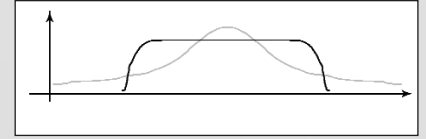


# PHOTOMETRICS

When comparing photometric data of different manufacturers, it should be noted that practically all other lights have a bell shaped light distribution curve (hot spots in the center), while Dedolight lighting fixtures show an equal intensity over the entire lit area.

Photometric data usually defines intensity at the center of the beam. Other comparable light sources of higher wattages may appear to have a higher output in flood position, yet the Dedolights edge to edge output will actually be more. In spot position, the Dedolight will easily exceed the center intensity of other lights that have drastically higher wattage ratings.



## Series 400: DLH400D, DLH650, DLH436

Distance	Meter	1	2	3	5	10	15	20
	Feet	3.3'	6.6'	9.8'	16.4'	32.8'	49.2'	65.6'

		Lamp: 400 W at 575 W Boost (Daylight, 5500 K)								
DLH400D	Flood 50°	Lit Diameter	Meter	0.93	1.8	2.8	4.7	9.3	14	18.6
			Feet	3'	5.9'	9.2'	13.8'	27.8'	41.7'	61'
		Intensity	Lux	18900	4725	2100	756	189	84	—
	Foot-Candle		1557	439	195	70	18	8	—	
	Med 13°	Lit Diameter	Meter	0.23	0.46	0.68	1.1	2.3	3.4	4.6
			Feet	0.75'	1.5'	2.2'	3.6'	7.5'	11'	15'
Intensity		Lux	118000	29502	13112	4720	1180	525	295	
	Foot-Candle	10966	2742	1219	439	110	49	27		
Spot 4.5°	Lit Diameter	Meter	0.1	0.17	0.26	0.44	0.87	1.3	1.7	
		Feet	0.3'	0.56'	0.9'	1.4'	2.9'	4.3'	5.6'	
	Intensity	Lux	371700	92925	41300	14868	3717	1652	929	
Foot-Candle		34545	8636	3838	1382	346	154	86		

		Lamp: 650 W at 230 V (Tungsten, 3200 K)								
DLH650	Flood 56°	Lit Diameter	Meter	1.1	2.1	3.2	5.3	10.6	16	21
			Feet	3.6'	6.9'	10.5'	17'	34'	52'	68'
		Intensity	Lux	8200	2430	1080	380	95	—	—
	Foot-Candle		762	226	100	35	8.8	—	—	
	Med 14°	Lit Diameter	Meter	0.25	0.5	0.75	1.2	2.5	3.7	5
			Feet	0.8'	1.6'	2.5'	3.9'	8.2'	12'	16.4'
Intensity		Lux	21650	5800	2650	950	238	106	59	
	Foot-Candle	2012	539	246	88	22	9.8	5.5		
Spot 8°	Lit Diameter	Meter	0.15	0.27	0.42	0.7	1.4	2	2.8	
		Feet	0.5'	0.9'	1.4'	2.3'	4.6'	6.5'	9.2'	
	Intensity	Lux	96000	25320	13700	4932	1233	548	300	
Foot-Candle		8921	2353	1273	458	115	51	28		

		Lamp: 400 W at 36 V (Tungsten, 3400 K)								
DLH436	Flood 56°	Lit Diameter	Meter	1.1	2.1	3.2	5.3	10.6	16	21
			Feet	3.6'	6.9'	10.5'	17'	34'	52'	68'
		Intensity	Lux	8524	2172	1010	353	88	—	—
	Foot-Candle		792	202	94	32.8	8.2	—	—	
	Med 18°	Lit Diameter	Meter	0.32	0.63	0.95	1.6	3.2	4.7	6.3
			Feet	1'	2'	3.1'	5.2'	10.4'	15.4'	20.5'
Intensity		Lux	40680	10170	4520	1300	356	150	—	
	Foot-Candle	3781	945	420	121	33	13	—		
Spot 5.5°	Lit Diameter	Meter	0.1	0.2	0.3	0.5	1	1.5	2	
		Feet	0.3'	0.66'	1'	1.6'	3.3'	5'	6.6'	
	Intensity	Lux	93430	23350	16000	5660	1440	640	360	
Foot-Candle		8683	2170	1486	526	134	59	33		

## Series 400: DedoPAR

Three different spread lenses can be used to widen the beam angle.

