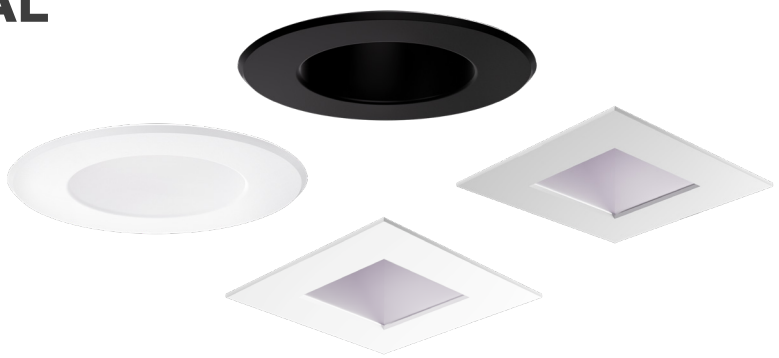
ELCO Lighting

Project Name:
Fixture Type:
Date:

4″, 6″, 8″ COMMERCIAL LED DOWNLIGHTS

5-CCT SWITCH: 10-20W, 2700K-5000K, 750-1500 lm
HIGH LUMEN: 21-50W, 2700K-5000K, 2000-5000 lm



THE BIRCH™ SYSTEM

The die-cast module houses powerful LED & driver technology to provide increased durability and outstanding illumination.

FEATURES

- 5-CCT Option: IC Rated for direct contact with insulation, for use in IC and Non-IC applications
- High Lumen Option: Non-IC for use in Non-IC applications
- Adjustable Focus Beam Angle allows for manual beam angle adjustment from 25˚ to 45˚ (5-CCT) & 22˚ to 50˚ (High Lumen)
- Life span of 50,000 hours L70
- Optional 90 minutes Emergency Battery Backup

SET UP

1. Select a Housing.
2. Select a Light Engine.
3. Select a Trim.



SPECIFICATIONS

Wattage	**5-CCT Option:** 10W / 12W / 20W **High Lumen Option:** 21W / 29W / 36W 35W / 45W / 50W
Lumens	**5-CCT Option:** 750 lm / 1000 lm / 1500 lm **High Lumen Option:** 2000 lm / 2500 lm / 3000 lm 3500 lm / 4200 lm / 5000 lm
Voltage	120/277V
Color Temp.	**5-CCT Option:** 27K, 30K, 35K, 40K, 50K **High Lumen Option:** 5-CCT Switch
CRI	90+
Damp Location	ETL Listed for adjustable trims
Wet Location	ETL Listed for fixed trims
Dimming	0-10V (5%)
Beam Angle	**5-CCT Option:** 25° to 45° **High Lumen Option:** 22° to 50°
Finishes	White Haze Haze/ White Black

2042 E. Vernon Ave., Vernon, CA 90058 • Tel (323) 231-2600 Fax (323) 231-3200 • elcolighting.com
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PRODUCT NUMBER BUILDER

✦ = ELCO's Choice

1. Specify housing part number

BIRCH™ HOUSINGS

HOUSINGS Example: ELB4EH-EM5

ITEM	SIZE		STYLE		OPTIONAL	
ELB						
ELB	**4**	4″ Round	**EH**[2]	Architectural Frame	**(Blank)**✦	No EM
	44SQ	4″ Square	**PF**✦	Plaster Frame	**-EM5**[3]	90 Minute EM Backup
	6✦	6″ Round	**RT**[1]✦	Retrofit		
	8	8″ Round	**RMD**[1]	Remodel/Retrofit		
	(Blank)[1]	Remodel/Retrofit				
	[1] Remodel & Retrofit work with all sizes.		[1] Remodel & Retrofit work with all sizes. [2] Not Available for 8″ Round Option **(8).** Requires larger bars, ordered separately.		[3] Not available for Retrofit option **(RT)**.	

