

elite-opto

## LedsPark™ LED Garage Lighting

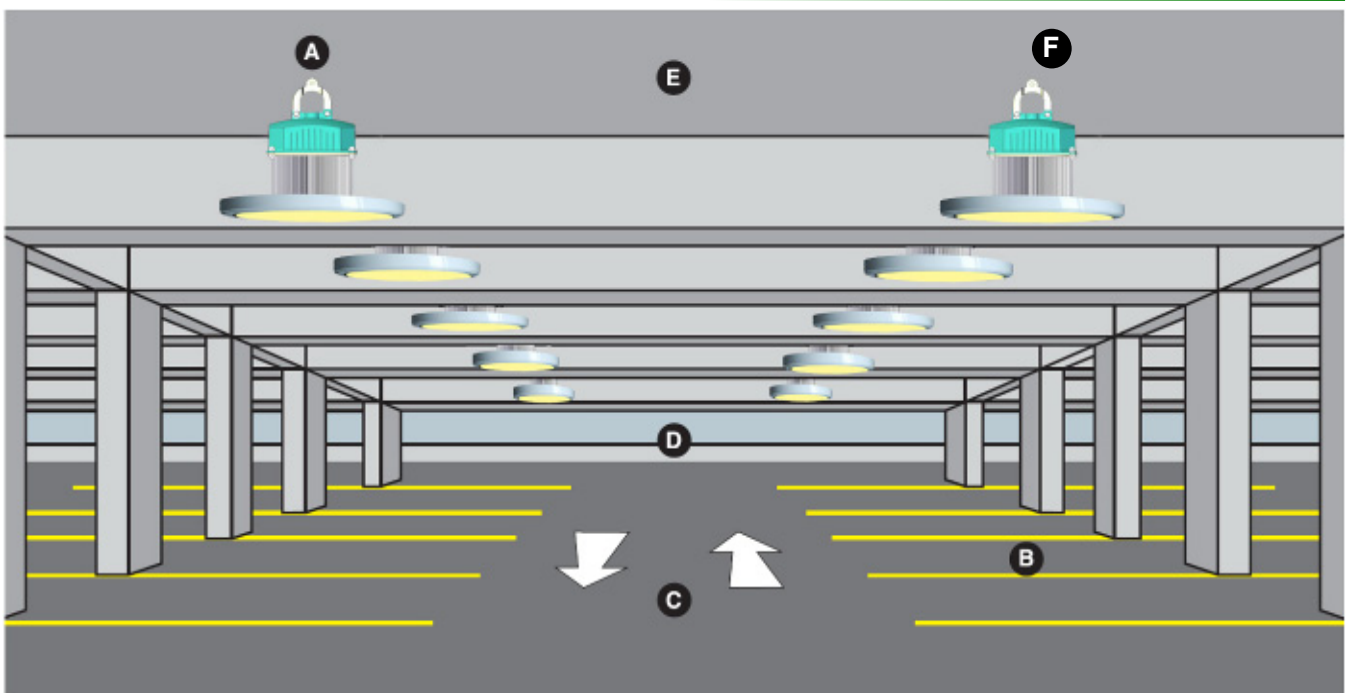
30W/60W/80W/100W LED Light, replacing 80W-250W HPS/HID



**E-Lite OptoTech**

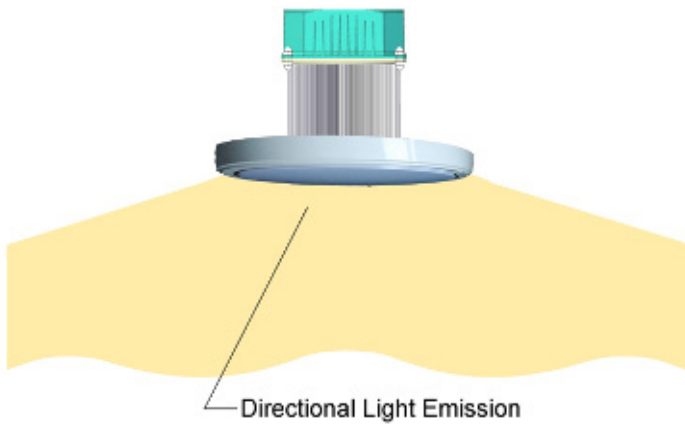
[www.elite-opto.com](http://www.elite-opto.com)

## Features



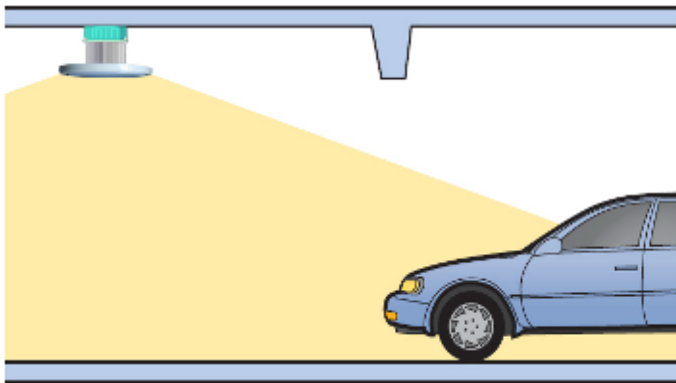
- A** 60% power saving, 90% reduction in greenhouse gas emission. Long lifetimes and highly reliable service, greatly reducing maintenance costs.
- B** For the safety and security of people entering and leaving their vehicles, and easy identification of open parking spaces for traffic flow, vertical illumination in the parking zones is required. This is best approached through direct high angle illumination, combined with ambient indirect lighting to reduce harsh shadows and contrast.
- C** LED's own cutoff light property provides high vertical illuminance with minimum glare.
- D** Visibility of the facility must provide an inviting appearance with no glare to surrounding properties. The combination of indirect illumination of the garage interior and cutoff optical control, provides the most attractive presentation from the exterior of the garage.
- E** Not affected by most vibrations and typical temperature variations.
- F** Various color temperatures available from "warm" to "cool" with high CRI providing high-quality lighting effect(2700K - 7000K).