Distance	Meter	1	2	3	5	10	15	20
	Feet		3.3'	6.6'	9.8'	16.4'	32.8'	49.2'

		Lamp: 400 W (Daylight, 5500 K)								
		Intensity	Lux	Foot-Candle	1	2	3	5	10	15
DEDOPAR	without lens	Intensity	Lux	171000	42750	19000	6840	1710	760	428
			Foot-Candle	15885	3971	1765	635	159	71	40
	spread lens 1	Intensity	Lux	168300	42075	18700	6732	1683	748	421
			Foot-Candle	15633	3908	1737	625	156	69	39
	spread lens 2	Intensity	Lux	42300	10575	4700	1692	423	188	106
			Foot-Candle	3931	983	437	157	39	17	9.9
	spread lens 3	Intensity	Lux	18900	4725	2100	756	189	84	47
			Foot-Candle	1756	439	195	70	18	8	4.4

## Series 400: Imager / Projection Attachment

Distance	Meter	1	2	3	5	7	10
	Feet		3.3'	6.6'	9.8'	16.4'	23'

100 mm f 1.6	Diameter round Ø	cm	74	145	220	365	515	730
		inch	30"	57"	87"	144"	202"	287"
	Size square	cm	50 x 50	100 x 100	154 x 154	255 x 255	360 x 360	510 x 510
		inch	19" x 19"	39" x 39"	60" x 60"	100" x 100"	140" x 140"	200" x 200"
	DLH400D at 575 W	Lux	12240	3060	1360	490	250	124
		Foot-Candle	1138	284	126	46	23	11.3
	DLH650 – 230 V	Lux	8190	2050	910	325	165	82
		Foot-Candle	761	190	85	30	15	7.6
	DLH436 – 36 V	Lux	5580	1700	620	225	114	56
		Foot-Candle	519	158	58	21	10.6	5.2

185 mm f 3.5	Diameter round Ø	cm	38	80	125	200	290	410
		inch	15"	31"	49"	78"	114"	160"
	Size square	cm	26 x 26	56 x 56	87 x 87	140 x 140	200 x 200	285 x 285
		inch	10" x 10"	22" x 22"	34" x 34"	55" x 55"	78" x 78"	110" x 110"
	DLH400D at 575 W	Lux	31500	8000	3500	1260	640	315
		Foot-Candle	2928	744	325	117	60	29
	DLH650 – 230 V	Lux	28000	6000	2500	900	480	240
		Foot-Candle	2602	558	232	84	45	22
	DLH436 – 36 V	Lux	18000	4500	2000	720	365	180
		Foot-Candle	1673	418	186	67	34	16.7

230 mm f 2.3	Diameter round Ø	cm	31	63	95	158	222	317
		inch	12"	25"	37"	62"	87"	125"
	Size square	cm	22 x 22	44 x 44	67 x 67	112 x 112	156 x 156	233 x 233
		inch	9" x 9"	17" x 17"	26" x 26"	44" x 44"	61" x 61"	88" x 88"
	DLH400D at 575 W	Lux	63000	15750	7000	2520	1286	630
		Foot-Candle	5855	1464	650	234	120	59
	DLH650 – 230 V	Lux	40500	10125	4500	1620	826	405
		Foot-Candle	3763	941	418	151	77	38
	DLH436 – 36 V	Lux	38250	9563	4250	1530	781	383
		Foot-Candle	3555	889	395	142	73	36

