

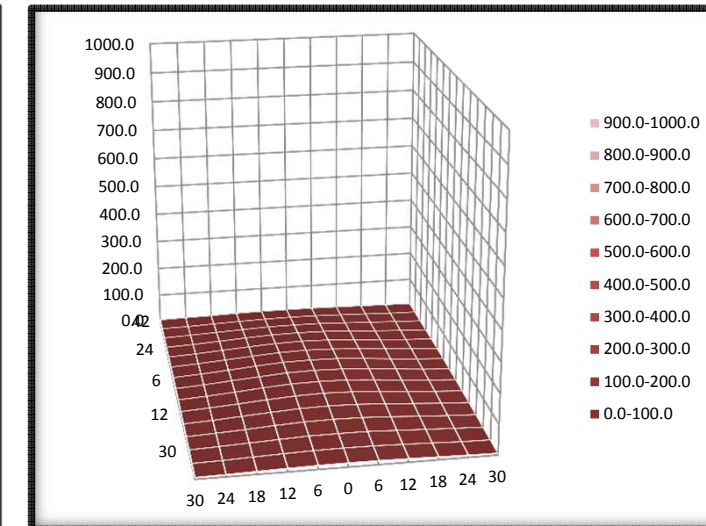
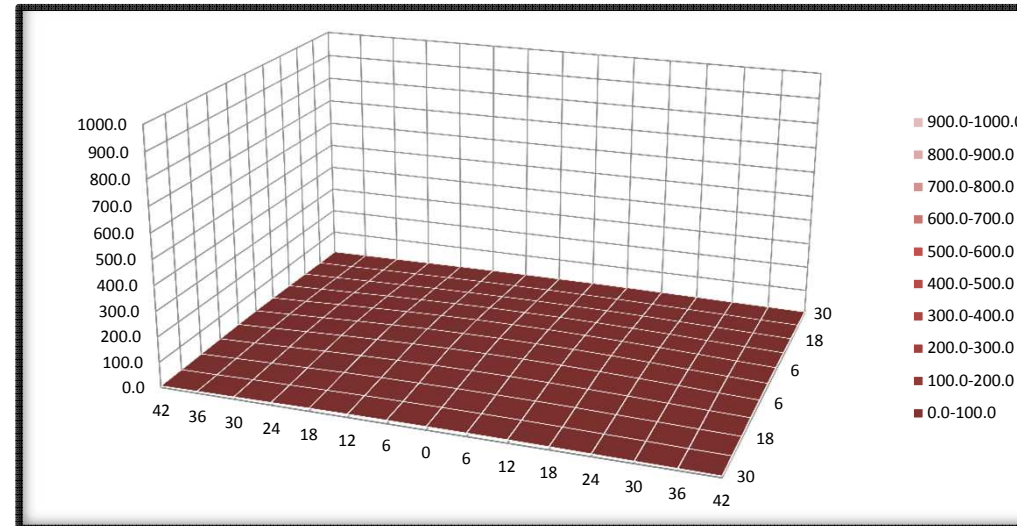
Giesemann PULZAR LED Standardversion

H = 30cm

Modul: Giesemann PULZAR LED Standardversion
Raumtemperatur: 19 Grad Celsius **Raum:** Abgedunkelt
Messinstrument: kalibriertes Spektrometer **Einheit:** PAR in $\mu\text{mol}/\text{m}^2/\text{sec}$
Abstand von Sensor bis uk Modul: 30 cm **Leistungsangabe Hersteller:** 26 Watt

cm/cm	42	36	30	24	18	12	6	0	6	12	18	24	30	36	42		
30	5.5	7.0	8.0	9.5	11.0	12.0	12.5	12.5	12.5	12.0	11.0	9.5	8.0	7.0	5.5	143.50	
24	7.0	8.5	11.5	13.5	15.5	17.5	18.0	18.5	18.0	17.5	15.5	13.5	11.5	8.5	7.0	201.50	147.50
18	9.0	12.0	15.5	18.5	22.0	24.0	25.0	26.0	25.0	24.0	22.0	18.5	15.5	12.0	9.0	278.00	205.00
12	11.0	15.0	19.5	24.5	28.0	31.0	33.0	33.0	33.0	31.0	28.0	24.5	19.5	15.0	11.0	357.00	266.00
6	12.5	17.5	23.5	29.0	33.5	37.0	39.5	40.0	39.5	37.0	33.5	29.0	23.5	17.5	12.5	425.00	318.00
0	13.0	18.5	24.0	30.5	35.5	39.5	41.0	42.0	41.0	39.5	35.5	30.5	24.0	18.5	13.0	446.00	335.00
6	12.5	17.5	23.5	29.0	33.5	37.0	39.5	40.0	39.5	37.0	33.5	29.0	23.5	17.5	12.5	425.00	318.00
12	11.0	15.0	19.5	24.5	28.0	31.0	33.0	33.0	33.0	31.0	28.0	24.5	19.5	15.0	11.0	357.00	266.00
18	9.0	12.0	15.5	18.5	22.0	24.0	25.0	26.0	25.0	24.0	22.0	18.5	15.5	12.0	9.0	278.00	205.00
24	7.0	8.5	11.5	13.5	15.5	17.5	18.0	18.5	18.0	17.5	15.5	13.5	11.5	8.5	7.0	201.50	147.50
30	5.5	7.0	8.0	9.5	11.0	12.0	12.5	12.5	12.5	12.0	11.0	9.5	8.0	7.0	5.5	143.50	

