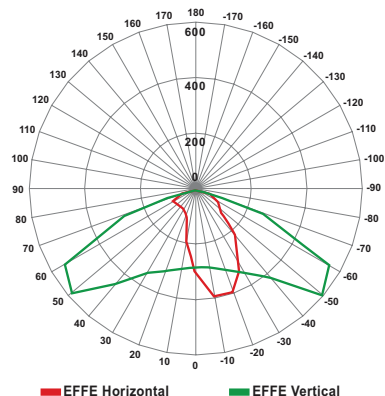
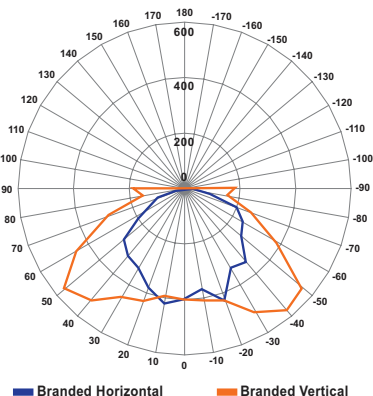
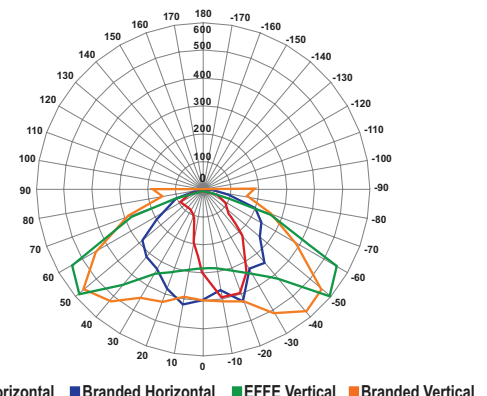


Parameter	Description	EFFE	MNC Brand	Remarks
Optical	No of LED's	8	10	LED at lower operating current than the maximum rating will give higher Efficacy and results in less stress on the LED which will give more life.
	LED Operating current (mA)	400	710	
	LED Max Rated Current (mA)	1000	1000	
	% of Max current rating used in LED	40.00	71.00	
	Fixture Secondary Optics	LENS	None	Lens will spread the light along the length of the road on to the useful area avoiding light spill on to the unwanted areas outside the road.
	Lamp Lumen Output (Lumen)	1100	1650	
	Color Temperature (Kelvin)	6500	5600	
	Efficacy (lm/W)	95.65	67.48	
Thermal	Solder Point temperature raise @ 25°C ambient (°C)	11	24.53	Less LED junction temperature raise will give more reliability and less lumen depreciation. Junction temperature above 75°C will cause more Light loss over the time and faster damage to LED's. The lower the light loss over time, the higher a lamp's lumen maintenance.
	Estimated Junction temperature @ 25°C ambient (°C)	42.96	70.83	
	Estimated Junction temperature@ 35°C ambient (°C)	52.96	80.83	
	Estimated Junction temperature @ 45°C ambient (°C)	62.96	90.83	
Electrical	Lamp Power (DC) (volts)	9.16	20.66	54% of the energy saved as compare to branded unit
	Electrical I/P power (AC) (Lamp+Driver) (watt)	11.3	24.45	
	Power Factor	0.95	0.97	
	Efficiency (%)	81.06	84.50	
	Power supply PCB grade	Double side-FR4	Single side	Thermal raise within the driver will degrade the output rating as well as life. The lesser the raise the better is the life and performance. The grade of the components and the design concepts such as redundancy in the circuit will reduce the stress and increase the reliability of operation.
	Capacitors	Dual with Redundancy	Single	
	Input Line filter circuit	Yes	Yes	
	Driver Short circuit protection	Yes	Yes	
	Driver Open Circuit protection	Yes	Yes	
	Driver I/P Surge voltage Protection	IEC 61000-4-5	?	
	Driver Transient voltage Protection	IEC 61000-4-4	?	
	Driver Voltage dips and interruption immunity	IEC 61000-11	?	
Temperature raise in power supply housing compartment (°C)	20	30		
Mechanical	Luminaire Cover	Toughened Glass	Polycarbonate	Anti-abrasiveness of the Glass improves the Clarity and reduces the Optical transmission losses over the life.
	Housing type	Aluminium Die casting	Aluminium Die casting	Good thermal conductor and has good corrosion resistance for longer life.
	Ingress Protection	IP65	IP65	Gives robust operation over the most rough environmental conditions such as rain and dust storms.
	Case temperature raise above ambient (heat sink) (°C)	8	22	
Performance	24 X 7 Operation	Yes	?	Specific proven design practices and material types only support 24X 7 reliable operation not all designs are meant for 24X7 operation. Effe has a number of products designed for 24X 7 operation.
	Operating Ambient temperature range (°C)	0 to 60	0 to 50	
	Warranty (years)	5	As Declared	5 years warranty & 10 years life comes from the industrial grade materials, proven manufacturing technology, rugged design, thorough testing. Not compromising on the quality and quantity of material.
	Life (years)	10	?	

ILLUMINATION PATTERN



Cumulative Illumination Pattern Comparison



* Replacement for 4feet Fluorescent Tube Light (FTL)

* The specifications are subjected to change