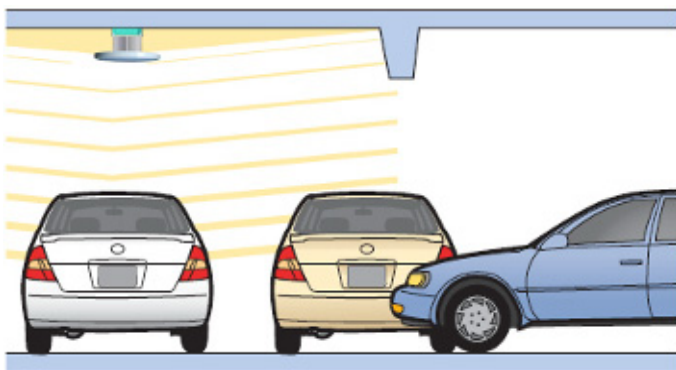
### **Superior Luminaire Efficiency:**

Comparing with conventional HPS, which emits combination of visible and invisible light with 360 degree beam angle, LED light emits 100% visible light to be fully projected towards the target. Thus, luminaire efficiency of LED light is 2.5 times to conventional HPS/HID. 30W LED bay light is equivalent to 80W fluorescent light or CFL, and 60W LED light is equivalent to 150W HPS or HID.



### **Cutoff Downlight:**

Directional lighting property of LED brings cutoff down light, which provides overall illumination with low glare. A balance of providing high vertical illuminance and drive lane comfort is accomplished by LED design that all light is projected to useful zones without any lose at unwanted area.

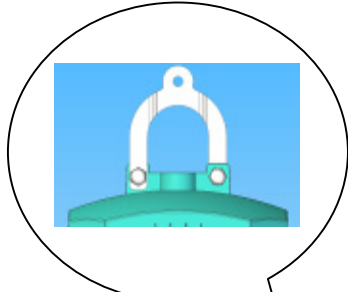


### **High Illuminance and High CRI:**

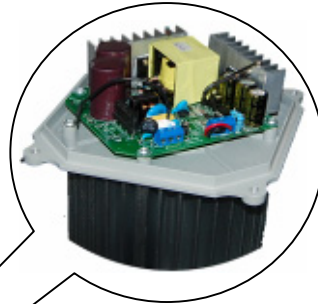
High vertical illuminance and high CRI of LED light improves visibility and provides a sense of security and safety.

# Configurations

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**Speed Mounting Design**

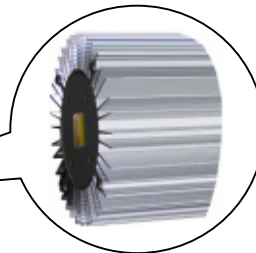


**Dedicated Power Driver**

- \*Input Voltage of wide range:  
110V - 277V
- \*Stable & Long Life

**Die Cast Housing**

**IP30 / IP54 Protection**



**Specially Designed Heat Sink**

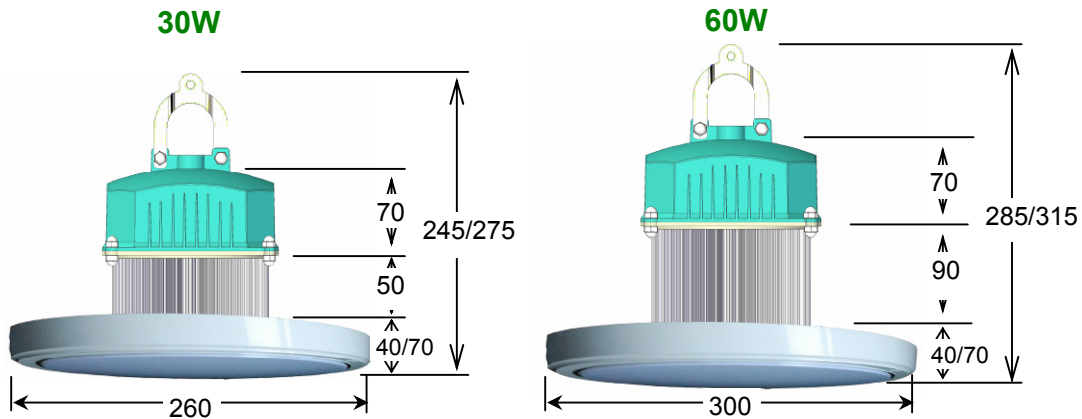
- \*Unique design with aluminum alloy ensures superior heat management.



**High Illuminance Integrated LED**

- \*Provides high illuminance of directional downlight.
- \*Cutoff down light provides overall illuminance with low glare.
- \*No light pollution or waste.
- \*50000 hours service life.

