

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 (IP68 rated). Modular LED bricks wired in parallel for ease of maintenance.

OPTICS – High-performance Lumileds LEDs and Mean Well driver maintain a 26,400 Lumen output at 5000K.

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 200-480 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 square 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 – UL Certified to safety standards for wet location. Rated for -40°C to 113°F ambient temperature. IP-68 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.

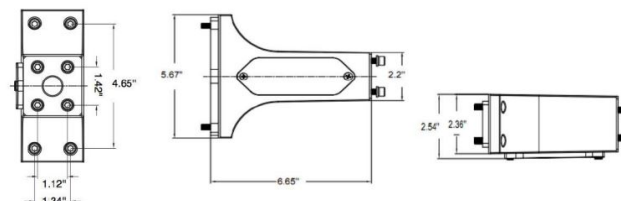
ADD-ONS – Pair with timers, photocells, and motion sensors for hassle free bright night time lighting and energy savings during the day. If pairing with a photocell, it must be LED compatible in order to operate properly. If using a conventional photocell, be sure to replace it with one rated for use 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.

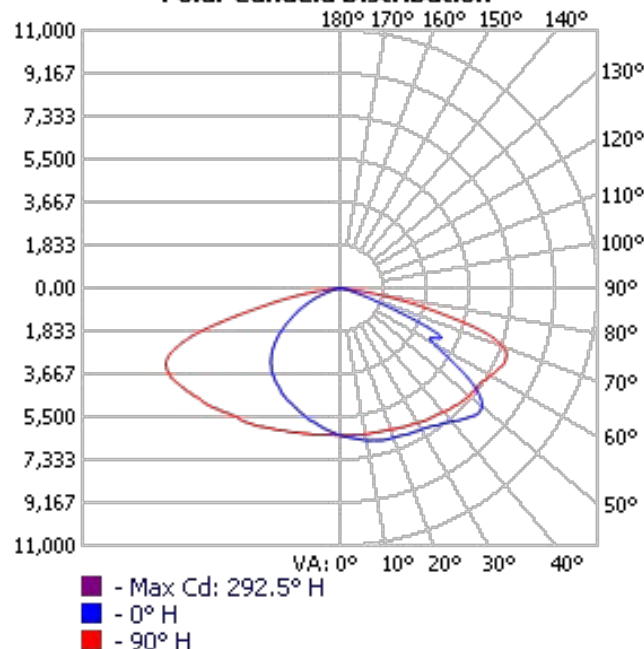


Dimensions

Height: 23.69 in.
Width: 12.31 in.
Depth: 2.5 in.
Weight: 28 lbs



Polar Candela Distribution



SKU #	Kelvin	Lumens	Wattage	Voltage	DLC?	Mounting	Life Hours	Warranty
LEDf-10120	5000	26,400	220	120-277V	NO	STRAIGHT ARM	50,000	5 YEAR

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	5,292.2	19.1%
0-40	9,257.3	33.5%
0-60	19,599.9	70.9%
60-90	7,985.4	28.9%
70-100	3,270.1	11.8%
90-120	29.4	0.1%
0-90	27,585.3	99.7%
90-180	70.2	0.3%
0-180	27,655.5	100%

LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	601.2	2.2%	90-100	7.5	0%
10-20	1,781.4	6.4%	100-110	10.0	0%
20-30	2,909.5	10.5%	110-120	12.0	0%
30-40	3,965.1	14.3%	120-130	11.9	0%
40-50	4,927.3	17.8%	130-140	10.1	0%
50-60	5,415.3	19.6%	140-150	7.9	0%
60-70	4,722.8	17.1%	150-160	5.8	0%
70-80	2,801.9	10.1%	160-170	3.5	0%
80-90	460.6	1.7%	170-180	1.4	0%

