LIGHTOLIER
by signify

Track Lighting

OmniSpot LED

LCRM Recessed Multiples

OmniSpot LED Recessed Multiples are designed to meet the most demanding retail lighting challenges through sleek and discrete aesthetics while providing a high center beam candlepower and efficacy performance.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Frame

example: LCRM10H2

Series	Styles	Lumens	Heads
LC	RM	10	
LC OmniSpot	**RM** Recessed Multiple	**10** 600lm & 1000lm	**H1** 1 head **H2** 2 head **H3** 3 head **H4** 4 head

Reflector

example: LLMRNS

Series	Beam spreads (ordered separately)
LLM	
LLM Reflector for 600 / 1000lm	**RNS** 11° Narrow Spot **RS** 18° Spot **RNF** 24° Narrow Flood **RF** 36° Flood

Fixture

example: LCRM10930H2BKZ10U

Series	Styles	Lumens	CRI / CCT	Heads	Finishes	Flanges	Dimming/Voltage
LC	RM						Z10U
LC OmniSpot	**RM** Recessed Multiple	**06** 600lm **10** 1000lm	**827** 80CRI/2700K **830** 80CRI/3000K **835** 80CRI/3500K **840** 80CRI/4000K **927** 90CRI/2700K **930** 90CRI/3000K **930CW** 90CRI/3000K Crisp White	**H1** 1 head **H2** 2 head **H3** 3 head **H4** 4 head	**BK** Matte Black **WH** Matte White	**–** Flange (leave blank) **F** Flangeless	**Z10U** 0-10V 1% 120/277V

Accessories[1]

example: LC10SNBK

Series		Finishes/Types	
LC10AH	Accessory holder[2]	**WH**	Matte White
LC10SN	Snoot	**BK**	Matte Black
7472	Hex cell	**—**	Matte Black[3]
LC10	Diffusion film	**SY**	Symmetrical Spread
		SF	Soft Focus
		LS	Linear Spread
		FR	Frosted Etched

1. Aperture ring on the fixture can hold a maximum of 1 film and 1 snoot.
2. Accessory holder can hold a maximum of 1 hex cell, 1 film, and 1 snoot.
3. Hex cell needs to be ordered with an Accessory holder.

Mud-in Kit

LCRM10H1MK	600/1000lm for 1 head configs
LCRM10H2MK	600/1000lm for 2 head configs
LCRM10H3MK	600/1000lm for 3 head configs
LCRM10H4MK	600/1000lm for 4 head configs

LCRM OmniSpot LED

Recessed Multiples

Features

1. **LED Board:** COB LED.
2. **Heat Sink:** Die-cast aluminum maintains LED junction temperature for minimum 50,000 hr lifetime at 70% lumen maintenance.
3. **Finishes:** Painted finishes with a baked enamel. Contains some powder coated finishes.
4. **Heat Sink Arm:** Tool-less aiming with 360° horizontal rotation, 180º vertical tilt and a pull down adjustment from flush recessed to semirecessed for optimal performance.
5. **Trim/Housing:** One part integrated system including a seamless flange (16 ga powder coated steel), and pre-formed housing (22 ga powder coated steel), with pre-wired integral driver(s).
6. **Frame with mounting brackets:** Mounting brackets are adjustable vertically from inside of Frame-in-kit. Maximum ceiling thickness is 1.625". Accepts various types of mounting bars including C-channel, EMT (contractor supplied) and Lightolier mounting bars (Cat. # 1950 or 1951). For use in T-grid or sheet rock ceiling. See next page for overall dimensions.
7. **Junction box:** 4" x 3.5" x 2" ; .063" (14 ga.) galvanized steel.
8. **Light Engine:** Simple plug-and-play connection between the frame and light engine from below the ceiling eliminates the need for wiring between frame and LED driver.
9. **Luminaire Disconnect:** Power from Framein-kit to Trim/Housing connection with quick connect plug.
10. **Torsion Springs and Safety Springs:** Torsion Springs swivel to allow Trim/Housing to hang temporarily from one end to ease the process of making luminaire electrical connection complete. Safety Springs allow positive lock between Trim/Housing and Frame-in-kit for added security.
11. **Interchangeable Optics:** High efficiency metalized coating providing up to 98 % total reflectivity for optimal light quality, beam control and punch. Reflector has lens attached which protects reflector finish and LEDs from contamination. Tool-less installation. Reflector sold separately to allow field replacement. Various combinations of beam angles could be achieved with 4 optic offerings.