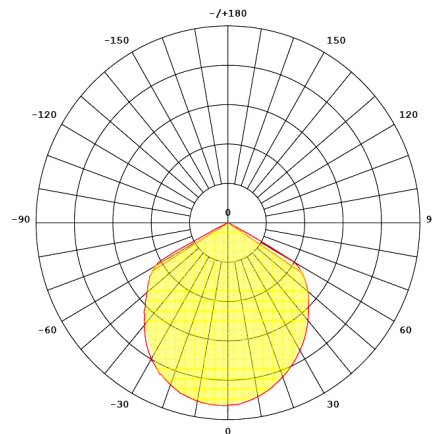
# Specifications



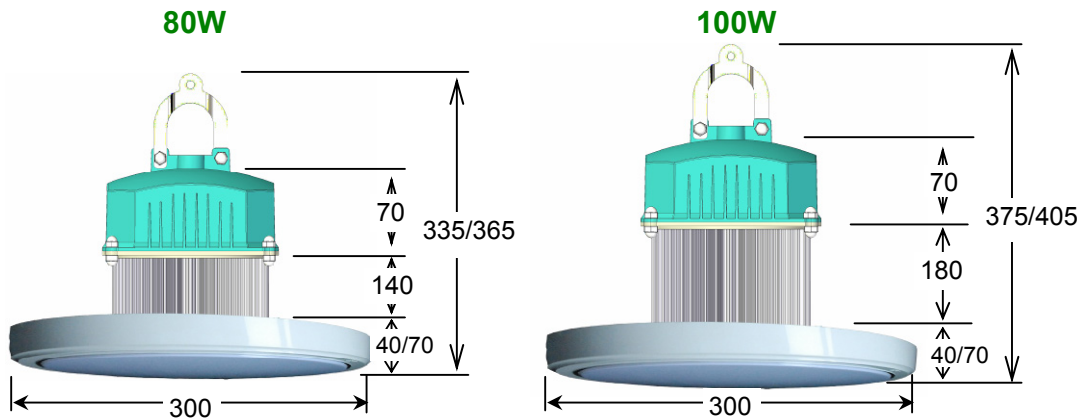
Specification	Product Code	
	EL-ID-30CP	EL-ID-60CP
Input Voltage	110V - 277V	110V - 277V
Power Frequency	50HZ - 60HZ	50HZ - 60HZ
Power Efficiency	>85%	>85%
LED Power Consumption	30W	60W
Power Factor(PF)	>95%	>95%
Max Input Amps	0.16	0.32
Total Harmonic Distortion	<15%	<15%
Luminaire Efficiency	80 lm/W	80 lm/W
Flux	2400 lm	4500 lm
Color Rendering Index(CRI)	Ra>80	Ra>80
Color Temperature	2700K - 7000K	2700K - 7000K
Beam Angle	120 Dgr	120Dgr
HPS/HID Equivalent	80W HPS/HID	180W HPS/HID
IP Rating	IP30/IP54	IP30/IP54
Working Ambient Temperature	-25 ~ +45°C	-25 ~ +45°C
Working Ambient Humidity	15% ~ 90%	15% ~ 90%
Lamp Fixture Material	Aluminum Alloy	Aluminum Alloy

## Light Distribution Polar Diagram

- \*Wide distribution with high illuminance intensity.
- \*Cutoff light control ensures brightness and low glare.



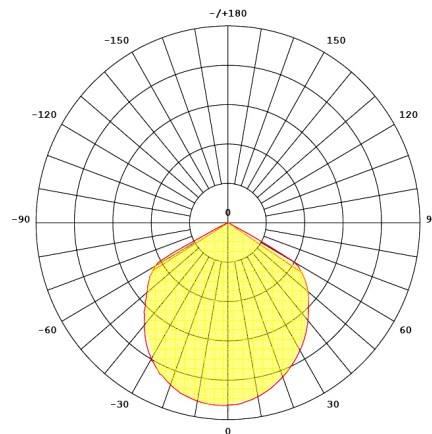
# Specifications



Specification	Product Code	
	EL-ID-80CP	EL-ID-100CP
Input Voltage	110V - 277V	110V - 277V
Power Frequency	50HZ - 60HZ	50HZ - 60HZ
Power Efficiency	>85%	>85%
LED Power Consumption	80W	100W
Power Factor(PF)	>95%	>95%
Max Input Amps	0.16	0.32
Total Harmonic Distortion	<15%	<15%
Luminaire Efficiency	75 lm/W	72 lm/W
Flux	6000 lm	7200 lm
Color Rendering Index(CRI)	Ra>80	Ra>80
Color Temperature	2700K - 7000K	2700K - 7000K
Beam Angle	120 Dgr	120Dgr
HPS/HID Equivalent	200W HPS/HID	250W HPS/HID
IP Rating	IP30/IP54	IP30/IP54
Working Ambient Temperature	-25 ~ +45°C	-25 ~ +45°C
Working Ambient Humidity	15% ~ 90%	15% ~ 90%
Lamp Fixture Material	Aluminum Alloy	Aluminum Alloy

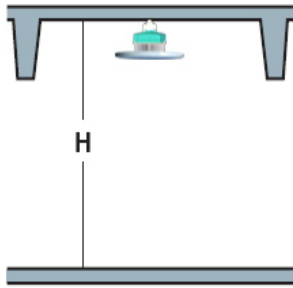
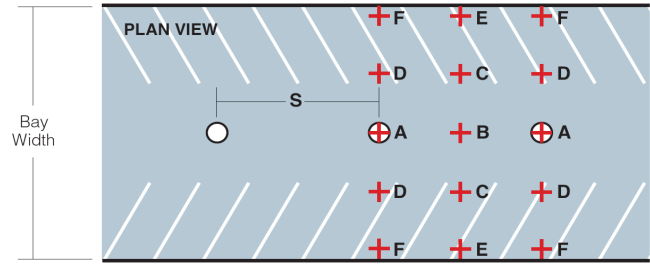
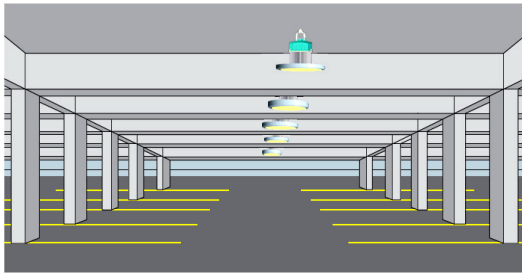
## Light Distribution Polar Diagram

- \*Wide distribution with high illuminance intensity.
- \*Cutoff light control ensures brightness and low glare.