# PHOTOMETRICS

## Classic Series/Series 200: DLH200D, DLH4 (100 W), DLH4 (150 W), DLOBA<sup>2</sup>

Distance	Meter	1	2	3	5	10	15	20
	Feet	3.3'	6.6'	9.8'	16.4'	32.8'	49.2'	65.6'

		Lamp: DD 200HR (Daylight, 5500 K)									
DLH200D	Flood 48°	Lit Diameter	Meter	0.9	1.8	2.7	4.5	9	13	18	
			Feet	3'	6'	8.9'	15'	30'	43'	60'	
		Intensity	Lux	8505	2126	945	340	86	–	–	
			Foot – Candle	790	198	88	32	9	–	–	
		Med 27°	Lit Diameter	Meter	0.5	0.96	1.4	2.4	4.8	7.2	9.6
				Feet	1.6'	3.2'	4.6'	8'	16'	24'	32'
	Intensity		Lux	36000	9000	4000	1440	360	160	90	
			Foot – Candle	3346	836	372	134	33	15	8.4	
	Spot 4.5°		Lit Diameter	Meter	0.1	0.16	0.24	0.4	0.8	1.2	1.6
				Feet	0.3'	0.53'	0.8'	1.3'	2.6'	4'	5.3'
		Intensity	Lux	121500	30375	13500	4860	1215	540	304	
			Foot – Candle	11292	2823	1255	452	113	50	28	

		Lamp: 150 W / 24 V (DL – 150) at 24.4 V (Tungsten, 3400 K)									
DLH4 150 W	Flood 48°	Lit Diameter	Meter	0.9	1.8	2.7	4.5	9	13	18	
			Feet	3'	6'	8.9'	15'	30'	43'	60'	
		Intensity	Lux	4000	1000	445	160	–	–	–	
			Foot – Candle	372	93	41	14.9	–	–	–	
		Med 27°	Lit Diameter	Meter	0.5	0.96	1.4	2.4	4.8	7.2	9.6
				Feet	1.6'	3.2'	4.6'	8'	16'	24'	32'
	Intensity		Lux	19800	4950	2200	790	198	88	–	
			Foot – Candle	1840	460	204	73	18.4	8.2	–	
	Spot 4.5°		Lit Diameter	Meter	0.1	0.16	0.24	0.4	0.8	1.2	1.6
				Feet	0.3'	0.53'	0.8'	1.3'	2.6'	4'	5.3'
		Intensity	Lux	81900	20475	9100	3276	819	364	205	
			Foot – Candle	7611	1903	846	304	76	34	19	

		Lamp: 100 W / 12 V (DL – 100) at 12.4 V (Tungsten, 3400 K)									
DLH4 100 W	Flood 48°	Lit Diameter	Meter	0.9	1.8	2.7	4.5	9	13	18	
			Feet	3'	6'	8.9'	15'	30'	43'	60'	
		Intensity	Lux	2160	540	240	86	21	–	–	
			Foot – Candle	200	50	22	8	2	–	–	
		Med 27°	Lit Diameter	Meter	0.5	0.96	1.4	2.4	4.8	7.2	9.6
				Feet	1.6'	3.2'	4.6'	8'	16'	24'	32'
	Intensity		Lux	12960	3240	1440	518	130	–	–	
			Foot – Candle	1204	301	134	48	12	–	–	
	Spot 4.5°		Lit Diameter	Meter	0.1	0.16	0.24	0.4	0.8	1.2	1.6
				Feet	0.3'	0.53'	0.8'	1.3'	2.6'	4'	5.3'
		Intensity	Lux	49500	12375	5500	1980	495	220	124	
			Foot – Candle	4600	1150	511	184	46	20.4	11.5	

