-lume 1% 2-wire LTEA) (temporarily unavailable)
	VI: Lutron® Vive control enabled (Lutron VIVE FCJS-010)
	NL: nLight® control enabled (nPS-80-EZ)
	NLER: nLight® emergency control enabled (nPS-80-EZ-ER)
	NL347: nLight® control enabled 347V (nPS-80-EZ-347)
	SDALI1: Standard DALI Dimming 1% Linear Curve
	SDALI2: Standard DALI Dimming 1% Logarithmic Curve
	DALI1: Professional DALI Dimming 0.1% Linear Curve
	DALI2: Professional DALI Dimming 0.1% Logarithmic Curve
	DALIT8: DALI-2 T8 Enabled Dimming 1%
	DMX/RDM: DMX/RDM Enabled Dimming 1%
	LT: Lumentalk Enabled Dimming

Performance

Maximum Delivered Output	Up to 3,957 lm (Medium Faceted Reflector optic 40°, 4000K, CRI 90)
Maximum Delivered Intensity	Up to 38,646 cd (Extra Narrow Spot optic 5°, 4000K, CRI 80)
Color Consistency	2 SDCM, 3 SDCM (XN optic only)
Color Rendering	**80:** CRI 80+, **90:** CRI 90+, **95:** CRI 95+
Lumen Maintenance	L95 55,000 hrs (Ta 25 °C) L70 225,000 hrs (Ta 25 °C)

Environmental

Ingress Protection Rating	IP54, IP55 (suitable for "Dead Front" shower rated locations)
Environment	Wet location rating
Operating Temperature (Ceiling Cavity Ambient Temperature)	-4 °F to 104 °F (DA1, DA2, DA3, PDA1, PDA2, SDALI1, SDALI2, DALI1, DALI2, DALIT8, LT, DMX/RDM, PH and PPH control options), 14 °F to 104 °F (NO, NL, NLER, NL347 control options), 32 °F to 104 °F (NO3, VI, PPH2, ES, ESP and CA control options)

Accessories (Order Separately)

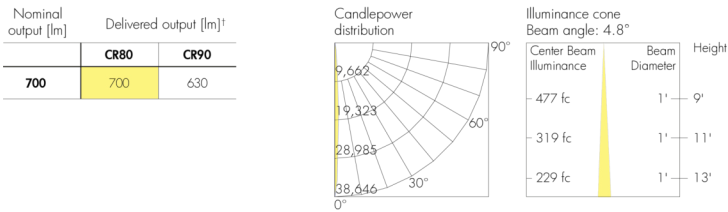|	
Control Systems	Pharos® Lighting Control Kit (PHAROS), Pharos® Expert Control Kit (EXPERT)
Diagnostic and Addressing Tools	LumenID (LID)

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Important

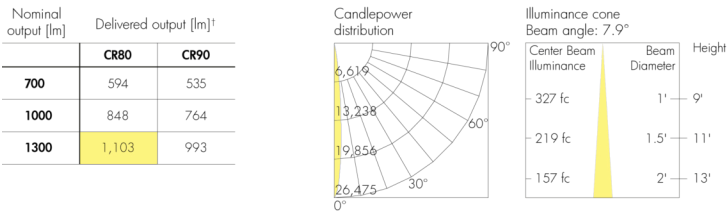### Virtual Patent Marking Notice

This website (https://www.lmpg.com/patents-trademarks) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.
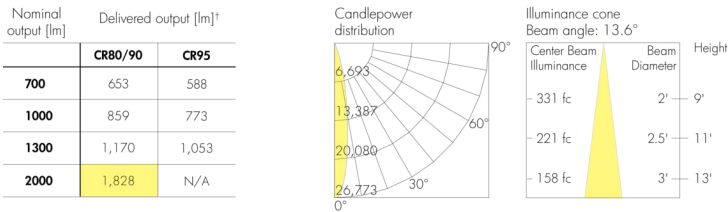
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Photometric Information

XN - Extra Narrow Spot (Nominal 5°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80	CR90
700	700	630

Candlepower distribution
9,662
19,323
28,985
38,646
90° 60° 30° 0°

Illuminance cone
Beam angle: 4.8°

Center Beam Illuminance	Beam Diameter	Height
477 fc	1'	9'
319 fc	1'	11'
229 fc	1'	13'

VN - Very Narrow Spot (Nominal 10°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80	CR90
700	594	535
1000	848	764
1300	1,103	993

Candlepower distribution
6,619
13,238
19,856
26,475
90° 60° 30° 0°

Illuminance cone
Beam angle: 7.9°

Center Beam Illuminance	Beam Diameter	Height
327 fc	1'	9'
219 fc	1.5'	11'
157 fc	2'	13'

NS - Narrow Spot (Nominal 15°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	653	588
1000	859	773
1300	1,170	1,053
2000	1,828	N/A

Candlepower distribution
6,693
13,387
20,080
26,773
90° 60° 30° 0°

Illuminance cone
Beam angle: 13.6°

Center Beam Illuminance	Beam Diameter	Height
331 fc	2'	9'
221 fc	2.5'	11'
158 fc	3'	13'

N - Narrow (Nominal 25°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	444	400
1000	574	517
1300	796	717
2000	1,852	1,873

Candlepower distribution
980
1,961
2,941
3,921
90° 60° 30° 0°

Illuminance cone
Beam angle: 33.8°

Center Beam Illuminance	Beam Diameter	Height
48 fc	5.5'	9'
32 fc	6.5'	11'
23 fc	8'	13'

NR - Narrow Reflector (Nominal 25°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	575	517
1000	742	668
1300	1,030	927
2000	1,604	1,444
3000	2,395	2,155
4000	3,151	N/A
5000	3,718	N/A

Candlepower distribution
2,428
4,858
7,287
9,715
90° 60° 30° 0°

Illuminance cone
Beam angle: 27.9°

Center Beam Illuminance	Beam Diameter	Height
120 fc	4.5'	9'
80 fc	5.5'	11'
58 fc	6.5'	13'

NFR - Narrow Faceted Reflector (Nominal 25°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	600	540
1000	775	698
1300	1,075	968
2000	1,676	1,508
3000	3,501	2,251
4000	3,291	N/A
5000	3,883	N/A

Candlepower distribution
3,393
6,786
10,179
13,571
90° 60° 30° 0°

Illuminance cone
Beam angle: 26.3°

Center Beam Illuminance	Beam Diameter	Height
168 fc	4'	9'
112 fc	5'	11'
80 fc	6'	13'

M - Medium Reflector (Nominal 40°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	575	517
1000	743	668
1300	1,030	927
2000	1,605	1,444
3000	2,396	2,156
4000	3,152	N/A
5000	3,719	N/A