Electrical (electronic power supply)

Input voltage: 120 V, 60 Hz Input power: 12 W
Efficacy: 83lm/W (nominal) @ 3000 K
High power factor: >0.9 CRI: 80-85 (typical)

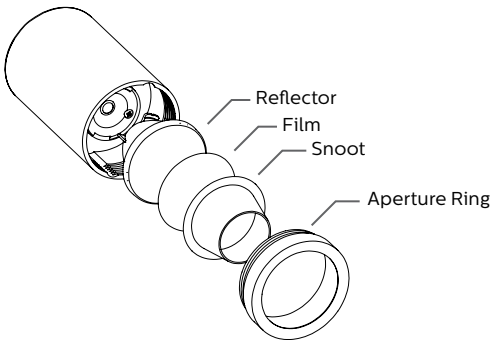
Dimming

Philips Sunrise SR1200ZTUNV 0-10V 1%
Leviton Illumatech IP7 series 0-10V 1%

Labels

cULus Listed.
5 year warranty.
ENERGY STAR® certified (except for any CrispWhite and accessory usage)

Accessories (ordered separately)



Hex cell louvers
7472 = 2" dia.

Only available in matte black. Must order the accessory holder to hold the hex cell louver.

Snoot
LC10SN = 2" dia

Diffusion/special films
LC10 = 2" dia.

