

Features & Specifications

PLT & AREA LIGHTS

INTENDED USE – LED area lights are all-purpose site lighting fixtures that can be used for parking lots, car dealerships, outdoor stadiums, pathways, and parks. These LED fixtures will yield a significant reduction in energy consumption compared to standard HID systems and virtually eliminate ongoing maintenance expenses with a long-lasting lifespan. Designed for outdoor applications, the LED area light fixtures will provide reduced offsite visibility as well as effective security lighting.

CONSTRUCTION – Heavy-duty die cast aluminum housing with bronze polyester powder paint for corrosion-free durability. Resistant to rough vibrations and external impacts. Acrylic lens protects the LEDs and provides even light distribution. Housing is sealed with a silicone gasket, protecting against moisture and environmental contaminants (IP65 rated). Modular LED bricks wired in parallel for ease of maintenance.

OPTICS – High-performance LEDs maintain a 18,000 Lumen output at 5000K for 50,000 hours of use.

Type III light distribution is intended for perimeter lighting of parking lots and along the edges of an open area as well as large roadways and parking lot aisles. It casts more light forward so that it can be used to light roads and pathways from the side of the road rather than being installed in the median.

LED area lights are designed to have a more directional beam angle than metal halide and high pressure sodium fixtures so no light is lost within or above the fixture. These LED fixtures also do not lose Lumens in the same way as a HID fixture, meaning the brightness stays consistent longer and needs to be replaced far less frequently.

ELECTRICAL – Input voltage of 120-277 VAC, 50/60Hz. Consider adding a surge protector to protect your fixtures from power surges in your electrical system as an added insurance policy to your investment.

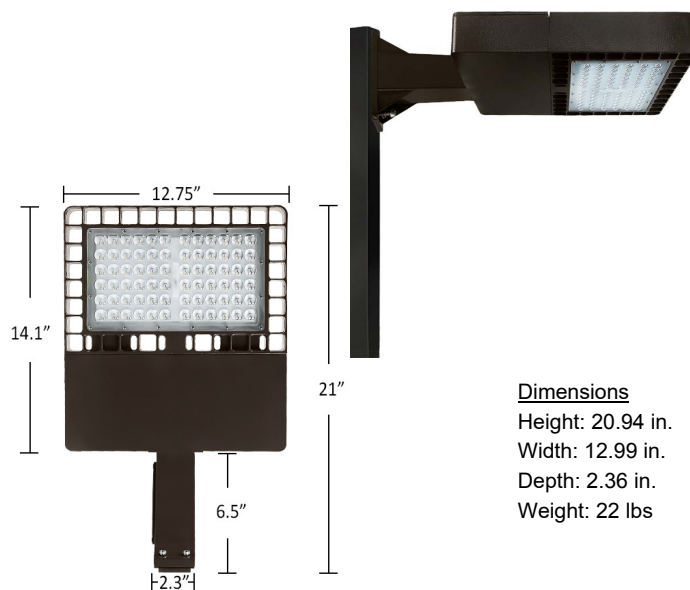
INSTALLATION – A straight-arm mounting bracket makes retrofit installation simple, resulting in reduced installation time and additional labor savings. Adjustable slipfitter is available for round pole mounting applications. Slipfitter mounts provide more flexibility and control over installation and light distribution by offering a broader range of angles than a stationary arm.

LISTINGS – ETL Certified to safety standards for wet location. Rated for -40°C to 45° C ambient temperature. IP-65 Rated.

WARRANTY – 5-year warranty. PLT products that are damaged or defective will be repaired or replaced at PLT's choosing for a period of 5 years. Contact 1-800-624-4488 for more information.