Candlepower distribution
1,866
3,732
5598
7464
90° 60° 30° 0°

Illuminance cone
Beam angle: 41.8°

Center Beam Illuminance	Beam Diameter	Height
92 fc	7'	9'
61 fc	8.5'	11'
44 fc	10'	13'

MFR - Medium Faceted Reflector (Nominal 40°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	612	550
1000	790	711
1300	1,096	986
2000	1,707	1,537
3000	2,548	2,293
4000	3,353	N/A
5000	3,957	N/A

Candlepower distribution
1,980
3,960
5,939
7,919
90° 60° 30° 0°

Illuminance cone
Beam angle: 42.5°

Center Beam Illuminance	Beam Diameter	Height
98 fc	7'	9'
66 fc	8.5'	11'
47 fc	10'	13'

W - Wide Reflector (Nominal 60°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	563	506
1000	727	654
1300	1,008	907
2000	1,571	1,414
3000	2,345	2,110
4000	3,085	N/A
5000	3,640	N/A

Candlepower distribution
1,129
2,257
3,387
4,515
90° 60° 30° 0°

Illuminance cone
Beam angle: 55.7°

Center Beam Illuminance	Beam Diameter	Height
55 fc	9.5'	9'
38 fc	11.5'	11'
27 fc	13.5'	13'

WFR - Wide Faceted Reflector (Nominal 60°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	591	532
1000	763	687
1300	1,059	953
2000	1,649	1,484
3000	2,462	2,215
4000	3,239	N/A
5000	3,822	N/A

Candlepower distribution
1,186
2,371
3,557
4,741
90° 60° 30° 0°

Illuminance cone
Beam angle: 55.7°

Center Beam Illuminance	Beam Diameter	Height
59 fc	9.5'	9'
39 fc	11.5'	11'
28 fc	13.5'	13'

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VW - Very Wide Reflector (Nominal 80°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	524	472
1000	677	609
1300	939	845
2000	1,463	1,317
3000	2,184	1,966
4000	2,874	N/A
5000	3,391	N/A
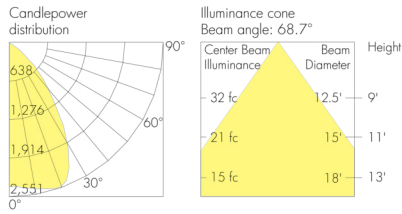
Candlepower distribution
638 / 1,276 / 1,914 / 2,551
90° / 60° / 30° / 0°

Illuminance cone
Beam angle: 68.7°

Center Beam Illumination	Beam Diameter	Height
32 fc	12.5'	9'
21 fc	15'	11'
15 fc	18'	13'

VWFR - Very Wide Faceted Reflector (Nominal 80°), 4000K

Nominal output [lm]	Delivered output [lm]†	
	CR80/90	CR95
700	550	495
1000	711	640
1300	986	888
2000	1,537	1,383
3000	2,294	2,064
4000	3,018	N/A
5000	3,561	N/A

Candlepower distribution
6,70 / 1,340 / 2,010 / 2,680
90° / 60° / 30° / 0°

Illuminance cone
Beam angle: 68.7°

Center Beam Illuminance	Beam Diameter	Height
33 fc	12.5'	9'
22 fc	15'	11'
15 fc	18'	13'
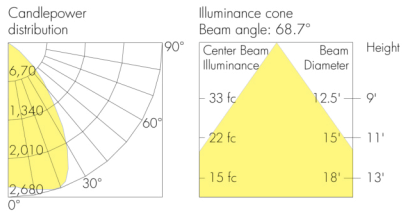
† Consult website for IES files. Delivered output: +/- 10% tolerance.

Consult Power consumption section for more wattage information.

TM-30

CRI 80+

CRI 80 +				
CCT	CIE		TM-30	
3500K	R_a	84	84	R_f
	R_9	15	97	R_g
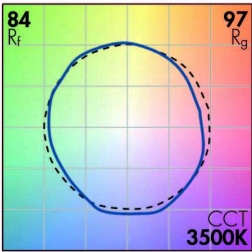
CRI 90+

CRI 90 +				
CCT	CIE		TM-30	
3500K	R_a	94	91	R_f
	R_9	55	98	R_g
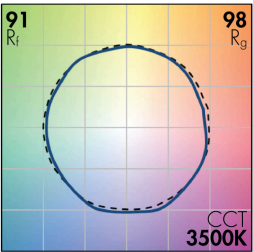
CRI 95+

CRI 95 +				
CCT	CIE		TM-30	
3500K	R_a	97	91	R_f
	R_9	97	99	R_g
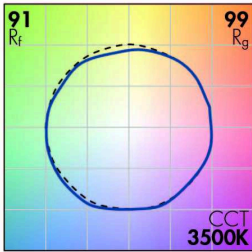
Refer to TM-30 Reference Guide for details.

Exploded Overview - Part Selection
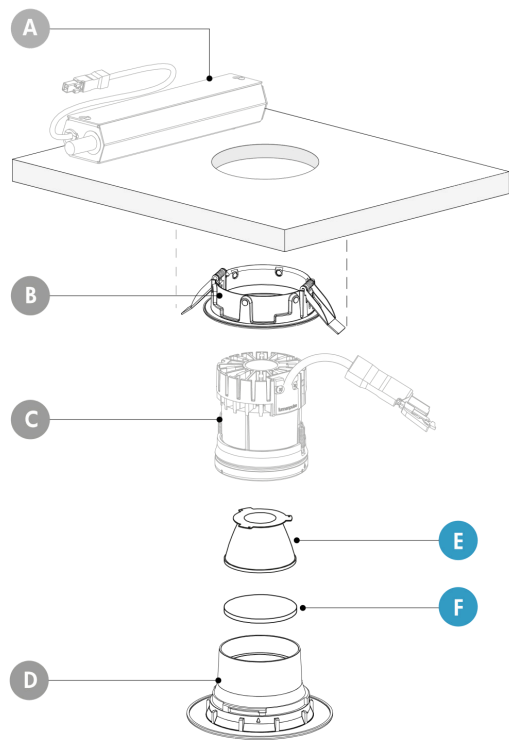
Standard Parts

A - MTG Mounting kit
B - Ceiling mounting ring, complete with a urethane foam gasket
C - LUM Core (heatsink, universal fixing ring, LED module)
D - Deep rolled over decorative bezel (plastic material for "Dead Front" shower applications complete with silicone-sealed glass lens)

MTG: Mounting Kit
LUM: Luminaire

Customizable Parts

E - Optic*
F - Optical accessory**

*Field changeable. Consult Interchangeable Optics section of the specification sheet for details. Consult factory for ordering details.