LS Linear spread film

FR Frosted etched film

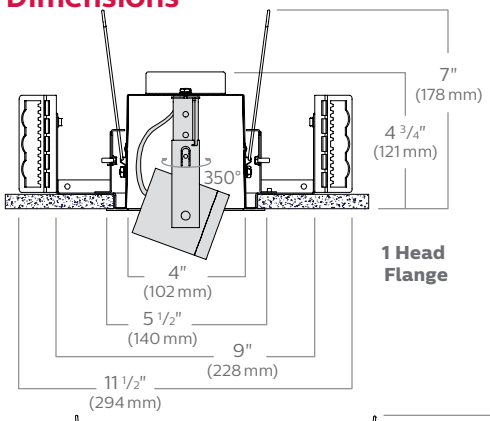
SF Soft focus film

SY Symmetrical spread film

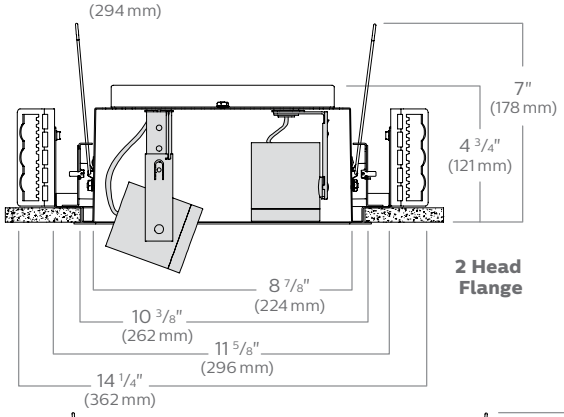
LCRM OmniSpot LED

Recessed Multiples

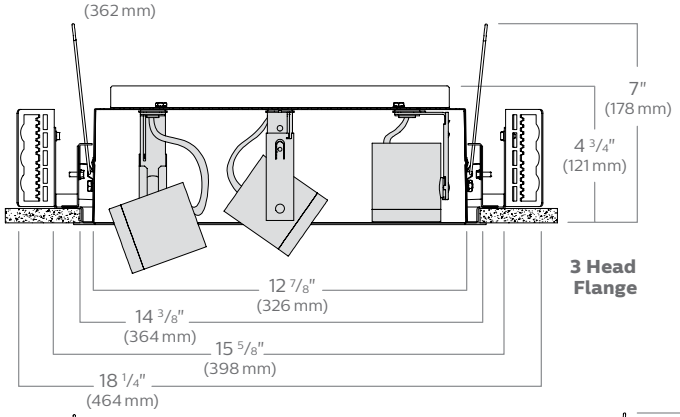
Dimensions



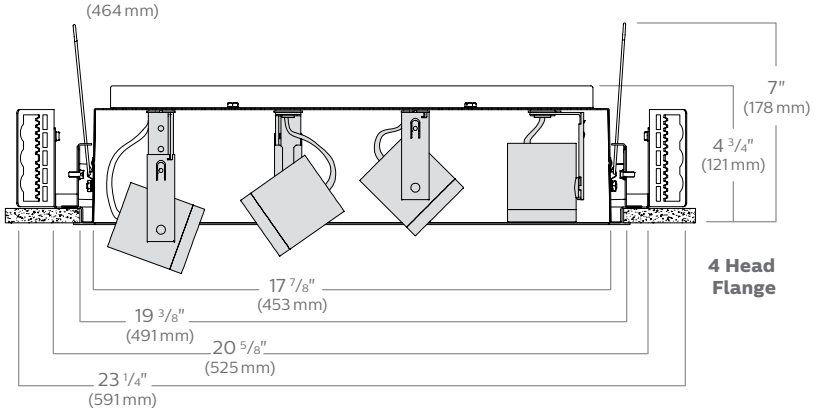
1 Head Flange



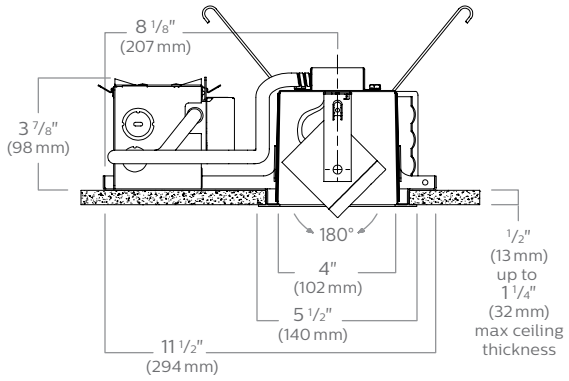
2 Head Flange



3 Head Flange



4 Head Flange



Dimming

0-10V dimming compatible

	Beam spread (To 50% CBCP)	CBCP	Rated Life (Hrs.)
LLMRNS Narrow Spot	11°	13,509	50,000
LLMRS Spot	18°	6,728	50,000
LLMRNF Narrow Flood	24°	4,713	50,000
LLMRF Flood	36°	2,584	50,000

Reference Table

For frame in kit cutout

Model	Width	Length
LCRM10H1	5"	5"
LCRM10H2	5"	9 13/16"
LCRM10H3	5"	13 13/16"
LCRM10H4	5"	18 13/16"

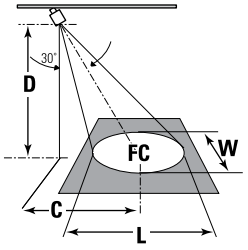
LCRM OmniSpot LED

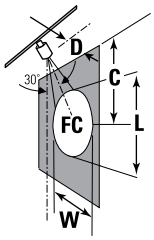
Recessed Multiples

Aiming angles

L and **W** are the outer points where the candle power drops to 50% of the maximum. **FC** are the initial footcandles at the center of the beam. Data shown is for 3000K, use the table on the right for CRI/CCT adjustment factors.

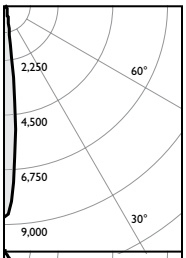
L Beam length
D Distance
W Beam Width
A Aiming Angle
FC Footcandles
C Distance to center beam
CBCP Center Beam Candlepower.





