



Project	
Nomenclature	
Type	Date
Approval	
Notes	

The BLV is a narrow LED linear vapour proof fixture designed for surface and suspended mounting. It is well suited for indoor or outdoor use where there is a high probability of moisture and exposure to dust. Its unique, IP67 certified body makes it ideal in environments where vapour proof efficiency and performance are a factor. The fixture is rated for standard operation at temperatures as low as -30°C. For environments requiring even more extreme conditions, an optional upgrade rated for -40°C is available.

## Luminaire Summary

### Features

- Operating temperature ranges available from -40C to 35C
- L70 of 98,000+ hours, L90 of 30,000+ hours
- Standard 0 - 10V dimming
- Available in 2700K, 3000K, 3500K, 4000K, 5000K and 6500K

### Approvals

- ETL certified to UL Canada and United States standards
- Made with UL Listed components
- Wet Location Rated
- DLC Listed
- NEMA4X Rated
- IP67 Rated
- NSF Rated

### Mounting

- Brackets provided for surface and suspension mounting
- Pendant-mounting available

### Construction

- Manufactured in Ontario, Canada
- Fibreglass enclosure with neoprene gasket ensures a dust and water-resistant seal
- Nylon or stainless steel latches

### Electrical

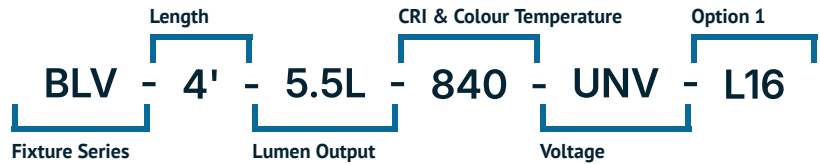
- Available in 120-277V, 120-347V, 347V and 480V

### Options

- IP66 Rated Motion Sensor Available
- Wireless Controls Available
- 90 and 95+ CRI Options Available
- 120-347V(UN3) Available
- -40C Option Available

## Ordering Information

Fill in the fields below with your product selections. If you need help with this section, [contact your local sales professional](#).



1	2	3	4	5
BLV				

Series	Length & Lumen Output		CRI	Colour Temp	Voltage
BLV	2' - 2.5L	(2353 lm)	8 - 80 CRI	27 - 2700K	UNV - 120-277V
	2' - 3.5L	(3294 lm)		30 - 3000K	UN3 - 120-347V
	2' - 4.5L	(4271 lm)	1 - 95+ CRI	35 - 3500K	347 - 347V
	4' - 2.5L	(2500 lm)		40 - 4000K	480 - 480V
	4' - 3.5L	(3500 lm)	50 - 5000K		
	4' - 4.5L	(4500 lm)	65 - 6500K		
	4' - 5.5L	(5500 lm)			
	4' - 6.5L	(6500 lm)			
	4' - 7.5L	(7250 lm)			
	4' - 8.5L	(8500 lm)			
	4' - 9.5L	(9500 lm)			
	4' - 10.5L	(10500 lm)			

## Options

### Lenses

L16	Ribbed Frosted Acrylic
L17	Ribbed Clear Acrylic
L26	Ribbed Clear Polycarbonate*
L61	Smooth Clear Acrylic
L63	Smooth Frosted Acrylic
L64	Ribbed Frosted Polycarbonate
L65	Smooth Clear Polycarbonate
L71	Smooth Frosted Polycarbonate

### Cords

W1xx	White 16/4 (Specify Length)
W2xx	Black 16/4 (Specify Length)
W3xx	White 16/3 (Specify Length)
W4xx	Black 16/3 (Specify Length)
W***	Other Options Available*

Key.	Cord Length.	Key	Cord Length
6	6FT	15	15FT
10	10FT	20	20FT

Ex. W406 would be 16/3 Black, 6FT

### Controls

WC19*	Avi-on Wireless Controls
WC**	Other Options Available*

### Motion Sensors

W30XXX	IP-Rated Motion Sensor (SBOR)
WX16	Internal Dimming Low Voltage Microwave Sensor
W**	Other Options Available*

### Dimming

B11	0-10V Dimming Leads
B12	Line Voltage Dimming
B27	Dim-to-off Driver
B**	Other Options Available*

### Emergency Driver

B17	UL924 10W Battery Back-up
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### Temperature Rating

BLANK	Standard
T0	-40C Cold Rated Components

### Packaging

BLANK	Individually Boxed on Pallets
P0	Bulk Packaging
P**	Other Options Available*

