

Concealed Modular Trough



PROJECT:

TYPE:

Features

The Concealed Modular Trough (CMT4) is a linear recessed housing with an aperture of 4.75" that offers a world of flexibility. Allowing you to install various lighting modules within a slim, continuous, single recessed housing. Ceilings never looked so clean. Offered in a the latest LED light sources with varying wattages to suit a broad range of applications.

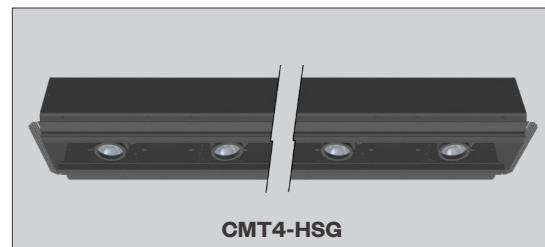
The CMT4 housing only works in a gypsum board ceiling and must be installed before the sheet rock.

The 12" on center opening in the back of the housing must have either a light module or a blanking plate.

Product Overview

Type:	Recessed Modular Trough, Accent & Display
Wattage:	Depends on light module being used. See data below.
Color Temp:	2200K, 2700K, 3000K, 3500K, 4000K (check ordering pages 6, 8, & 11 for availability)
CRI:	83 typ. or 90+ typ. 3K Class A LEDs available
Dimming:	TRIAC & ELV, 5% Dim, 120/277VAC 0-10V, 1% Dim, 120/277VAC Lutron LDE1 Hi-lume® 1% Dim Soft-On/Fade-to-Black, 120/277VAC DALI, 1% Dim, 120/277VAC

NOTE: Housing and Light Modules are ordered separately.
See page 2 for Housing ordering.
See pages 6, 8 or 11 for Light Module ordering.



Certifications

Housing



Light Modules



5 year limited warranty
AMERLUX LED

Fixture Summary

Performance Data

CMT4-HHP-LM				
Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
11	1030	93.7	8,243	3000K-83
16	1451	90.7	11,610	3000K-83
18	1640	91.1	13,119	3000K-83

Data is based on 3000K-83, 120V IES files available on website.

Data is "per head" and based on Spot optic.

See page 7 for other beam spread data..

CMT4-C3M-LM				
Watts	Delivered Lumens	LPW	CBCP	Color Temp, CRI
15	1508	100.5	9,415	3000K-83
18*	1096	60.2	24,308	3000K-83
21	2125	105	13,206	3000K-83

Data is based on 3000K-83 120V IES files available on website.

15W & 21W data is based on Very Narrow Flood optics.

See pg 9-10 for other beam spread data.

*18W data is Very Narrow Spot only.

CMT4-C3-LM				
Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
16	1,700	106.3	6,921	3000K-83
19	2,018	119.3	8,332	3000K-83
23	2,440	106.1	9,934	3000K-83
27	2,880	106.7	11,726	3000K-83
31	3306	100.4	13,460	3000K-83

Data is based on 3000K-83 120V IES files available on website.

Data is "per head" and based on Flood Optic.

See pg 12 for other beam spread data.

Concealed Modular Trough



PROJECT:

TYPE:

Ordering Information - Housing

CMT4-HSG . 12 . BT

1 2 3 4 5 6

1	Model CMT4-HSG (use with HHP, C3M or C3 light modules, ordered separately, see pages 6, 8 or 11)	2	Spacing (for Light Module or Blanking Plate) 12 12" spacing	3	Internal Finish* BT black texture <i>* White finish is not available</i>
4	Configuration Straight Runs IND ¹ individual fixture, 2' to 8' in 1' increments CON continuous run > than 8', specify to nearest foot Patterns 12" x 12" 90° Corner available (provide drawing/sketch and consult factory)	5	Circuiting Options 1C 1 circuit harness 12/3, standard (for use with LE/TE driver only) 2C 2 circuit harness 12/3 (for use with LE/TE driver only) 1C6WIRE 1 circuit 12/6 dims (for use with 0-10V, HILUME-H, DALI drivers only) 2C6WIRE 2 circuit 12/6 dims (for use with 0-10V, HILUME-H, DALI drivers only)	6	Accessory CP Chicago Plenum

NOTE: Order Light Modules separately. See pages 6, 8 or 11 for ordering information.

Concealed Modular Trough Continuous Runs



Run Length (ft)	BoR	MoR	EoR	Run Length (ft)	BoR	MoR	EoR	Run Length (ft)	BoR	MoR	EoR
9	(1) 5'	0	(1) 4'	20	(1) 8'	(1) 4'	(1) 8'	31	(1) 8'	(3) 8'	(1) 7'
10	(1) 8'	0	(1) 2'	21	(1) 8'	(1) 8'	(1) 5'	32	(1) 8'	(3) 8'	(1) 8'
11	(1) 8'	0	(1) 3'	22	(1) 8'	(1) 8'	(1) 6'	33	(1) 8'	(1) 4' + (2) 8'	(1) 5'
12	(1) 8'	0	(1) 4'	23	(1) 8'	(1) 8'	(1) 7'	34	(1) 8'	(1) 4' + (2) 8'	(1) 6'
13	(1) 8'	0	(1) 5'	24	(1) 8'	(1) 8'	(1) 8'	35	(1) 8'	(1) 4' + (2) 8'	(1) 7'
14	(1) 8'	0	(1) 6'	25	(1) 8'	(1) 4' + (1) 8'	(1) 5'	36	(1) 8'	(1) 4' + (2) 8'	(1) 8'
15	(1) 8'	0	(1) 7'	26	(1) 8'	(1) 4' + (1) 8'	(1) 6'	37	(1) 8'	(3) 8'	(1) 5'
16	(1) 8'	0	(1) 8'	27	(1) 8'	(1) 4' + (1) 8'	(1) 7'	38	(1) 8'	(3) 8'	(1) 6'
17	(1) 8'	(1) 4'	(1) 5'	28	(1) 8'	(1) 4' + (1) 8'	(1) 8'	39	(1) 8'	(3) 8'	(1) 7'
18	(1) 8'	(1) 4'	(1) 6'	29	(1) 8'	(3) 8'	(1) 5'				
19	(1) 8'	(1) 4'	(1) 7'	30	(1) 8'	(3) 8'	(1) 6'				

Concealed Modular Trough



PROJECT:

TYPE:

Specifications

Application

Retail, commercial and hospitality accent and display lighting.

Finish

Black texture internal finish. *(White finish is not available)*

Construction

Extruded aluminum ceiling trim with grooved spackle surface.
Die-formed, cold-rolled steel housing, end plates and internal components.

Wiring harness with quick connect plugs for easy module attachment.
Housing lengths are offered in 1 ft. increments.

Mounting

Housing mounted in gypsum board ceiling.
Installation and ceiling trim spackled by installing contractor.