Adjustment factors

CRI	CCT	Multiplier
80	2700K	0.98
	3000K	1.00
	3500K	1.02
	4000K	1.06
90	2700K	0.81
	3000K	0.84
90CW	3000K	0.7



Frame: LCRM10H1
Fixture: LCRM06830H1WHZ10U
Reflector: LLMRNS

Output lumens:	673 lms
Input watts[1]:	7.6 W
Efficacy:	88.6 lm/w
CRI:	80 min
CCT[2]:	3000K
CBCP.:	8,717 cd
Beam Angle:	11°
Report no[3]:	1419GFR

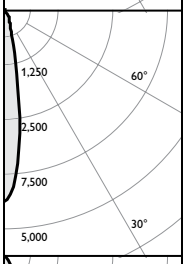
Narrow Spot

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	157	1.5	1.3
8	4.6	88	2.1	1.8
10	5.8	57	2.6	2.2
12	6.9	39	3.1	2.7

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	272	1.6	0.8
3	5.2	121	2.4	1.2
4	6.9	68	3.2	1.5
5	8.7	44	4.0	1.9



Frame: LCRM10H1
Fixture: LCRM06830H1WHZ10U
Reflector: LLMRS

Output lumens:	674 lms
Input watts[1]:	7.6 W
Efficacy:	88.7 lm/w
CRI:	80 min
CCT[2]:	3000K
CBCP.:	4,366 cd
Beam Angle:	18°
Report no[3]:	1420GFR

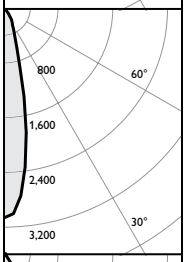
Spot

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	79	2.6	2.2
8	4.6	44	3.4	2.9
10	5.8	28	4.3	3.7
12	6.9	20	5.1	4.4

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	136	2.7	1.3
3	5.2	61	4.1	1.9
4	6.9	34	5.5	2.5
5	8.7	22	6.9	3.2



Frame: LCRM10H1
Fixture: LCRM06830H1WHZ10U
Reflector: LLMRNF

Output lumens:	679 lms
Input watts[1]:	7.6 W
Efficacy:	89.3 lm/w
CRI:	80 min
CCT[2]:	3000K
CBCP.:	3,067 cd
Beam Angle:	23°
Report no[3]:	1421GFR

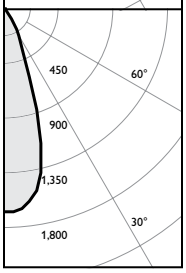
Narrow Flood

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	55	3.3	2.8
8	4.6	31	4.4	3.8
10	5.8	20	5.5	4.7
12	6.9	14	6.6	5.6

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	96	3.7	1.6
3	5.2	43	5.6	2.4
4	6.9	24	7.4	3.3
5	8.7	15	9.3	4.1



Frame: LCRM10H1
Fixture: LCRM06830H1WHZ10U
Reflector: LLMRF

Output lumens:	658 lms
Input watts[1]:	7.6 W
Efficacy:	86.6 lm/w
CRI:	80 min
CCT[2]:	3000K
CBCP.:	1,672 cd
Beam Angle:	36°
Report no[3]:	1422GFR

Flood

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	30	5.4	4.5
8	4.6	17	7.2	6.0
10	5.8	11	9.0	7.5
12	6.9	8	10.8	9.0

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	52	7.6	2.6
3	5.2	23	11.4	3.9
4	6.9	13	15.2	5.2
5	8.7	8	19.0	6.5

1. Wattage controlled to within +/- 5%.
2. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

LCRM OmniSpot LED

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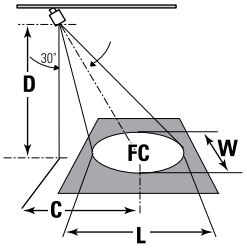
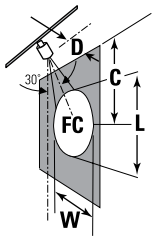
Aiming angles

L and **W** are the outer points where the candle power drops to 50% of the maximum. **FC** are the initial footcandles at the center of the beam. Data shown is for 3000K, use the table on the right for CRI/CCT adjustment factors.

