



lampflux and IP ratings

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Lamp flux data and depreciation factors for use with DW Windsor photometric data
For maintained illuminance: Initial flux × appropriate lamp lumen maintenance factor

Lamp Type and Wattage	Initial Flux (Klumens)	Lumen Depreciation (maintenance factor)				Data Supplied by
		4400 Hrs	6600Hrs	8800Hrs	13000Hrs	
50w SON E	3.5	0.94	0.92	0.89	n/a	Osram
70w SON E	5.6	0.94	0.92	0.89	n/a	Osram
100w SON E+	9.5	0.97	0.95	0.94	0.9	Osram
150w SON E	15.5	0.96	0.93	0.9	n/a	Osram
150w SON E+	16.75	0.97	0.95	0.94	0.9	Osram
150w SON E DL	12	0.87	0.8	0.76	n/a	Osram
250w SON E	28	0.95	0.93	0.9	n/a	Osram
250w SON E+	31.75	0.97	0.95	0.94	0.9	Osram
250w SON E DL	22	0.87	0.8	0.76	n/a	Osram
50w SON T	4.5	0.97	0.95	0.94	0.9	Osram
70w SON T	5.9	0.95	0.93	0.89	0.9	Osram
70w SON T+	6.6	0.97	0.95	0.94	0.9	Osram
100w SON T+	10	0.97	0.95	0.94	0.9	Osram
150w SON T	15.75	0.95	0.93	0.9	n/a	Osram
150w SON T+	17.5	0.98	0.95	0.94	0.9	Osram
150w SON T DL	12.5	0.87	0.8	0.76	n/a	Osram
250w SON T	28	0.95	0.93	0.9	n/a	Osram
250w SON T+	33	0.98	0.95	0.94	0.9	Osram
250w SON T DL	23	0.87	0.8	0.76	n/a	Osram
50w MBF	1.9	0.9	0.86	0.82	0.79	Osram
50w MBF DL	2	0.9	0.86	0.82	0.79	Osram
50w MBF SDL	1.6	0.9	0.86	0.82	0.79	Osram
80w MBF	3.8	0.9	0.86	0.82	0.79	Osram
80w MBF DL	4	0.9	0.86	0.82	0.79	Osram
80w MBF SDL	3.4	0.9	0.86	0.82	0.79	Osram
125w MBF	6.2	0.9	0.86	0.82	0.79	Osram
125w MBF DL	6.5	0.9	0.86	0.82	0.79	Osram
125w MBF SDL	5.7	0.9	0.86	0.82	0.79	Osram
250w MBF	13	0.9	0.86	0.82	0.79	Osram
250w MBF DL	14	0.9	0.86	0.82	0.79	Osram
70w HQI Clear*	5.04	0.78	0.72	0.69	0.62	Venture
100w HQI Clear*	8.1	0.81	0.75	0.71	0.64	Venture
150w HQI Clear*	13.5	0.81	0.75	0.71	0.64	Venture
250w HQI Clear*	23.6	0.75	0.69	0.65	n/a	Venture
42w CFL	3200	0.87	0.84	0.82	n/a	Phillips
35w CDM-T	3200	0.87	0.80	n/a	n/a	Phillips
70w CDM-T	6300	0.87	0.80	n/a	n/a	Phillips
150w CDM-T	13500	0.87	0.80	n/a	n/a	Phillips

* Flux values are for horizontal burning lamp.

Venture lamps: The rated life is determined when 50% of the lamps initially installed are still burning.

Venture lamps are rated on a burning cycle of 10 hours per start.

Osram lamp data is based on 11 hours on and 1 off with laboratory switching.

Maintenance factors are derived from bi-polar charts and due to scale cannot be guaranteed.

Luminaire Maintenance Factors

Luminaire Rating Pollution Category	Ingress Protection Factor IP5			Ingress Protection Factor IP6		
	High	Medium	Low	High	Medium	Low
Maintenance at 12 months	0.89	0.90	0.92	0.91	0.92	0.93
Maintenance at 18 months	0.87	0.88	0.91	0.90	0.91	0.92
Maintenance at 24 months	0.84	0.86	0.90	0.88	0.89	0.91
Maintenance at 36 months	0.76	0.82	0.88	0.83	0.87	0.90

High pollution occurs in the centre of large urban areas and in heavy industrial areas.

Medium pollution occurs in semi-urban, residential and light industrial areas.

Low pollution occurs in rural areas.

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