

Project name:

Fixture type:

Date:

# Birch<sup>™</sup> High Lumen LED Module (1250 lm-5000 lm)

The beautifully designed die-cast module houses powerful and advanced LED technology to provide increased durability and outstanding illumination. Works with 4", 6" & 8" Birch Commercial Frames, Remodel, Retrofits and Twist-On Trims.



### Features

- Non-IC for use in Non-IC applications
- Select Lumen Output (1250 lm to 5000 lm) by using manual switch on module
- Adjustable Focus Beam Angle allows for manual beam angle adjustment from 22° to 50° range with the ease of a twist
- Featured Twist-On mechanism to easily lock module to any size trim
- Encased Quick Connector for easy module installation
  ELB30R works in 4", 6", and 8" Commercial Frames,
- Remodel and Retrofit applications
  ELB50R works with 6" & 8" Commercial Frames,
- Remodel and Retrofit applications Only. Only for use with ELB610 and ELB810 trims
- 120/277V input with 0-10V dimming
- Excellent color rendering 93+ CRI
- Meets Energy Star Requirements
- ETL listed for damp location
- Life span of 50,000 hours L70

## **Technical Details**

**Optics**: Frosted polycarbonate module lens diffuses light evenly throughout while reducing glare with LED technology.

**Construction**: Integrated driver and light engine with Encased Quick Connect. Diecast aluminum body with heat fins allows for efficient cooling.

**Installation:** Twist-On design for tool-less trim installation, for use with Birch<sup>™</sup> Trims. ELB30R can be used in 4", 6", and 8" Commercial Frames and Remodel/Retrofit applications with Encase Quick Connect base. ELB50R can be used in 6", and 8" Commercial Frames and Remodel/Retrofit applications with Encase Quick Connect base and only for use with ELB610 and ELB810 trims. For use in non-IC applications.

**Electrical:** Module connects to 120/277V power supply. High-efficiency driver with a power factor >0.9. Start time of less than 0.75 seconds.

**LED Technology:** Extremely accurate Color Rendering Index of 93+. Lumen Maintenance of 50,000 hours L70 Life span. Superior Thermal Management by utilizing integrated heat sink. Instant On to Full Brightness technology. No LED pixelation.

**Dimmability:** 0-10V dimmable. Dims down to 5%. For a full list of dimmers, refer to the Dimmer Compatibility List. Industry-leading dimming that dims smoothly with no hot spots or flickering.

Listings: ETL Listed for Damp Location.

## Specifications

Wattage	13W / 20W / 35W - 32W / 40W / 55W		
Lumens	1250 lm - 5000 lm		
Voltage	120/277V		
Color Temp.	3000К - 4000К		
Dimmable	0-10V		
Lamp Type	LED		
Beam Angle	22° to 50°		
CRI	93+		
Damp Locatio	Damp Location Listed		

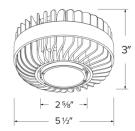
ELB30 - Dimensions



## **ELB30 Lumen Select**



## **ELB50** - Dimensions



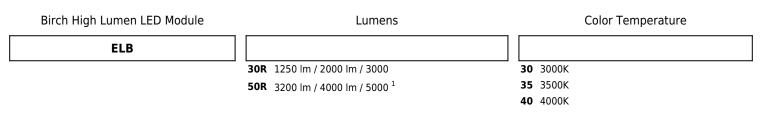
## **ELB50 Lumen Select**



## **Product Numbers**

Item	Lamp type	Lumens	сст	Watts	Voltage	Dimming	Beam Angle
ELB30R30	LED	1250 lm / 2000 lm / 3000 lm	3000K	13W / 20W / 35	120/277V	0-10V	22° to 50°
ELB30R35	LED	1250 lm / 2000 lm / 3000 lm	3500K	13W / 20W / 35	120/277V	0-10V	22° to 50°
ELB30R40	LED	1250 lm / 2000 lm / 3000 lm	4000K	13W / 20W / 35	120/277V	0-10V	22° to 50°
ELB50R30	LED	3200 lm / 4000 lm / 5000 lm	3000K	32W / 40W / 55	120/277V	0-10V	22° to 50°
ELB50R35	LED	3200 lm / 4000 lm / 5000 lm	3500K	32W / 40W / 55	120/277V	0-10V	22° to 50°
ELB50R40	LED	3200 lm / 4000 lm / 5000 lm	4000K	32W / 40W / 55	120/277V	0-10V	22° to 50°