✦ = ELCO's Choice

2. Specify light engine part number (Select one)

BIRCH™ LIGHT ENGINES

5-CCT SWITCH LED MODULE Example: ELB15RCT5ICA

ITEM	LUMENS		COLOR TEMP		IC AIRTIGHT	
ELB	**15R**		**CT5**		**ICA**	
ELB	**15R**	750 lm / 1000 lm / 1500 lm	**CT5**	5-CCT Switch	**ICA**	IC Rated

NON- IC HIGH LUMEN LED MODULE Example: ELB30RCT5

ITEM	LUMENS		COLOR TEMP	
ELB				
ELB	**30R**	2000 lm / 2500 lm / 3000 lm	**CT5**	5-CCT Switch
	50R[1]	3500 lm / 4200 lm / 5000 lm		
	[1] Not available for 4″ Fixed Reflector Option **(ELB410)** & 6″ Adjustable Reflector Option **(ELB629)**			

3. Specify trim part number

BIRCH™ TRIMS

ROUND TRIMS

ITEM	STYLE		FINISH	
ELB				
ELB	**410**	4″ Fixed Reflector	**W**✦	White
	610✦	6″ Fixed Reflector	**H**	Haze
	629	6″ Adjustable Reflector	**HW**[1,2]	Haze/White
	810	8″ Fixed Reflector	**BB**[1,3]	Black
			[1] Not available for 8″ Fixed Reflector Option **(810)** [2] Not available for 6″ Adjustable Reflector Option **(629)** [3] Black is denoted as **B** for 6″ Adjustable Reflector Option **(629)**	

SQUARE TRIMS

ITEM	FINISH	
ELB440		
ELB440	**W**✦	White
	H	Haze
	HW	Haze/White
	BB	Black

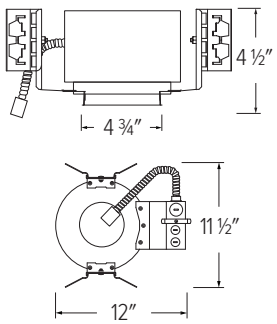
✦ = ELCO's Choice

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PRODUCT DIMENSIONS

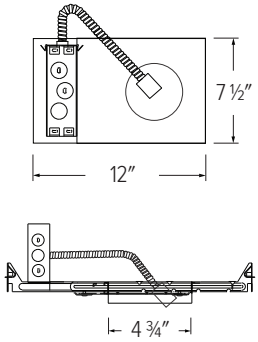
BIRCH™ ROUND HOUSINGS

ELB4EH
BIRCH™ 4″ NEW CONSTRUCTION ARCHITECTURAL FRAME



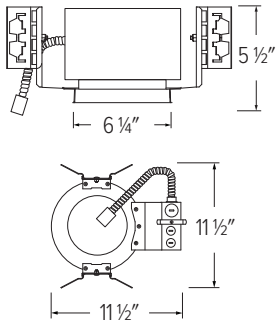


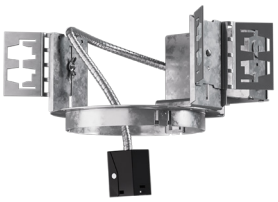
ELB4PF
BIRCH™ 4″ NEW CONSTRUCTION PLASTER FRAME



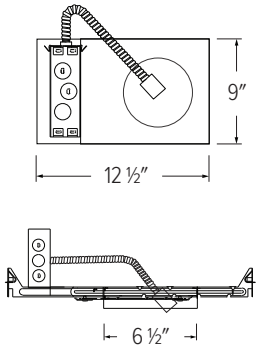


ELB6EH
BIRCH™ 6″ NEW CONSTRUCTION ARCHITECTURAL FRAME





ELB6PF
BIRCH™ 6″ NEW CONSTRUCTION PLASTER FRAME





Hanger Bars for Birch™ Architectural Frames

27″ Flat Hanger Bars for Wood Construction (Set of 2)

