

Energy and Performance Data

Nominal Power Lumens (2200K CCT, 70 CRI)

Light Engine - PA1		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)		21	31	40	54	64	74	83	94	96
Label		20	30	40	50	60	70	80	90	100
Optics										
T2R	Lumens	2,498	3,496	4,511	5,816	6,677	7,445	8,044	8,622	8,711
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	119	113	113	108	104	101	97	92	91
T2U	Lumens	2,488	3,484	4,495	5,796	6,654	7,418	8,016	8,592	8,681
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	118	112	112	107	104	100	97	91	90
T3	Lumens	2,483	3,476	4,486	5,784	6,640	7,403	8,000	8,574	8,663
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	118	112	112	107	104	100	96	91	90
T4W	Lumens	2,468	3,455	4,456	5,748	6,598	7,356	7,949	8,521	8,608
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	118	111	111	106	103	99	96	91	90
5WQ	Lumens	2,538	3,552	4,583	5,910	6,785	7,565	8,175	8,761	8,852
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2
	Lumens per Watt	121	115	115	109	106	102	98	93	92

Nominal Power Lumens (2700K CCT, 70 CRI)

Light Engine - PA1		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)		21	31	40	54	64	74	83	94	96
Label		20	30	40	50	60	70	80	90	100
Optics										
T2R	Lumens	2,841	3,977	5,131	6,617	7,595	8,470	9,151	9,808	9,909
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	135	128	128	123	119	114	110	104	103
T2U	Lumens	2,832	3,963	5,113	6,593	7,570	8,439	9,118	9,775	9,877
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3
	Lumens per Watt	135	128	128	122	118	114	110	104	103
T3	Lumens	2,825	3,955	5,104	6,580	7,554	8,422	9,101	9,755	9,856
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	135	128	128	122	118	114	110	104	103
T4W	Lumens	2,808	3,930	5,069	6,539	7,507	8,368	9,043	9,692	9,794
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	134	127	127	121	117	113	109	103	102
5WQ	Lumens	2,887	4,041	5,215	6,724	7,719	8,606	9,300	9,967	10,071
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3	B4-U0-G3
	Lumens per Watt	137	130	130	125	121	116	112	106	105

Nominal Power Lumens (5000K CCT, 70 CRI)

Light Engine - PA1		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)		21	31	40	54	64	74	83	94	96
Label		20	30	40	50	60	70	80	90	100
Optics										
T2R	Lumens	3,398	4,756	6,137	7,912	9,083	10,127	10,942	11,729	11,850
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	162	153	153	147	142	137	132	125	123
T2U	Lumens	3,385	4,739	6,114	7,884	9,052	10,091	10,905	11,688	11,809
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	161	153	153	146	141	136	131	124	123
T3	Lumens	3,378	4,729	6,102	7,868	9,033	10,071	10,882	11,664	11,785
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	161	153	153	146	141	136	131	124	123
T4W	Lumens	3,357	4,700	6,062	7,819	8,976	10,006	10,813	11,591	11,710
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	160	152	152	145	140	135	130	123	122
5WQ	Lumens	3,452	4,832	6,234	8,040	9,230	10,291	11,120	11,918	12,042
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3	B4-U0-G3	B4-U0-G3	B4-U0-G3
	Lumens per Watt	164	156	156	149	144	139	134	127	125

Nominal Power Lumens (2700K CCT, 80 CRI)

Light Engine - PA1		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)		21	31	40	54	64	74	83	94	96
Label		20	30	40	50	60	70	80	90	100
Optics										
T2R	Lumens	2,498	3,496	4,511	5,816	6,677	7,445	8,044	8,622	8,711
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	119	113	113	108	104	101	97	92	91
T2U	Lumens	2,488	3,484	4,495	5,796	6,654	7,418	8,016	8,592	8,681
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	118	112	112	107	104	100	97	91	90
T3	Lumens	2,483	3,476	4,486	5,784	6,640	7,403	8,000	8,574	8,663
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	118	112	112	107	104	100	96	91	90
T4W	Lumens	2,468	3,455	4,456	5,748	6,598	7,356	7,949	8,521	8,608
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	118	111	111	106	103	99	96	91	90
5WQ	Lumens	2,538	3,552	4,583	5,910	6,785	7,565	8,175	8,761	8,852
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2
	Lumens per Watt	121	115	115	109	106	102	98	93	92

