

Parking Garage Product Guide



Lower Maintenance Costs

Important factors to consider when evaluating proposed light fixtures are the cost of replacement parts, labour and the useful lifespan of the fixture. LEDs are the obvious choice due to their long lifetime and relatively maintenance free sustainability. Furthermore, you'll see greater than 60,000 hrs over 6 years of life (at L_{80}). Parking garages are also susceptible to vandalism so it is important to consider investing in vandal resistant lighting to withstand any abuse or tampering.



LED vs. HPS

INITIAL COSTS

WATTAGE

ELECTRICITY COSTS (12/kWh)

LIFESPAN WHEN USED FOR 24HR/7 DAYS A WEEK

TOTAL SAVINGS (PER YEAR/PER UNIT)

HPS

LED

\$100

\$150

100W

50W

\$105/year

\$53/year

2 years

>6 years

\$96



BS100LED PG

IP66 IK05 

BS100 LED PG

BS100 LED 2FT PLUS PG

LUMENS

WATTAGES

EFFICACY

CRI

CCT

VANDAL RESISTANT

6,397 - 8,033

50W, 70W

Up to 127 lm/W

>80

3500K, 4000K, 5000K

YES

4,897 - 7,700

50W, 70W

Up to 111 lm/W

>80

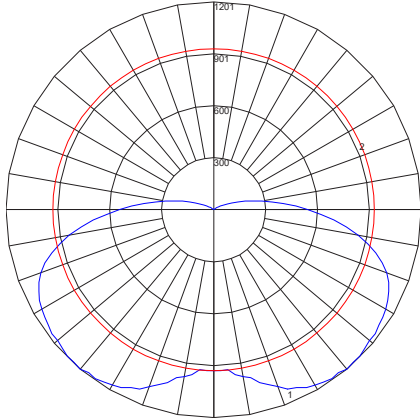
3500K, 4000K, 5000K

YES

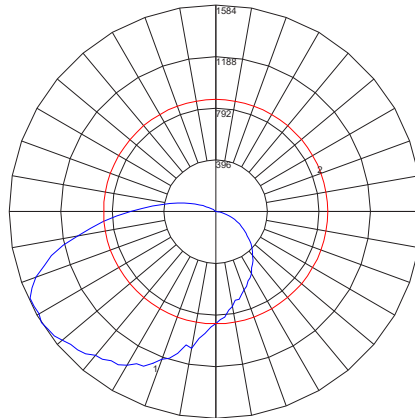
Safety of Vehicle and Pedestrian Traffic

LEDLUMINA BS400

IP66 IK09 



LEDLUMINA BS400
Symmetric Distribution



LEDLUMINA BS400
Asymmetric Distribution

One of the main challenges of parking facilities is simultaneously ensuring the safety of pedestrians and vehicles. The colour rendering index (CRI) measures a light source's ability to present an object's true colour. Having a low CRI makes it more difficult for pedestrians to find their vehicles in a sea of cars that appear to have the same colour. Additionally, if there are security cameras in the facility, LEDs with a high CRI will provide clear security images – ensuring the safety of pedestrians and vehicles.

LUMENS
WATTAGES
EFFICACY
CRI
CCT
DISTRIBUTION

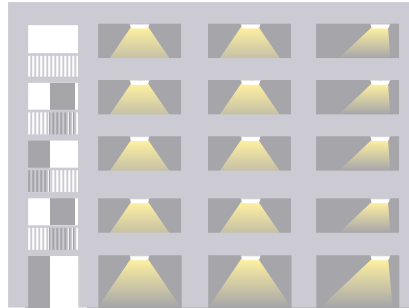
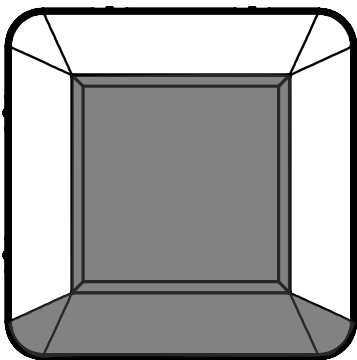
LEDLUMINA BS400	
	3,700, 5,600, 7,200
	30W, 45W, 60W
	Up to 126 lm/W
	>80
	3000K, 3500K, 4000K, 5000K
	Symmetric, Asymmetric

Avoid Obstructive Light

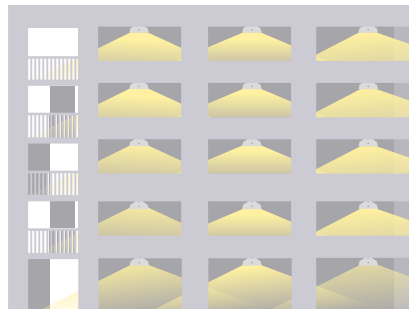


Light pollution in the form of glare, light trespass and over lighting can reduce visibility for pedestrians and vehicles. Beyond that, it has a negative impact on human health and the environment. It is important to have a properly designed parking garage that is efficient and effective – providing light exactly where it needs to be for safety and comfort.

When choosing a luminaire that will avoid trespass, look for one with an asymmetric option. For example, our LEDLUMINA BS400 parking garage fixture is available with an asymmetric distribution. One side of the fixture is not illuminated, therefore eliminating any stray light and light trespass.