# Design for Single Row Per Bay with 60W LED Garage Light

NOTE: Contributions from adjacent bays included in areas shown.

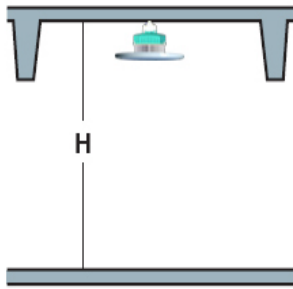
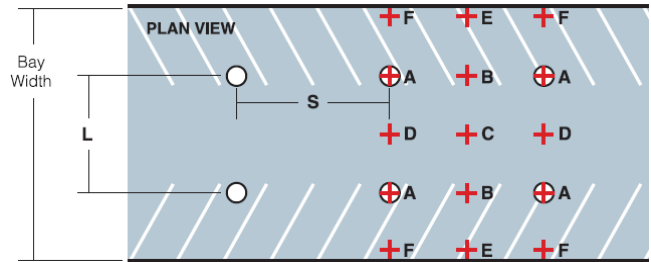
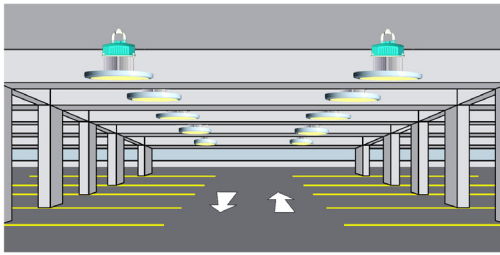


Bay Width	Fixture Mounting Height <b>H</b>	Fixture Spacing <b>S</b>	Maintained Horizontal Footcandles on Deck						Maintained Average Fc
			A	B	C	D	E	F	
55'	8'	15'	38.42	28.00	14.00	13.78	5.00	4.88	14.50
		30'	26.32	11.76	6.69	7.02	2.28	2.52	8.04
	9'	15'	31.47	25.98	13.78	13.78	6.93	6.84	14.19
		30'	21.28	9.78	7.28	6.44	3.30	3.49	7.53
	10'	15'	26.88	24.64	13.33	13.89	8.98	8.75	14.22
		30'	18.26	8.39	7.31	6.47	4.24	4.39	7.43
	12'	15'	25.98	32.82	16.24	16.46	4.37	4.41	13.98
		30'	11.31	14.45	7.36	8.89	1.89	2.28	6.69
14'	15'	22.85	26.54	16.80	17.58	6.84	6.83	14.48	
	30'	9.33	12.99	8.42	8.69	2.91	3.47	6.87	
60'	8'	15'	38.30	28.00	12.54	12.43	3.49	3.45	13.35
		30'	26.32	11.65	5.82	6.52	1.61	1.76	7.49
	9'	15'	31.14	25.76	12.77	12.77	5.08	5.01	12.98
		30'	21.50	9.82	6.59	6.05	2.41	2.55	7.01
	10'	15'	26.54	24.42	12.32	12.77	6.80	6.70	12.91
		30'	18.37	8.34	6.72	5.84	3.27	3.34	6.78
	12'	15'	25.87	32.70	14.45	14.34	3.15	3.09	12.62
		30'	11.31	14.34	6.23	7.76	1.29	1.51	5.94
14'	15'	22.62	26.21	15.12	15.46	4.75	4.75	12.81	
	30'	9.25	12.99	7.47	7.55	1.99	2.28	5.98	

**60W LED Garage Light** emits 4,500 lumens light, equivalent to 150W conventional HPS/HID. 150W HPS/HID will emit 15,000 lumens light, in which only 60% light is visible while 50% light could be projected to wanted area, i.e. only 4,500 lumens from 150W HPS/HID is usefull

# Design for Double Row Per Bay with 60W LED Garage Light

**NOTE:** Contributions from adjacent bays included in areas shown.

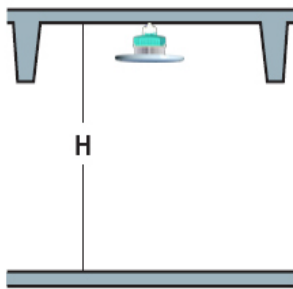
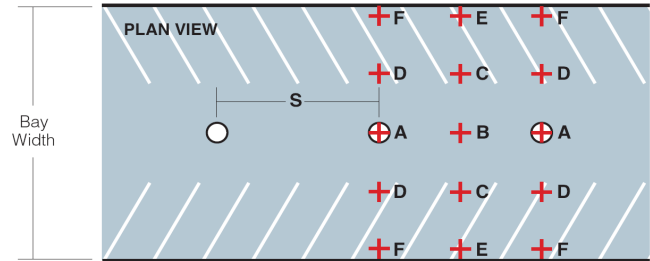
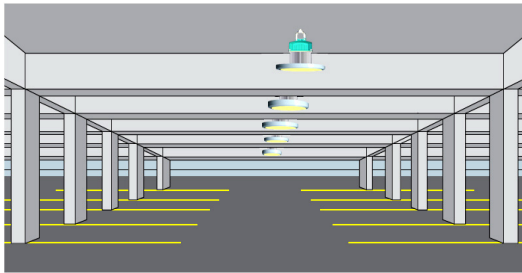


