

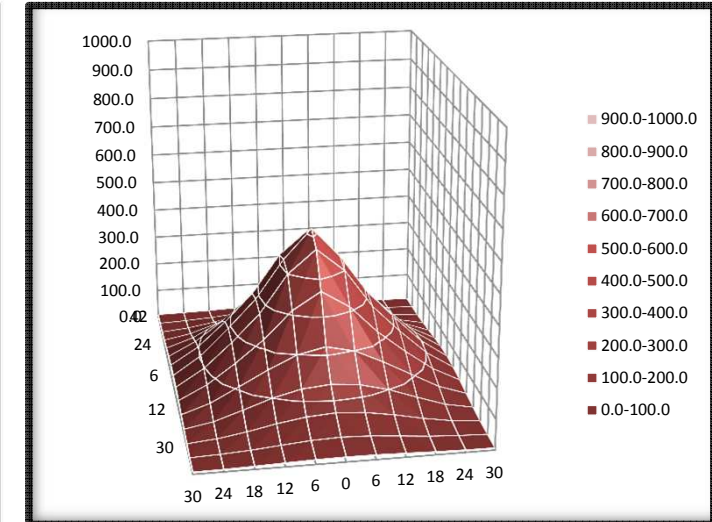
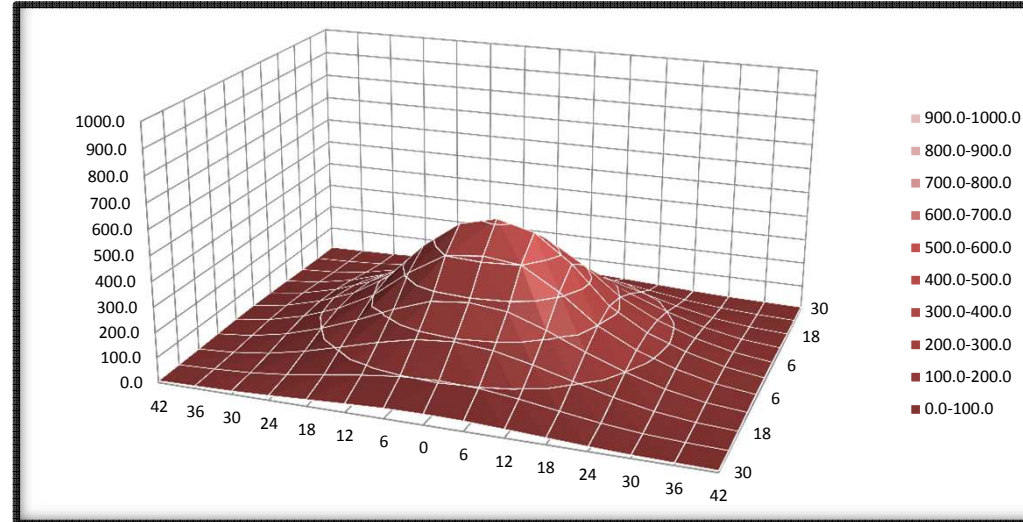
# Aqua Illumination Hydra

## H = 30cm

**Modul:** Aqua Illumination Hydra  
 Raumtemperatur: 19 Grad Celsius  
 Messinstrument: kalibriertes Spektrometer  
 Abstand von Sensor bis uk Modul: 30 cm  
 Raum: Abgedunkelt  
 Einheit: PAR in  $\mu\text{mol}/\text{m}^2/\text{sec}$   
 Leistungsangabe Hersteller: 95 Watt

cm/cm	42	36	30	24	18	12	6	0	6	12	18	24	30	36	42		
30	6.5	9.0	12.0	18.0	25.5	33.0	39.5	41.5	39.5	33.0	25.5	18.0	12.0	9.0	6.5	328.50	
24	7.5	12.5	20.5	35.5	57.0	80.0	97.5	104.0	97.5	80.0	57.0	35.5	20.5	12.5	7.5	725.00	644.00
18	9.5	18.0	36.0	67.0	106.0	146.5	180.0	193.0	180.0	146.5	106.0	67.0	36.0	18.0	9.5	1'319.00	1'192.00
12	12.5	26.5	55.5	100.0	155.5	220.0	272.5	288.0	272.5	220.0	155.5	100.0	55.5	26.5	12.5	1'973.00	1'784.00
6	15.0	34.5	70.5	123.5	199.0	312.0	400.5	417.0	400.5	312.0	199.0	123.5	70.5	34.5	15.0	2'727.00	2'487.00
0	16.0	38.0	77.0	132.0	220.0	369.5	477.5	515.0	477.5	369.5	220.0	132.0	77.0	38.0	16.0	3'175.00	2'913.00
6	15.0	34.5	70.5	123.5	199.0	312.0	400.5	417.0	400.5	312.0	199.0	123.5	70.5	34.5	15.0	2'727.00	2'487.00
12	12.5	26.5	55.5	100.0	155.5	220.0	272.5	288.0	272.5	220.0	155.5	100.0	55.5	26.5	12.5	1'973.00	1'784.00
18	9.5	18.0	36.0	67.0	106.0	146.5	180.0	193.0	180.0	146.5	106.0	67.0	36.0	18.0	9.5	1'319.00	1'192.00
24	7.5	12.5	20.5	35.5	57.0	80.0	97.5	104.0	97.5	80.0	57.0	35.5	20.5	12.5	7.5	725.00	644.00
30	6.5	9.0	12.0	18.0	25.5	33.0	39.5	41.5	39.5	33.0	25.5	18.0	12.0	9.0	6.5	328.50	