Certifications

cUL listed
Suitable for damp locations
Indoor use only
Chicago Plenum (CCEA) optional

Electrical

1C - 1 circuit, 12 ga. 3 conductor wire harness (Dims: LE/TE)

2C - 2 circuit, 12 ga. 3 conductor wire harness (Dims: LE/TE)

1C6WIRE - 1 circuit, 12 ga. 6 conductors harness (Dims: 0-10V, Lutron, E1, E2)

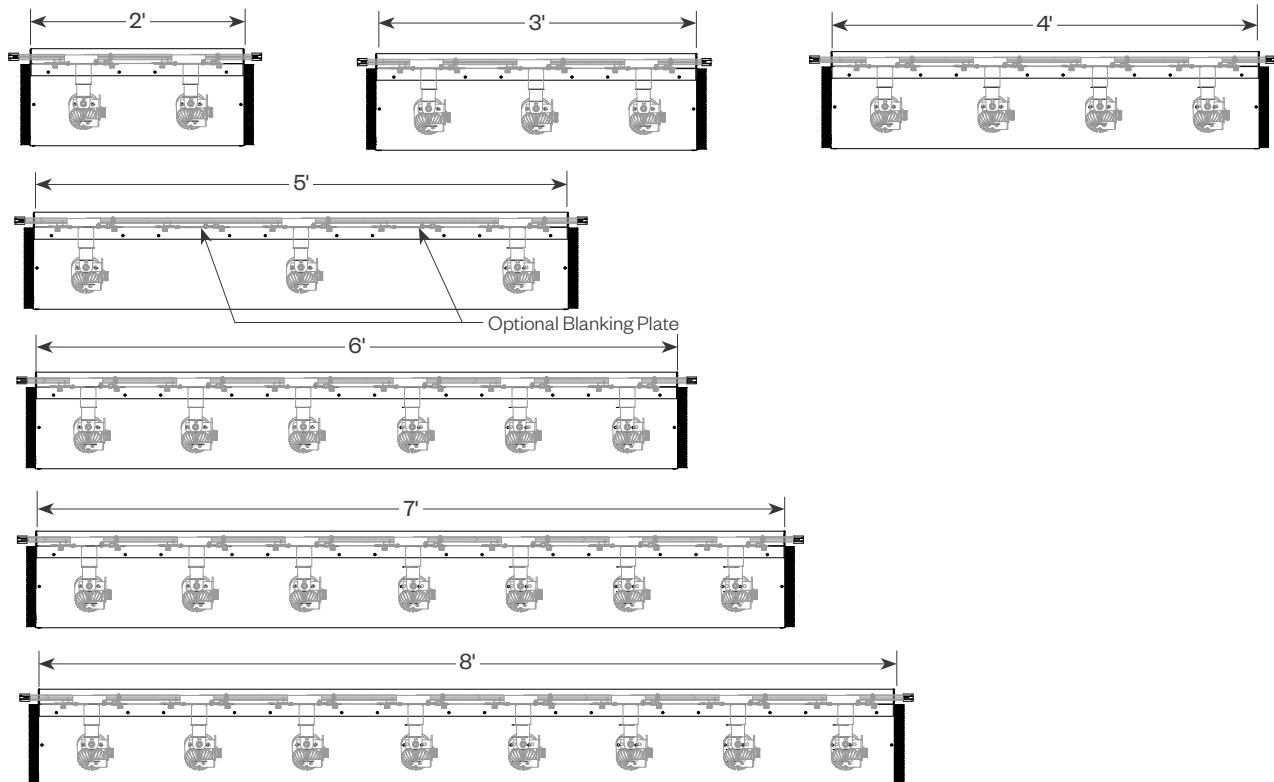
2C6WIRE - 2 circuits, 12 ga. 6 conductors harness (Dims: 0-10V, Lutron, E1, E2)

Light Modules

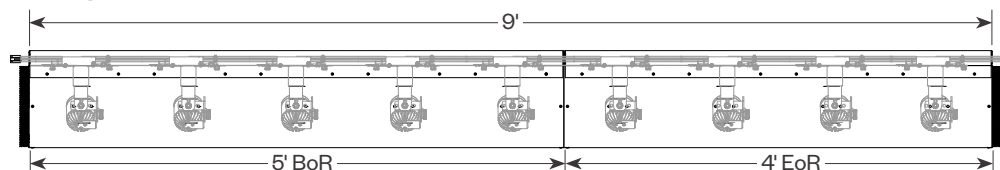
Accepts a variety of CMT4-xx-LM lighting modules.
See pages 6, 8, and 11 for light module options.