Bay Width	Fixture Mounting Height H	Fixture Spacing		Maintained Horizontal Footcandles on Deck						Maintained Average Fc	
		L	S	A	B	C	D	E	F		
55'	8'	27.5'	15'	40.54	40.10	29.01	28.67	29.01	28.67	33.43	
		27.5'	30'	26.54	14.11	12.66	16.02	12.66	16.13	17.89	
	9'	27.5'	15'	34.50	33.94	27.33	27.66	27.33	27.66	30.22	
		27.5'	30'	22.74	14.34	14.22	16.02	14.11	16.02	17.19	
	10'	27.5'	15'	33.15	32.82	28.22	29.12	28.11	29.12	30.49	
		27.5'	30'	20.61	15.12	14.90	16.69	14.90	16.69	17.17	
		12'	27.5'	15'	30.58	37.41	32.82	33.26	32.70	33.15	32.96
			27.5'	30'	13.89	16.58	15.01	18.03	15.01	18.03	16.13
14'	27.5'	15'	29.79	33.49	33.82	35.28	33.71	35.17	33.23		
	27.5'	30'	13.33	16.46	17.36	17.92	17.25	17.81	16.34		
60'	8'	30'	15'	39.09	38.64	25.31	25.42	25.31	25.42	30.81	
		30'	30'	25.65	13.55	11.05	14.34	11.05	14.34	16.59	
	9'	30'	15'	35.17	34.61	26.99	26.77	26.99	26.77	30.09	
		30'	30'	21.62	13.44	12.77	14.00	12.77	14.00	15.71	
	10'	30'	15'	33.49	33.04	27.55	28.00	27.55	28.00	30.05	
		30'	30'	19.49	14.00	13.55	14.45	13.55	14.45	15.53	
	12'	30'	15'	29.23	35.95	29.01	28.90	29.01	28.90	29.94	
		30'	30'	13.22	16.02	12.88	16.02	12.88	16.02	14.64	
	14'	30'	15'	22.62	26.21	15.12	15.46	4.76	4.75	12.81	
		30'	30'	11.98	15.46	15.46	15.68	15.46	15.57	14.6	

**60W LED Garage Light** emits 4,500 lumens light, equivalent to 150W conventional HPS/HID. 150W HPS/HID will emit 15,000 lumens light, in which only 60% light is visible while 50% light could be projected to wanted area, i.e. only 4,500 lumens from 150W HPS/HID is usefull.

# Design for Single Row Per Bay with 80W LED Garage Light

NOTE: Contributions from adjacent bays included in areas shown.

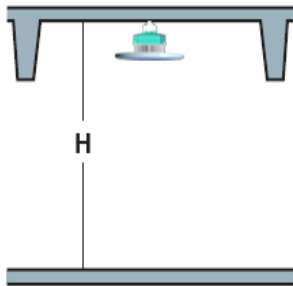
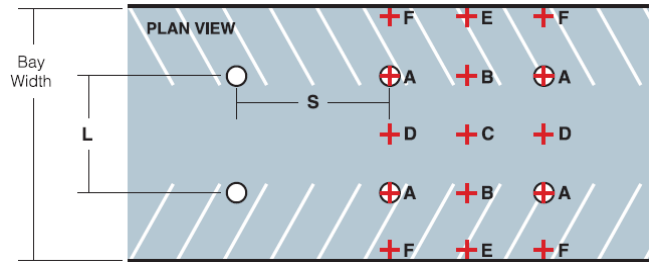
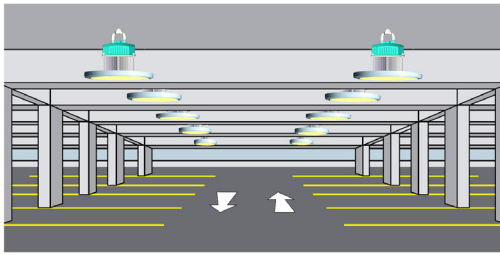


Bay Width	Fixture Mounting Height H	Fixture Spacing S	Maintained Horizontal Footcandles on Deck						Maintained Average Fc
			A	B	C	D	E	F	
55'	8'	15'	49.95	36.40	18.20	17.91	6.50	6.34	18.85
		30'	34.22	15.29	8.70	9.13	2.96	3.28	10.45
	9'	15'	40.91	33.77	17.91	17.91	9.01	8.89	18.45
		30'	27.66	12.71	9.46	8.37	4.29	4.54	9.79
	10'	15'	34.94	32.03	17.33	18.06	11.67	11.38	18.49
		30'	23.74	10.91	9.50	8.41	5.51	5.71	9.66
	12'	15'	33.77	42.67	21.11	21.40	5.68	5.73	18.17
		30'	14.70	18.79	9.57	11.56	2.46	2.96	8.70
14'	15'	29.71	34.50	21.84	22.85	8.89	8.88	18.82	
	30'	12.13	16.89	10.95	11.30	3.78	4.51	8.93	
60'	8'	15'	49.79	36.40	16.30	16.16	4.54	4.49	17.36
		30'	34.22	15.15	7.57	8.48	2.09	2.29	9.74
	9'	15'	40.48	33.49	16.60	16.60	6.60	6.51	16.87
		30'	27.95	12.77	8.57	7.87	3.13	3.32	9.11
	10'	15'	34.50	31.75	16.02	16.60	8.84	8.71	16.78
		30'	23.88	10.84	8.74	7.59	4.25	4.34	8.81
	12'	15'	33.63	42.51	18.79	18.64	4.10	4.02	16.41
		30'	14.70	18.64	8.10	10.09	1.68	1.96	7.72
14'	15'	29.41	34.07	19.66	20.10	6.18	6.18	16.65	
	30'	12.03	16.89	9.71	9.82	2.59	2.96	7.77	

