

Birch™ Pro LED Module with 5-CCT Switch (750 lm-1500 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.



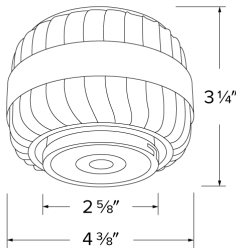
Features

- **IC Rated** for direct contact with insulation, for use in IC and Non-IC applications
- Select Color Temperature (2700K to 5000K) and Lumen Output (750 lm to 1500 lm) by using manual switch on module
- Adjustable Focus Beam Angle allows for manual beam angle adjustment from 25° to 45° range with the easy of a twist
- Featured Twist-On mechanism to easily locked module to any size trim
- Encased Quick Connector for easy module installation
- Works in 4", 6", and 8" Commercial Frames, Remodel and Retrofit applications
- 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

Specifications

Wattage	10W / 12W / 20W
Lumens	750 lm / 1000 lm / 1500 lm
Voltage	120/277V
Color Temp.	2700K, 3000K, 3500K, 4000K, 5000K
Dimmable	0-10V
Lamp Type	LED
Beam Angle	25° to 45°
CRI	93+
Damp Location	Listed

Dimensions



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 allow for efficient cooling.

Installation: Twist-On design for tool-less trim installation, for use with Birch™ Trims. Can be use in 4", 6", and 8" Commercial Frames and Remodel/Retrofit applications with Encase Quick Connect base. For use in IC and 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 Maintainece of 50,000 hours L70 Life span. Superior Thermal Management by utilizing integrated heat sink. Instant On to Full Brightness technology. No LED pixilation.

Dimmability: 0-10V dimmable. Dims down to 5%. For 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.

Warranty: ELCO Products are built to last with a 5-year Limited Warranty.

Product Numbers

Item	Lamp type	Lumens	CCT	Watts	Voltage	Dimming	Beam Angle
ELB15RCT5ICA	LED	750 lm / 1000 lm / 1500 lm	2700K, 3000K, 3500K, 4000K, 5000K	10W / 12W / 20	120/277V	0-10V	25° to 45°

Compatible Products

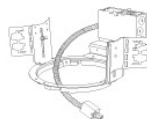
For use with **Birch™ LED Modules**



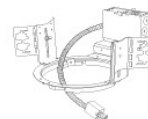
4", 6", & 8" Birch™ Architectural Frames



4" Architectural Commercial Frame
New Construction



6" Architectural Commercial Frame
New Construction



8" Architectural Commercial Frame
New Construction

CAT NO.	SPECIFICATIONS
ELB4EH	Frame (hanger bars required)
ELB4EH-EM5	with Emergency Backup

CAT NO.	SPECIFICATIONS
ELB6EH	Frame (hanger bars required)
ELB6EH-EM5	with Emergency Backup

CAT NO.	SPECIFICATIONS
ELB8EH	Frame (hanger bars required)
ELB8EH-EM5	with Emergency Backup

Hanger Bars
for **Birch™**
Architectural
Frames

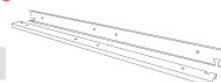
27" **Flat Hanger Bars**
for Wood Construction

CAT NO.	SPECIFICATIONS
FB27	Set of 2

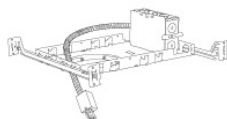


26" **C-Channel Hanger Bars**
for T-Bar Ceilings

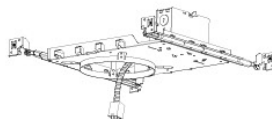
CAT NO.	SPECIFICATIONS
CH26	Set of 2



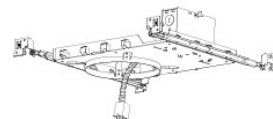
4", 6", & 8" Birch™ Plaster Frames



4" Plaster Commercial Frame
New Construction



6" Plaster Commercial Frame
New Construction



8" Plaster Commercial Frame
New Construction

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

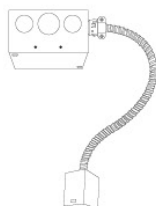
CAT NO.	SPECIFICATIONS
ELB6PF	Frame
ELB6PF-EM5	with Emergency Backup