### Fasteners

BLANK	Standard White Nylon Latches
H4	Stainless Steel Latches

### Tamper Resistance

H9	Tamper Resistant Screws (Requires H4 Stainless Steel Latches)
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### Mounting

M2xx	V-Hanger with Aircraft Loop Cables
M3xx	Y-Toggle Aircraft Cables
M24	Single Pendant Mount(3/4 Hub)
M33	Dual-Pendant Mounting Bracket
M34	45° Mounting Brackets
M**	Other Options Available*

Key.	Aircraft Length.	Key	Aircraft Length
5	5FT	15	15FT
10	10FT	20	20FT

Ex. M305 would be Y-Toggle, 5FT

### Warranty

CL7	10-Year Comprehensive Warranty Upgrade
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## Documentation and Resources

All files and resources are available on our website for download. Files and resources are also embedded as links in this document, listed below. Additional files may be available upon request. Please contact your local sales agent [here](#) or contact [sales@bjtake.com](mailto:sales@bjtake.com) for more information.

- BLV - Installation Instructions
- BLV-4FT-2.5L
- BLV-4FT-3.5L
- BLV-4FT-4.5L
- BLV-4FT-5.5L
- BLV-4FT-6.5L
- BLV-4FT-7.5L
- BLV-4FT-8.5L
- BLV-4FT-9.5L
- BLV-4FT-10.5L
- BLV-4FT-11.5L
- BLV-8FT-5L
- BLV-8FT-7L
- BLV-8FT-9L
- BLV-8FT-11L
- BLV-8FT-13L
- BLV-8FT-15L
- BLV-8FT-17L
- BLV-8FT-19L
- BLV-8FT-21L
- BLV-8FT-23L

## Certifications and Listings

Certifications that apply to this fixture and its possible configurations are listed here. More information available upon request.

Icon	Description
	Wireless Controls Available
	DLC Listed
	ETL Listed
	NEMA4X Rated
	IP67 Rated
	NSF Rated
	90 and 95+ CRI Options Available
	120-347V(UN3) Available

## Usage Applications

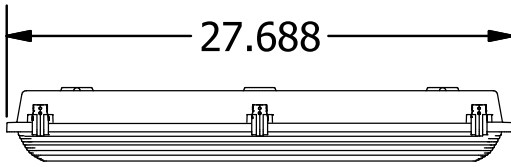
This fixture can be used in a variety of applications, and is ideal for the following:

Usage Application
Food Processing Plants
Manufacturing Facilities
Storage & Warehousing
Wash Bays And Wet Environments
Outdoor Parking Structures
Agricultural Barns

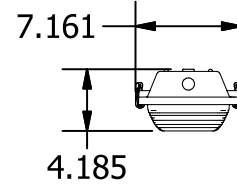
## Warranty Statement

BJ Take products are tested and/or inspected prior to being packaged for shipment and are guaranteed from the day the product is shipped for a period of ten-year LED chip warranty and a five-year comprehensive component warranty. This can be upgraded to a ten-year comprehensive warranty on request.