**Field changeable, consult installation instructions for details. Consult factory for ordering details.

Ceiling Requirements

Ceiling Cavity Space Requirements (Length x Width x Height)

Installation type	Output/Color Rendering								
	L07	L10	L13	L20		L30		L40	L50
	CR80/90/95			CR80/CR90	CR95	CR80/CR90	CR95	CR80/CR90	CR90
RM	11"x 11"x 6"				12"x 12"x 6"			18"x 18"x 8"	
NC	14"x 11"x 6"				14"x 11"x 6"			18"x 18"x 8"	
PC/IC/ICAT/RMR	14.5"x 10"x 7"		18"x 15"x 9"			N/A		N/A	

See Installation Type section for dimensional view of keep out and/or MTG mounting kit option.
Above dimensions include any keep out requirements for proper airflow and thermal cooling.

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Installation Types

RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated) (NO, PH, ES and ESP Controls Only)
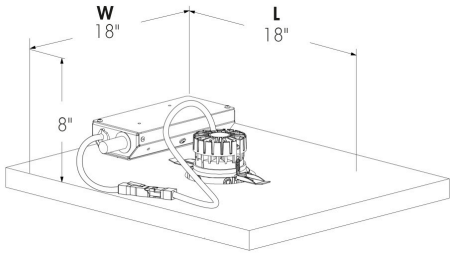
L30 CR90/95, L40 CR80/90 and L50 CR90 shown.

RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated) (DALIT8, DMX/RDM and LT Control Options Only)
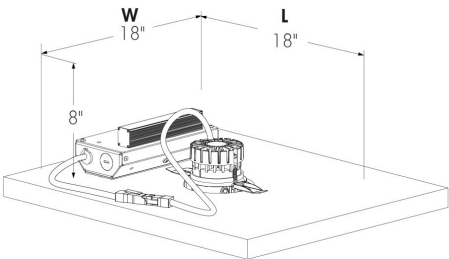
L30 CR90/95, L40 CR80/90 and L50 CR90 shown.

RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated) (Other Controls)
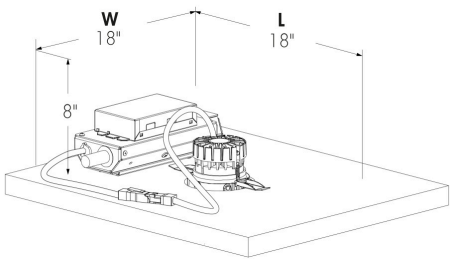
L30 CR90/95, L40 CR80/90 and L50 CR90 shown.

NC: New Construction Non-Insulated Ceiling (Non-Plenum Rated)
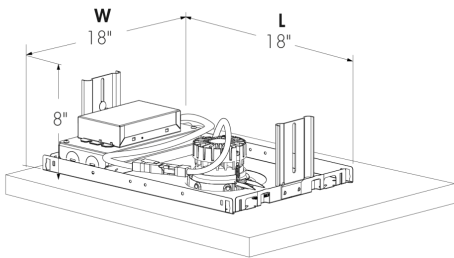
L30 CR90/95, L40 CR80/90 and L50 CR90 shown.

IC, PC, IC/AT: New Construction Insulated and Non-Insulated Ceiling (Enclosed Box)
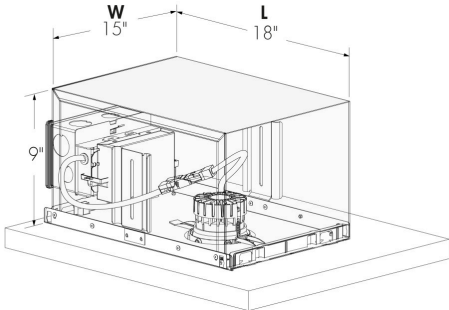
L30 CR90/95, L40 CR80/90 and L50 CR90 shown.

RMR: Remote Recessed Insulated Ceiling/Plenum (Enclosed Box)
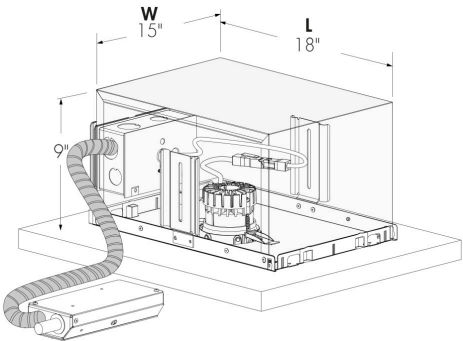
Luminaire ceiling cavity space requirements for L13 CR80/90/95 and L20 CR80/90/95 shown. Refer to remote driver box dimensions in installation instructions for space required for driver.

Remote distance is a maximum of 75 ft, consult Lumenpulse Application Engineering Team for longer remote distances.

Fixture shown for reference only. Refer to Ceiling Requirements section and installation instructions for dimensions and ceiling cutout requirements.

Ceiling Requirements

Ceiling Cutout
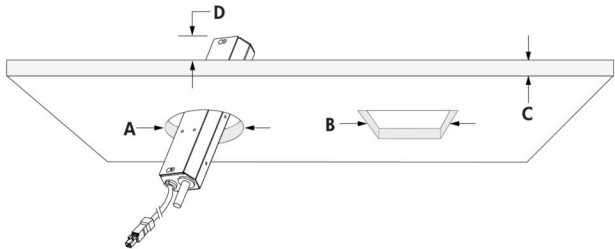
A - Ceiling cutout: Ø4.5 in
B - Ceiling cutout: 4.5 in x 4.5 in
C - Maximum ceiling thickness: 2 in
D - Minimum ceiling height: refer to Ceiling Cavity Space Requirements table

Ceiling Thickness Options

Ceiling Thickness 1	Ceiling Thickness 2
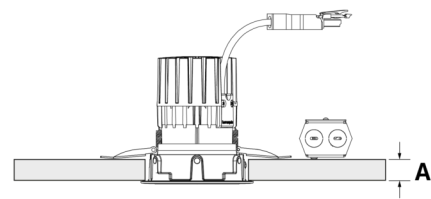
A - Ceiling thickness range: 0.04 in to 1 in
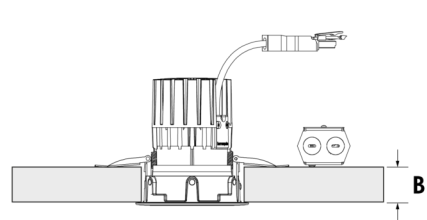
B - Ceiling thickness range: 1.05 in to 2 in

Ceiling springs are field changeable, consult installation instructions and factory for details.
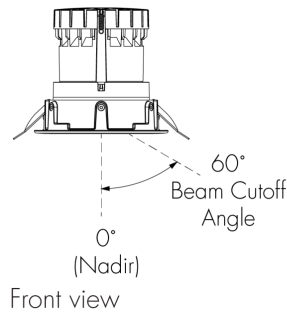
Dimensions