Concealed Modular Trough Individual and Continuous Lengths

Individual Lengths



Continuous Lengths



Concealed Modular Trough

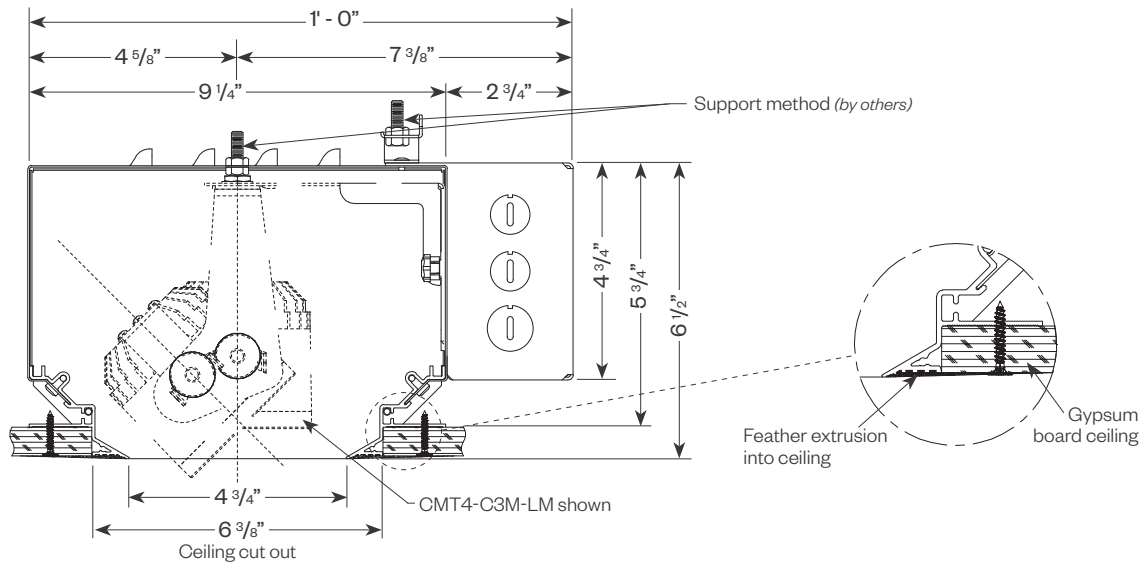


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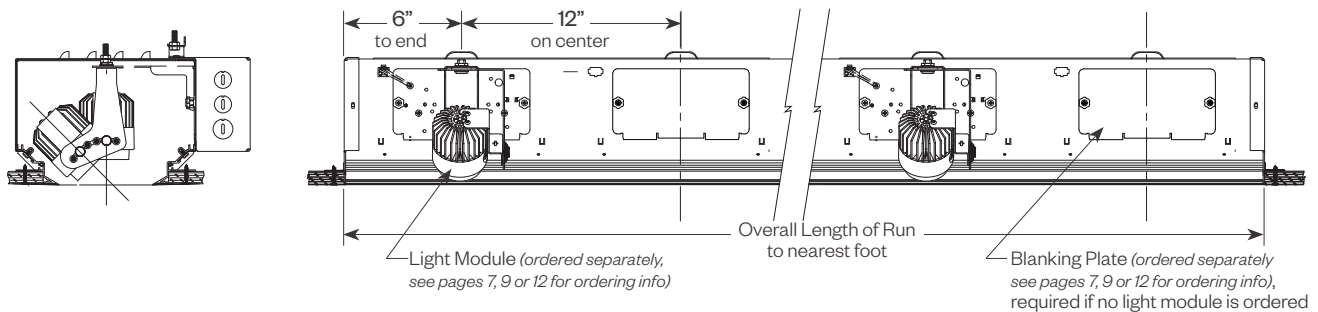
TYPE:

Product Detail - Housing

CMT4-HSG (use with Hornet-HP, C3M (shown) or C3 light modules)

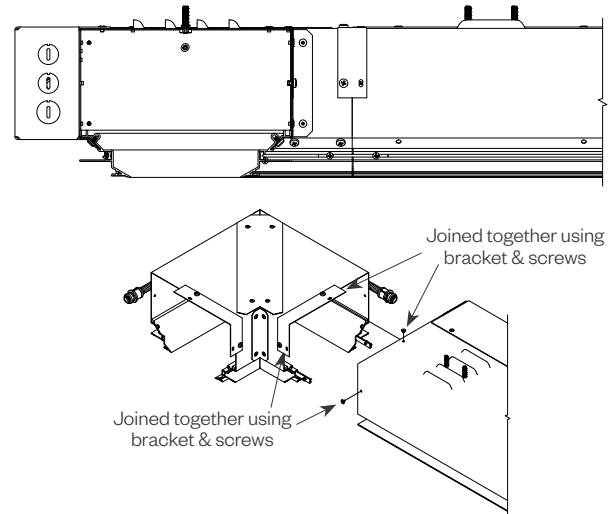
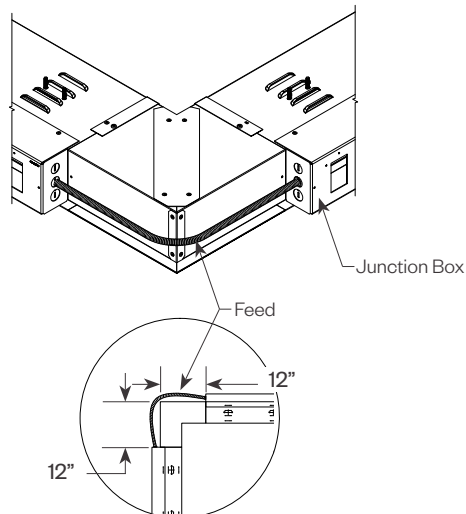


Lighting Module/Blanking Plate Spacing



Corner Detail

Note: Light module cannot be placed inside the corner



Concealed Modular Trough



PROJECT:

TYPE:

Light Module Electrical Data

Hornet HP (HHP) Light Module

CMT4-HHP-LM						
	11W		16W		18W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	11	0.09	16	0.13	18	0.15
277V	11	0.04	16	0.06	18	0.07

Electronic constant current LED driver.
Data per head.

C3M Light Module

CMT4-C3M-LM						
	15W		18W		21W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	15	0.13	18	0.15	21	0.18
277V	15	0.05	18	0.06	21	0.08

Electronic constant current LED driver.
Data per head.

C3 Light Module

CMT4-C3-LM										
	16W		19W		23W		27W		31W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	16	0.13	19	0.16	23	0.19	27	0.23	31	0.26
277V	16	0.06	19	0.07	23	0.08	27	0.10	31	0.11

Electronic constant current LED driver.
Data per head.

Concealed Modular Trough



PROJECT:

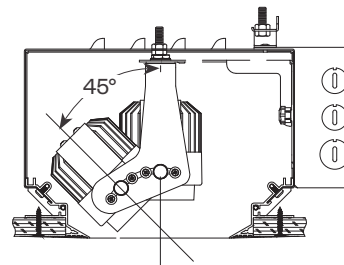
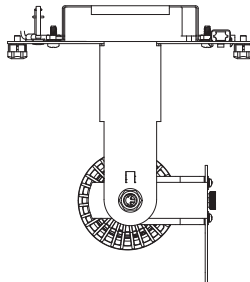
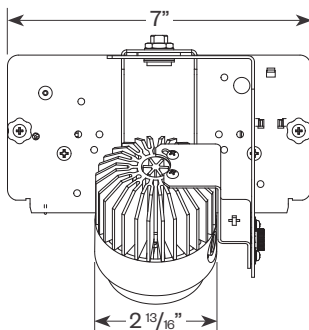
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Ordering Information - Hornet HP (HHP) Light Module (use with CMT4-HSG)

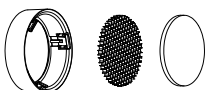
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1	Model			2	Wattage		3	Internal Finish		4	Voltage	
	CMT4-HHP-LM <i>(use with CMT4 housing)</i>				11			BT black texture			120	
	CMT4-BP blanking plate, black <i>(items 2-8 do not apply with this selection)</i>				16						277	
	Note: Whole length must have 1 light module or blanking plate per foot				18							
5	Beam Spread			6	Options							
	SP spot, 15°				83 CRI		90+ CRI					
	NF narrow flood, 22°				27 2700K-83		229* 2200K-90+		3CLA* 3000K Class A			
	MFL medium flood, 25°				30 3000K-83		279 2700K-90+					
	FL flood, 28°				35 3500K-83		309 3000K-90+					
	WF wide flood, 40°				40 4000K-83		359 3500K-90+					
	VWF very wide flood, 60°						409 4000K-90+					
	LS linear spread lens, 60° x 10°				* Not available for 18W							
7	Driver			8	Options							
	LE/TE TRIAC/ELV dimming, 5% dim <i>(for use with 1C or 2C harness)</i>				SNAH snoot accessory holder, 1" length, matte black interior, exterior finish matches fixture finish, accepts cross blade plus 2 additional forms of media							
	0-10V 0-10V dimming; 1% dim <i>(for use with 1C6WIRE, 2C6WIRE or 0-10V harness)</i>				AH accessory holder, specify finish (WT, BT, ST), accepts (2) 1/8" forms of media and optical film							
	HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black <i>(for use with 1C6WIRE or 2C6WIRE harness)</i>				HEX hexcell louver, 1/8"x1/8" <i>(requires SNAH or AH)</i>							
	DALI EldoLED; 1% dim <i>(for use with 1C6WIRE or 2C6WIRE harness)</i>				CB cross blade, matte black finish <i>(requires SNAH)</i>							
					SOL solite beam softening lens <i>(requires SNAH or AH)</i>							

NOTE: Order CMT4 housing separately. See pages 2 for ordering information.