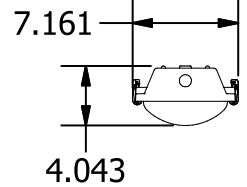
BLV, 2 Foot, Side Dims



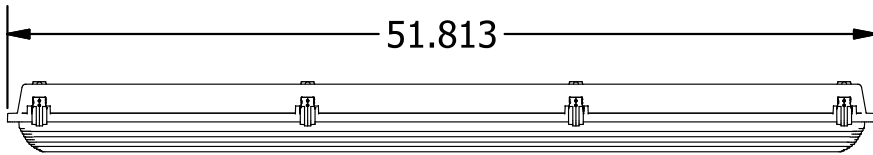
2FT L16/L17 Lens



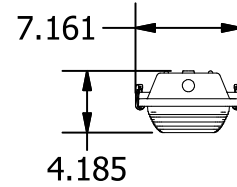
2FT L61/L63 Lens



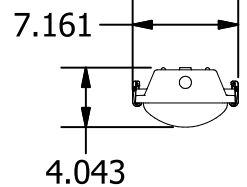
BLV, 4 Foot, Side Dims



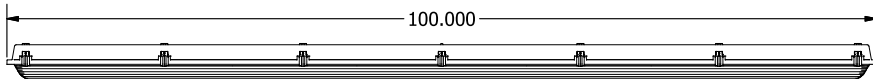
4FT L16/L17 Lens



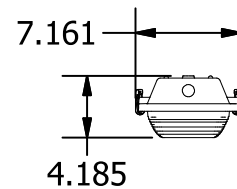
4FT L61/L63 Lens



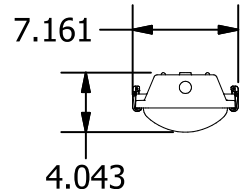
BLV, 8 Foot, Side Dims



8FT L16/L17 Lens



8FT L61/L63 Lens



- \* Drawings aren't to scale
- \* Standard tolerances apply
- \* Specifications may change without notice

### Important Information

Below you will find the available wattage charts for the **BLV 2', 4', and 8', with the L16 (Standard) Lens**. On the next page you will find the wattage tables for the L63 lens option. For any required specifications that are not listed, please contact our sales team at [sales@bjtake.com](mailto:sales@bjtake.com) to request any additional information.

### BLV, 2 Foot Wattage w/ L16 Lens

Size	Lumen Output	Actual Lumen Output	Fixture Wattage	Efficacy (lm/W)
2'	2.5L	2353	18.10	130.00
2'	3.5L	3294	24.83	132.66
2'	4.5L	4271	31.56	135.33

### BLV, 4 Foot Wattage w/ L16 Lens

Size	Lumen Output	Actual Lumen Output	Fixture Wattage	Efficacy (lm/W)
4'	2.5L	2337	17.70	132.03
4'	3.5L	3309	25.14	131.62
4'	4.5L	4274	32.58	131.18
4'	5.5L	5232	40.02	130.73
4'	6.5L	6184	47.46	130.30
4'	7.5L	7129	54.90	129.85
4'	8.5L	8068	62.34	129.42
4'	9.5L	9000	69.78	128.98
4'	10.5L	9926	77.22	137.44
4'	11.5L	10836	84.62	128.05

### BLV, 8 Foot Wattage w/ L16 Lens

Size	Lumen Output	Actual Lumen Output	Fixture Wattage	Efficacy (lm/W)
8'	5L	4698	35.35	132.90
8'	7L	6650	50.21	132.44
8'	9L	8589	65.07	132.00
8'	11L	10516	79.93	131.57
8'	13L	12430	94.79	131.13
8'	15L	14328	109.64	130.68
8'	17L	16215	124.50	130.24
8'	19L	18088	139.36	129.79
8'	21L	19948	154.22	129.35
8'	23L	21779	169.00	128.87

### BLV, 8 Foot Light Loss Factor (LLF) w/ L16 Lens

CCT	Output%
2700K	92.95
3000K	95.51
3500K	96.80
4000K	100.00
5000K	101.28
90CRI	84.72

### Important Information

Below you will find the available wattage charts for the **BLV 2', 4', and 8', with the L63 lens option**. On the previous page you will find the wattage tables for the L16 (standard) lens option. For any required specifications that are not listed, please contact our sales team at [sales@bjtake.com](mailto:sales@bjtake.com) to request any additional information.

### BLV, 2 Foot Wattage w/ L63 Lens

Size	Lumen Output	Actual Lumen Output	Fixture Wattage	Efficacy (lm/W)
2'	2.5L	2483	18.10	137.18
2'	3.5L	3476	24.83	139.99
2'	4.5L	4508	31.56	142.84

### BLV, 4 Foot Wattage w/ L63 Lens

Size	Lumen Output	Actual Lumen Output	Fixture Wattage	Efficacy (lm/W)
4'	2.5L	2467	17.70	139.38
4'	3.5L	3491	25.13	138.92
4'	4.5L	4508	32.56	138.45
4'	5.5L	5518	39.99	137.98
4'	6.5L	6521	47.42	137.52
4'	7.5L	7518	54.85	137.06
4'	8.5L	8507	62.28	136.59
4'	9.5L	9489	69.71	136.12
4'	10.5L	10465	77.14	135.66
4'	11.5L	11429	84.56	135.16

### BLV, 8 Foot Wattage w/ L63 Lens

Size	Lumen Output	Actual Lumen Output	Fixture Wattage	Efficacy (lm/W)
8'	5L	5200	35.35	147.10
8'	7L	7361	50.21	146.60
8'	9L	9507	65.07	146.10
8'	11L	11640	79.93	145.63
8'	13L	13757	94.79	145.13
8'	15L	15861	109.64	144.66
8'	17L	17948	124.50	144.16
8'	19L	20020	139.36	143.66
8'	21L	22081	154.22	143.18
8'	23L	24108	169.00	142.65