L07, L10, L13, L20 (CR80/90/95)
L30 (CR80)

L30 (CR90, CR95), L40 CR80/CR90, L50 (CR90)

$4\frac{3}{8}$ "

Front view

$5\frac{7}{8}$ "

Front view

Aperture $\varnothing 3\frac{3}{4}$ $\varnothing 4\frac{15}{16}$ "

Bottom view
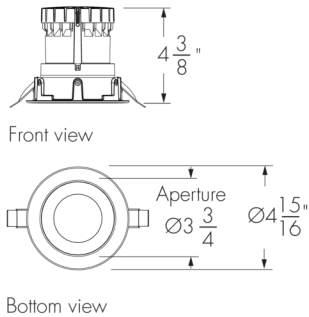
Round ceiling cutout: Ø4.5 in
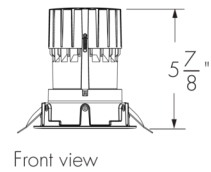
Beam Cutoff Angle

DR - Deep Rolled Over

60°
Beam Cutoff
Angle

0°
(Nadir)

Front view

Delivery - How it Works

Standard Shipping (1 delivery)
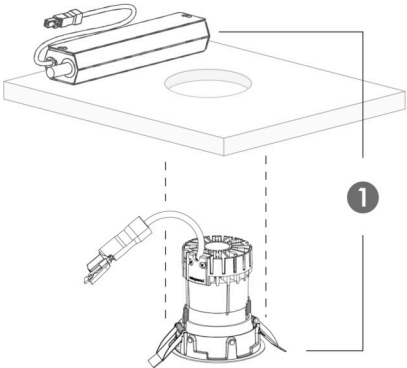
Included

1. MTG Mounting kit and complete fixture assembly

Advanced Shipping of Mounting kit (2 Separate Deliveries)
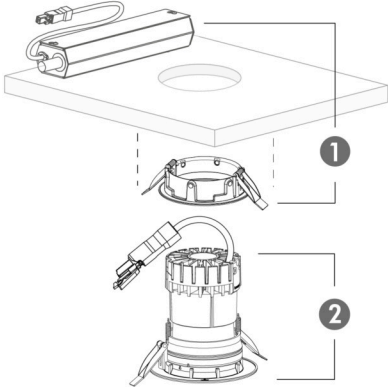
Included

1. Optional advanced delivery: MTG Mounting kit and ceiling mounting ring
2. Second delivery: LUM Core (heatsink, universal fixing ring, LED module, optic, optical accessory, decorative bezel)

Consult factory for Advanced Shipping details.

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Ceiling Cutout Shape Options

RD - Round Ceiling Cutout

Round bezel
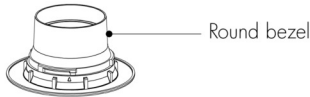
Decorative Bezel Options

RD - Compatible Round Decorative Bezels

DR - Deep rolled over
(plastic material for "Dead Front"
shower applications)

Standard Finishes - Decorative Bezels

SH - Shower

MWH - Matte white

MBK - Matte black

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Optical Accessories

HL - Honeycomb Louver

Detail view
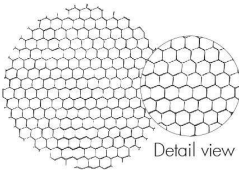
SL - Softening Glass Lens

PD – Prismatic Diffuser
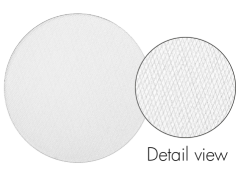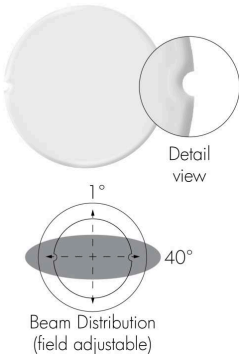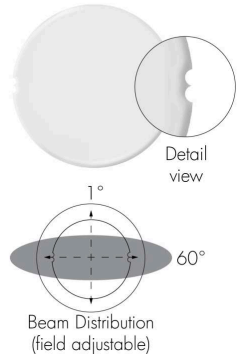
Detail view

LSN - Linear Spread Lens Narrow (1° x 40°)

Detail view

1°

40°

Beam Distribution
(field adjustable)

LSW - Linear Spread Lens Wide (1° x 60°)

Detail view

1°

60°

Beam Distribution
(field adjustable)

BW1 - Beam Widening Lens (+10°)

Detail view
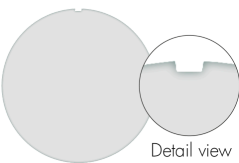
Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

BW2 - Beam Widening Lens (+20°)
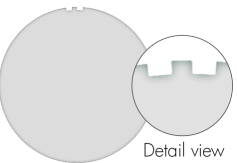
Detail view

Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

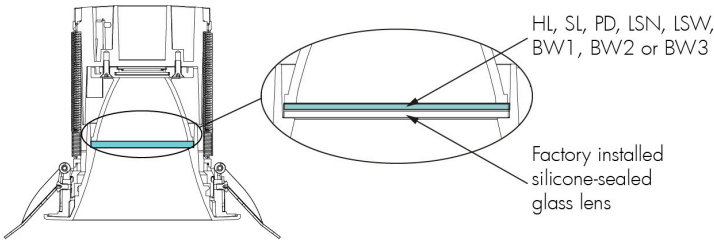### BW3 - Beam widening lens (+30°)
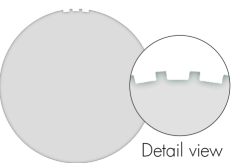
Detail view

Refer to Beam Widening Lens table for beam distribution based on optic installed in the fixture.

The accessory is mounted behind the silicone-sealed glass lens of the fixture. An additional accessory is factory installed and cannot be changed in the field.

Optical Accessory (Factory Installed, Not Field Changeable)

One Optical Accessory Installed

HL, SL, PD, LSN, LSW, BW1, BW2 or BW3

Factory installed silicone-sealed glass lens

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Optics

TIR Optic - Total Internal Reflection

Applicable to XN (5°), VN (10°), NS (15°) and N (25°) distributions.

Semi-Specular Reflector

Applicable to NR (25°), M (40°), W (60°) and VW (80°) distributions.

Faceted Reflector

Applicable to NFR (25°), MFR (40°), WFR (60°) and VWFR (80°) distributions.