FB27

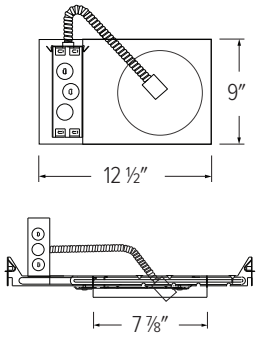


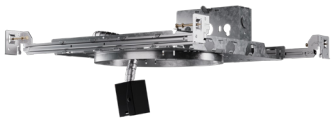
26″ C-Channel Hanger Bars for T-Bar Ceilings (Set of 2)

CH26



ELB8PF
BIRCH™ 8″ NEW CONSTRUCTION PLASTER FRAME



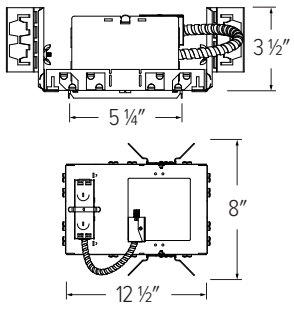


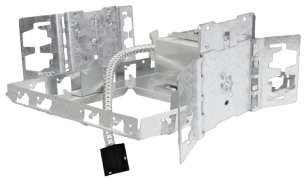
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PRODUCT DIMENSIONS

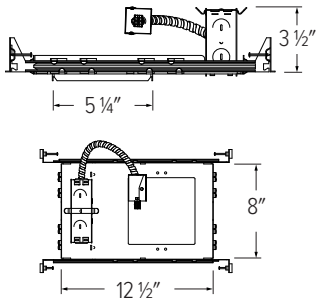
4″ BIRCH™ SQUARE HOUSINGS

ELB44SQEH
BIRCH™ 4″ SQUARE NEW CONSTRUCTION FRAME





ELB44SQPF
BIRCH™ 4″ SQUARE NEW CONSTRUCTION PLASTER FRAME





Hanger Bars for **Birch**™ Architectural Frames

27″ Flat Hanger Bars for Wood Construction (Set of 2)

FB27



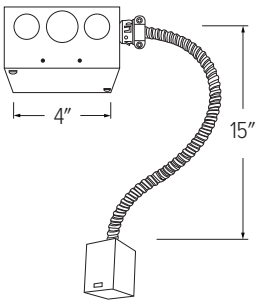
26″ C-Channel Hanger Bars for T-Bar Ceilings (Set of 2)