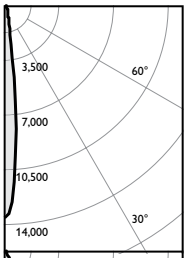
L Beam length
D Distance
W Beam Width
A Aiming Angle
FC Footcandles
C Distance to center beam
CBCP Center Beam Candlepower.





Adjustment factors

CRI	CCT	Multiplier
80	2700K	0.98
	3000K	1.00
	3500K	1.02
	4000K	1.06
90	2700K	0.81
	3000K	0.84
90CW	3000K	0.7



Frame: LCRM10H1
Fixture: LCRM10830H1WHZ10U
Reflector: LLMRNS

Output lumens:	1041 lms
Input watts[1]:	12.3 W
Efficacy:	84.6 lm/w
CRI:	80 min
CCT[2]:	3000K
CBCP.:	13,509 cd
Beam Angle:	11°
Report no[3]:	1426GFR

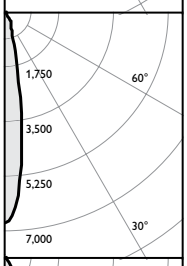
Narrow Spot

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	244	1.5	1.3
8	4.6	137	2.1	1.8
10	5.8	88	2.6	2.2
12	6.9	61	3.1	2.7

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	422	1.6	0.8
3	5.2	188	2.4	1.2
4	6.9	106	3.2	1.5
5	8.7	68	4.0	1.9



Frame: LCRM10H1
Fixture: LCRM10830H1WHZ10U
Reflector: LLMRS

Output lumens:	1039 lms
Input watts[1]:	12.3 W
Efficacy:	84.5 lm/w
CRI:	80 min
CCT[2]:	3000K
CBCP.:	6,728 cd
Beam Angle:	18°
Report no[3]:	1425GFR

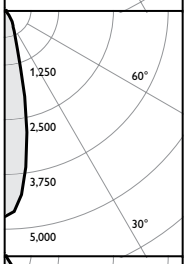
Spot

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	121	2.6	2.2
8	4.6	68	3.4	2.9
10	5.8	44	4.3	3.7
12	6.9	30	5.1	4.4

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	210	2.7	1.3
3	5.2	93	4.1	1.9
4	6.9	53	5.5	2.5
5	8.7	34	6.9	3.2



Frame: LCRM10H1
Fixture: LCRM10830H1WHZ10U
Reflector: LLMRNF

Output lumens:	1048 lms
Input watts[1]:	12.3 W
Efficacy:	85.2 lm/w
CRI:	80 min
CCT[2]:	3000K
CBCP.:	4,713 cd
Beam Angle:	23°
Report no[3]:	1424GFR

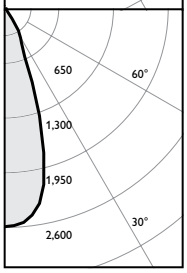
Narrow Flood

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	85	3.3	2.8
8	4.6	48	4.4	3.8
10	5.8	31	5.5	4.7
12	6.9	21	6.6	5.6

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	147	3.7	1.6
3	5.2	65	5.6	2.4
4	6.9	37	7.4	3.3
5	8.7	24	9.3	4.1



Frame: LCRM10H1
Fixture: LCRM10830H1WHZ10U
Reflector: LLMRF

Output lumens:	1017 lms
Input watts[1]:	12.3 W
Efficacy:	82.7 lm/w
CRI:	80 min
CCT[2]:	3000K
CBCP.:	2,584 cd
Beam Angle:	36°
Report no[3]:	1423GFR

Flood

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	47	5.4	4.5
8	4.6	26	7.2	6.0
10	5.8	17	9.0	7.5
12	6.9	12	10.8	9.0

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	81	7.6	2.6
3	5.2	36	11.4	3.9
4	6.9	20	15.2	5.2
5	8.7	13	19.0	6.5

1. Wattage controlled to within +/- 5%.
2. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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