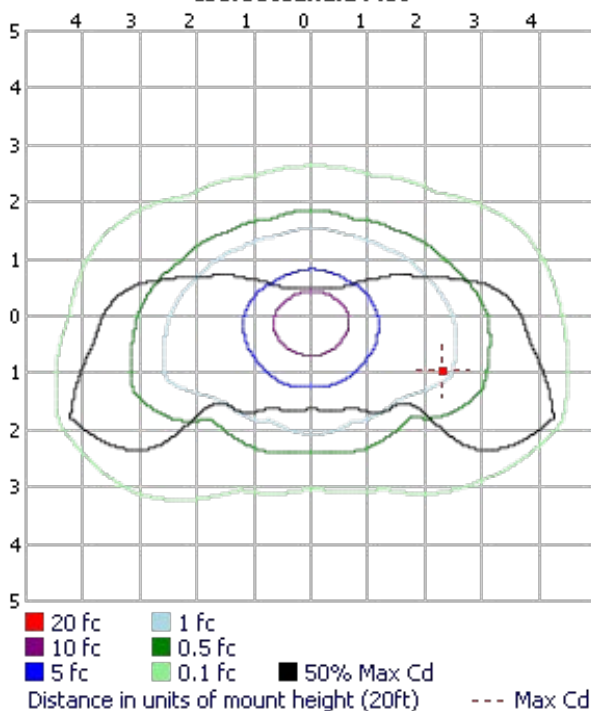
ROADWAY SUMMARY

DISTRIBUTION:	TYPE III, MEDIUM	
MAX CD, 90 DEG VERT:	17.9	
MAX CD, 80 TO <90 DEG:	3,493.9	
	LUMENS	% LAMP
DOWNWARD STREET SIDE:	16,691.5	60.4%
DOWNWARD HOUSE SIDE:	10,895.4	39.4%
DOWNWARD TOTAL:	27,586.9	99.8%
UPWARD STREET SIDE:	31.5	0.1%
UPWARD HOUSE SIDE:	38.7	0.1%
UPWARD TOTAL:	70.2	0.3%
TOTAL LUMENS:	27,657.1	100%

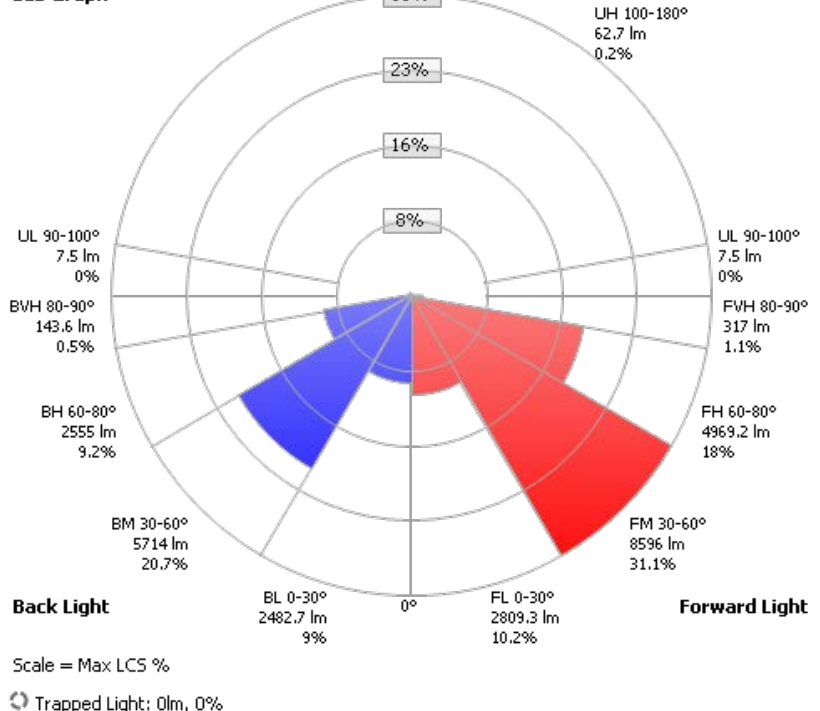
LCS TABLE

BUG RATING	B4 - U3 - G4	
FORWARD LIGHT	LUMENS	LUMENS %
LOW(0-30):	2,809.3	10.2%
MEDIUM(30-60):	8,596.0	31.1%
HIGH(60-80):	4,969.2	18%
VERY HIGH(80-90):	317.0	1.1%
BACK LIGHT		
LOW(0-30):	2,482.7	9%
MEDIUM(30-60):	5,714.0	20.7%
HIGH(60-80):	2,555.0	9.2%
VERY HIGH(80-90):	143.6	0.5%
UPLIGHT		
LOW(90-100):	7.5	0%
HIGH(100-180):	62.7	0.2%
TRAPPED LIGHT:	0.000	0%