Light is contained within the parking garage, light is not distracting to nearby surroundings.



Light is spilling out of parking garage, causing glare on nearby roads.

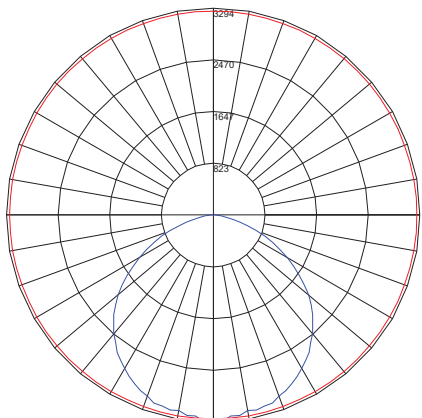


More Performance With Less Energy

Acciaio® LED BX920



NEMA 4X IP66 IK09



Acciaio® LED BX920
BX920LED-4HT-HO-WT40-120-277V

Many parking garages must be lit 24 hours a day, 7 days a week and 365 days a year. Replacing the traditional High Intensity Discharge (HID) style of luminaires with the lower wattage, high lumen LED luminaires can realize significant hydro savings for property managers. Equipped with performance enhancing and energy-saving features, Beghelli LED parking garage fixtures have internal/external sensor intelligence, multiple optic variations and high-output LED technology to deliver exceptional uniformity.

	Acciaio® Eco	Acciaio® BX920
LUMENS	3,765 - 5,502	5,506 - 9,329
WATTAGES	30W, 50W	50W, 80W
EFFICACY	Up to 125 lm/W	Up to 117 lm/W
CRI	>80	>80
CCT	3500K, 4000K, 5000K	3500K, 4000K, 5000K
HOUSING	24 gauge steel	24 gauge steel

Consider Various Light Levels



It is important to consider all lighting opportunities when laying out your parking garage. For example, when entering the parking garage, there is a drastic change in visibility. In order to keep pedestrian and vehicle traffic safe, there should be a transition of light in entrance areas. The recommended minimum illuminance of the whole garage is 50 lux. Entries and exits of the parking garage must be at least 500 lux to ease visual adjustment from daylight to indoors.



Drive aisle – 200 lux

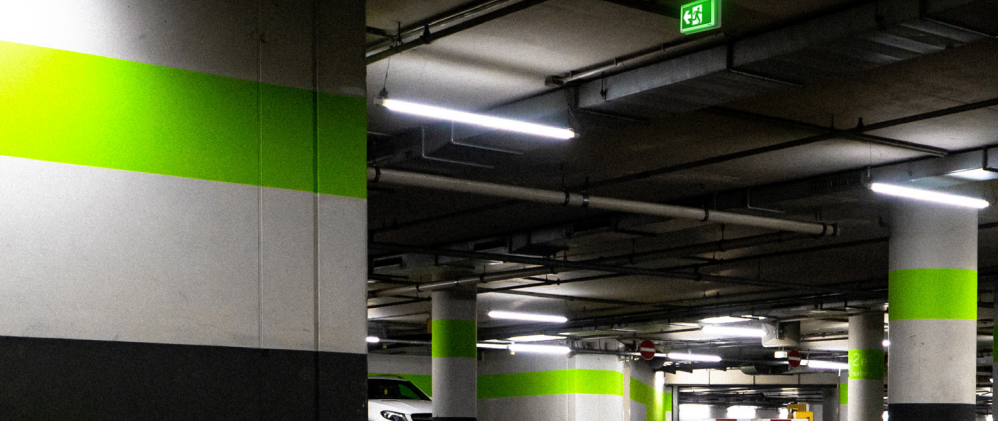


Vehicle entries/exits/ramps – 500 lux



Garage – 50 lux minimum





Emergency Lighting



Tempesta™ LED



Fortezza™ Combo RM



Protegga RM



Forte RM



To ensure the safety of pedestrians and vehicle traffic, the parking garage/facility must meet the minimum code requirements in Canada. The National Building Code of Canada requires an average illumination of 10 lux at floor level, minimum value not less than 1 lux. Just like normally-on lighting fixtures, your emergency lighting needs to be vandal, moisture and corrosion resistant.

Tempesta™ LED	Fortezza™ Combo	Protegga	Forte
IP65	IP66	NEMA 4 & 4X	Vandal Resistant
AC, emergency or remote versions	Heavy duty die-cast construction	Durable aluminum housing	16 or 14 gauge steel construction
Vandal-resistant polycarbonate housing	Wall, ceiling or end mounting	Impact resistant polycarbonate cover	Impact resistant polycarbonate shield
60' spacing on center	Impact resistant polycarbonate cover	Tamper resistant hardware	Tamper resistant stainless steel hardware
Surface, recessed, or t-bar mount	Two MR16 LED lamps	Universal mounting configurations	Full length canopy for ceiling or wall mount



Beluce Canada Inc.
3900 14th Ave
Markham, Ontario L3R 4R3
Tel.: 905.948.9500 / 877.358.9638
Fax: 905.948.8673
www.beghellicanada.com