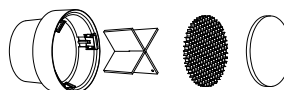
Product Detail - Hornet HP (HHP) Light Module (use with CMT4-HSG)



Accessories (diagrams show installation order)



Accessory holder, hexcell louver, solite lens



Snoot accessory holder, cross blade, hexcell louver, solite lens

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PROJECT:

TYPE:

Performance Data - CMT4-HHP-LM (per head)

Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

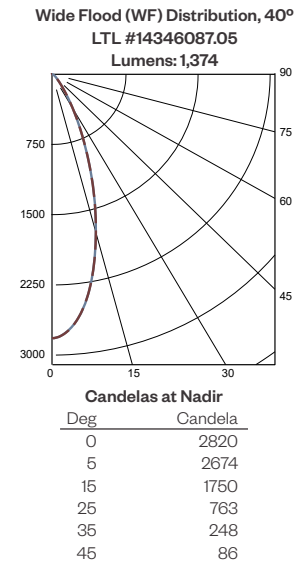
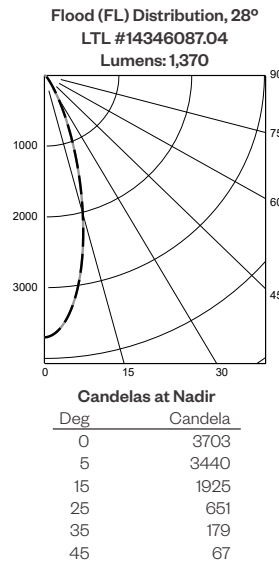
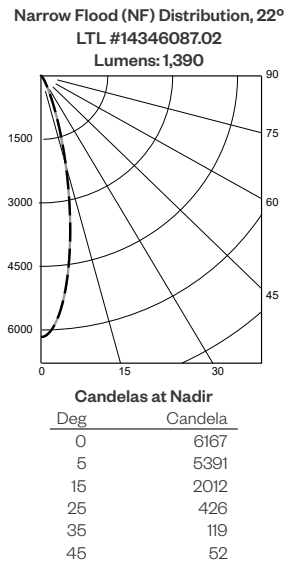
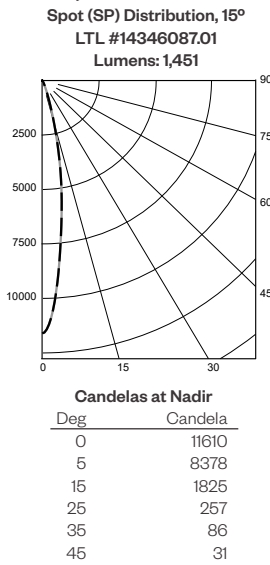
Wattage:	11W	16W	18W
Factor:	0.71	1.0	1.13

	83 CRI	90+ CRI
R9 Value:	11	55

CCT:	2200K-90+*	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA*
Factor:	0.71	0.80	0.83	0.87	0.90	0.70

* Not available for use with 18W

16W LED, 3000K-83



Application Data - CMT4-HHP-LM (per head)

Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).

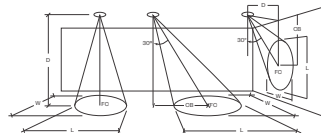
D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

L=Effective Visual Beam length in feet (50% of maximum footcandle level).

W=Effective Visual Beam width in feet (50% of maximum footcandle level).

CB=Distance across or down to center beam location.



	0° Aiming Angle Horizontal Footcandles					30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles				
Spot	D	FC	L	W		D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	463	1.4	1.4		5.0'	213	2.3	2.2	3.0	3.0'	135	3.4	2.2	5.0	3.0'	403	1.8	1.8	2.0
	7.5'	206	2.1	2.1		7.5'	110	3.3	2.9	4.0	4.0'	87	4.2	2.6	6.0	4.0'	295	2.1	1.8	2.0
	10.0'	116	2.9	2.9		10.0'	64	4.3	3.7	5.0	5.0'	58	5.2	3.2	8.0	5.0'	205	2.5	2.2	3.0
	12.5'	74	3.6	3.6		12.5'	44	5.1	4.5	7.0	6.0'	42	6.2	3.6	9.0	6.0'	152	2.8	2.5	3.0
Narrow Flood	D	FC	L	W		D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	247	1.9	1.9		5.0'	133	2.9	2.7	3.0	3.0'	97	3.7	2.4	4.0	3.0'	280	2.1	1.8	2.0
	7.5'	110	3.0	3.0		7.5'	67	4.0	3.6	4.0	4.0'	57	4.8	3.1	5.0	4.0'	201	2.4	2.2	2.0
	10.0'	62	3.9	3.9		10.0'	40	5.2	4.6	5.0	5.0'	39	5.7	3.6	7.0	5.0'	131	3.0	2.7	3.0
	12.5'	40	5.0	5.0		12.5'	26	6.4	5.7	6.0	6.0'	28	6.9	4.3	8.0	6.0'	99	3.4	3.0	3.0
Flood	D	FC	L	W		D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	168	2.5	2.5		5.0'	86	3.6	3.2	2.0	3.0'	70	3.9	2.9	4.0	3.0'	194	2.4	2.2	2.0
	7.5'	72	3.7	3.7		7.5'	42	5.0	4.6	4.0	4.0'	43	5.1	3.5	5.0	4.0'	138	2.8	2.7	2.0
	10.0'	40	5.0	5.0		10.0'	25	6.5	5.9	5.0	5.0'	28	6.2	4.4	6.0	5.0'	87	3.6	3.2	2.0
	12.5'	25	6.3	6.3		12.5'	16	8.2	7.4	6.0	6.0'	20	7.5	5.2	7.0	6.0'	65	4.0	3.7	3.0
Wide Flood	D	FC	L	W		D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	113	3.0	3.0		5.0'	71	3.9	3.5	2.0	3.0'	60	4.1	3.1	3.0	3.0'	156	2.7	2.5	2.0
	7.5'	50	4.5	4.5		7.5'	34	5.5	5.1	3.0	4.0'	36	5.3	3.9	4.0	4.0'	110	3.1	3.0	2.0
	10.0'	28	6.0	6.0		10.0'	19	7.4	6.8	5.0	5.0'	24	6.4	4.8	5.0	5.0'	72	3.9	3.5	2.0
	12.5'	18	7.5	7.5		12.5'	13	9.1	8.4	6.0	6.0'	17	7.7	5.7	7.0	6.0'	52	4.5	4.2	3.0



Delta Intelligent Building Technologies

Concealed Modular Trough



PROJECT:

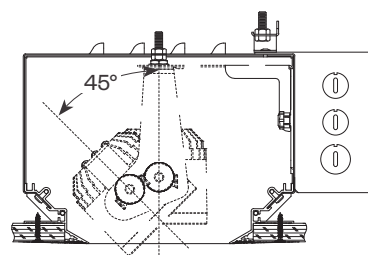
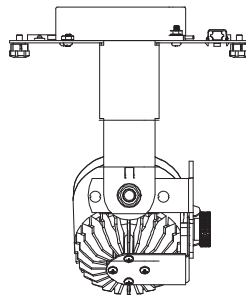
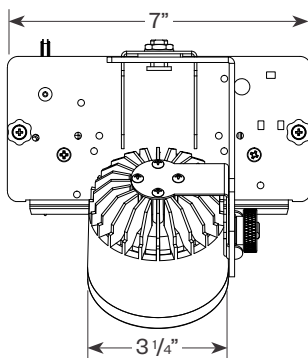
TYPE:

Ordering Information - C3M Light Module (use with CMT4-HSG)

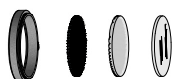
1	2	3	4	5	6	7	8					
1	Model			2	Wattage		3	Internal Finish		4	Voltage	
	CMT4-C3M-LM (use with CMT4 housing)				15			BT black texture			120	
	CMT4-BP blanking plate, black (items 2-8 do not apply with this selection)				18 (VNSP only)						277	
	Note: Whole length must have 1 light module or blanking plate per foot				21							
5	Beam Spread			6	Options							
	VNSP very narrow spot, 8° (18W only)				83 CRI		90+ CRI					
	SP spot, 14°				27 2700K-83		229* 2200K-90+		3CLA 3000K Class A			
	VNF very narrow flood, 18°				30 3000K-83		279 2700K-90+					
	NF narrow flood, 23°				35 3500K-83		309 3000K-90+					
	FL flood, 34°				40 4000K-83		359 3500K-90+					
	WF wide flood, 44°						409 4000K-90+					
	LS linear spread lens, 60° x 10°				* Not available for 18W							
7	Driver				8	Options						
	LE/TE TRIAC/ELV dimming, 5% dim (for use with 1C or 2C harness)				SN - snoot, 1" length, matte black interior, exterior finish matches fixture finish, accepts up to 2 accessories + cross blade							
	0-10V 0-10V dimming; 1% dim (for use with 1C6WIRE, 2C6WIRE or 0-10V harness)				HEX - hexcell louver							
	HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black (for use with 1C6WIRE or 2C6WIRE harness)				SOL - solite beam softening lens							
	DALI EldoLED; 1% dim (for use with 1C6WIRE or 2C6WIRE harness)				CB - cross blade, matte black (requires snoot)							

NOTE: Order CMT4 housing separately. See pages 2 for ordering information.

Product Detail - C3M Light Module (use with CMT4-HSG)



Accessories (diagrams show installation order)



Front door/Accessory holder, hexcell, linear spread lens, solite lens



Snoot accessory holder, cross blade, hexcell, linear spread lens, solite lens

Concealed Modular Trough



PROJECT:

TYPE:

Performance Data - C3M Light Module (data per head)

Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

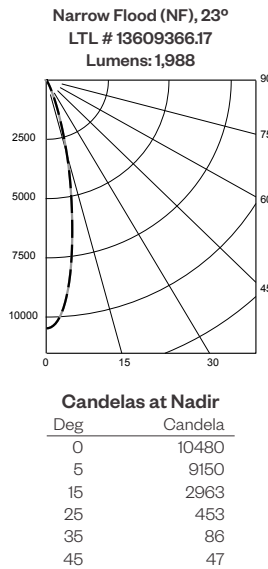
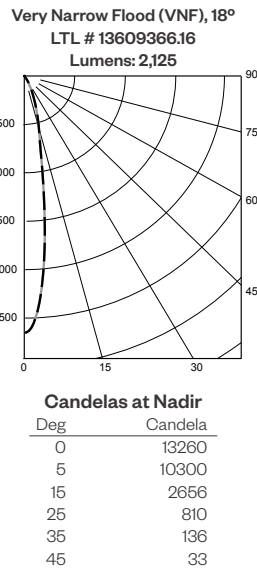
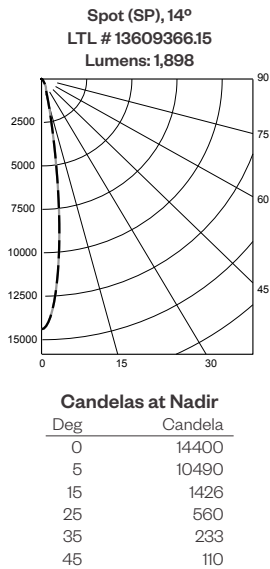
Wattage:	15W	21W
Factor:	0.71	1.0

Note: For 18W (VNSP only) data see pg 10

CCT:	2200K-90+	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA
Factor:	0.66	0.83	0.86	0.90	0.93	0.70

	83 CRI	90+ CRI
R9 Value:	11	55

21W LED, 3000K-83



Note: For FL & WF data see pg 11

Application Data - C3M Light Module (data per head)

Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).

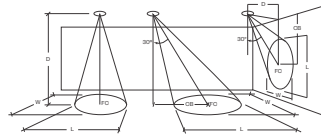
D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

L=Effective Visual Beam length in feet (50% of maximum footcandle level).

W=Effective Visual Beam width in feet (50% of maximum footcandle level).

CB=Distance across or down to center beam location.



		0° Aiming Angle Horizontal Footcandles					30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles			
SPOT	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB	
	5.0'	575	1.2	1.2	5.0'	371	1.6	1.4	3.0	3.0'	216	2.8	1.4	5.0	3.0'	779	1.3	1.1	2.0	
	7.5'	256	1.9	1.9	7.5'	166	2.5	2.2	4.0	4.0'	130	3.5	1.8	6.0	4.0'	555	1.5	1.2	2.0	
	10.0'	144	2.7	2.7	10.0'	92	3.4	3.0	6.0	5.0'	82	4.3	2.5	8.0	5.0'	361	1.8	1.4	3.0	
	12.5'	93	3.2	3.2	12.5'	61	4.1	3.6	7.0	6.0'	58	5.2	2.9	9.0	6.0'	247	2.2	1.6	3.0	
VERY NARROW FLOOD	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB	
	5.0'	531	1.4	1.4	5.0'	342	1.9	1.5	3.0	3.0'	200	3.4	1.6	5.0	3.0'	745	1.5	1.2	2.0	
	7.5'	236	2.2	2.2	7.5'	155	2.9	2.6	4.0	4.0'	124	4.1	2.1	6.0	4.0'	529	1.7	1.3	2.0	
	10.0'	133	3.0	3.0	10.0'	85	3.9	3.4	6.0	5.0'	77	5.2	2.9	7.0	5.0'	333	2.1	1.6	3.0	
	12.5'	85	3.6	3.6	12.5'	57	4.7	4.1	7.0	6.0'	56	6.2	3.2	9.0	6.0'	235	2.4	1.9	3.0	
NARROW FLOOD	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB	
	5.0'	420	1.8	1.8	5.0'	271	2.5	2.2	3.0	3.0'	193	3.2	1.8	4.0	3.0'	628	1.9	1.3	2.0	
	7.5'	187	2.9	2.9	7.5'	126	3.5	3.2	4.0	4.0'	105	4.5	2.8	6.0	4.0'	443	1.9	1.6	2.0	
	10.0'	105	3.7	3.7	10.0'	71	4.8	4.2	5.0	5.0'	70	5.4	3.3	7.0	5.0'	265	2.6	2.2	3.0	
	12.5'	67	4.7	4.7	12.5'	45	6.0	5.4	7.0	6.0'	49	6.6	3.9	8.0	6.0'	197	2.9	2.6	3.0	