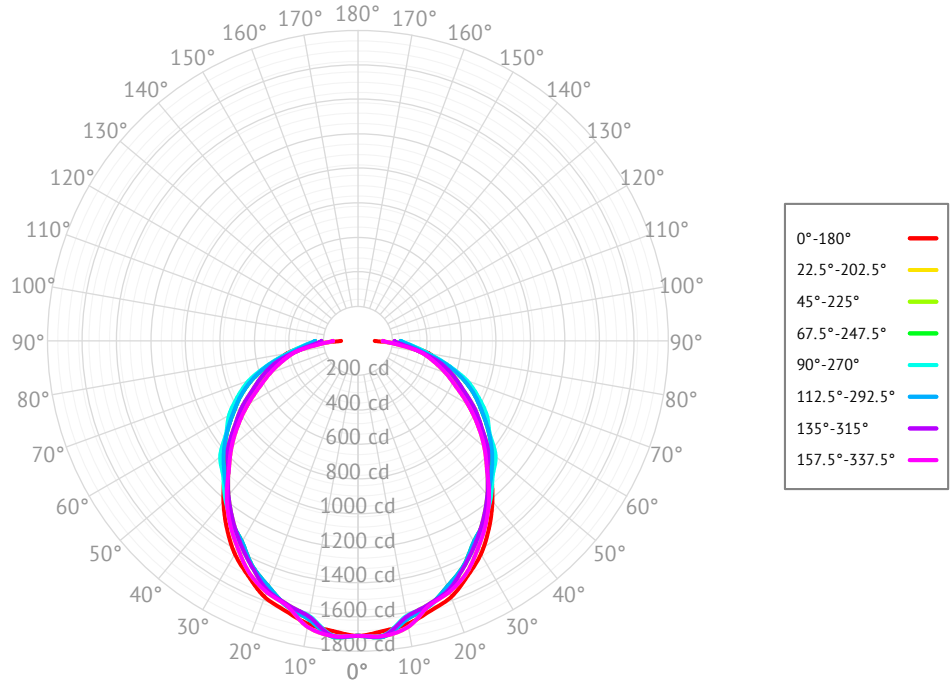
### BLV, 8 Foot Light Loss Factor (LLF) w/ L63 Lens

CCT	Output%
2700K	92.95
3000K	95.51
3500K	96.80
4000K	100.00
5000K	101.28
90CRI	84.72

## BLV-4FT-5.5L-840-L16

### Cone of Light

Mtg Height	Light Level	Beam Diameter
6.0 ft	47.5 fc	17.1 ft
8.0 ft	26.7 fc	22.9 ft
10.0 ft	17.1 fc	28.6 ft
12.0 ft	11.9 fc	34.3 ft
14.0 ft	8.7 fc	40.0 ft
16.0 ft	6.7 fc	45.7 ft