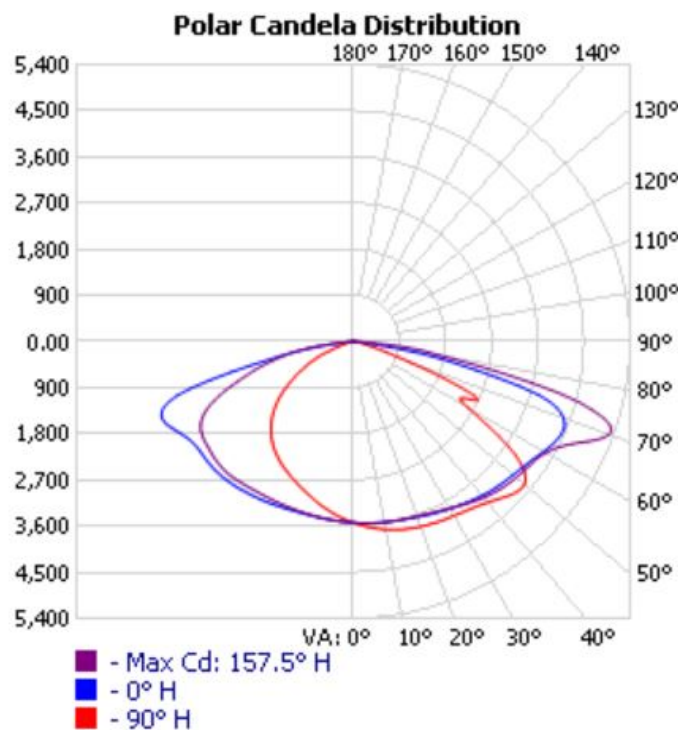
ADD-ONS – Pair with timers, photocells, and motion sensors for hassle free bright night time lighting and energy savings during the day. If pairing with a photocell, it must be LED compatible in order to operate properly. If using a conventional photocell, be sure to replace it with one rated for use with LEDs. While conventional light sensors will still work with LED fixtures at first, they will burn out prematurely. The same is true for motion sensors.

If you live in the northern hemisphere, your photocells should face north whenever possible. North-facing light sensors allow for the most balanced on/off schedule based on the arc of the sun. If pointed west, it will turn on and off late and vice versa for east-facing light sensors. Photocells facing the south will be exposed to the most direct sunlight which can burn out the components and cause premature failure. If you want your lights to come on early or late, we recommend pointing the light sensor northeast or northwest, respectfully. The opposite is true south of the equator.



Dimensions

Height: 20.94 in.
Width: 12.99 in.
Depth: 2.36 in.
Weight: 22 lbs



SKU #	Kelvin	Lumens	Wattage	Voltage	DLC?	Mounting	Life Hours	Warranty
PLT-10827-S	5000	18,000	150	120-277	NO	STRAIGHT ARM	50,000	5 YEAR

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	2,937.3	19.2%	19.2%
0-40	5,108.6	33.3%	33.4%
0-60	10,724.3	70%	70%
60-90	4,507.4	29.4%	29.4%
70-100	1,907.5	12.5%	12.5%
90-120	28.0	0.2%	0.2%
0-90	15,231.7	99.4%	99.5%
90-180	80.9	0.5%	0.5%
0-180	15,312.6	99.9%	100%

LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	336.4	2.2%	90-100	5.8	0%
10-20	992.4	6.5%	100-110	9.7	0.1%
20-30	1,608.4	10.5%	110-120	12.6	0.1%
30-40	2,171.3	14.2%	120-130	13.6	0.1%
40-50	2,666.6	17.4%	130-140	12.8	0.1%
50-60	2,949.0	19.3%	140-150	10.9	0.1%
60-70	2,605.7	17.0%	150-160	8.4	0.1%
70-80	1,620.8	10.6%	160-170	5.3	0%
80-90	280.9	1.8%	170-180	1.8	0%