Concealed Modular Trough



PROJECT:

TYPE:

Performance Data - C3M Light Module (data per head, continued)

Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

Wattage:	15W	21W
Factor:	0.71	1.0

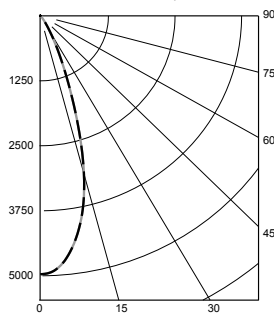
	83 CRI	90+ CRI
R9 Value:	11	55

CCT:	2200K-90+*	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA
Factor:	0.66	0.83	0.86	0.90	0.93	0.70

* Not available for use with 18W

21W LED, 3000K-83

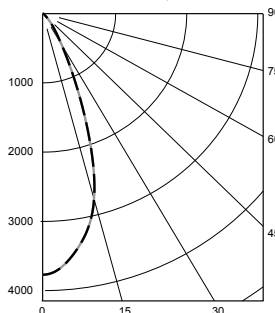
Flood (FL), 34°
LTL # 13609366.18
Lumens: 1,960



Candelas at Nadir

Deg	Candela
0	4970
5	4780
15	3130
25	913
35	193
45	55

Wide Flood (WF), 44°
LTL # 13609366.19
Lumens: 1,930



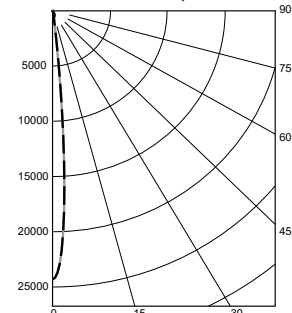
Candelas at Nadir

Deg	Candela
0	3771
5	3624
15	2758
25	1034
35	308
45	101

Note: For SP, VNF, NF data see pg 10

18W LED, 3000K (VNSP only)

Very Narrow Spot (VNSP), 8°
LTL #1170140
Lumens: 1,096



Candelas at Nadir

Deg	Candela
0	24308
5	8980
15	527
25	394
35	131
45	57

Application Data - C3M Light Module (data per head, continued)

Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).

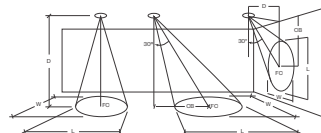
D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

L=Effective Visual Beam length in feet (50% of maximum footcandle level).

W=Effective Visual Beam width in feet (50% of maximum footcandle level).

CB=Distance across or down to center beam location.



	0° Aiming Angle Horizontal Footcandles					30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles				
	D	FC	L	W		D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
FLOOD	5.0'	199	3.0	3.0		5.0'	141	3.5	3.1	2.0	3.0'	124	3.3	2.7	3.0	3.0'	372	2.2	1.8	1.0
	7.5'	89	4.4	4.4		7.5'	63	5.2	4.8	3.0	4.0'	70	4.5	3.4	4.0	4.0'	221	2.9	2.7	2.0
	10.0'	50	5.8	5.8		10.0'	36	6.9	6.4	4.0	5.0'	45	5.6	4.4	5.0	5.0'	143	3.5	3.1	2.0
	12.5'	32	7.3	7.3		12.5'	23	8.6	8.0	6.0	6.0'	32	6.8	5.2	7.0	6.0'	98	4.2	3.9	3.0
WIDE FLOOD	D	FC	L	W		D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	151	3.2	3.2		5.0'	110	3.8	3.5	2.0	3.0'	109	3.2	2.7	3.0	3.0'	303	2.3	2.0	1.0
	7.5'	67	5.0	5.0		7.5'	49	5.6	5.4	3.0	4.0'	62	4.2	3.6	4.0	4.0'	167	3.1	3.0	2.0
	10.0'	38	6.6	6.6		10.0'	28	7.5	7.3	4.0	5.0'	40	5.3	4.6	5.0	5.0'	111	3.8	3.5	2.0
18W only VERY NARROW SPOT	12.5'	25	8.3	8.3		12.5'	18	9.5	9.1	5.0	6.0'	28	6.5	5.5	6.0	6.0'	76	4.6	4.5	2.0
	D	FC	L	W		D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
	5.0'	967	1.0	1.0		5.0'	624	1.0	1.0	3.0	3.0'	360	1.5	1.0	5.0	3.0'	983	1.0	1.0	2.0
	7.5'	431	1.1	1.1		7.5'	251	1.8	1.1	4.0	4.0'	185	2.4	1.1	7.0	4.0'	729	1.1	1.0	2.0
	10.0'	243	1.3	1.3		10.0'	153	2.1	1.6	6.0	5.0'	129	2.7	1.2	8.0	5.0'	600	1.1	1.0	3.0
	12.5'	156	1.8	1.8		12.5'	102	2.4	2.2	7.0	6.0'	90	3.3	1.6	10.0	6.0'	325	1.9	1.0	3.0

Concealed Modular Trough



PROJECT:

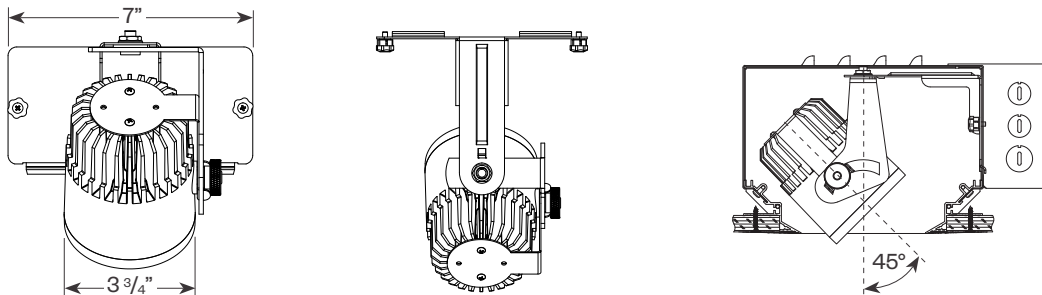
TYPE:

Ordering Information - C3 Light Module (use with CMT4-HSG)