**80W LED Garage Light** emits 6,000 lumens light, equivalent to 200W conventional HPS/HID. 200W HPS/HID will emit 20,000 lumens light, in which only 60% light is visible while 50% light could be projected to wanted area, i.e. only 6,000 lumens from 200W HPS/HID is usefull

# Design for Double Row Per Bay with 80W LED Garage Light

**NOTE:** Contributions from adjacent bays included in areas shown.

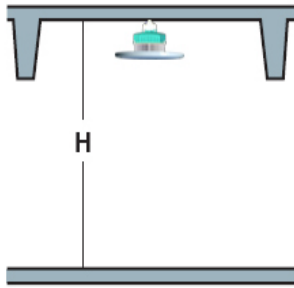
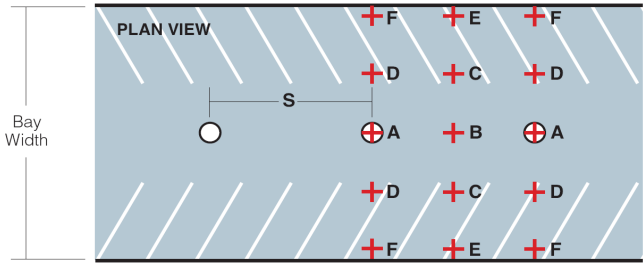
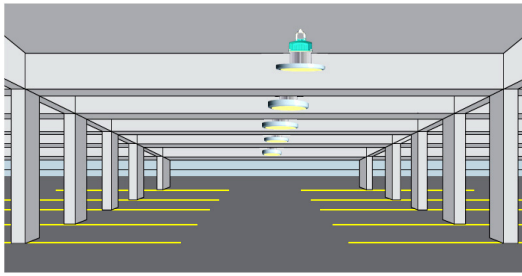


Bay Width	Fixture Mounting Height H	Fixture Spacing		Maintained Horizontal Footcandles on Deck						Maintained Average Fc	
		L	S	A	B	C	D	E	F		
55'	8'	27.5'	15'	52.70	52.13	37.71	37.27	37.71	37.27	43.46	
		27.5'	30'	34.50	18.34	16.46	20.83	16.46	20.97	23.26	
	9'	27.5'	15'	44.85	44.12	35.53	35.96	35.53	35.96	39.29	
		27.5'	30'	29.56	18.64	18.49	20.83	18.34	20.83	22.35	
	10'	27.5'	15'	43.10	42.67	36.69	37.86	36.54	37.86	39.64	
		27.5'	30'	26.79	19.66	19.37	21.70	19.37	21.70	22.32	
		12'	27.5'	15'	39.75	48.63	42.67	43.24	42.51	43.10	42.85
			27.5'	30'	18.06	21.55	19.51	23.44	19.51	23.44	20.97
14'	27.5'	15'	38.73	43.54	43.97	45.86	43.82	45.72	43.2		
		30'	17.33	21.40	22.57	23.30	22.43	23.15	21.24		
	8'	30'	15'	50.82	50.23	32.90	33.05	32.90	33.05	40.05	
		30'	30'	33.35	17.62	14.37	18.64	14.37	18.64	21.57	
60'	9'	30'	15'	45.72	44.99	35.09	34.80	35.09	34.80	39.12	
		30'	30'	28.11	17.47	16.60	18.20	16.60	18.20	20.42	
	10'	30'	15'	43.54	42.95	35.82	36.40	35.82	36.40	39.07	
		30'	30'	25.34	18.20	17.62	18.79	17.62	18.79	20.19	
	12'	30'	15'	38.00	46.74	37.71	37.57	37.71	37.57	38.92	
		30'	30'	17.19	20.83	16.74	20.83	16.74	20.83	19.03	
	14'	30'	15'	29.41	34.07	19.66	20.10	6.19	6.18	16.65	
		30'	30'	15.57	20.10	20.1	20.38	20.10	20.24	18.98	

**80W LED Garage Light** emits 6,000 lumens light, equivalent to 200W conventional HPS/HID. 200W HPS/HID will emit 20,000 lumens light, in which only 60% light is visible while 50% light could be projected to wanted area, i.e. only 6,000 lumens from 200W HPS/HID is usefull.

# Design for Single Row Per Bay with 100W LED Garage Light

NOTE: Contributions from adjacent bays included in areas shown.

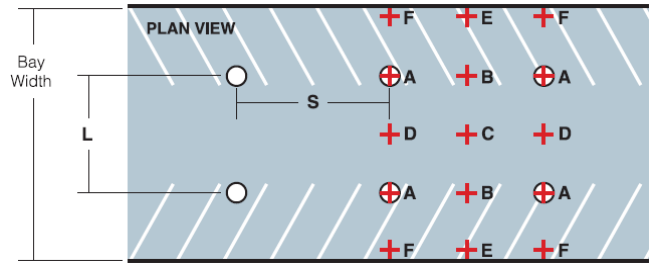
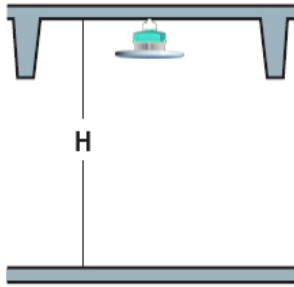
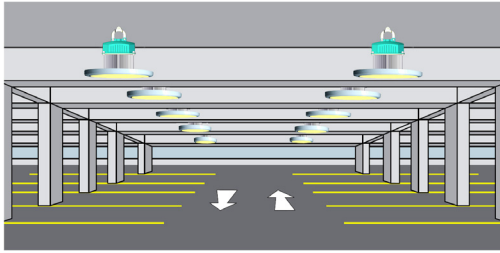