Beleuchtungsstärke 100 % **x =** 0.210 **Summe** 3'256.00 2'208.00
Leistungsaufnahme gemessen 25.5 Watt **y =** 0.191 **PAR pro Watt** 127.69 86.59
Lux 1'800 lx **z =** 0.599 **PAR im Mittel** 19.73 27.26

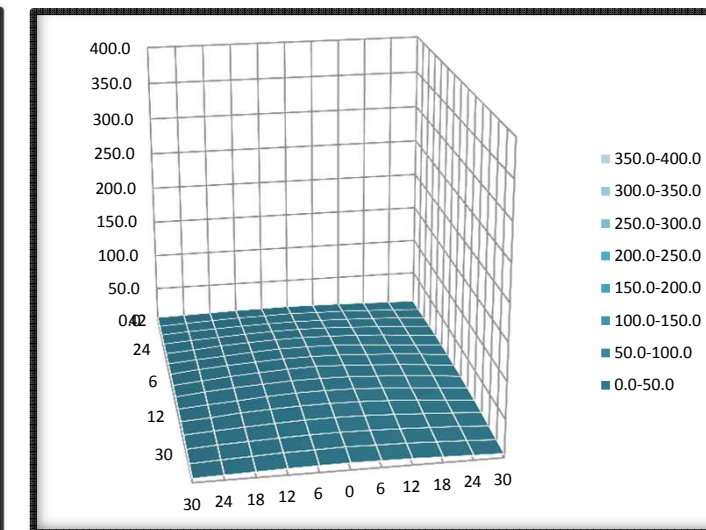
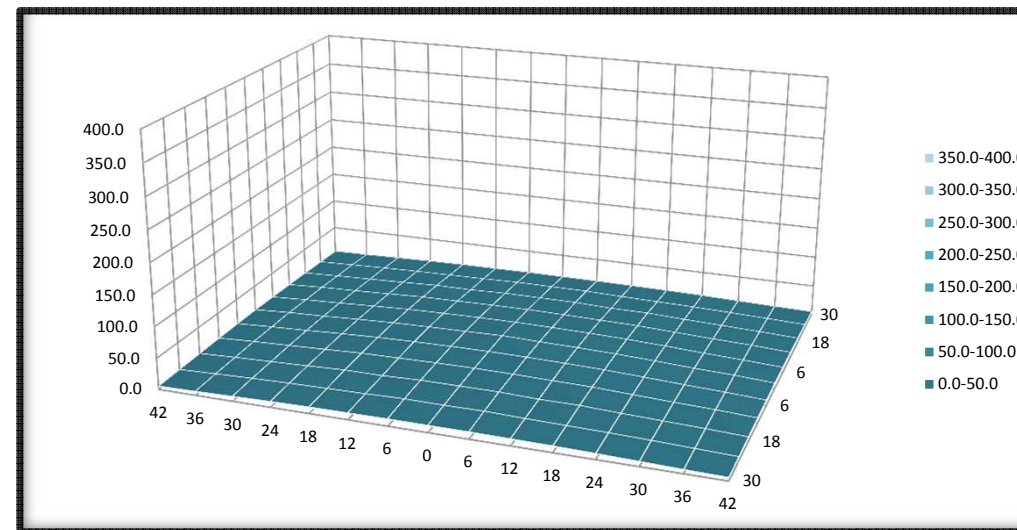