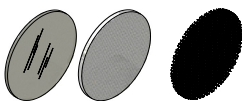
1	2	3	4	5	6	7	8					
1	Model			2	Wattage		3	Internal Finish		4	Voltage	
	CMT4-C3-LM (use with CMT4 housing)				16			BT black texture			120	
	CMT4-BP blanking plate, black (items 2-8 do not apply with this selection)				19						277	
	Note: Whole length must have 1 light module or blanking plate per foot				23							
					27							
					31							
5	Beam Spread			6	Options							
	NSP narrow spot, 10° (based on availability, lead times may vary, consult factory)				83 CRI		90+ CRI					
	SP spot, 15°				27 2700K-83		279 2700K-90+		3CLA* 3000K Class A			
	FL flood, 25°				30 3000K-83		309 3000K-90+					
	WF wide flood, 40°				35 3500K-83		359 3500K-90+					
	LS linear spread lens, 60° x 10°				40 4000K-83		409 4000K-90+					
					*Not available with NSP beam spread							
7	Driver			8	Options							
	LE/TE TRIAC/ELV dimming, 5% dim (for use with 1C or 2C harness)				(standard front door accepts 1 accessory)							
	0-10V 0-10V dimming; 1% dim (for use with 1C6WIRE, 2C6WIRE or 0-10V harness)				SN34 - snoot 3/4" length, matte black interior, exterior finish matches fixture finish; accepts up to 2 accessories							
	HILUME-H-ECO Lutron LDE1 Hi-lume® 1% dim Soft-On/Fade-to-Black (for use with 1C6WIRE or 2C6WIRE harness)				SN15 - snoot 1-1/2" length, matte black interior, exterior finish matches fixture finish; accepts up to 2 accessories							
	DALI EldoLED; 1% dim (for use with 1C6WIRE or 2C6WIRE harness)				HEX - hexcell louver							
					SOL - solite beam softening lens							
					CB - cross blade, matte black finish (requires snoot)							

NOTE: Order CMT4 housing separately. See pages 2 for ordering information.

Product Detail - C3 Light Module (use with CMT4-HSG)



Accessories (diagrams show installation order)



Clear lens, Solite lens, Hexcell louver (fits in front door)



Snoot, 3/4" deep



Snoot, 1 1/2" deep



Linear spread lens, Hexcell louver, Cross blade (requires snoot)

Concealed Modular Trough



PROJECT:

TYPE:

Performance Data - C3 Light Module (per head)

Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

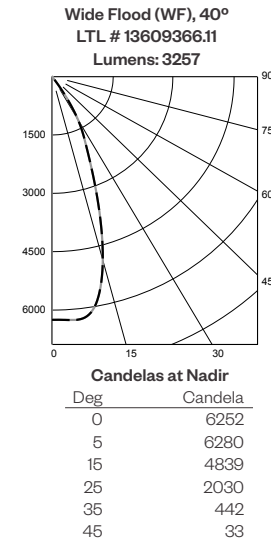
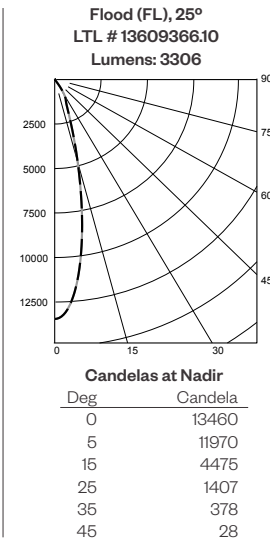
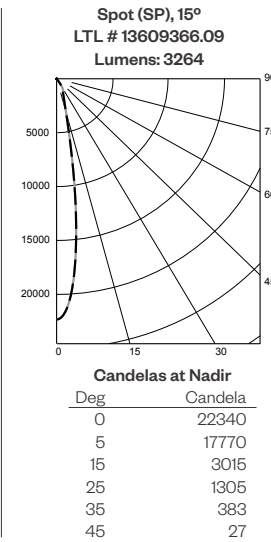
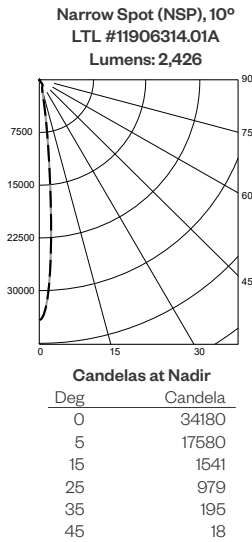
OCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

Wattage:	16W	19W	23W	27W	31W
Factor:	0.51	0.61	0.74	0.87	1.0

OCT:	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA
Factor:	0.83	0.86	0.90	0.93	0.70

	83 CRI	90+ CRI
R9 Value:	11	55

31W LED, 3000K-83



Application Data - C3 Light Module (per head)

Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).

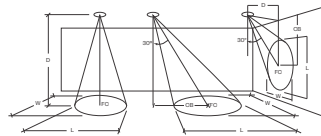
D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

L=Effective Visual Beam length in feet (50% of maximum footcandle level).

W=Effective Visual Beam width in feet (50% of maximum footcandle level).

CB=Distance across or down to center beam location.



	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					60° Aiming Angle Vertical Footcandles				
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB
NARROW SPOT	5.0'	1367	1.1	1.1	5.0'	839	1.3	1.1	3.0	3.0'	508	2.0	1.1	5.0	3.0'	1553	1.1	1.0	2.0
	7.5'	608	1.3	1.3	7.5'	384	1.9	1.4	4.0	4.0'	261	2.9	1.4	7.0	4.0'	1131	1.2	1.1	2.0
	10.0'	342	1.7	1.7	10.0'	211	2.5	2.1	6.0	5.0'	186	3.3	1.6	8.0	5.0'	846	1.2	1.1	3.0
	12.5'	219	2.3	2.3	12.5'	143	3.0	2.7	7.0	6.0'	128	4.0	2.1	10.0	6.0'	503	2.0	1.3	3.0
SPOT	5.0'	894	1.3	1.3	5.0'	559	2.1	1.5	3.0	3.0'	338	3.1	1.5	5.0	3.0'	1275	1.4	1.1	2.0
	7.5'	398	2.2	2.2	7.5'	265	2.8	2.5	4.0	4.0'	212	3.8	2.0	6.0	4.0'	903	1.6	1.2	2.0
	10.0'	224	2.9	2.9	10.0'	145	3.9	3.3	5.0	5.0'	132	4.8	2.7	7.0	5.0'	561	2.1	1.5	3.0
	12.5'	144	3.6	3.6	12.5'	95	4.7	4.2	7.0	6.0'	95	5.6	3.1	9.0	6.0'	402	2.3	1.8	3.0
FLOOD	5.0'	539	2.0	2.0	5.0'	338	2.8	2.5	3.0	3.0'	259	3.5	2.0	4.0	3.0'	814	2.1	1.4	2.0
	7.5'	240	3.1	3.1	7.5'	162	3.8	3.5	4.0	4.0'	143	4.6	2.9	5.0	4.0'	573	2.1	1.7	2.0
	10.0'	135	4.0	4.0	10.0'	92	5.1	4.5	5.0	5.0'	92	5.7	3.5	7.0	5.0'	340	2.8	2.5	3.0
	12.5'	87	5.1	5.1	12.5'	58	6.5	5.7	6.0	6.0'	65	7.0	4.2	8.0	6.0'	255	3.1	2.8	3.0
WIDE FLOOD	5.0'	284	3.3	3.3	5.0'	222	3.6	3.2	2.0	3.0'	191	3.2	2.7	3.0	3.0'	550	2.3	1.8	1.0
	7.5'	121	5.0	5.0	7.5'	95	5.4	5.1	3.0	4.0'	108	4.2	3.6	4.0	4.0'	283	3.3	3.1	2.0
	10.0'	67	6.6	6.6	10.0'	53	7.4	6.8	4.0	5.0'	69	5.5	4.6	5.0	5.0'	201	3.8	3.4	2.0
	12.5'	43	8.3	8.3	12.5'	34	9.2	8.6	5.0	6.0'	48	6.5	5.4	6.0	6.0'	138	4.6	4.3	2.0