Bay Width	Fixture Mounting Height H	Fixture Spacing S	Maintained Horizontal Footcandles on Deck						Maintained Average Fc
			A	B	C	D	E	F	
55'	8'	15'	59.94	43.68	21.84	21.49	7.80	7.61	22.62
		30'	41.06	18.35	10.44	10.96	3.55	3.94	12.54
	9'	15'	49.09	40.52	21.49	21.49	10.81	10.67	22.14
		30'	33.19	15.25	11.35	10.04	5.15	5.45	11.75
	10'	15'	41.93	38.44	20.80	21.67	14.00	13.66	22.19
		30'	28.49	13.09	11.40	10.09	6.61	6.85	11.59
	12'	15'	40.52	51.20	25.33	25.68	6.82	6.88	21.80
		30'	17.64	22.55	11.48	13.87	2.95	3.55	10.44
14'	15'	35.65	41.40	26.21	27.42	10.67	10.66	22.58	
	30'	14.56	20.27	13.14	13.56	4.54	5.41	10.72	
60'	8'	15'	59.75	43.68	19.56	19.39	5.45	5.39	20.83
		30'	41.06	18.18	9.08	10.18	2.51	2.75	11.69
	9'	15'	48.58	40.19	19.92	19.92	7.92	7.81	20.24
		30'	33.54	15.32	10.28	9.44	3.76	3.98	10.93
	10'	15'	41.40	38.10	19.22	19.92	10.61	10.45	20.14
		30'	28.66	13.01	10.49	9.11	5.10	5.21	10.57
	12'	15'	40.36	51.01	22.55	22.37	4.92	4.82	19.69
		30'	17.64	22.37	9.72	12.11	2.02	2.35	9.26
	14'	15'	35.29	40.88	23.59	24.12	7.42	7.42	19.98
		30'	14.44	20.27	11.65	11.78	3.11	3.55	9.32

**100W LED Garage Light** emits 7,200 lumens light, equivalent to 250W conventional HPS/HID. 250W HPS/HID will emit 25,000 lumens light, in which only 60% light is visible while 50% light could be projected to wanted area, i.e. only 7,500 lumens from 250W HPS/HID is usefull

# Design for Double Row Per Bay with 100W LED Garage Light

**NOTE:** Contributions from adjacent bays included in areas shown.

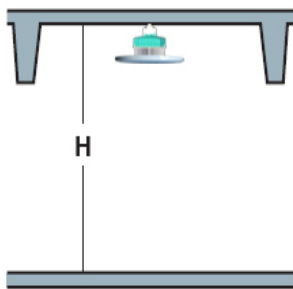
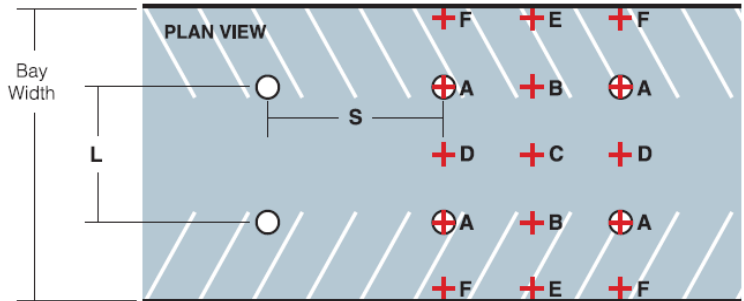
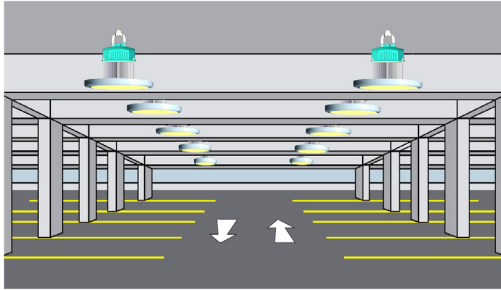


Bay Width	Fixture Mounting Height H	Fixture Spacing		Maintained Horizontal Footcandles on Deck						Maintained Average Fc	
		L	S	A	B	C	D	E	F		
55'	8'	27.5'	15'	63.24	62.56	45.25	44.72	45.25	44.72	52.15	
		27.5'	30'	41.40	22.01	19.75	25.00	19.75	25.16	27.91	
	9'	27.5'	15'	53.82	52.94	42.64	43.15	42.64	43.15	47.15	
		27.5'	30'	35.47	22.37	22.19	25.00	22.01	25.00	26.82	
	10'	27.5'	15'	51.72	51.20	44.03	45.43	43.85	45.43	47.57	
		27.5'	30'	32.15	23.59	23.24	26.04	23.24	26.04	26.78	
		12'	27.5'	15'	47.70	58.36	51.20	51.89	51.01	51.72	51.42
			27.5'	30'	21.67	25.86	23.41	28.13	23.41	28.13	25.16
14'	27.5'	15'	46.48	52.25	52.76	55.03	52.58	54.86	51.84		
	27.5'	30'	20.80	25.68	27.08	27.96	26.92	27.78	25.49		
	8'	30'	15'	60.98	60.28	39.48	39.66	39.48	39.66	48.06	
		30'	30'	40.02	21.14	17.24	22.37	17.24	22.37	25.88	
60'	9'	30'	15'	54.86	53.99	42.11	41.76	42.11	41.76	46.94	
		30'	30'	33.73	20.96	19.92	21.84	19.92	21.84	24.5	
	10'	30'	15'	52.25	51.54	42.98	43.68	42.98	43.68	46.88	
		30'	30'	30.41	21.84	21.14	22.55	21.14	22.55	24.23	
	12'	30'	15'	45.60	56.09	45.25	45.08	45.25	45.08	46.7	
		30'	30'	20.63	25.00	20.09	25.00	20.09	25.00	22.84	
	14'	30'	15'	35.29	40.88	23.59	24.12	7.43	7.42	19.98	
		30'	30'	18.68	24.12	24.12	24.46	24.12	24.29	22.78	

**100W LED Garage Light** emits 7,200 lumens light, equivalent to 250W conventional HPS/HID. 250W HPS/HID will emit 25,000 lumens light, in which only 60% light is visible while 50% light could be projected to wanted area, i.e. only 7,500 lumens from 250W HPS/HID is usefull.