Beleuchtungsstärke: 100 %  
 Leistungsaufnahme gemessen: 97.5 Watt  
 Lux: 14'800 lx  
 x = 0.203  
 y = 0.123  
 z = 0.665  
 Summe: 17'320.00 15'127.00  
**PAR pro Watt: 177.64 155.15**  
**PAR im Mittel: 104.97 186.75**

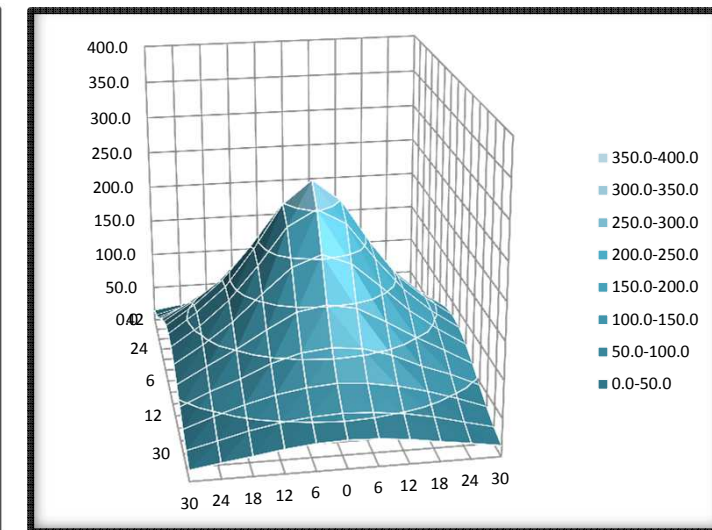
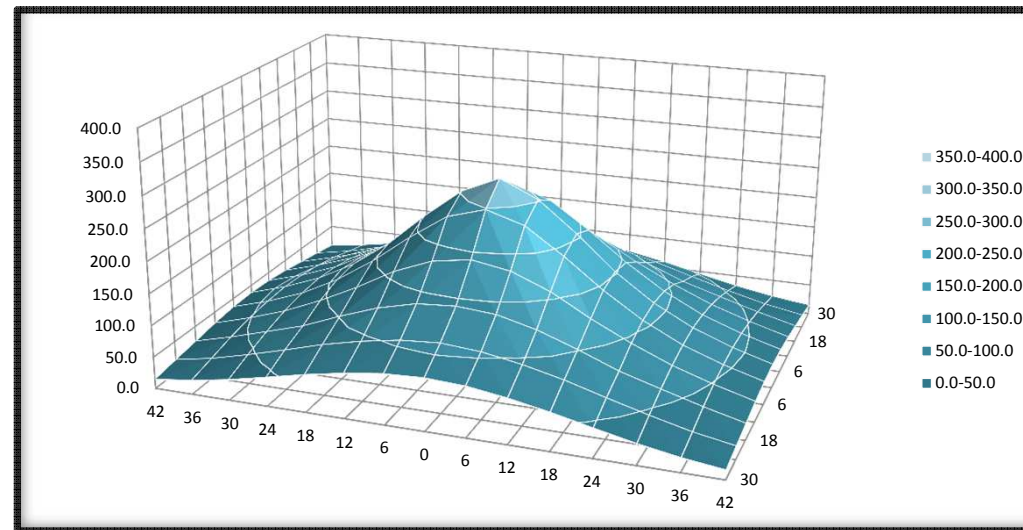


## H = 45cm

**Modul:** Aqua Illumination Hydra  
 Raumtemperatur: 19 Grad Celsius  
 Messinstrument: kalibriertes Spektrometer  
 Abstand von Sensor bis uk Modul: 45 cm  
 Raum: Abgedunkelt  
 Einheit: PAR in  $\mu\text{mol}/\text{m}^2/\text{sec}$   
 Leistungsangabe Hersteller: 95 Watt

