

Lichttechnischer Prüfbefund

Familie
Floodlight FL21 mini

Bestell-Nr.: 5XA7771D4A1A
EAN: 4058352653470

LP-Nummer
59304_112



Ausführung Tragbügel
Optik asymmetrisch strahlend PL43
Abdeckung Einscheibensicherheitsglas (ESG)
Bestückung LED 4000 K | CRI ≥ 70
Betriebsgerät EVG SITECO iQ
Bemessungswerte Nettolichtstrom = 19090 lm
Systemleistung = 143.0 W
Lichtausbeute = 133.5 lm/W

Seriendokumentation
26.08.2022

siteco

Lichtstärke in cd/klm

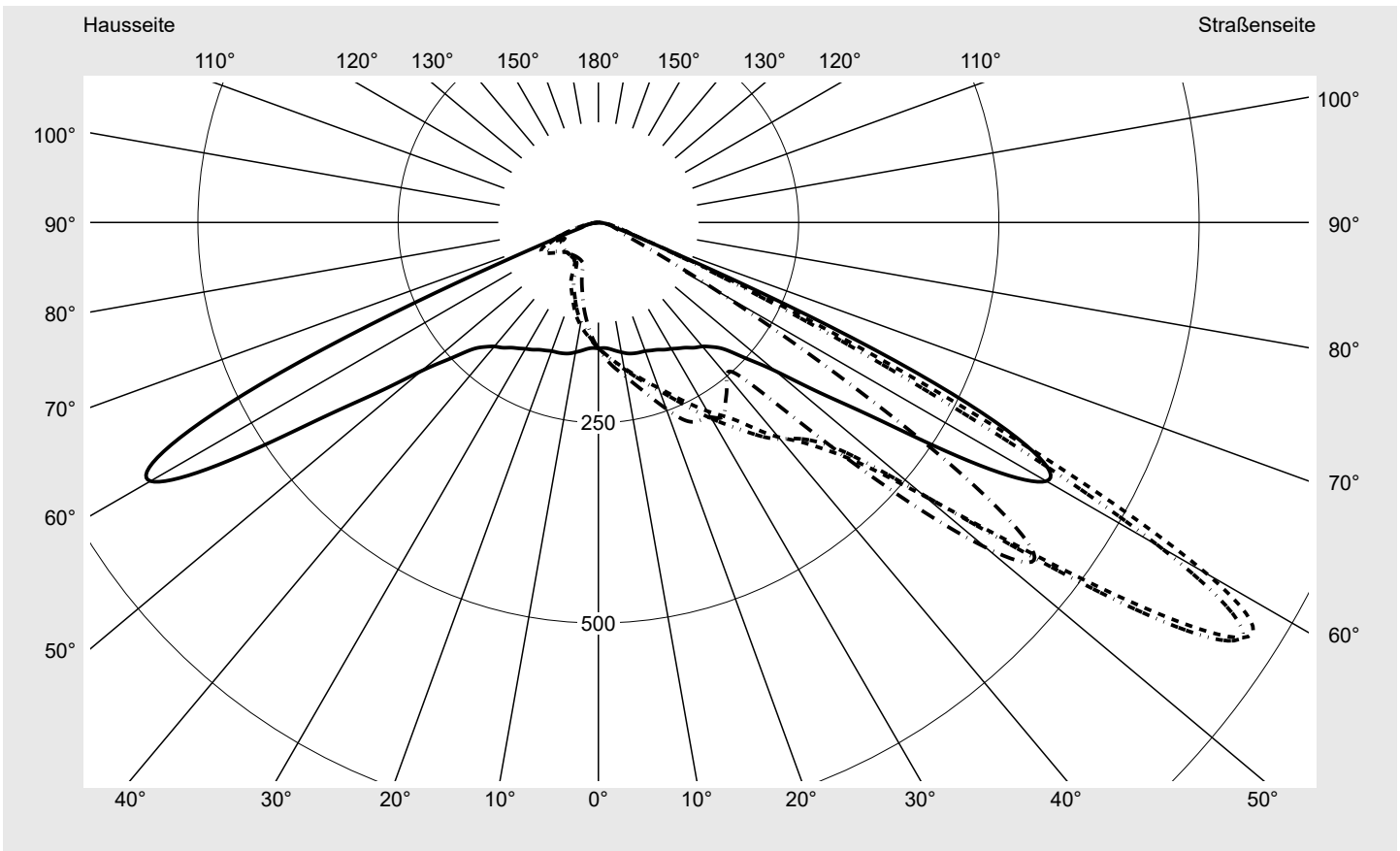