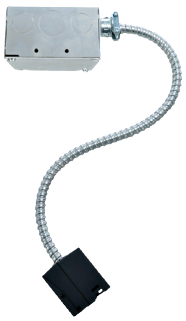
CH26



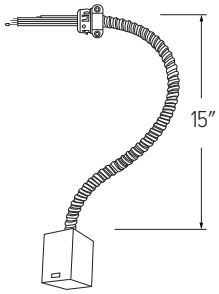
BIRCH™ RETROFIT HOUSINGS

ELBRMD
BIRCH™ REMODEL/RETROFIT





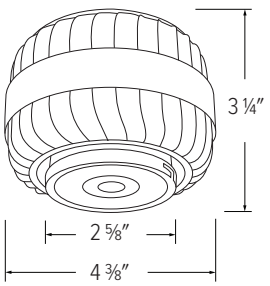
ELBRT
BIRCH™ RETROFIT





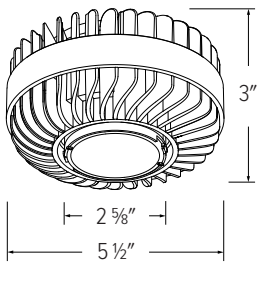
BIRCH™ LIGHT ENGINES

ELB15RCT5ICA - BIRCH™ PRO LED MODULE WITH 5-CCT SWITCH
ELB30RCT5 - BIRCH™ HIGH LUMEN LED MODULE





ELB50R - BIRCH™ HIGH LUMEN LED MODULE



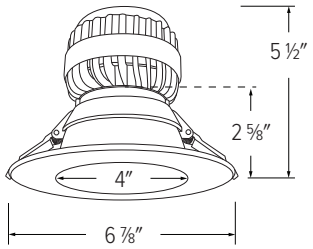


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PRODUCT DIMENSIONS

BIRCH™ ROUND TRIMS

ELB410 - 4″ ROUND REFLECTOR

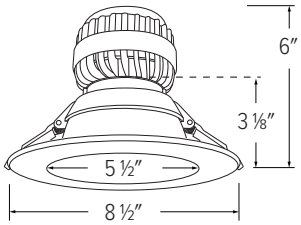






W (White) **H** (Haze) **HW** (Haze/White) **BB** (Black)

ELB610 - 6″ ROUND REFLECTOR

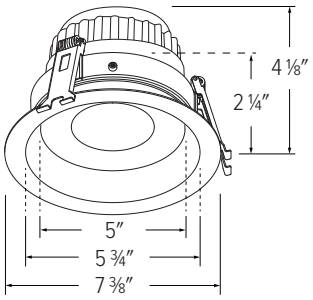






W (White) **H** (Haze) **HW** (Haze/White) **BB** (Black)

ELB629 - 6″ ROUND ADJUSTABLE

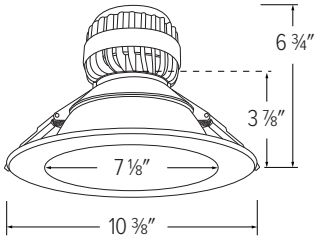






W (White) **H** (Haze) **BB** (Black)

ELB810 - 8″ ROUND REFLECTOR



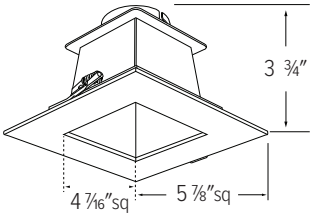




W (White) **H** (Haze)

BIRCH™ SQUARE TRIMS

ELB440 - 4″ SQUARE REFLECTOR



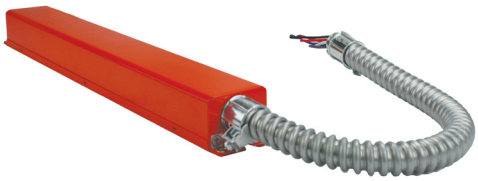
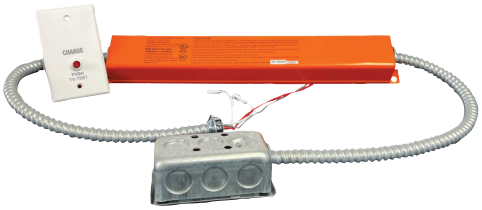




W (White) **H** (Haze) **HW** (Haze/White) **BB** (Black)

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EMERGENCY BATTERY BACKUP

KEM-LD5 EMERGENCY BATTERY BACKUP	**KEM-ERT** EMERGENCY BATTERY BACKUP
	
KEM-LD5 90 minutes of emergency operation. 0°C to 50°C operating temperature. Input: 120/277VAC, 50-60Hz, 25W Max Output: 170VDC during EM mode. ~120V AC (120VAC input) / ~277VAC (277VAC input) Charging time: 36 hours Compatible with ELB15RCT5ICA, ELB30R,ELB50R cUL listed California Title 20 Compliant	KEM-ERT 90 minutes of emergency operation. Input: 100-277VAC, 50/60Hz., 25W Max Output: 110 VAC Charging time: 36 hours Suitable for damp location cUL listed Compatible to Birch LED Modules (ELB15RCT5ICA & ELB30R), 3″ - 8″ Elm System Fixtures (ERT3, ERT4, ERT6, & ERT8 Series) & Canless Koto™ System

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TECHNICAL DETAILS

Optics: Frosted polycarbonate module lens diffuses light evenly throughout while reducing glare with LED technology. Adjustable beam angle with a twist of the lens.