Beam Widening Lenses

	Optic installed in fixture											
	XN 5°	**VN** 10°	**NS** 15°	**N** 25°	**NR** 25°	**NFR** 25°	**M** 40°	**MFR** 40°	**W** 60°	**WFR** 60°	**VW** 80°	**VWFR** 80°
BW1	11°	13°	17°	30°	30°	30°	41°	41°	61°	61°	81°	81°
BW2	21°	22°	24°	34°	34°	34°	45°	45°	63°	63°	82°	82°
BW3	30°	31°	33°	41°	41°	41°	50°	50°	67°	67°	85°	85°

The above beam angles are nominal beam angles.

Variations in beam angles can be seen due to different LES sizes. For exact beam calculations please consult factory.

Beam widening lenses should not be used with other accessories with the nominal results above.

Interchangeable Optics

	Optic installed in fixture							
	XN 5°	**VN** 10°	**NS** 15°	**N** 25°	**NR** 25°	**M** 40°	**W** 60°	**VW** 80°
Interchangeable optics	N/A	N/A	N/A	NR NFR M MFR W WFR VW VWFR	N NFR M MFR W WFR VW VWFR	N NR NFR MFR W WFR VW VWFR	N NR NFR M MFR WFR VW VWFR	N NR NFR M MFR W WFR VWFR
					NFR 25°	**MFR** 40°	**WFR** 60°	**VWFR** 80°
					N NR M MFR W WFR VW VWFR	N NR NFR M W WFR VW VWFR	N NR NFR M MFR W VW VWFR	N NR NFR M MFR W WFR VW

The optic options listed above are field changeable. Consult factory and installation instructions for details.

* Consult the Lumencore Recessed Small Wallwash specification sheet for details.

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Power Consumption

Static White Color Temperatures

	Power consumption [W]								
	XN (5°) - **VN** (10°)		**NS** (15°)				**N** (25°) - **NR** (25°) - **NFR** (25°) - **M** (40°) - **MFR** (40°) - **W** (60°) - **WFR** (60°) - **VW** (80°) - **VWFR** (80°)			
	120 V	277 V	120 V		277 V		120 V		277 V	
Output [lm]	CR80/90	CR80/90	CR80/90	CR95	CR80/90	CR95	CR80/90	CR95	CR80/90	CR95
700	13	15	9.5	10	10.5	12	8.5	9	9.5	11
1000	17*	18*	13	14.5	14	16	10	13	12	15
1300	23*	24*	15	20	16	21	13	15	15	16
2000	N/A	N/A	23	N/A	24	N/A	20	23	21	24
3000	N/A	N/A	N/A	N/A	N/A	N/A	25**	42**	26**	42**
4000	N/A	N/A	N/A	N/A	N/A	N/A	33**	N/A	34**	N/A
5000	N/A	N/A	N/A	N/A	N/A	N/A	41**	N/A	41**	N/A

*Not applicable to XN optic.
**Not applicable to N optic.

Dynamic Colors

	Power consumption [W]			
	NR (25°) - **NFR** (25°) - **M** (40°) - **MFR** (40°) - **W** (60°) - **WFR** (60°) - **VW** (80°) - **VWFR** (80°)			
	120 V		277 V	
Output [lm]	DTW - DTWP	DWW - DWH - DWWP	DTW - DTWP	DWW - DWH - DWWP
1000	14	N/A	15	N/A
1300	17	26	18	26
2000	27	N/A	28	N/A

- Power consumption values are for non-insulated ceiling (RM and NC) and remote recessed insulated ceiling/plenum (RMR) installation types. For plenum ceiling (PC), and new construction insulated ceiling (IC and IC/AT) installation types, remove 2 watts per fixture.
- Add 3 watts per fixture when specifying LT control option.
- Add 2 watts per fixture when specifying DMX/RDM control option.
- Add 1.5 watts per fixture when specifying PPH2, CA, NL, NLER or NL347 control option.
- Add 1 watt per fixture when specifying VI control option.
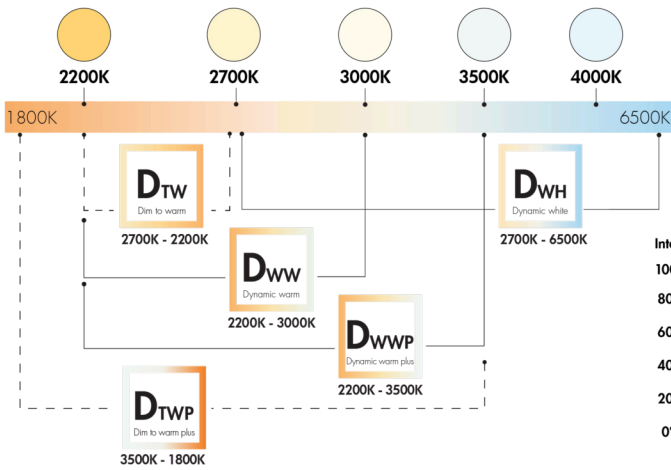- Add 3 watts per fixture when specifying 347V.

Control

Linear curve — Brightness % vs Voltage %

Logarithmic curve — Brightness % vs Voltage %
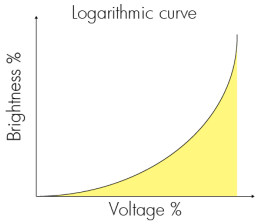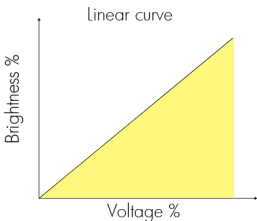
Dimming	Control options with linear dimming curve						Control options with logarithmic dimming curve				
Dimming down to 0.1%	PDA1	ESP	DALI1				PDA2	DALI2	DALIT8		
Dimming down to 1%	DA1	DA3	DAMC	PPH	PHB	ES SDALI1	DA2	SDALI2	DALIT8	DMXrdm*	lumentalk

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Color and Color Temperature

Color Temperature Ranges

2200K 2700K 3000K 3500K 4000K

1800K   6500K

DTW — Dim to warm — 2700K - 2200K

DWW — Dynamic warm — 2200K - 3000K

DWWP — Dynamic warm plus — 2200K - 3500K

DWH — Dynamic white — 2700K - 6500K

DTWP — Dim to warm plus — 3500K - 1800K

---- 1 channel (DTW, DTWP) Compatible with: DA1 ES SDALI1 SDALI2 DMXrdm lumentalk

—— 2 channels* (DWH, DWW, DWWP) Compatible with: DALIT8 DMXrdm lumentalk

—— 3 channels (DWH, DWW, DWWP) Compatible with: DALIT8 DMXrdm lumentalk

*Can be changed in the field via RDM & LT for individual CCT control.