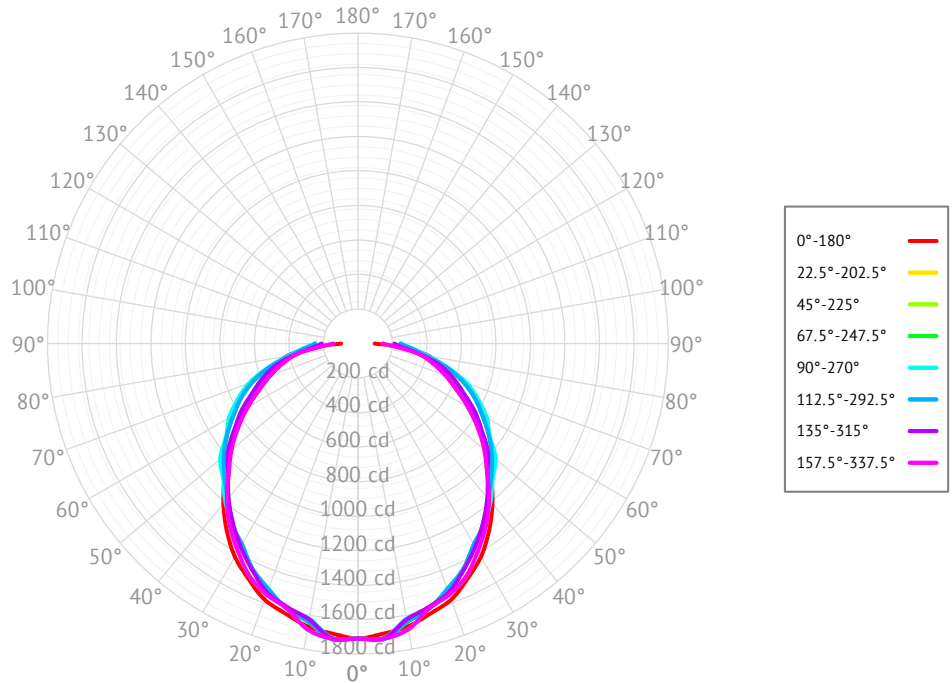


Based on BLV, 4 foot, 5500lm, 80 CRI, 4000K w/ L16 standard lens

## BLV-4FT-5.5L-840-L16

### Cone of Light

Mtg Height	Light Level	Beam Diameter
6.0 ft	47.5 fc	17.1 ft
8.0 ft	26.7 fc	22.9 ft
10.0 ft	17.1 fc	28.6 ft
12.0 ft	11.9 fc	34.3 ft
14.0 ft	8.7 fc	40.0 ft
16.0 ft	6.7 fc	45.7 ft