Construction (Housing): Constructed from 16 gauge galvanized steel for large architectural applications.

Construction (Light Engine): Integrated driver and light engine with Encased Quick Connect. Diecast aluminum body with heat fins allow for efficient cooling.

Installation (Housing): Designed for commercial architectural buildings. Easily installed with hanger bars. Light engine installed into frame.

Installation (Remodel/Retrofit): Designed to be installed in existing holes for retrofitting less efficient lighting technologies.

Installation (Retrofit): : Designed to add Birch™ System downlighting to an existing commercial application with a junction box on site.

Installation (Light Engine): Twist-On design for tool-less trim installation, for use with Birch™ Trims. Can be used in 4″, 6″, and 8″ Commercial Frames and Remodel/Retrofit applications with Encase Quick Connect base. For use in IC and Non-IC applications.

Junction Box: Positioned to accommodate straight conduit runs. ½″ trade size conduit knockouts and pryout knockout slots for easy romex installation.

LED Technology: Extremely accurate Color Rendering Index of 93+ & 90+ for ELB30RCT5. 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.

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

Dimming: 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.

Emergency Battery Pack: Optional 90 minute battery pack available with test indicator switch. Note that double wall housings require Access From Above Ceiling for Battery Maintenance.

Listings: ETL Listed for Damp Location with Adjustable Trims. ETL Listed for Wet Location with Fixed Trims. Energy Star compliant.

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

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DIMMER COMPATIBILITY CHART

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
0-10V Type Dimmers			
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%
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	6161-W	5% - 100%
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	IP710-DLZ	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%

*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.

Integrating our lighting with your Smart Home System is a breeze. Simply check your Smart Home system for compatible smart switches and cross refrence that with our Dimming Compatibility Chart.

Once the switches are integrated with your Smart Home system your lights will be ready to go.

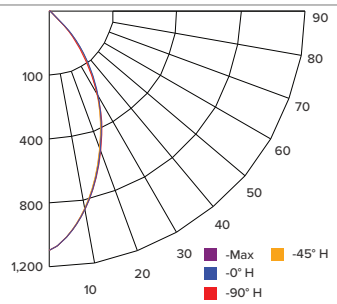
amazon alexa | Google Assistant | Apple HomeKit | INSTEON | LUTRON | wemo

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BIRCH™ LED MODULE

PHOTOMETRIC REPORT

Product: ELB15RCT5ICA (750lm, 3000K)
Wattage/Lumens: 9.8W / 907.1 lm
Luminare LPW: 92.5 lm/W



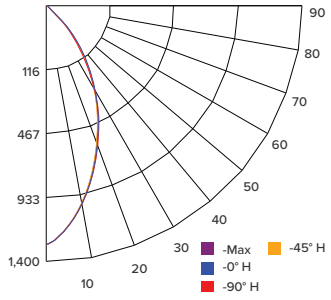
CANDLE POWER SUMMARY	
Degress Vertical	0°
0	1137
5	1067
15	779
25	490
35	272
45	135
55	56
65	23
75	9
85	2
90	0

ILLUMINANCE AT A DISTANCE		
Distance to Target Plane	Center Beam Footcandles	Beam Diemeter
5′	40.5	4.3′
7′	17.8	6.5′
10′	9.93	8.7′
13′	6.43	10.8′

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



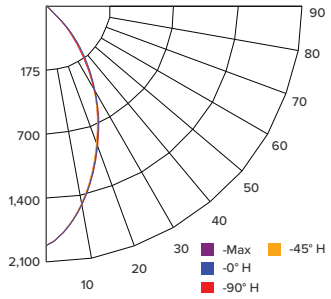
CANDLE POWER SUMMARY	
Degress Vertical	0°
0	1376
5	1289
15	937
25	589
35	327
45	163
55	67
65	27
75	11
85	2
90	0