		Lamp: 50 W / 12 V (D – 50) at 12.4 V (Tungsten, 3400 K)								
DLOBA <sup>2</sup>	Flood 70°	Lit Diameter	Meter	1.4	2.8	4.2	7	14	21	28
			Feet	4.6'	9.2'	13.8'	23'	46'	68.9'	91.8'
		Intensity	Lux	624	156	70	25	–	–	–
			Foot – Candle	58	15	6.5	2.3	–	–	–
	Spot 6°	Lit Diameter	Meter	0.1	0.2	0.3	0.5	1	1.6	2.1
			Feet	0.3'	0.7'	1'	1.7'	3.4'	5.2'	6.9'
		Intensity	Lux	6168	1542	685	244	62	27	–
			Foot – Candle	573	143	64	23	6	2.5	–

## Classic Series/Series 200: Classic Imager

Distance	Meter	0,5	1	2	3	4	5	7
	Feet	1.6'	3.3'	6.6'	9.8'	13.1'	16.4'	23'

60 mm f 2.8	Diameter round Ø	cm	40	80	160	240	320	400	560
		inch	16"	32"	64"	95"	128"	160"	224"
	Size square	cm	25 x 25	50 x 50	100 x 100	150 x 150	200 x 200	250 x 250	350 x 350
		inch	10" x 10"	20" x 20"	40" x 40"	60" x 60"	80" x 80"	100" x 100"	140" x 140"
	DLH4 – 100 W at 12.4 V (Tungsten, 3400 K)	Lux	7295	1575	360	155	90	53	–
		Foot – Candle	678	146	33	14.4	8.4	5	–
	DLH4 – 150 W at 24.4 V (Tungsten, 3400 K)	Lux	8646	2830	628	270	150	96	–
		Foot – Candle	803	263	58	25	14	9	–
	DLH – 200D (Daylight, 5400 K)	Lux	17280	4320	1080	480	270	173	88
		Foot – Candle	1606	402	100	45	25	16	8.2

85 mm f 2.8	Diameter round Ø	cm	30	60	120	180	240	300	420
		inch	12"	24"	47"	72"	96"	120"	168"
	Size square	cm	17 x 17	35 x 35	70 x 70	105 x 105	140 x 140	175 x 175	245 x 245
		inch	6.7" x 6.7"	13" x 13"	27" x 27"	40" x 40"	54" x 54"	67" x 67"	90" x 90"
	DLH4 – 100 W at 12.4 V (Tungsten, 3400 K)	Lux	9806	3245	638	292	164	99	50
		Foot – Candle	911	301	59	27	15	9.2	4.6
	DLH4 – 150 W at 24.4 V (Tungsten, 3400 K)	Lux	14575	4867	1089	450	258	157	79
		Foot – Candle	1355	452	101	42	24	14.6	7.3
	DLH – 200D (Daylight, 5400 K)	Lux	41400	10350	2588	1150	647	414	211
		Foot – Candle	3848	962	241	107	60	39	20

185 mm f 3.5	Diameter round Ø	cm	10	20	40	60	80	100	140
		inch	4"	8"	16"	24"	32"	40"	56"
	Size square	cm	7 x 7	14 x 14	28 x 28	42 x 42	56 x 56	70 x 70	98 x 98
		inch	2.8" x 2.8"	5.6" x 5.6"	11" x 11"	17" x 17"	22" x 22"	28" x 28"	39" x 39"
	DLH4 – 100 W at 12.4 V (Tungsten, 3400 K)	Lux	40456	15584	3476	1430	777	472	260
		Foot – Candle	3760	1448	323	133	72	44	24
	DLH4 – 150 W at 24.4 V (Tungsten, 3400 K)	Lux	61739	29147	6163	2456	1428	807	417
		Foot – Candle	5738	2708	573	228	133	75	39
	DLH – 200D (Daylight, 5400 K)	Lux	198000	49500	12375	5500	3094	1980	1010
		Foot – Candle	18401	4600	1150	511	288	184	94

### Conversion factors

To obtain photometric values for light head/bulb or light head/imager combinations that are not listed in the photometric tables, multiply the values from the tables with the conversion factors listed below.