## Product Number Builder Example: ELB30R30



 $^{\rm 1}$  For use with 6" & 8" Only. Only for use with ELB610 and ELB810 trims.

# **Compatible** Products



For use with Birch<sup>™</sup> LED Modules

# **4″, 6″, & 8″** Birch<sup>™</sup> Architectural Frames



# 4", 6", & 8" Birch™ Plaster Frames

FB27

Set of 2



Frames

4" Plaster Commercial Frame New Construction



CH26

Set of 2

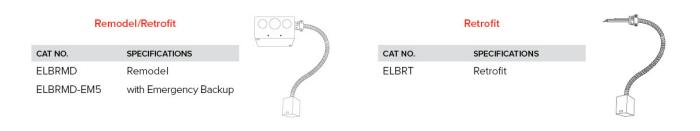
6" Plaster Commercial Frame New Construction



8" Plaster Commercial Frame New Construction

CAT NO.	SPECIFICATIONS	CAT NO.	SPECIFICATIONS	CAT NO.	SPECIFICATIONS
ELB4PF	Frame	ELB6PF	Frame	ELB8PF	Frame
ELB4PF-EM5	with Emergency Backup	ELB6PF-EM5	with Emergency Backup	ELB8PF-EM5	with Emergency Backup

# Remodel & Retrofit Birch™ Applications



# **Compatible** Products



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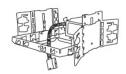
For use with Birch<sup>™</sup> LED Modules

# **4", 6", & 8"** Birch™ Twist-On Trims



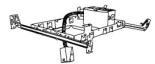
# **4″** Birch™ Square Frames →

Not compatible with ELB50R Module Series



4" Square Architectural Frame New Construction

CAT NO.	SPECIFICATIONS
ELB44SQEH	Architectural Frame
ELB44SQEH-EM5	Emergency Backup



4" Square Plaster Frame New Construction

CAT NO.	SPECIFICATIONS
ELB44SQPF	Plaster Frame
ELB44SQPF-EM5	Emergency Backup

4" Square Birch<sup>™</sup> Twist-On Trims • Not compatible with ELB50R Module Series



4" Square Reflector Trim

CAT NO.	SPECIFICATIONS
ELB440W	All White
ELB440H	All Haze
ELB440HW	Haze with White Trim
ELB440BB	All Black

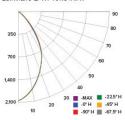
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# Photometric Report

## Birch<sup>™</sup> High Lumen LED Module

#### PHOTOMETRIC REPORT

Product #: ELB30R30 (1250 lm, 3000K) Wattage / Lumens: 13.6W / 1463.3 lm Luminaire LPW: 107.5 lm/W

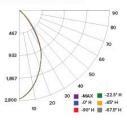


#### Degress Vertical 0° Distance to Target Plane Center Beam Footcandles Beam Diameter 0 2063 4' 178.2 3.1' 1957 5 6' 62.7 4.7 15 1438 8' 32.2 6.4 25 826 10' 21.6 7.9' 35 387 ZONAL LUMEN SUMMARY 45 163 Lumens %Luminaire Zone 55 59 65 25 963.3 0-30° 65.8 75 11 0-40° 1,212.8 82.9 85 3 0-60° 1,401.5 95.8 90 0 1,443.4 0-909 98.6