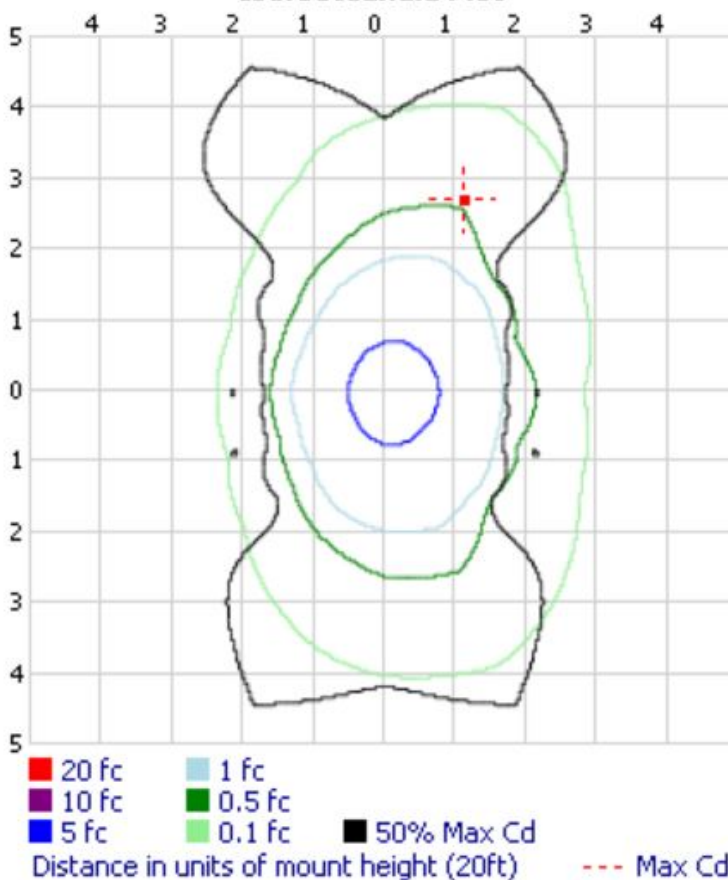
ROADWAY SUMMARY

CUTOFF CLASSIFICATION:	SEMICUTOFF	
DISTRIBUTION:	TYPE IV, SHORT	
MAX CD, 90 DEG VERT:	7.4	
MAX CD, 80 TO <90 DEG:	2,156.2	
	LUMENS	% LAMP
DOWNWARD STREET SIDE:	7,793.5	50.9%
DOWNWARD HOUSE SIDE:	7,439.0	48.6%
DOWNWARD TOTAL:	15,232.6	99.4%
UPWARD STREET SIDE:	39.8	0.3%
UPWARD HOUSE SIDE:	41.2	0.3%
UPWARD TOTAL:	80.9	0.5%
TOTAL LUMENS:	15,313.5	100%

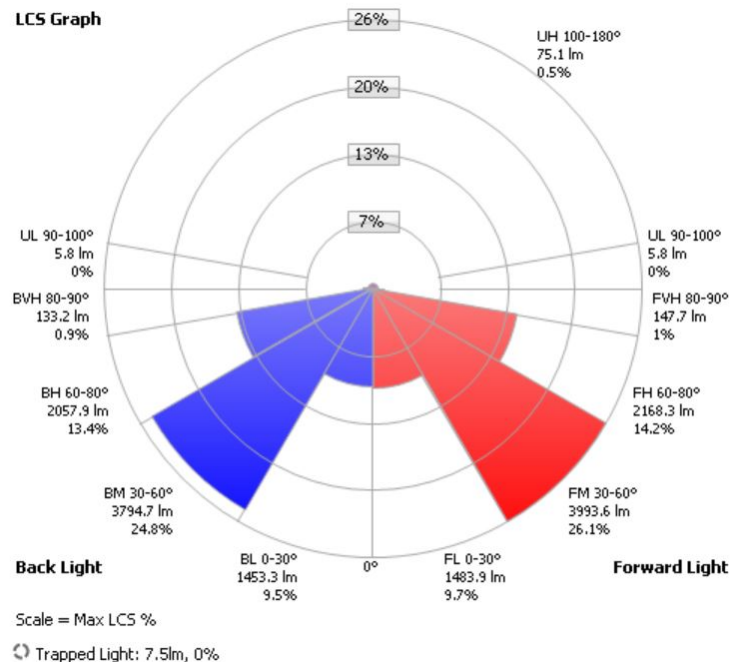
LCS TABLE

BUG RATING	B3 - U3 - G3	
FORWARD LIGHT	LUMENS	LUMENS %
LOW(0-30):	1,483.9	9.7%
MEDIUM(30-60):	3,993.6	26.1%
HIGH(60-80):	2,168.3	14.2%
VERY HIGH(80-90):	147.7	1%
BACK LIGHT		
LOW(0-30):	1,453.3	9.5%
MEDIUM(30-60):	3,794.7	24.8%
HIGH(60-80):	2,057.9	13.4%
VERY HIGH(80-90):	133.2	0.9%
UPLIGHT		
LOW(90-100):	5.8	0%
HIGH(100-180):	75.1	0.5%
TRAPPED LIGHT:	7.5	0%