Nominal Power Lumens (3000K CCT, 80 CRI)

Light Engine - PA1		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)		21	31	40	54	64	74	83	94	96
Label		20	30	40	50	60	70	80	90	100
Optics										
T2R	Lumens	2,700	3,779	4,877	6,287	7,218	8,047	8,695	9,320	9,417
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	129	122	122	116	113	109	105	99	98
T2U	Lumens	2,690	3,766	4,858	6,265	7,193	8,019	8,666	9,288	9,384
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	128	121	121	116	112	108	104	99	98
T3	Lumens	2,684	3,758	4,849	6,252	7,178	8,003	8,647	9,269	9,365
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	128	121	121	116	112	108	104	99	98
T4W	Lumens	2,668	3,735	4,817	6,213	7,133	7,951	8,592	9,211	9,305
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	127	120	120	115	111	107	104	98	97
5WQ	Lumens	2,743	3,840	4,954	6,389	7,335	8,178	8,836	9,471	9,569
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G3	B4-U0-G3
	Lumens per Watt	131	124	124	118	115	111	106	101	100

Energy and Performance Data

Nominal Power Lumens (2200K CCT, 70 CRI)

Light Engine - PA1	PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)	21	31	40	54	64	74	83	94	96
Label	20	30	40	50	60	70	80	90	100
Input Current @ 120V (A)	0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Input Current @ 277V (A)	--	0.12	0.16	0.21	0.24	0.28	0.31	0.35	0.35
Input Current @ 347V (A)	--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Input Current @ 480V (A)	--	0.07	0.09	0.13	0.15	0.17	0.18	0.21	0.21

Nominal Power Lumens (2700K CCT, 70 CRI)

Light Engine - PA1	PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)	21	31	40	54	64	74	83	94	96
Label	20	30	40	50	60	70	80	90	100
Input Current @ 120V (A)	0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Input Current @ 277V (A)	--	0.12	0.16	0.21	0.24	0.28	0.31	0.35	0.35
Input Current @ 347V (A)	--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Input Current @ 480V (A)	--	0.07	0.09	0.13	0.15	0.17	0.18	0.21	0.21

Nominal Power Lumens (5000K CCT, 70 CRI)

Light Engine - PA1	PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)	21	31	40	54	64	74	83	94	96
Label	20	30	40	50	60	70	80	90	100
Input Current @ 120V (A)	0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Input Current @ 277V (A)	--	0.12	0.16	0.21	0.24	0.28	0.31	0.35	0.35
Input Current @ 347V (A)	--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Input Current @ 480V (A)	--	0.07	0.09	0.13	0.15	0.17	0.18	0.21	0.21

Nominal Power Lumens (2700K CCT, 80 CRI)

Light Engine - PA1	PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
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Label	20	30	40	50	60	70	80	90	100
Input Current @ 120V (A)	0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Input Current @ 277V (A)	--	0.12	0.16	0.21	0.24	0.28	0.31	0.35	0.35
Input Current @ 347V (A)	--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Input Current @ 480V (A)	--	0.07	0.09	0.13	0.15	0.17	0.18	0.21	0.21

Nominal Power Lumens (3000K CCT, 80 CRI)

Light Engine - PA1	PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Power (Watts)	21	31	40	54	64	74	83	94	96
Label	20	30	40	50	60	70	80	90	100
Input Current @ 120V (A)	0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Input Current @ 277V (A)	--	0.12	0.16	0.21	0.24	0.28	0.31	0.35	0.35
Input Current @ 347V (A)	--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Input Current @ 480V (A)	--	0.07	0.09	0.13	0.15	0.17	0.18	0.21	0.21