cm/cm	42	36	30	24	18	12	6	0	6	12	18	24	30	36	42		
30	14.5	22.0	32.5	45.5	59.0	70.5	79.0	82.0	79.0	70.5	59.0	45.5	32.5	22.0	14.5	728.00	
24	20.5	31.5	46.5	63.0	80.5	94.5	105.0	109.5	105.0	94.5	80.5	63.0	46.5	31.5	20.5	992.50	795.50
18	26.0	41.5	59.0	77.0	101.0	122.5	137.5	142.0	137.5	122.5	101.0	77.0	59.0	41.5	26.0	1'271.00	1'018.00
12	32.0	49.0	69.0	94.5	124.0	157.5	181.5	191.5	181.5	157.5	124.0	94.5	69.0	49.0	32.0	1'606.50	1'306.50
6	36.0	53.5	75.5	106.0	145.0	190.5	231.0	249.0	231.0	190.5	145.0	106.0	75.5	53.5	36.0	1'924.00	1'594.00
0	37.5	55.5	78.5	110.0	152.0	205.0	252.0	279.0	252.0	205.0	152.0	110.0	78.5	55.5	37.5	2'060.00	1'717.00
6	36.0	53.5	75.5	106.0	145.0	190.5	231.0	249.0	231.0	190.5	145.0	106.0	75.5	53.5	36.0	1'924.00	1'594.00
12	32.0	49.0	69.0	94.5	124.0	157.5	181.5	191.5	181.5	157.5	124.0	94.5	69.0	49.0	32.0	1'606.50	1'306.50
18	26.0	41.5	59.0	77.0	101.0	122.5	137.5	142.0	137.5	122.5	101.0	77.0	59.0	41.5	26.0	1'271.00	1'018.00
24	20.5	31.5	46.5	63.0	80.5	94.5	105.0	109.5	105.0	94.5	80.5	63.0	46.5	31.5	20.5	992.50	795.50
30	14.5	22.0	32.5	45.5	59.0	70.5	79.0	82.0	79.0	70.5	59.0	45.5	32.5	22.0	14.5	728.00	

Beleuchtungsstärke: 100 %  
 Leistungsaufnahme gemessen: 97.5 Watt  
 Lux: 7'800 lx  
 x = 0.199  
 y = 0.125  
 z = 0.676  
 Summe: 15'104.00 11'145.00  
**PAR pro Watt: 154.91 114.31**  
**PAR im Mittel: 91.54 137.59**



## H = 60 cm

**Modul:** Aqua Illumination Hydra  
 Raumtemperatur: 19 Grad Celsius  
 Messinstrument: kalibriertes Spektrometer  
 Abstand von Sensor bis uk Modul: 60 cm  
 Raum: Abgedunkelt  
 Einheit: PAR in  $\mu\text{mol}/\text{m}^2/\text{sec}$   
 Leistungsangabe Hersteller: 95 Watt

cm/cm	42	36	30	24	18	12	6	0	6	12	18	24	30	36	42		
30	26.5	33.5	41.5	49.5	57.0	63.0	67.5	69.0	67.5	63.0	57.0	49.5	41.5	33.5	26.5	746.00	
24	31.5	40.0	49.0	58.5	67.5	75.5	81.5	84.0	81.5	75.5	67.5	58.5	49.0	40.0	31.5	891.00	650.00
18	36.0	45.5	55.5	67.5	80.0	91.5	101.0	104.5	101.0	91.5	80.0	67.5	55.5	45.5	36.0	1'058.50	784.50
12	39.5	50.0	62.0	76.5	93.0	110.5	125.0	131.0	125.0	110.5	93.0	76.5	62.0	50.0	39.5	1'244.00	941.00
6	41.0	52.5	65.0	82.0	102.0	126.0	146.0	156.5	146.0	126.0	102.0	82.0	65.0	52.5	41.0	1'385.50	1'068.50
0	42.0	53.0	67.0	84.0	105.5	131.5	154.5	167.0	154.5	131.5	105.5	84.0	67.0	53.0	42.0	1'442.00	1'118.00
6	41.0	52.5	65.0	82.0	102.0	126.0	146.0	156.5	146.0	126.0	102.0	82.0	65.0	52.5	41.0	1'385.50	1'068.50
12	39.5	50.0	62.0	76.5	93.0	110.5	125.0	131.0	125.0	110.5	93.0	76.5	62.0	50.0	39.5	1'244.00	941.00
18	36.0	45.5	55.5	67.5	80.0	91.5	101.0	104.5	101.0	91.5	80.0	67.5	55.5	45.5	36.0	1'058.50	784.50
24	31.5	40.0	49.0	58.5	67.5	75.5	81.5	84.0	81.5	75.5	67.5	58.5	49.0	40.0	31.5	891.00	650.00
30	26.5	33.5	41.5	49.5	57.0	63.0	67.5	69.0	67.5	63.0	57.0	49.5	41.5	33.5	26.5	746.00	

Beleuchtungsstärke: 100 %  
 Leistungsaufnahme gemessen: 97.5 Watt  
 Lux: 4'650 lx  
 x = 0.198  
 y = 0.124  
 z = 0.678  
 Summe: 12'092.00 8'006.00  
**PAR pro Watt: 124.02 82.11**  
**PAR im Mittel: 73.28 98.84**