Dim to warm

Intensity (%)
100%
80%
60%
40%
20%
0%
2700K   2450K   2200K
Color Temperature (CCT)

Dim to warm plus

Intensity (%)
100%
80%
60%
40%
20%
0%
3500K   2650K   1800K
Color Temperature (CCT)

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Wiring Details RM: Remodel Non-Insulated Ceiling (Non-Plenum Rated)

NO And PH Controls - Wiring Detail
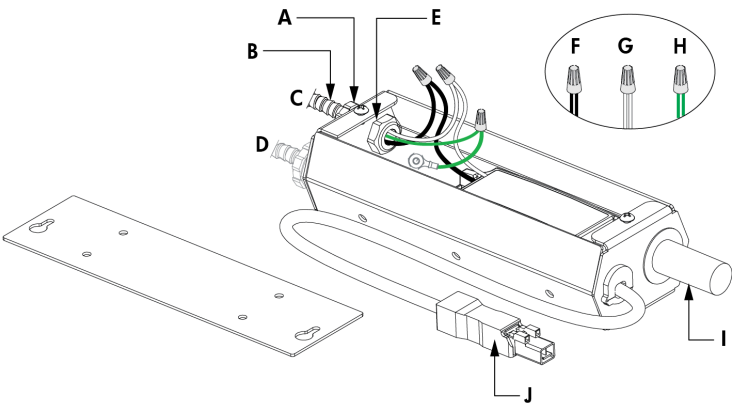
A - Conduit fitting (by others)
B - Conduit (by others)
C - Power Input
D - Optional Output
E - Locknut (by others)
F - Line
G - Neutral
H - Ground
I - Thermal protector
J - Output to luminaire

Other Controls - Wiring Detail
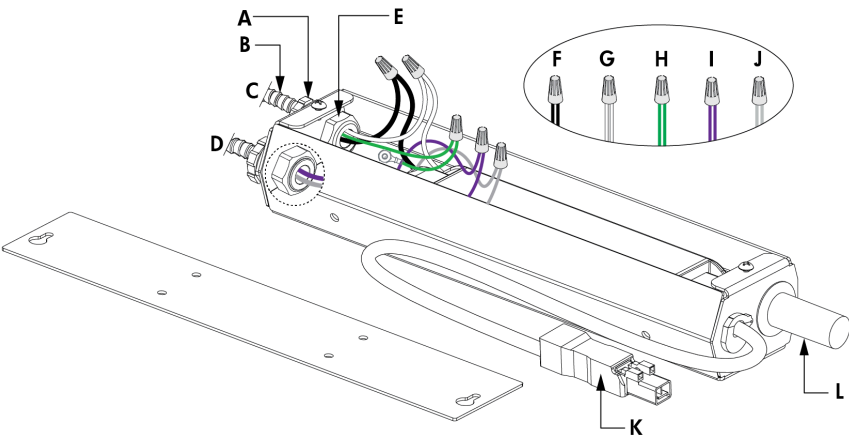
A - Conduit fitting (by others)
B - Conduit (by others)
C - Power Input
D - Data Input from Control System
E - Locknut (by others)
F - Line
G - Neutral
H - Ground
I - Data +
J - Data -
K - Output to luminaire
L - Thermal protector

Other Controls - Daisy Chain Layout Wiring Detail
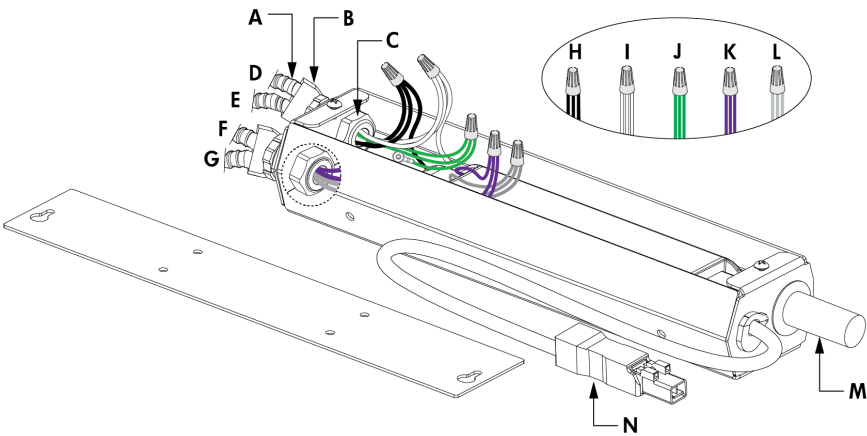
A - Conduit (by others)
B - Duplex connector (by others)
C - Locknut (by others)
D - Power Output to next luminaire
E - Power input
F - Data Output to next luminaire
G - Data Input from Control System
H - Line
I - Neutral
J - Ground
K - Data +
L - Data -
M - Thermal protector
N - Output to luminaire

**Remodel driver box varies by control option. Refer to installation instructions for additional wiring details.**

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Options

EBB - Emergency Battery Backup With Hanger Bar (Bodine BSL17C-C2)
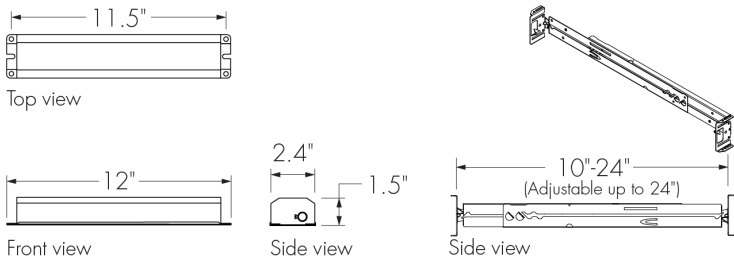
11.5"
Top view

12"
Front view

2.4"
Side view

1.5"

10"-24"
(Adjustable up to 24")
Side view

Hardware to mount the battery backup to the hanger bar is included. A test button is included. The unit comes pre-wired with 2 ft flexible conduit in and out. Refer to installation instructions for details.

EBI - Emergency Battery Backup With Hanger Bar (Iota ILB-CP07-A TBTS)
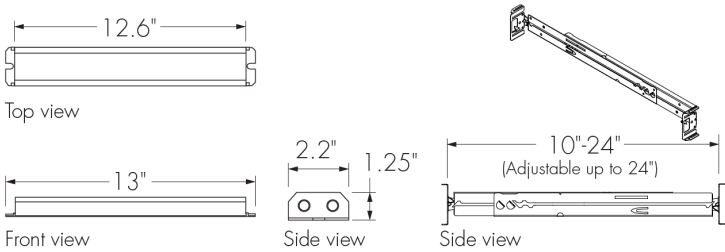
12.6"
Top view

13"
Front view

2.2"
Side view

1.25"

10"-24"
(Adjustable up to 24")
Side view

Hardware to mount the battery backup to the hanger bar is included. A test button is included. The unit comes pre-wired with 2 ft flexible conduit in and out. Refer to installation instructions for details.