# Design for Double Row Per Bay with 30W LED Garage Light

**NOTE:** Contributions from adjacent bays included in areas

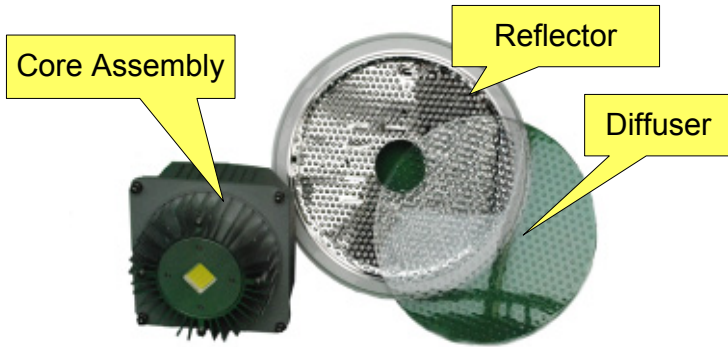


Bay Width	Fixture Mounting Height <b>H</b>	Fixture Spacing		Maintained Horizontal Footcandles on Deck						Maintained Average Fc
		<b>L</b>	<b>S</b>	A	B	C	D	E	F	
55'	8'	27.5'	15'	21.05	12.32	7.58	7.65	7.61	7.70	11.83
		27.5'	30'	16.59	3.98	3.15	4.35	3.13	4.36	7.31
	9'	27.5'	15'	16.68	10.86	7.22	7.27	7.17	7.23	10.21
		27.5'	30'	13.58	4.32	3.58	4.61	3.53	4.54	6.73
	10'	27.5'	15'	14.65	10.57	7.58	7.55	7.54	7.50	9.84
		27.5'	30'	11.35	4.41	3.80	4.59	3.77	4.58	6.19
60'	8'	30'	15'	20.66	11.93	6.55	6.59	6.54	6.56	11.02
		30'	30'	16.30	3.78	2.76	3.66	2.75	3.65	6.87
	9'	30'	15'	17.36	11.45	7.10	7.12	7.06	7.11	10.4
		30'	30'	13.29	4.04	3.13	3.92	3.12	3.87	6.24
	10'	30'	15'	15.33	11.25	7.55	7.56	7.51	7.54	10.11
		30'	30'	10.96	4.16	3.40	4.03	3.37	4.00	5.76

**30W LED Garage Light** emits 2,400 lumens light, equivalent to 80W conventional HPS/HID. 80W HPS/HID will emit 8,000 lumens light, in which only 60% light is visible while 50% light could be projected to wanted area, i.e. only 2,400 lumens from 80W HPS/HID is useful.

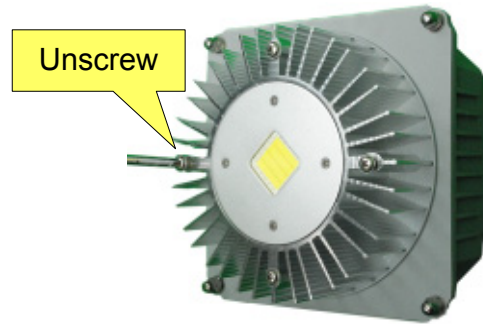
# Installation Guide

**Step 1: Unpack**



Removed from package

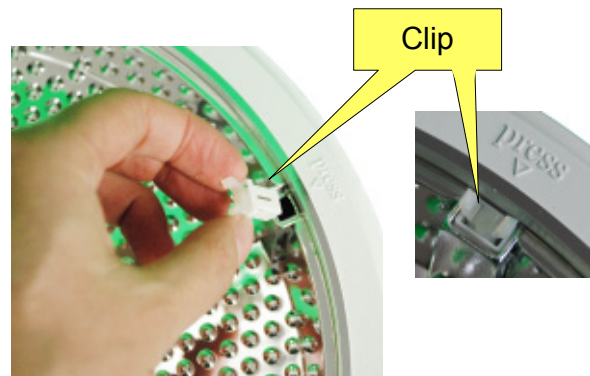
**Step 2: Unscrew and remove the 4 bolts at the core assembly.**



**Step 3: Fix the reflector to the core assembly by screwing 4 bolts.**



**Step 4: Insert the clip into the socket at the reflector.**



**Step 5: Cover the reflector with diffuser.**





Diffuser D1-  
D300mm x H40mm  
Milky color



Diffuser D2-  
D300mm x H40mm  
Droplet transparent



Diffuser D3-  
D300mm x H70mm  
Semi-transparent

**The best choice of energy saving, environment friendly and light pollution-free.**

## Other Product Highlight -- LED High Bay / Low Bay



E-Lite UltraBrite™ series LED High Bay light reaches 18000 lumens for mounting height upto 20 metre, the 200W LED High Bay light is equivalent to 700W conventional HPS/HID.

**E-Lite OptoTech Co., Ltd.**  
**Www.elite-opto.com**  
**sales@elite-opto.com**  
**+86 755 86119063**