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

Remodel & Retrofit Birch™ Applications

Remodel/Retrofit

CAT NO.	SPECIFICATIONS
ELBRMD	Remodel
ELBRMD-EM5	with Emergency Backup



Retrofit

CAT NO.	SPECIFICATIONS
ELBRT	Retrofit



Compatible Products

For use with **Birch™ LED Modules**



4", 6", & 8" Birch™ Twist-On Trims



4" Round Reflector



6" Round Reflector



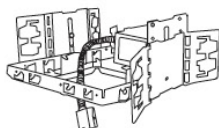
6" Round Adjustable Reflector



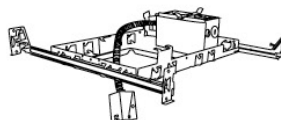
8" Round Reflector

CAT NO.	SPECIFICATIONS	CAT NO.	SPECIFICATIONS	CAT NO.	SPECIFICATIONS	CAT NO.	SPECIFICATIONS
ELB410W	All White	ELB610W	All White	ELB629W	All White	ELB810W	All White
ELB410BB	All Black	ELB610BB	All Black	ELB629B	All Black	ELB810H	All Haze
ELB410H	All Haze (Semi-Specular)	ELB610H	All Haze (Semi-Specular)	ELB629H	All Haze (Semi-Specular)		(Semi-Specular)
ELB410HW	Haze with White Trim	ELB610HW	Haze with White Trim		• Not compatible with ELB50R Module Series		

4" Birch™ Square Frames • Not compatible with ELB50R Module Series



4" Square Architectural Frame
New Construction



4" Square Plaster Frame
New Construction

CAT NO.	SPECIFICATIONS	CAT NO.	SPECIFICATIONS
ELB44SQEH	Architectural Frame	ELB44SQPF	Plaster Frame
ELB44SQEH-EM5	Emergency Backup	ELB44SQPF-EM5	Emergency Backup

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



4" Square Reflector Trim

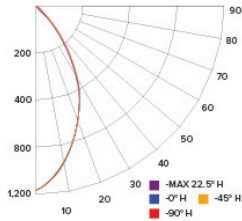
CAT NO.	SPECIFICATIONS
ELB440W	All White
ELB440H	All Haze
ELB440HW	Haze with White Trim
ELB440BB	All Black

Photometric Report

Birch™ Pro LED Module with 5-CCT Switch

PHOTOMETRIC REPORT

Product #: ELB15RCT5ICA (750 lm, 3000K)
Wattage / Lumens: 9.8W / 9071 lm
Luminaire LPW: 92.5 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	1137
5	1067
15	779
25	490
35	272
45	135
55	56
65	23
75	9
85	2
90	0

ILLUMINANCE AT A DISTANCE

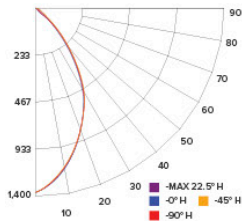
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	98.2	3.2'
6'	34.6	4.8'
8'	17.8	6.5'
10'	11.9	8.1'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	542.4	59.8
0-40°	709.4	78.2
0-60°	859.9	94.8
0-90°	894.5	98.6

PHOTOMETRIC REPORT

Product #: ELB15RCT5ICA (1000 lm, 3000K)
Wattage / Lumens: 12.1W / 1099.6 lm
Luminaire LPW: 90.8 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	1376
5	1289
15	937
25	589
35	327
45	163
55	67
65	27
75	11
85	2
90	0

ILLUMINANCE AT A DISTANCE

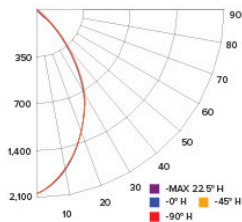
Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	119	3.2'
6'	41.8	4.8'
8'	21.5	6.5'
10'	14.4	8.2'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	656.6	59.7
0-40°	859.5	78.2
0-60°	1,042.2	94.8
0-90°	1,084.2	98.6

PHOTOMETRIC REPORT

Product #: ELB15RCT5ICA (1500 lm, 3000K)
Wattage / Lumens: 19.4W / 1626.5 lm
Luminaire LPW: 83.8 lm/W



CANDLE POWER SUMMARY

Degress Vertical	0°
0	2031
5	1893
15	1386
25	872
35	485
45	243
55	100
65	41
75	17
85	3
90	0

ILLUMINANCE AT A DISTANCE

Distance to Target Plane	Center Beam Footcandles	Beam Diameter
4'	175.6	3.2'
6'	61.7	4.8'
8'	31.7	6.5'
10'	21.3	8.2'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Luminaire
0-30°	969.9	59.6
0-40°	1,270.4	78.1
0-60°	1,541.4	94.8
0-90°	1,603.4	98.6



ELCO Lighting

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.

2042 E. Vernon Ave. Vernon CA 90058 Tel 323.231.2600 Fax 323.231.3200 elcolighting.com