Isofootcandle Plot



LCS Graph



Photometrics



CANDELA TABLE - TYPE C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	3529	3529	3529	3529	3529	3529	3529	3529	3529	3529	3529	3529	3529	3529	3529	3529	3529
5	3552	3589	3617	3632	3633	3618	3591	3555	3512	3471	3436	3415	3413	3431	3465	3509	3552
10	3571	3638	3687	3718	3722	3696	3645	3579	3499	3417	3342	3291	3283	3322	3398	3489	3571
15	3598	3681	3736	3781	3788	3755	3681	3596	3490	3373	3250	3163	3144	3206	3327	3476	3598
20	3640	3731	3774	3827	3838	3794	3705	3623	3500	3340	3163	3042	3012	3086	3247	3467	3640
25	3697	3800	3816	3861	3882	3822	3735	3675	3528	3315	3068	2926	2893	2962	3158	3465	3697
30	3763	3891	3869	3891	3923	3845	3786	3753	3565	3289	2946	2794	2778	2822	3062	3471	3763
35	3836	4001	3933	3942	3984	3881	3853	3856	3603	3259	2793	2631	2643	2656	2948	3491	3836
40	3916	4120	4005	4040	4091	3956	3924	3967	3644	3221	2612	2437	2476	2462	2809	3528	3916
45	3989	4230	4098	4218	4258	4115	4003	4061	3675	3146	2416	2210	2263	2234	2660	3550	3989
50	4056	4314	4256	4446	4350	4366	4119	4136	3682	3023	2197	1934	1996	1969	2499	3535	4056
55	4146	4387	4510	4313	3863	4383	4353	4202	3678	2875	1936	1589	1649	1645	2276	3497	4146
60	4287	4532	4449	2997	2591	3165	4562	4334	3750	2695	1647	1189	1247	1263	1976	3437	4287
65	4427	4920	2655	2481	2689	2264	3138	4717	3940	2360	1326	811	862	889	1572	3171	4427
70	4364	5011	2116	1853	1182	1998	1969	5307	3976	1829	880	433	416	506	1076	2546	4364
75	3365	3709	2074	648	379	748	2203	4560	2882	1360	357	194	194	206	538	1871	3365
80	1378	2156	770	229	167	259	1303	2018	1192	804	141	88	81	97	165	1188	1378
85	165	1111	164	62	40	65	232	693	216	112	30	23	16	26	41	261	165
90	7	5	2	1	1	2	3	5	6	7	4	2	2	2	5	7	7
95	10	6	3	2	2	2	4	7	9	9	6	3	3	4	6	9	10
100	13	8	4	3	2	3	5	10	12	12	8	5	5	6	9	11	13
105	15	10	5	4	3	4	7	12	14	14	11	8	7	8	11	13	15
110	16	11	7	5	5	6	8	14	16	16	13	11	10	11	14	15	16
115	17	13	8	7	6	7	10	15	18	17	15	13	12	13	16	16	17
120	18	14	10	8	8	9	11	16	19	18	17	14	15	15	17	18	18
125	18	15	11	9	9	10	12	16	19	19	18	16	16	16	18	19	18
130	18	15	12	11	10	11	13	17	19	20	18	17	17	17	19	19	18
135	18	16	13	12	13	13	14	17	19	20	19	18	18	18	19	19	18
140	18	16	14	13	14	14	15	17	19	20	20	19	19	19	19	19	18
145	18	16	15	14	15	15	15	17	18	19	20	20	19	19	19	19	18
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165	19	18	18	18	18	18	18	19	19	19	20	20	20	20	20	19	19
170	19	19	18	18	19	19	19	19	19	19	20	20	20	20	20	19	19
175	19	19	19	19	19	19	19	19	19	19	19	20	20	20	20	19	19
180	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19