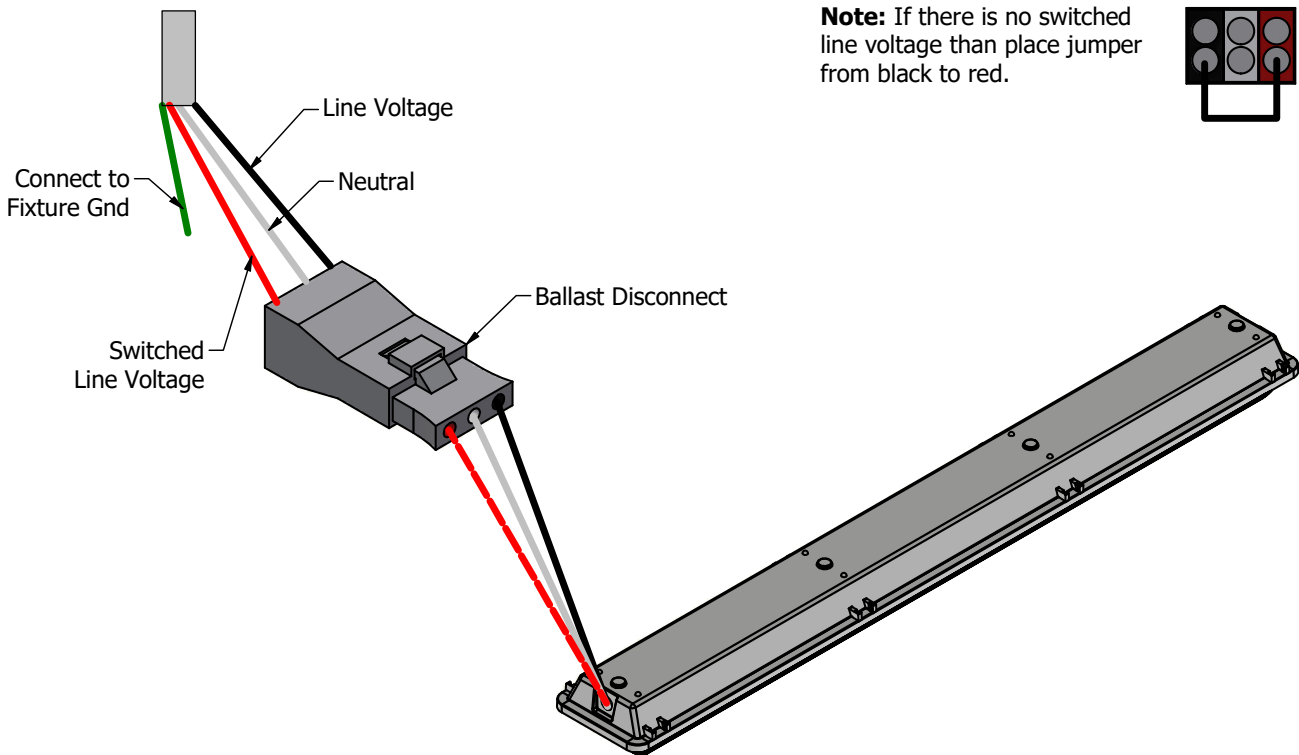


Based on BLV, 4 foot, 5500lm, 80 CRI, 4000K w/ L16 standard lens

### Emergency Battery Plan - 20W

Emergency Lighting	Solution System Components	System Operation
Option Code 'B17' - UL 924 listed components that are factory installed in the luminaire	UL 924 listed 20-watt battery integral to the luminaire	Loss of normal power is detected by the B17 emergency light solution and the power supply is switched automatically to the 20-watt integral battery pack which powers the emergency LED lighting driver.
	UL 924 listed LED emergency lighting driver integral to the luminaire	The battery pack and emergency LED driver are UL 924 certified to provide a minimum of 90-minutes of emergency lighting.
	Wiring options for both switched and unswitched emergency lighting	

### Emergency Lighting Wiring



### Important Information

More information on emergency lighting options and configurations available on request.



**Important Information**

The relevant protection category that specifies an enclosure's resistance to impacts and shocks is the IK code. The IK code classification is established using a standardized testing method in line with IEC 62262.

**IK Ratings**

IK Code	Impact Energy	Weight/Height
1	0.150 joules / 1.33 Inch #	.150kg : 100mm -- 3 15/16 Inch
2	0.200 joules / 1.77 Inch #	.150kg : 133mm -- 5 15/16 Inch
3	0.350 joules / 3.01 Inch #	.150kg : 250mm -- 9 27/32 Inch
4	0.500 joules / 4.43 Inch #	.150kg : 333mm -- 13 7/64 Inch
5	0.700 joules / 6.20 Inch #	.150kg : 500mm -- 19 11/16 Inch
6	1.00 joules / 8.85 Inch #	.500kg : 200mm -- 7 7/8 Inch
7	2.00 joules / 17.70 Inch #	.500kg : 400mm -- 15 3/4 Inch
8	5.00 joules / 44.25 Inch #	1.7kg : 300mm -- 11 13/16 Inch
9	10.00 joules / 88.51 Inch #	5kg : 200mm -- 7 7/8 Inch
10	20.00 joules / 177.01 Inch #	5kg : 400mm -- 15 3/4 Inch

**IK Ratings**

Criteria	SLP Lens	IK Rating Area 1	IK Rating Area 2	IK Rating Area 3
L17 - 2' Ribbed Clear Acrylic Lens	CT2-DIRA-2L2	8	7	7
L16 - 2' Ribbed Frosted Acrylic Lens	CT2-DIRA-2L2-FR50	9	9	9
L61 - 2' Smooth Clear Acrylic Lens	CT2-CP-2L2	10	10	10
L71 - 2' Smooth Frosted Polycarbonate Lens	CT2-CP-2L2-FR50	10	10	9
L64 - 2' Ribbed Frosted Polycarbonate Lens	CT2-DP-2L2-FR50	10	10	10
L64 - 2' Ribbed Frosted Polycarbonate Lens	CT2-DP-2L4-FR50	10	10	10
L17 - 4' Ribbed Clear Acrylic Lens	CT2-DIRA-2L4	9	9	9
L16 - 4' Ribbed Frosted Acrylic Lens	CT2-DIRA-2L4-FR50	9	9	9
L61 - 4' Smooth Clear Acrylic Lens	CT2-CIRA-2L4	10	10	10
L63 - 4' Smooth Frosted Acrylic Lens	CT2-CIRA-2L4-FR50	10	10	10
L65 - 4' Smooth Clear Polycarbonate Lens	CT2-CP-2L4	10	10	10
L71 - 4' Smooth Frosted Polycarbonate Lens	CT2-CP-2L4-FR50	10	10	9
L26 - 4' Ribbed Clear Polycarbonate Lens	CT2-DP-2L4	9	10	10
L17 - 8' Ribbed Clear Acrylic Lens	CT2-DIRA-2L8	9	10	10
L16 - 8' Ribbed Frosted Acrylic Lens	CT2-DIRA-2L8-FR50	9	10	10
L61 - 8' Smooth Clear Acrylic Lens	CT2-CIRA-2L8	10	10	10
L63 - 8' Smooth Frosted Acrylic Lens	CT2-CIRA-2L8-FR50	10	9	10
L65 - 8' Smooth Clear Polycarbonate Lens	CT2-CP-2L8	10	10	10
L71 - 8' Smooth Frosted Polycarbonate Lens	CT2-CP-2L8-FR50	10	10	10