Diagnostic And Addressing Tools (Order Separately)

LID - LumenID

The updated LumenID (LID) is now your all-in-one diagnostic and addressing solution for both DMX/RDM and Lumentalk (LT) systems. Engineered for versatility, it streamlines commissioning and troubleshooting across protocols—no need for multiple tools. Consult the LID specification sheet for full details.

Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit

The Pharos Designer Lighting Contol Kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations.

EXPERT - Pharos® Expert Control Kit
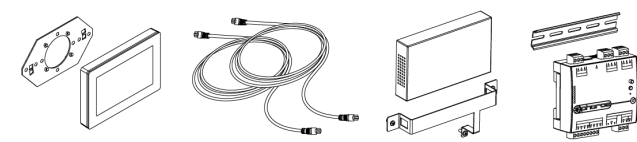
The Pharos Expert Control Kit, available for 1, 2, 4 or 6 DMX universes, allows for complete control of large lighting installations.

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How to Order

Housing (1)	Certification	Type	Voltage	Cutout	Output (Nominal Lumens)	Color and Color Temperature	Color Rendering	Optics (Nominal Distribution)
LCRS Lumencore Recessed Small - 4 in	**A** UL/cUL **ESR** UL/cUL & ENERGY STAR® (2)	**SH** Shower (3) (4)	**120** 120 Volts **277** 277 Volts **347** 347 Volts (5) (6) (7) (8) (9)	**R** Round	**L07** 700 lm (10) **L10** 1000 lm **L13** 1300 lm **L20** 2000 lm (11) **L30** 3000 lm (11) (12) (13) **L40** 4000 lm (11) (12) (13) **L50** 5000 lm (12) (14) (15)	**22K** 2200K (8) (16) (17) **27K** 2700K (17) **30K** 3000K (17) **35K** 3500K (17) **40K** 4000K (17) **DTW** Dim to Warm (2700K to 2200K) (8) (18) (19) (20) **DTWP** Dim to Warm Plus (3500K to 1800K) (8) (18) (19) (20) **DWH** Dynamic White (2700K to 6500K) (8) (19) (21) (22) **DWW** Dynamic Warm White (2200K to 3000K) (8) (19) (21) (22) **DWWP** Dynamic Warm White Plus (2200K to 3500K) (8) (19) (21) (22)	**80** CRI 80+ **90** CRI 90+ **95** CRI 95+ (8)	**XN** Extra Narrow Spot Distribution 5° (8) (23) **VN** Very Narrow Spot Distribution 10° (8) (24) **NS** Narrow Spot Distribution 15° (25) **N** Narrow Distribution 25° (26) **NR** 25° Reflector **NFR** 25° Faceted Reflector **M** 40° Reflector **MFR** 40° Faceted Reflector **W** 60° Reflector **WFR** 60° Faceted Reflector **VW** 80° Reflector **VWFR** 80° Faceted Reflector

Notes:

1. Refer to website product configurator for all exceptions.
2. Refer to website for ENERGY STAR certified product configurations.
3. IP55 rated, suitable for "Dead Front" shower rated locations.
4. Also suitable for IP54 applications. IP55 rated product can be used for interior ceiling mounted or exterior canopy-mounted applications. Consult factory and check all local codes and thermal conditions for proper specification.
5. Not available for 700 lumens. Not available for 1000 lumens when combined with 80 color rendering option.
6. Not available for XN and VN optics.
7. Not available for DTW, DTWP, DWH, DWW or DWWP color options.
8. Not available for ENERGY STAR certification.
9. Not available for CR90.
10. For ENERGY STAR certification, not available with RM or NC installation types when combined with 90 color rendering option.
11. For ENERGY STAR certification, not available with 90 color rendering option.
12. Available for NR, NFR, M, MFR, W, WFR, VW and VWFR optics only.
13. Not available with PC, IC, IC/AT or RMR installation types.
14. Available for RM and NC Installation Types only.
15. Available for CR90 only.

16. Available for CRI 80 only.
17. Compatible with all control options except for DALIT8.
18. Available for 1000, 1300 and 2000 lumens when combined with 90 color rendering option and NR, NFR, M, MFR, W, WFR, VW or VWFR optics only.
19. NFR, MFR, WFR and VWFR faceted reflector optics are recommended for optimal performance.
20. Compatible with DA1, ES, SDALI1, SDALI2, DMX/RDM and LT control options only.
21. Compatible with LT, DMX/RDM and DALIT8 control options only.
22. Available for 1300 lumens when combined with 80 color rendering option and NR, NFR, M, MFR, W, WFR, VW or VWFR optics only.
23. Available for 700 lumens when combined with 80 or 90 color rendering options and 27K, 30K, 35K or 40K color temperature options.
24. Available up to 1300 lumens when combined with 80 or 90 color rendering options and 27K, 30K, 35K or 40K color temperature options only.
25. Available up to 2000 lumens when combined with 80 color rendering option. Available up to 1300 lumens when combined with 90 or 95 color rendering options.
26. Available up to 2000 lumens when combined with 80, 90 or 95 color rendering options.