C180-0

C220-40

C225-45

C270-90

Imax: 962 cd/klm



Leuchtenbetriebswirkungsgrade

Eta 100.0%
Eta 0° - 90° 100.0%
Eta 90° - 180° 0.0%

Lichtstärkeklasse nach EN13201-2

Klasse: G6
Imax 70° 58.9
Imax 80° 16.9
Imax 90° 0.0
Imax >90° 0.0
Imax >95° 0.0

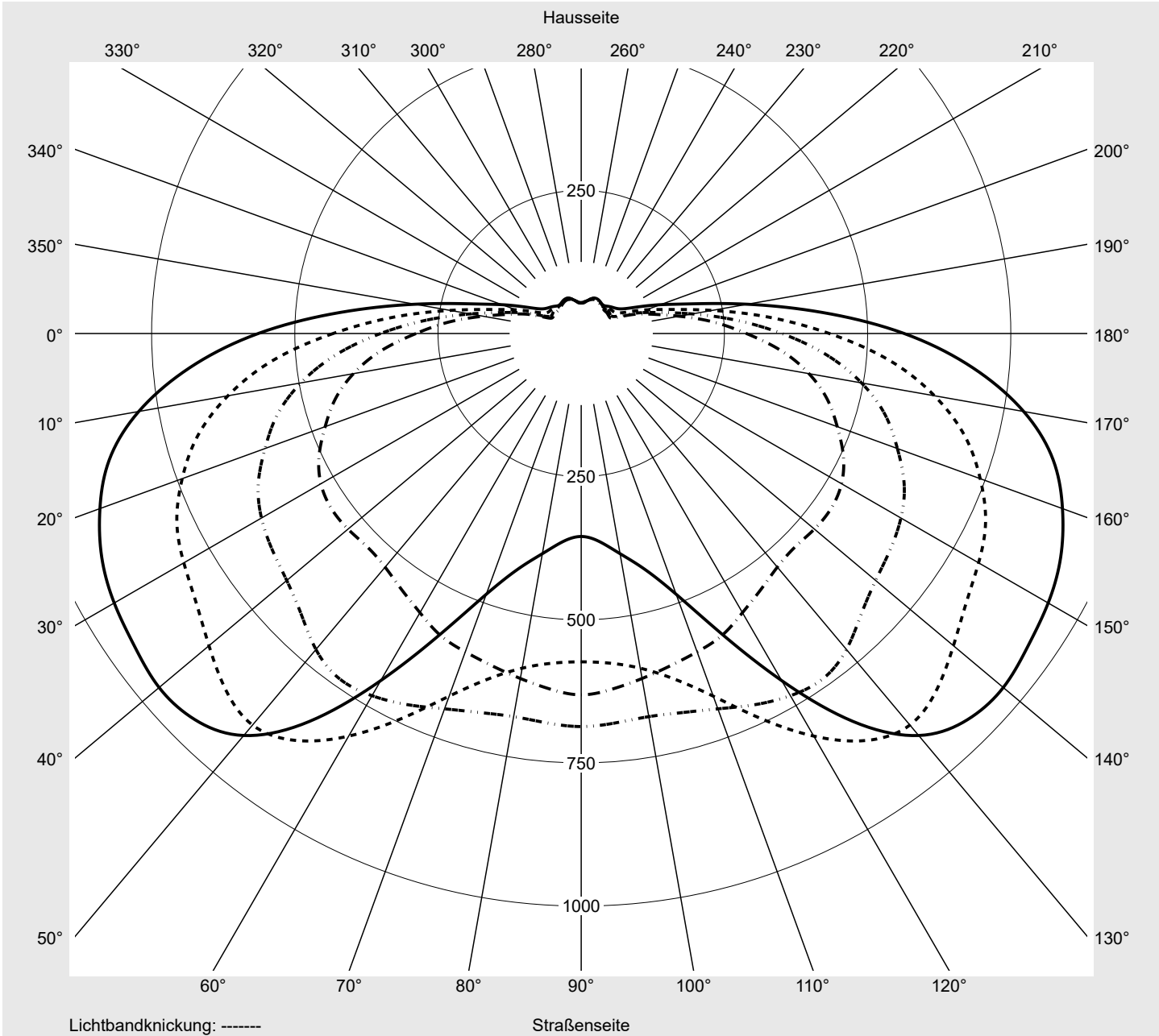
Messbedingungen

DIN EN 13032 und DIN 5032

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Kegelmantelkurven in cd/klm **KMK 57,5°** **KMK 55°** **KMK 52,5°** **KMK 50°** **siteco**