ILLUMINANCE AT A DISTANCE

### PHOTOMETRIC REPORT

Product #: ELB30R30 (2000 lm, 3000K) Wattage / Lumens: 18.8W / 1932 lm Luminaire LPW: 102.7 lm/W



CANDLE	DOWED	SUMMARY
CANDLE	FOWER	SUMMARI

CANDLE DOWED SLIMMADY

CANDLE POWER SUMMARY

#### ILLUMINANCE AT A DISTANCE

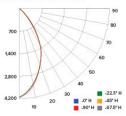
Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
0	2702	4'	233.6	3.2'
5	2567	6′	82.2	4.7′
15	1891	8'	42.2	6.4'
25	1093	10'	28.4	8.0'

513			
217	ZONAL LOWEN SOMMART		
79	Zone	Lumens	%Luminaire
34	0-30°	1,268.3	65.7
15	0-40°	1,599.2	82.8
3	0-60°	1,850.1	95.8
0	0-90°	1,905.4	98.6
	217 79 34	217         ZONAL LUMEN SUMMARY           79         Zone           34         0.30°           15         0.40°           3         0.60°	ZIT         ZONAL LUMEN SUMMARY           79         Zone         Lumens           34         0.30°         1,268.3           15         0.40°         1,599.2           3         0-60°         1,850.1

ILLIMINANCE AT A DISTANCE

#### PHOTOMETRIC REPORT

Product #: ELB30R30 (3000 lm, 3000K) Wattage / Lumens: 32.6W / 2946.5 lm Luminaire LPW: 90.3 lm/W



ANDLE POWER	SUMMART	ILLUMINANCE AT A DIS	IANCE	
Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diameter
0	4067	4'	351.5	3.2'
5	3872	6'	123.9	4.8'
15	2870	8′	63.6	6.4′
25	1660	10′	42.7	8.0′
35	789		DV.	
45	334	ZONAL LUMEN SUMMA	RT	
55	122	Zone	Lumens	%Luminaire
65	52	0-30°	1,926.7	65.4
75	23	0-40°	2,434.1	82.6
85	5	0-60°	2,821.0	95.7
90	0	0-90°	2,905.7	98.6



# Dimmer Compatibility Chart 0-10V Dimming For Birch™ System LED Modules

### For Reference Only

Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards. Consult the dimmer manufacturer prior to installation to ensure compatibility.

Manufacturer	Product	Part Number	Dimmed Light Output Range
Lithonia	Slide Dimmer, 0-10V DC, 1500W for LED and CFL Lighting, Single Pole, 3-Way Wiring, Allows on/off switching without disturbing light level, Fits Standard Single or Multi-gang switch boxes	ISD BC 120/277 WH	5% - 100%
Cooper	Slide Dimmer, 0-10V, 120/277VAC 60Hz, 1200/1600W for LED and CFL Lighting, Single Pole, 3-Way Operation, Commercial/Residential Application, Title 24 Compliant	SF10P-W	5% - 100%
Lutron	Diva Dimmer, 0-10V, 120 to 277VAC 50/60Hz, 8 Amp, 2216W for LED and CFL Lighting, Single Pole, 3-Way Operation, Commercial/Residential, Indoor Application	DVSTV-WH	5% - 100%
Leviton	IllumaTech Mark 7 Dimmer, 0-10V, 120/277VAC 60Hz, 1200/1500W for LED and CFL Lighting, Electro Mechanical Preset On/Off Switch, Single Pole, 3-Way Operation, Commercial/Residential Application	IP710-DLZ	5% - 100%

\*NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details

Disclaimer: Minimum and maximum loads for LEDs and CFLs are given in number of lamps and may vary depending on the lamp being used. Testing conducted by ELCO Lighting is not a substitute for and does not imply certification by an independent laboratory or any other standards certification. Refer to manufacturer specifications for more detailed information on product certifications and standards.

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