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How to Order

Control [27]	Decorative Bezel	Decorative Bezel Finish	Installation Type	Ceiling Thickness [62]	Accessories [63]
NO On/Off Control [8] [28] [29] **NO3** On/Off Control 347V [5] [6] [8] **DAMC** Standard 0-10V Dimming 1% Linear Curve [7] [8] [29] [30] [31] [32] **DA1** Standard 0-10V Dimming 1% Linear Curve [29] [33] **DA2** Standard 1-10V Dimming 1% Logarithmic Curve [29] [33] **DA3** Standard 0-10V Dimming 1% Linear Curve (347V) [5] [6] [8] **PDA1** Professional 0-10V Dimming 0.1% Linear Curve [29] [33] **PDA2** Professional 0-10V Dimming 0.1% Logarithmic Curve [29] [33] **PH** Phase Dimming [34] [35] **PPH** Phase Dimming 1% [6] [7] [8] [32] [35] [36] **PHB** Pro Phase Dimming ERP PHB Series [7] [31] [37] [38] [39] **ES** Lutron® Hi-lume 1% EcoSystem® LDE1/PEQ1 Soft-on/Fade-to-Black [8] [29] [40] [41] **ESP** Lutron® Hi-lume Premier 0.1% EcoSystem® PEQ0 Soft-on/Fade-to-Black [8] [29] [42] [43] **CA** Lutron® Caséta dimming compatible (Lutron Hi-lume 1% 2-wire LTEA) (temporarily unavailable) [6] [35] [44] [45] [46] **VI** Lutron® Vive control enabled (Lutron VIVE FCJS-010) [8] [29] [47] [48] **NL** nLight® control enabled (nPS-80-EZ) [8] [29] [47] [48] **NLER** nLight® emergency control enabled (nPS-80-EZ-ER) [8] [29] [47] [48] **NL347** nLight® control enabled 347V (nPS-80-EZ-347) [6] [8] [37] [47] [48] **SDALI1** Standard DALI Dimming 1% Linear Curve [8] [29] **SDALI2** Standard DALI Dimming 1% Logarithmic Curve [8] [29] **DALI1** Professional DALI Dimming 0.1% Linear Curve [8] [29] **DALI2** Professional DALI Dimming 0.1% Logarithmic Curve [8] [29]	**DR** Deep Rollover	**MWH** Matte White **MBK** Matte Black [55] [56]	**RM** Remodel Non-Insulated Ceiling (Non-Plenum Rated) [57] **NC** New Construction Non-Insulated Ceiling (Non-Plenum Rated) [57] **PC** Plenum Non-Insulated Ceiling (Enclosed Box) [43] [58] [59] [60] **IC** New Construction Insulated Ceiling (Enclosed Box) [43] [58] [59] [60] **IC/AT** New Construction Insulated Ceiling (Chicago Plenum/airtight, enclosed box) [43] [58] [59] [60] **RMR** Remote Recessed Insulated Ceiling/Plenum (enclosed box) [43] [58] [59] [60] [61]	**1** 0.04 in to 1 in Ceiling Thickness **2** 1.05 in to 2 in Ceiling Thickness	**NA** No Accessory **HL** Honeycomb Louver [8] [64] **SL** Softening Glass Lens [8] **PD** Prismatic Diffuser [65] **LSN** Linear Spread Lens Narrow (1° x 40°) [8] [66] **LSW** Linear Spread Lens Wide (1° x 60°) [8] [67] **BW1** Beam Widening Lens (+10°) [8] **BW2** Beam Widening Lens (+20°) [8] **BW3** Beam Widening Lens (+30°) [8]

DALIT8 DALI-2 T8 Enabled Dimming 1% (6) (8) (29) (49) (50) **DMX/RDM** DMX/RDM Enabled Dimming 1% (8) (29) (51) (52) (53) **LT** Lumentalk Enabled Dimming (8) (29) (54)					

Notes:

5. Not available for 700 lumens. Not available for 1000 lumens when combined with 80 color rendering option.
6. Not available for XN and VN optics.
7. Not available for DTW, DTWP, DWH, DWW or DWWP color options.
8. Not available for ENERGY STAR certification.
27. Control options vary according to color temperature, color rendering, optics and installation type combination. Refer to website product configurator for details.
28. Manufacturer's choice driver. Order code may change to NO1.
29. Not available with 347V.
30. Manufacturer's choice driver. Order code may change to DAMC1 or DAMC2.
31. Not available for XN and VN optics.
32. Available up to 3000 lumens when combined with 80 color rendering option. Available up to 2000 lumens when combined with 90 or 95 color rendering options.
33. Driver cuts off power to the fixture when the control signal drops below 0.5V.
34. Manufacturer's choice driver. Order code may change to PH1 or PH2.
35. Available for 120V voltage option only.
36. Manufacturer's choice driver. Order code is subject to change.
37. Not available for 700 lumens.
38. Not available for N, NR, NFR, M, MFR, W, WFR, VW and VWFR optics when combined with 1000 lumens.
39. Not available for 5000 lumens when combined CR80.
40. One EcoSystem® address per fixture. Available for static white color temperature options and DTW, DTWP, DWW color options only.
41. Available for 3000 lumens and 4000 lumens only.
42. One EcoSystem® address per fixture. Lutron® EcoSystem® Enabled dimming not available for 1300 lumens combined with VN optic. Available for static white color temperatures only.
43. Not available for 3000 and 4000 lumens.
44. Consult factory for CA control option.
45. Not available for 700 and 1000 lumens.
46. Requires Caseta Wireless Dimmer PRO Wall Dimmer.
47. Available for RM, NC And RMR installation types only.
48. When used with RMR installation type, the installer is responsible for verifying the wireless distance limitations of the main controller to the remote driver installation.
49. Available for DWH, DWW and DWWP color options only. DALI-2 Type 8 controller required.
50. Not available for PC, IC or IC/AT installation types.

51. Configurable between 8 or 16-bit dimming control via RDM. DMX/RDM requires LumenID, LumenID software and onsite commissioning.
52. A Control Box (CBX-DS or CBX-ST) and lumenID (LID) must be specified.
53. Configurable to 1, 2, or 3 channel control via RDM in the field.
54. A Lumentranslator 2 (LTL2) and LumenID (LID) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
55. For ENERGY STAR certification, not available with RM or NC installation types.
56. For ENERGY STAR certification, not available with PC, IC or IC/AT installation types when combined with 90 color rendering option.
57. Available for 700 lumens when combined with XN optic and up to 1300 lumens when combined with VN. Available up to 2000 lumens when combined with NS and N optics. Available up to 4000 lumens when combined with NR, NFR, M, MFR, W, WFR, VW and VWFR optics. Refer to optic option notes for color rendering limitations.
58. Available for 700 lumens when combined with XN optic. Available up to 1300 lumens when combined with VN and NS optics. Available up to 2000 lumens when combined with N, NR, NFR, M, MFR, W, WFR, VW and VWFR optics. Refer to optic option notes for color rendering limitations.
59. Not available for 2000 lumens when combined with DTW and DTWP color options.
60. Not available for DWH, DWW or DWWP color options.
61. Remote distance is a maximum of 75 ft. For longer remote distances, please contact Lumenpulse Application Engineering Team for application validation.
62. Ceiling springs are field changeable, consult factory and installation instructions for details.
63. The silcone-sealed glass lens is always installed by the factory, not field changeable. Maximum one additional accessory per fixture.
64. Not available for DTW and DTWP color options.
65. For ENERGY STAR certification, not available with RM or NC installation types when combined with 90 color rendering option combined and 2000 lumens.
66. Recommended for XN, VN, NS, N, NR and NFR optics when combined with 2200K, 2700K, 3000K, 3500K, 4000K color temperature options. Nominal 10° x 40° distribution when used with the NS optic. Available for NFR optic when combined with DTW, DTWP, DWH, DWW or DWWP color options only.
67. Recommended for XN, VN, NS, N, NR and NFR optics when combined with 2200K, 2700K, 3000K, 3500K, 4000K color temperature options. Nominal 10° x 60° distribution when used with the NS optic. Available for NFR optic when combined with DTW, DTWP, DWH, DWW or DWWP color options only.

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