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Wertetabelle Lichtstärkemessung	Maximale Lichtstärke	siteco
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C- Ebenen	0° 180°	5° 175°	10° 170°	15° 165°	20° 160°	25° 155°	30° 150°	35° 145°	40° 140°	45° 135°	50° 130°	55° 125°	60° 120°
γ	Lichtstärke in cd/klm												
0,0°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1
2,5°	156.9	157.8	158.6	159.4	160.2	161.0	161.7	162.4	163.1	163.7	164.4	165.0	165.6
5,0°	158.3	160.3	161.9	163.5	165.0	166.4	167.6	168.8	170.0	171.0	172.1	173.0	174.0
7,5°	161.4	164.1	166.5	168.8	170.8	172.7	174.4	175.8	177.2	178.4	179.5	180.6	181.6
10,0°	164.4	168.1	171.3	174.2	176.8	179.2	181.2	182.9	184.5	185.9	187.2	188.4	189.4
12,5°	167.4	171.9	175.9	179.6	182.7	185.7	188.2	190.5	192.5	194.4	195.9	197.4	198.5
15,0°	169.2	174.7	179.7	184.2	188.1	191.7	195.0	198.2	200.9	203.5	205.4	207.1	208.3
17,5°	170.1	176.8	183.0	188.6	193.4	198.0	202.4	206.5	210.2	213.4	215.9	217.8	219.1
20,0°	170.8	178.9	186.4	193.1	198.9	204.6	210.0	215.2	219.8	223.8	226.6	229.0	230.4
22,5°	172.9	182.4	191.1	199.1	206.0	212.8	219.3	225.5	231.1	236.1	239.6	242.2	243.8
25,0°	175.2	186.7	196.7	206.0	214.3	222.5	230.0	237.3	244.1	250.2	255.0	258.3	259.3
27,5°	179.0	192.2	203.8	214.5	224.8	234.2	242.1	249.6	257.6	265.9	272.7	276.2	277.6
30,0°	182.1	198.0	211.4	223.9	236.8	246.8	255.3	263.0	271.9	282.7	291.6	295.0	295.2
32,5°	186.3	204.6	220.0	233.6	246.8	258.6	268.6	277.2	285.6	299.6	313.0	316.6	314.8
35,0°	190.7	212.2	229.6	244.3	257.6	270.0	281.5	292.9	302.1	317.6	336.0	344.0	332.8
37,5°	197.0	222.6	243.9	261.0	276.5	291.4	305.0	318.1	325.8	337.0	354.4	355.4	337.3
40,0°	202.1	234.4	261.9	285.4	306.6	325.4	340.0	349.0	349.7	353.0	352.8	344.0	326.3
42,5°	210.8	246.5	277.6	303.1	326.1	347.8	364.5	372.2	370.8	365.9	352.1	338.3	320.8
45,0°	224.6	267.6	303.3	332.4	357.2	380.8	398.8	405.5	401.1	387.6	369.4	352.4	336.5
47,5°	252.0	299.0	341.4	375.5	403.1	429.0	447.0	452.6	447.0	431.9	416.5	405.9	403.2
50,0°	288.4	351.5	403.8	444.9	475.7	505.0	524.8	532.6	531.5	527.6	532.6	546.3	563.0
52,5°	350.2	430.3	497.0	549.5	587.4	622.1	644.5	658.5	671.1	691.9	720.5	736.0	730.5
55,0°	433.2	540.5	626.3	693.6	741.3	779.0	801.1	820.5	848.3	878.5	892.7	867.8	812.0
57,5°	563.9	686.2	784.4	853.1	894.2	923.7	941.4	952.1	962.0	953.8	916.6	827.1	700.1
60,0°	645.7	773.4	861.0	921.1	936.8	940.1	941.0	920.1	877.5	808.2	711.0	584.2	450.7
62,5°	601.4	706.1	762.3	796.7	772.7	741.4	711.6	663.9	591.2	503.0	409.0	323.3	249.9
65,0°	409.8	448.6	471.6	480.8	450.9	418.9	389.1	352.4	303.7	251.6	208.1	168.8	130.0
67,5°	142.0	167.5	172.5	173.5	165.4	156.1	148.4	136.4	124.0	107.2	91.4	76.1	61.2
70,0°	49.3	49.2	46.7	47.4	48.3	48.8	50.1	50.4	52.3	51.7	51.7	53.8	51.3
72,5°	24.2	24.8	24.5	24.7	25.7	27.0	28.6	31.5	34.4	37.5	41.5	41.6	39.5
75,0°	19.2	21.9	20.2	19.9	20.5	20.8	21.6	24.6	26.1	26.6	28.4	29.8	29.8
77,5°	16.4	17.9	15.3	14.7	15.2	15.4	16.1	17.2	18.1	18.6	19.1	20.4	20.9
80,0°	12.2	11.0	10.3	9.9	10.2	10.8	10.9	11.8	12.7	13.2	13.0	13.2	14.0
82,5°	6.4	7.0	5.8	5.8	6.1	6.6	7.3	7.3	7.7	8.7	8.4	8.0	8.4
85,0°	2.9	3.0	2.8	2.8	3.1	3.3	3.7	3.6	3.6	3.7	3.7	3.8	3.8
87,5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.0	0.9	0.9
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