Conversion for classic series (p. 33) and series 200 (p. 30).

<b>DLH200D</b> used with a 3200 K ceramic lamp	= 0.95
<b>DLH4</b> (150 W) switched/dimmed to 3200 K	= 0.82
<b>DLH4</b> (100 W) 3400 K tungsten lamp switched/dimmed to 3200 K	= 0.66
<b>DLH4</b> used with 50 W/3400 K tungsten lamp	= 0.70
<b>DLH4</b> used with 50 W/3400 K tungsten lamp at 3200 K	= 0.56

Conversion for classic series and series 200 with imager projection attachment (p. 48).

<b>DLH4</b> (100 W) 3400 K tungsten lamp switched/dimmed to 3200 K	= 0.65
<b>DLH4</b> (100 W) 3400 K tungsten lamp with a 2000 h lamp	= 0.85
<b>DLH4</b> (150 W) 3400 K tungsten lamp switched/dimmed to 3200 K	= 0.80
<b>DLH200D</b> used with a 3200 K ceramic lamp	= 0.75

# PHOTOMETRICS

## Classic Series/Series 200: Imager Projection Attachment Zooms

Distance	Meter	0.5	1	2	3	4	5	7
	Feet	1.6'	3.3'	6.6'	9.8'	13.1'	16.4'	23'

70 – 120 mm f 3.5 (at 70 mm)	Diameter round Ø	cm	32.5	65	130	195	260	325	455
		inch	13"	26"	52"	78"	104"	130"	182"
	Size square	cm	23 x 23	46 x 46	92 x 92	138 x 138	184 x 184	230 x 230	322 x 322
		inch	9" x 9"	18" x 18"	36" x 36"	54" x 54"	72" x 72"	90" x 90"	126" x 126"
	DLH4 – 100 W at 12.4 V (Tungsten, 3400 K)	Lux	9875	3292	780	364	198	130	62
		Foot – Candle	918	306	73	34	18	12	5.8
	DLH4 – 150 W at 24.4 V (Tungsten, 3400 K)	Lux	17820	4455	1114	496	279	178	90
		Foot – Candle	1656	414	104	46	26	17	8.4
	DLH – 200D (Daylight, 5400 K)	Lux	25740	6435	1609	715	402	257	131
		Foot – Candle	2392	617	150	67	37	24	12

70 – 120 mm f 3.5 (at 120 mm)	Diameter round Ø	cm	19.5	39	78	117	156	195	273
		inch	7.7"	15"	30"	45"	60"	75"	105"
	Size square	cm	14 x 14	28 x 28	55 x 55	83 x 83	110 x 110	138 x 138	193 x 193
		inch	5.5" x 5.5"	11" x 11"	22" x 22"	33" x 33"	44" x 44"	55" x 55"	66" x 66"
	DLH4 – 100 W at 12.4 V (Tungsten, 3400 K)	Lux	26166	6542	1920	718	476	260	125
		Foot – Candle	2432	607	178	67	44	24	38149
	DLH4 – 150 W at 24.4 V (Tungsten, 3400 K)	Lux	46440	11610	2904	1290	726	464	237
		Foot – Candle	4316	1079	270	120	67	43	22
	DLH – 200D (Daylight, 5400 K)	Lux	69120	17280	4320	1920	1080	691	353
		Foot – Candle	6424	1606	402	178	100	64	33

85 – 150 mm f 3.5 (at 85 mm)	Diameter round Ø	cm	30	60	120	180	240	300	420
		inch	12"	24"	47"	71"	94"	118"	165"
	Size square	cm	21 x 21	42 x 42	85 x 85	127 x 127	170 x 170	212 x 212	297 x 297
		inch	8.3" x 8.3"	17" x 17"	33" x 33"	50" x 50"	67" x 67"	83" x 83"	117" x 117"
	DLH4 – 100 W at 12.4 V (Tungsten, 3400 K)	Lux	11160	2790	698	310	174	112	57
		Foot – Candle	1037	259	65	29	16	10	38051
	DLH4 – 150 W at 24.4 V (Tungsten, 3400 K)	Lux	16668	4167	1042	463	260	167	85
		Foot – Candle	1549	387	98	43	24	16	8
	DLH – 200D (Daylight, 5400 K)	Lux	36000	9000	2250	1000	563	360	184
		Foot – Candle	3346	836	209	93	52	34	17