Isofootcandle Plot



LCS Graph



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	6287	6287	6287	6287	6287	6287	6287	6287	6287	6287	6287	6287	6287	6287	6287	6287	6287
5	6426	6466	6381	6313	6294	6222	6194	6147	6093	6182	6183	6279	6280	6397	6446	6447	6426
10	6604	6586	6473	6374	6334	6208	6093	5961	5862	5999	6078	6218	6357	6492	6540	6594	6604
15	6723	6699	6547	6400	6362	6183	5939	5766	5675	5828	5948	6179	6411	6565	6622	6723	6723
20	6772	6777	6581	6470	6416	6161	5828	5593	5462	5608	5821	6199	6517	6647	6741	6798	6777
25	6887	6820	6677	6617	6532	6147	5709	5391	5292	5420	5637	6250	6644	6789	6899	6862	6887
30	6971	6898	6774	6789	6650	6180	5533	5172	5069	5191	5490	6192	6820	6991	7040	6957	6971
35	7173	7043	6904	7004	6759	6157	5311	4848	4822	4896	5251	6266	6987	7275	7189	7100	7173
40	7429	7259	7094	7261	6896	6177	5020	4506	4555	4529	5012	6262	7111	7604	7380	7282	7429
45	7800	7611	7259	7526	7059	6135	4706	4071	4158	4093	4712	6244	7320	7880	7560	7722	7800
50	7904	8018	7641	7699	7160	5966	4311	3582	3623	3549	4343	6107	7590	8053	7885	8297	7904
55	6652	7647	8221	7898	7236	5723	3795	2909	2945	2871	3829	5890	7810	8299	8400	7991	6652
60	4481	4853	7890	8228	7445	5422	3256	2188	2214	2151	3237	5517	8060	8705	8319	5153	4481
65	4618	4719	4510	8968	7695	4857	2610	1515	1537	1471	2508	4731	8166	9639	5127	4660	4618
70	1684	2829	3866	9048	7426	3851	1768	917	826	868	1624	3637	7463	10395	3951	2987	1684
75	630	1027	3500	6613	5107	2952	861	423	392	406	745	2737	4609	7887	4154	1087	630
80	256	358	1472	3484	1995	1768	320	222	193	215	290	1539	1832	3494	2222	387	256
85	48	75	236	1531	315	420	107	78	58	79	99	323	336	1336	289	83	48
90	1	2	6	17	15	13	5	1	1	2	6	14	15	18	9	3	1
95	1	1	3	10	12	13	6	3	1	3	6	14	14	11	5	2	1
100	1	1	3	10	14	15	8	5	3	5	8	15	16	10	4	2	1
105	2	2	5	11	16	18	11	7	5	7	10	17	19	11	5	3	2
110	4	4	6	14	18	19	13	9	9	9	12	19	21	14	7	4	4
115	5	4	8	15	17	18	14	11	11	10	13	18	21	15	8	5	5
120	6	6	9	16	17	17	13	13	12	13	13	16	22	16	10	7	6
125	9	9	9	16	15	16	12	13	15	13	13	16	21	16	10	9	9
130	10	10	10	15	15	14	13	14	15	14	13	15	19	15	10	11	10
135	13	12	10	13	14	13	12	15	15	14	13	14	17	14	10	12	13
140	13	12	9	14	14	13	10	14	14	14	11	14	16	14	10	12	13
145	10	12	9	12	15	13	10	14	14	15	11	14	15	12	10	12	10
150	14	13	11	12	14	13	11	14	15	15	14	13	14	12	12	13	14
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160	13	13	13	11	12	12	11	11	13	12	12	11	13	11	13	13	13
165	12	13	13	11	12	12	11	11	12	11	11	12	13	11	14	12	12
170	14	15	14	12	14	14	13	15	16	15	14	15	14	12	15	15	14
175	16	15	15	13	15	15	14	15	16	16	14	15	15	13	16	15	16
180	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16