C- Ebenen	65° 115°	70° 110°	75° 105°	80° 100°	85° 95°	90°	185° 355°	190° 350°	195° 345°	200° 340°	205° 335°	210° 330°	215° 325°
γ	Lichtstärke in cd/klm												
0,0°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1
2,5°	166.1	166.5	166.9	167.3	167.4	167.6	156.1	155.1	154.2	153.4	152.5	151.6	150.9
5,0°	174.8	175.6	176.4	177.0	177.4	177.6	156.7	154.7	152.7	150.7	148.7	146.7	144.8
7,5°	182.6	183.6	184.5	185.4	186.0	186.3	158.7	155.6	152.5	149.3	146.1	142.9	139.7
10,0°	190.4	191.5	192.7	193.9	194.8	195.2	160.7	156.7	152.4	148.0	143.4	138.8	134.2
12,5°	199.6	200.7	202.1	203.8	205.4	206.1	162.5	157.2	151.8	146.0	140.0	134.0	128.1
15,0°	209.4	210.5	212.0	214.4	216.9	218.0	163.0	156.5	149.7	142.6	135.2	127.9	120.8
17,5°	220.0	221.0	222.6	225.8	230.0	232.3	162.6	154.7	146.5	138.1	129.3	120.6	112.3
20,0°	231.5	232.1	233.3	236.5	243.2	247.5	161.8	152.4	142.9	133.0	122.7	113.0	103.9
22,5°	244.2	244.1	244.3	246.8	256.3	263.5	162.1	151.0	139.5	127.7	116.3	105.8	96.6
25,0°	258.9	257.0	256.0	257.5	267.6	274.6	162.8	149.5	135.7	122.5	110.3	99.5	90.3
27,5°	276.0	272.5	269.9	270.5	279.2	277.7	164.1	148.6	132.8	118.3	105.4	94.5	83.9
30,0°	292.6	285.9	280.7	280.7	287.6	280.6	164.7	147.1	130.0	114.5	101.4	89.8	71.6
32,5°	308.3	293.6	283.9	282.7	289.4	288.0	166.1	146.2	128.0	112.0	98.7	81.8	61.0
35,0°	320.0	299.4	285.4	284.6	281.9	276.3	166.9	144.5	125.1	109.2	94.6	69.0	57.3
37,5°	318.6	295.6	280.2	274.7	266.5	263.2	168.9	143.5	122.9	106.8	85.1	59.9	56.2
40,0°	306.3	286.3	269.5	257.9	251.2	249.2	169.3	141.4	120.1	103.5	70.1	56.9	55.1
42,5°	301.9	283.2	270.0	261.0	258.6	258.3	173.9	143.3	119.8	99.9	64.3	56.3	54.4
45,0°	325.6	319.6	322.8	329.4	337.4	341.4	185.0	148.7	120.3	97.0	63.3	56.8	54.7
47,5°	416.5	432.9	449.9	468.0	483.3	490.4	204.3	158.9	123.6	96.2	63.5	57.0	55.5
50,0°	581.7	591.7	600.9	611.9	623.4	631.1	231.4	173.7	129.8	97.6	64.8	57.1	57.2
52,5°	715.5	697.6	685.4	679.5	682.8	686.5	270.2	196.9	141.6	105.0	72.5	61.0	60.9
55,0°	742.0	674.1	624.4	593.6	578.0	573.5	328.4	232.3	162.1	121.0	88.8	71.9	67.7
57,5°	577.9	484.7	425.9	390.5	364.8	354.5	422.3	294.4	200.2	147.1	110.1	86.5	76.1
60,0°	351.0	288.2	242.2	207.0	181.1	173.8	495.8	349.8	239.8	173.3	127.8	98.5	84.3
62,5°	196.1	156.4	115.6	85.6	69.7	74.4	480.8	347.5	247.8	181.6	135.9	106.0	90.6
65,0°	100.6	78.5	46.7	41.6	38.9	38.1	316.1	238.2	187.4	143.3	115.4	97.1	87.3
67,5°	55.1	50.6	41.2	38.3	34.3	32.5	105.3	78.6	92.0	81.1	74.4	71.1	71.0
70,0°	45.1	39.2	33.6	30.6	27.3	25.3	35.1	30.6	34.0	41.3	43.2	46.3	51.7
72,5°	37.2	32.9	28.3	25.3	22.7	20.3	23.4	24.0	24.3	26.9	28.2	31.6	37.1
75,0°	29.0	26.7	22.7	19.9	19.3	17.0	20.3	17.9	18.7	20.4	21.0	23.9	27.9
77,5°	21.1	19.3	17.1	15.6	14.5	12.9	18.2	14.4	14.4	15.5	15.4	17.1	19.8
80,0°	13.9	12.7	11.3	10.4	9.4	8.6	11.9	12.3	9.7	11.4	11.2	12.0	13.1
82,5°	8.2	7.6	7.1	6.4	5.7	5.4	6.4	10.7	6.2	7.6	7.3	7.3	7.8
85,0°	3.7	3.7	3.5	3.0	2.6	2.5	2.9	5.9	3.4	3.5	3.4	3.4	3.8
87,5°	0.8	0.7	0.7	0.6	0.6	0.6	1.2	1.5	1.3	1.4	1.4	1.4	1.5
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

