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PPFD / DLI Chart

(Light Intensity & Daily Light Integral)

Updated 08/07/2023

Koot's Target DLI

Rooting Clones: 3.5-10	Seedlings/Clones: 13-19	Early Veg: 22-25	Mid Veg: 26-28	Late Veg: 28-35
Flower Week 1 (transition): 28-32	Weeks 2-3: 34-36	Weeks 4+: 38-41		

DLI per Hours of Light

Hours→	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
PPFD↓															
50	1.80	1.98	2.16	2.34	2.52	2.70	2.88	3.06	3.24	3.42	3.60	3.78	3.96	4.14	4.32
100	3.60	3.96	4.32	4.68	5.04	5.40	5.76	6.12	6.48	6.84	7.20	7.56	7.92	8.28	8.64
150	5.40	5.94	6.48	7.02	7.56	8.10	8.64	9.18	9.72	10.26	10.80	11.34	11.88	12.42	12.96
200	7.20	7.92	8.64	9.36	10.08	10.80	11.52	12.24	12.96	13.68	14.40	15.12	15.84	16.56	17.28
250	9.00	9.90	10.80	11.70	12.60	13.50	14.40	15.30	16.20	17.10	18.00	18.90	19.80	20.70	21.60
300	10.80	11.88	12.96	14.04	15.12	16.20	17.28	18.36	19.44	20.52	21.60	22.68	23.76	24.84	25.92
350	12.60	13.86	15.12	16.38	17.64	18.90	20.16	21.42	22.68	23.94	25.20	26.46	27.72	28.98	30.24
400	14.40	15.84	17.28	18.72	20.16	21.60	23.04	24.48	25.92	27.36	28.80	30.24	31.68	33.12	34.56
450	16.20	17.82	19.44	21.06	22.68	24.30	25.92	27.54	29.16	30.78	32.40	34.02	35.64	37.26	38.88
500	18.00	19.80	21.60	23.40	25.20	27.00	28.80	30.60	32.40	34.20	36.00	37.80	39.60	41.40	43.20
550	19.80	21.78	23.76	25.74	27.72	29.70	31.68	33.66	35.64	37.62	39.60	41.58	43.56	45.54	47.52
600	21.60	23.76	25.92	28.08	30.24	32.40	34.56	36.72	38.88	41.04	43.20	45.36	47.52	49.68	51.84
650	23.40	25.74	28.08	30.42	32.76	35.10	37.44	39.78	42.12	44.46	46.80	49.14	51.48	53.82	56.16
700	25.20	27.72	30.24	32.76	35.28	37.80	40.32	42.84	45.36	47.88	50.40	52.92	55.44	57.96	60.48
750	27.00	29.70	32.40	35.10	37.80	40.50	43.20	45.90	48.60	51.30	54.00	56.70	59.40	62.10	64.80
800	28.80	31.68	34.56	37.44	40.32	43.20	46.08	48.96	51.84	54.72	57.60	60.48	63.36	66.24	69.12
850	30.60	33.66	36.72	39.78	42.84	45.90	48.96	52.02	55.08	58.14	61.20	64.26	67.32	70.38	73.44
900	32.40	35.64	38.88	42.12	45.36	48.60	51.84	55.08	58.32	61.56	64.80	68.04	71.28	74.52	77.76
950	34.20	37.62	41.04	44.46	47.88	51.30	54.72	58.14	61.56	64.98	68.40	71.82	75.24	78.66	82.08
1000	36.00	39.60	43.20	46.80	50.14	54.00	57.60	61.20	64.80	68.40	72.00	75.60	79.20	82.80	86.40
1050	37.80	41.58	45.36	49.14	52.92	56.70	60.48	64.26	68.04	71.82	75.60	79.28	83.16	86.94	90.72
1100	39.60	43.56	47.52	51.48	55.44	59.40	63.36	67.32	71.28	75.24	79.20	83.16	87.12	91.08	95.04
1150	41.40	45.54	49.68	53.82	57.96	62.10	66.24	70.38	74.52	78.66	82.80	86.94	91.08	95.22	99.36
1200	43.20	47.52	51.84	56.16	60.48	64.80	69.12	73.44	77.76	82.08	86.40	90.72	95.04	99.36	103.68
1250	45.00	49.50	54.00	58.50	63.00	67.50	72.00	76.50	81.00	85.50	90.00	94.50	99.00	103.50	108.00
1300	46.80	51.48	56.16	60.84	65.52	70.20	74.88	79.56	84.24	88.92	93.60	98.28	102.96	107.64	112.32
1350	48.60	53.46	58.32	63.18	68.04	72.90	77.76	82.62	87.48	92.34	97.20	102.06	106.92	111.78	116.64
1400	50.40	55.44	60.48	65.52	70.56	75.60	80.64	85.68	90.72	95.76	100.80	105.84	110.88	115.92	120.96
1450	52.20	57.42	62.64	67.86	73.08	78.30	83.52	88.74	93.96	99.18	104.40	109.62	114.84	120.06	125.28
1500	54.00	59.40	64.80	70.20	75.60	81.00	86.40	91.80	97.20	102.60	108.00	113.40	118.80	124.20	129.60

PPFD = Photosynthetic Photon Flux Density: The amount of light that actually reaches your plants within the PAR region or the number of photosynthetically active photons that fall on a given surface each second. The PPFD is expressed in $\mu\text{mol/s. m}^2$.