ILLUMINANCE AT A DISTANCE		
Distance to Target Plane	Center Beam Footcandles	Beam Diemeter
5′	49.0	4.3′
7′	21.5	6.5′
10′	12.0	8.7′
13′	7.78	10.8′

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



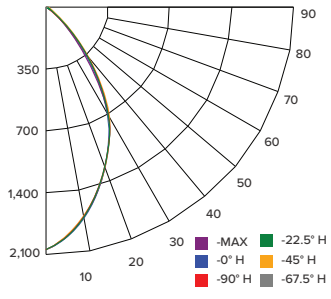
CANDLE POWER SUMMARY	
Degress Vertical	0°
0	2031
5	1893
15	1386
25	872
35	485
45	243
55	100
65	41
75	17
85	3
90	0

ILLUMINANCE AT A DISTANCE		
Distance to Target Plane	Center Beam Footcandles	Beam Diemeter
5′	72.3	4.3′
7′	31.7	6.5′
10′	17.7	8.7′
13′	11.5	10.8′

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

PHOTOMETRIC REPORT

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



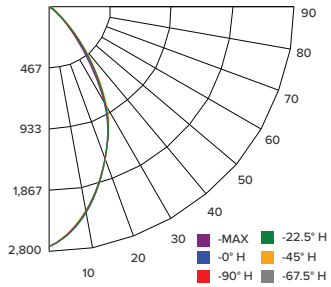
CANDLE POWER SUMMARY	
Degress Vertical	0°
0	2063
5	1957
15	1438
25	826
35	387
45	163
55	59
65	25
75	11
85	3
90	0

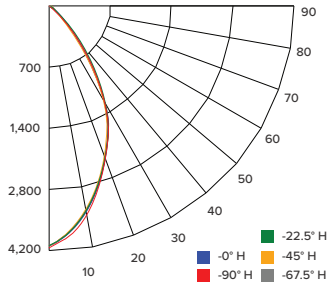
ILLUMINANCE AT A DISTANCE		
Distance to Target Plane	Center Beam Footcandles	Beam Diemeter
4′	178.2	3.1′
6′	62.7	4.7′
8′	32.2	6.4′
10′	21.6	7.9′

ZONAL LUMEN SUMMARY		
Zone	Lumens	%Luminaire
0-30°	963.3	65.8
0-40°	1,212.8	82.9
0-60°	1,401.5	95.8
0-90°	1,443.4	98.6

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BIRCH™ LED MODULE

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELB30R30 (2000 lm, 3000K) Wattage / Lumens: 18.8W / 1932 lm Luminaire LPW: 102.7 lm/W	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diemeter
	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′
	35	513	ZONAL LUMEN SUMMARY		
	45	217			
	55	79	Zone	Lumens	%Luminaire
	65	34			
	75	15	0-30°	1,268.3	65.7
	85	3	0-40°	1,599.2	82.8
	90	0	0-60°	1,850.1	95.8
			0-90°	1,905.4	98.6

PHOTOMETRIC REPORT	CANDLE POWER SUMMARY		ILLUMINANCE AT A DISTANCE		
Product #: ELB30R30 (3000 lm, 3000K) Wattage / Lumens: 32.6W / 2946.5 lm Luminaire LPW: 90.3 lm/W	Degress Vertical	0°	Distance to Target Plane	Center Beam Footcandles	Beam Diemeter
	0	1385	4′	315.5	3.2′
	5	1340	6′	123.9	4.8′
	15	931	8′	63.6	6.4′
	25	402	10′	42.7	8.0′
	35	112	ZONAL LUMEN SUMMARY		
	45	34			
	55	15	Zone	Lumens	%Luminaire
	65	8			
	75	4	0-30°	1,926.7	65.4
	85	1	0-40°	2,434.1	82.6
	90	0	0-60°	2,821.0	95.7
			0-90°	2,905.7	98.6

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