C- Ebenen	220° 320°	225° 315°	230° 310°	235° 305°	240° 300°	245° 295°	250° 290°	255° 285°	260° 280°	265° 275°	270°	Phi-Zone	Summe Phi-Zone
γ	Lichtstärke in cd/klm											Lichtstrom in lm/klm	
0,0°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	0.2	0.2
2,5°	150.1	149.4	148.7	148.2	147.7	147.3	147.0	146.7	146.4	146.3	146.4	1.9	2.1
5,0°	142.9	141.3	139.6	138.1	136.8	135.8	134.9	134.1	133.6	133.2	133.2	3.7	5.8
7,5°	136.6	133.7	130.8	128.4	126.1	124.2	122.5	121.2	120.3	119.7	119.6	5.6	11.4
10,0°	129.7	125.6	121.6	118.1	114.9	112.3	110.1	108.3	107.0	106.2	106.0	7.5	18.9
12,5°	122.3	117.0	112.0	107.4	103.3	99.8	96.8	94.6	92.9	92.0	91.7	9.3	28.2
15,0°	113.9	107.5	101.5	96.2	91.8	88.0	85.0	82.6	81.0	80.0	79.7	11.1	39.3
17,5°	104.5	97.7	91.5	86.2	81.6	77.5	74.0	71.2	69.2	68.1	67.8	12.9	52.3
20,0°	96.0	89.1	82.5	75.4	68.6	63.5	60.1	58.0	56.8	56.2	56.0	14.7	67.0
22,5°	88.6	80.3	70.2	61.8	57.5	55.7	54.6	53.8	53.3	53.0	53.0	16.7	83.7
25,0°	81.1	69.0	59.9	56.2	54.9	54.0	53.2	52.5	52.1	51.8	51.8	18.8	102.5
27,5°	68.9	58.8	55.8	54.7	53.9	53.2	52.6	52.0	51.5	51.2	51.2	21.2	123.7
30,0°	58.7	55.9	54.8	54.2	53.6	52.9	52.3	51.7	51.2	50.9	50.8	23.6	147.3
32,5°	56.2	55.0	54.4	54.0	53.4	52.9	52.3	51.7	51.2	50.8	50.8	26.1	173.4
35,0°	55.4	54.5	54.1	53.9	53.5	53.2	52.8	52.2	51.5	51.1	51.0	28.6	202.0
37,5°	55.0	54.2	54.0	54.1	54.1	54.0	53.6	52.9	52.2	51.6	51.5	31.0	233.0
40,0°	54.3	53.9	54.1	54.7	55.0	55.1	54.9	54.2	53.4	52.4	52.2	33.3	266.3
42,5°	53.7	53.9	54.5	55.5	56.3	56.8	56.8	56.0	54.7	53.4	52.9	36.0	302.3
45,0°	53.7	54.1	55.5	56.9	58.2	59.0	59.0	57.8	56.2	54.4	53.7	41.1	343.4
47,5°	54.7	54.8	56.7	58.3	59.9	61.1	61.2	59.5	57.4	55.1	54.2	50.3	393.8
50,0°	57.5	57.0	58.4	59.7	61.8	63.4	63.3	61.0	58.0	55.4	54.4	64.1	457.9
52,5°	61.5	60.0	60.1	61.2	63.5	65.0	64.7	61.9	58.2	55.1	54.1	80.0	537.8