85 – 150 mm f 3.5 (at 150 mm)	Diameter round Ø	cm	17.5	35	70	105	140	175	245
		inch	7"	14"	28"	41"	55"	69"	97"
	Size square	cm	12.3 x 12.3	25 x 25	50 x 50	74 x 74	99 x 99	124 x 124	173 x 173
		inch	4.8" x 4.8"	9.8" x 9.8"	20" x 20"	29" x 29"	39" x 39"	49" x 49"	68" x 68"
	DLH4 – 100 W at 12.4 V (Tungsten, 3400 K)	Lux	27144	6786	1697	754	424	271	138
		Foot – Candle	2523	631	158	70	39	25	13
	DLH4 – 150 W at 24.4 V (Tungsten, 3400 K)	Lux	47880	11970	2993	1330	748	479	244
		Foot – Candle	4450	1113	278	124	70	45	23
	DLH – 200D (Daylight, 5400 K)	Lux	99000	24750	6188	2750	1547	990	505
		Foot – Candle	9201	2300	575	256	144	92	47

## Dedocool

The special qualities of extreme intensity and low heat are mainly effective at short distances.

Distance	Meter	0.2	0.3	0.4	0.5
	Inch	7.9"	11.8"	15.8"	19.7"

		Lamp: 250 W / 24 V				
dedocool	Lit Diameter	Meter	0.06	0.07	0.09	0.12
		Inch	2.36"	2.76"	3.54"	4.72"
	Intensity	Lux	2,390,000	1,130,000	580,000	370,000
		Foot – Candle	222,031	104,997	53,882	34,737
	Temp	° C	59	42	35	31

## Dedolight soft lights: DLH150S, DLH300S, DLH4 x 150S, DLH1000S/SPLUS, DLH200S, DLH400S

Distance	Meter	3
	Feet	9.8'

Distance	Meter	3
	Feet	9.8'

DLH150S	Lamp: 150 W / 24 V at 24.4 V (Tungsten, 3400 K)		
	silver small	Lux	78
		Foot – Candle	7.2
	silver med	Lux	81
Foot – Candle		7.5	

DLH200S	Lamp: 200 W (Daylight, 5500 K)		
	silver small	Lux	245
		Foot – Candle	23
	silver med	Lux	191
Foot – Candle		18	

DLH300S	Lamp: 300 W / 230 V at 230 V (Tungsten, 3200 K)		
	silver small	Lux	70
		Foot – Candle	6.5
	silver med	Lux	73
Foot – Candle		6.7	

DLH400S	Lamp: 400 W at 575 W (Daylight 5500 K)		
	silver med	Lux	645
		Foot – Candle	60
	silver large	Lux	724
		Foot – Candle	67
	octodome	Lux	810
Foot – Candle		75	

DLH4 x 150S	Lamp: 150 W / 24 V at 24.4 V (Tungsten, 3200 K)		
	silver small	Lux	310
		Foot – Candle	29
	silver med	Lux	290
		Foot – Candle	27
	silver large	Lux	255
		Foot – Candle	23
	octodome	Lux	310
Foot – Candle		29	

DLH1000S	Lamp: 1000 W / 230 V (Tungsten, 3200 K)		
	silver med	Lux	225
		Foot – Candle	21
	silver large	Lux	220
		Foot – Candle	20
	octodome	Lux	340
Foot – Candle		32	

### Conversion factors (see page 93) for soft lights

DLH200S used with a 3200 K ceramic lamp = 0.95

DLH400S run at 400 W = 0.65