Concealed Modular Trough



PROJECT:

TYPE:

Dimming Compatibility

Amerlux® CMT fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (*Dimmer, Fixture Quantity, Voltage, etc*) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

TRIAC (Forward Phase) Dimming

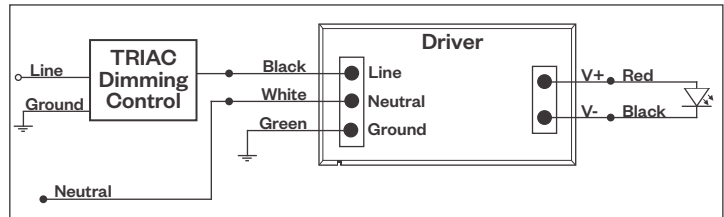
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

Notes:

- 120VAC or 277VAC*
- Dims down to 5% light output (*most cases*)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

Compatible Dimmers†:	
Wall Box (TRIAC 120VAC)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

TRIAC Wiring Diagram



ELV - Electronic Low Voltage (Reverse Phase) Dimming

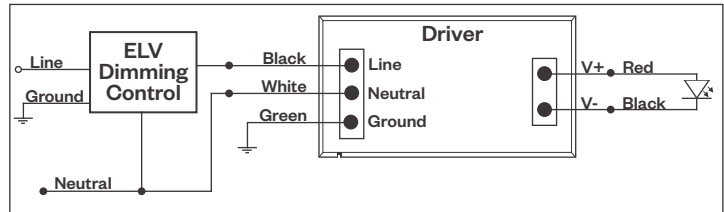
Utilizes specialized "ELV" dimmers.

Notes:

- 120VAC or 277VAC*
- Dims down to 5% light output (*most cases*)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

Compatible Dimmers†:		
Wall Box (ELV 120VAC)	Wall Box (ELV 277VAC)	Central System
Lutron "Diva"	Leviton Revoir II AWSMT-E	Lutron "GP" Panel with PHPM-PA 120/277VAC
Lutron "Nova-T"		Lutron Grafik Eye QS with PHPM-PA 120/277VAC
Lutron "Maestro"		
Lutron "Skylark"		
Leviton "Surslide"		
Leviton "Vizio"		

ELV Wiring Diagram



Notes:

* Driver is 277VAC dimmable with appropriate dimmer (*by others*). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.

† The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.



Delta Intelligent Building Technologies

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Amerlux reserves the right to change details that do not affect overall function and performance.
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Concealed Modular Trough



PROJECT:

TYPE:

Dimming Compatibility *(continued)*

Amerlux® CMT fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (*Dimmer, Fixture Quantity, Voltage, etc*) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

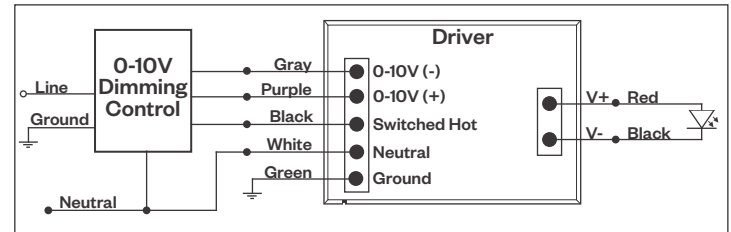
0-10V Dimming

Integrates into a variety of building management and daylighting controls

Notes:

- 120VAC or 277VAC*
- Dims down to 1% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

0-10V Wiring Diagram



Compatible Dimmers*:

Wall Box	Central System
Lutron "Diva" - DVSTV	Lutron Grafik Eye with GRX-TVI Interface
Leviton Renoir II 0-10V	

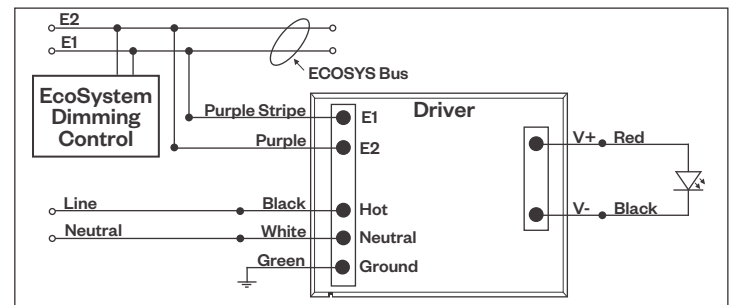
Lutron LDE1 Dimming

Integrates into Lutron EcoSystem building management

Notes:

- 120VAC or 277VAC*
- Dims down to 1% Soft-On/Fade-to-Black
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



Compatible Dimmers*:

Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

DALI Dimming

Digital control protocol allows individual fixture control

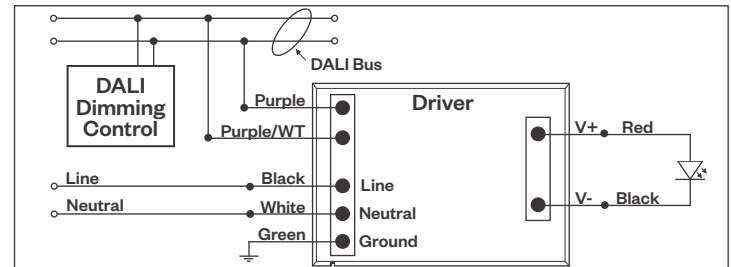
Notes:

- 120VAC - 277VAC*
- Dims down to 1% light output in most cases

Compatible Dimmers*:

Wall Box (3-Wire Fluorescent)	Central System
Leviton CD250 Controller	Dynalite
	Fifth Light

DALI Wiring Diagram



Notes:

* Driver is 277VAC dimmable with appropriate dimmer (*by others*). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.

* The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.