55,0°	66.0	63.3	61.4	62.1	64.4	66.0	65.5	62.2	58.3	54.6	53.7	93.3	631.1
57,5°	71.2	67.1	63.3	63.0	65.1	66.5	65.8	62.2	57.8	53.9	53.2	98.8	729.9
60,0°	76.7	70.2	65.0	63.6	65.1	66.2	64.8	60.9	56.1	52.1	52.0	92.1	822.0
62,5°	80.1	71.9	65.9	63.1	63.6	63.8	61.8	58.0	54.1	50.5	51.4	72.6	894.5
65,0°	77.8	70.7	64.4	60.4	59.6	59.5	57.3	54.0	51.0	47.3	47.6	45.7	940.2
67,5°	68.6	64.3	59.3	55.5	54.0	53.4	51.3	48.0	43.7	45.1	64.2	21.9	962.1
70,0°	54.2	53.8	50.6	47.9	46.9	45.9	43.9	40.6	36.7	36.5	58.9	11.5	973.6
72,5°	41.2	42.2	41.3	39.8	38.7	37.9	36.1	32.7	29.4	28.7	34.9	8.3	981.9
75,0°	31.2	32.5	32.8	32.1	31.5	30.8	29.0	25.2	23.1	22.3	23.2	6.5	988.4
77,5°	22.1	24.0	24.4	24.1	24.0	24.0	22.2	18.4	16.4	15.3	15.3	4.9	993.3
80,0°	14.9	16.0	16.3	16.1	16.3	16.9	15.3	12.2	10.7	9.5	9.3	3.3	996.6
82,5°	8.9	9.6	9.8	9.6	9.6	9.5	8.5	7.3	6.4	5.6	5.2	2.1	998.7
85,0°	4.3	4.6	4.6	4.6	4.6	4.3	3.8	3.5	3.1	2.7	2.6	1.0	999.7
87,5°	1.5	1.6	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.3	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	siteco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W] Lebensdauerbeginn	Systemleistung [W] Lebensdauerende	Systemleistung [W] Durchschnitt
100	254	254	19090	143.0	151.5	147.2
95	241	252	18113	132.7	140.6	136.6
90	229	250	17211	123.8	131.1	127.4
85	216	248	16234	114.6	121.2	117.9
80	203	246	15257	105.7	111.9	108.8
75	190	243	14280	97.3	102.8	100.0
70	178	241	13378	89.9	94.9	92.4
65	165	238	12401	82.0	86.7	84.4
60	152	235	11424	74.5	78.7	76.6
55	140	232	10522	67.8	71.5	69.6
50	127	229	9545	60.8	64.1	62.4
45	114	225	8568	53.9	56.9	55.4
40	102	221	7666	47.7	50.4	49.0
35	89	216	6689	41.2	43.5	42.4
30	76	210	5712	34.9	36.8	35.8
25	63	203	4735	28.9	30.4	29.6
20	51	195	3833	23.5	24.6	24.0
15	38	184	2856	17.9	18.7	18.3
11	27	172	2029	13.1	13.8	13.4