H = 45cm

Modul: Giesemann PULZAR LED Standardversion
Raumtemperatur: 19 Grad Celsius **Raum:** Abgedunkelt
Messinstrument: kalibriertes Spektrometer **Einheit:** PAR in $\mu\text{mol}/\text{m}^2/\text{sec}$
Abstand von Sensor bis uk Modul: 45 cm **Leistungsangabe Hersteller:** 26 Watt

cm/cm	42	36	30	24	18	12	6	0	6	12	18	24	30	36	42		
30	5.0	6.0	7.5	9.0	10.0	10.5	11.0	11.0	11.0	10.5	10.0	9.0	7.5	6.0	5.0	129.00	
24	6.0	8.0	10.0	11.5	12.5	13.5	14.5	14.5	14.5	13.5	12.5	11.5	10.0	8.0	6.0	167.50	119.50
18	7.0	9.5	11.5	13.5	16.0	16.0	18.0	18.0	18.0	16.0	16.0	13.5	11.5	9.5	7.0	201.00	145.00
12	8.0	11.0	13.0	15.5	18.0	19.0	20.0	20.5	20.0	19.0	18.0	15.5	13.0	11.0	8.0	229.50	165.50
6	8.5	11.5	14.0	17.0	19.5	21.0	22.0	22.5	22.0	21.0	19.5	17.0	14.0	11.5	8.5	249.50	181.50
0	9.0	12.5	14.5	17.5	20.0	21.5	22.5	24.0	22.5	21.5	20.0	17.5	14.5	12.5	9.0	259.00	187.00
6	8.5	11.5	14.0	17.0	19.5	21.0	22.0	22.5	22.0	21.0	19.5	17.0	14.0	11.5	8.5	249.50	181.50
12	8.0	11.0	13.0	15.5	18.0	19.0	20.0	20.5	20.0	19.0	18.0	15.5	13.0	11.0	8.0	229.50	165.50
18	7.0	9.5	11.5	13.5	16.0	16.0	18.0	18.0	18.0	16.0	16.0	13.5	11.5	9.5	7.0	201.00	145.00
24	6.0	8.0	10.0	11.5	12.5	13.5	15.0	15.0	15.0	13.5	12.5	11.5	10.0	8.0	6.0	168.00	120.00
30	5.0	6.0	7.5	9.0	10.0	10.5	11.0	11.0	11.0	10.5	10.0	9.0	7.5	6.0	5.0	129.00	

Beleuchtungsstärke 100 % **x =** 0.207 **Summe** 2'212.50 1'410.50
Leistungsaufnahme gemessen 25.5 Watt **y =** 0.188 **PAR pro Watt** 86.76 55.31
Lux 970 lx **z =** 0.606 **PAR im Mittel** 13.41 17.41



H = 60 cm

Modul: Giesemann PULZAR LED Standardversion
Raumtemperatur: 19 Grad Celsius **Raum:** Abgedunkelt
Messinstrument: kalibriertes Spektrometer **Einheit:** PAR in $\mu\text{mol}/\text{m}^2/\text{sec}$
Abstand von Sensor bis uk Modul: 60 cm **Leistungsangabe Hersteller:** 26 Watt

cm/cm	42	36	30	24	18	12	6	0	6	12	18	24	30	36	42		
30	4.0	4.5	5.5	6.5	7.5	8.0	8.5	8.5	8.5	8.0	7.5	6.5	5.5	4.5	4.0	97.50	
24	4.5	5.5	6.5	7.5	8.0	9.0	9.5	9.5	9.5	9.0	8.0	7.5	6.5	5.5	4.5	110.50	77.50
18	5.5	6.5	7.5	8.5	10.0	10.0	11.0	11.0	11.0	10.0	10.0	8.5	7.5	6.5	5.5	129.00	90.00
12	6.0	7.0	8.5	9.5	10.5	11.0	12.0	12.0	12.0	11.0	10.5	9.5	8.5	7.0	6.0	141.00	98.00
6	6.5	8.0	9.5	10.5	11.5	12.5	13.0	13.0	13.0	12.5	11.5	10.5	9.5	8.0	6.5	156.00	108.00
0	6.5	8.0	9.5	10.5	12.0	12.5	13.0	13.0	13.0	12.5	12.0	10.5	9.5	8.0	6.5	157.00	109.00
6	6.5	8.0	9.5	10.5	11.5	12.5	13.0	13.0	13.0	12.5	11.5	10.5	9.5	8.0	6.5	156.00	108.00
12	6.0	7.0	8.5	9.5	10.5	11.0	12.0	12.0	12.0	11.0	10.5	9.5	8.5	7.0	6.0	141.00	98.00
18	5.5	6.5	7.5	8.5	10.0	10.0	11.0	11.0	11.0	10.0	10.0	8.5	7.5	6.5	5.5	129.00	90.00
24	4.5	5.5	6.5	7.5	8.0	9.0	9.5	9.5	9.5	9.0	8.0	7.5	6.5	5.5	4.5	110.50	77.50
30	4.0	4.5	5.5	6.5	7.5	8.0	8.5	8.5	8.5	8.0	7.5	6.5	5.5	4.5	4.0	97.50	

Beleuchtungsstärke 100 % **x =** 0.203 **Summe** 1'425.00 856.00
Leistungsaufnahme gemessen 25.5 Watt **y =** 0.185 **PAR pro Watt** 55.88 33.57
Lux 580 lx **z =** 0.611 **PAR im Mittel** 8.64 10.57

