

## Photometric test report

**Family**  
**Floodlight FL21 midi**

**Order number: 5XA7786F2D1A**  
**EAN: 4058352855881**

**LP number**  
**59303\_62**



<b>Version</b>	mounting bracket
<b>Optic</b>	asymmetric distribution PL52
<b>Cover</b>	toughened safety glass
<b>Lamps</b>	LED 3000 K   CRI ≥ 70
<b>Controlgear</b>	EVG-Smart Interface
<b>Rated values</b>	Net luminous flux = 35750 lm Power consumption = 271.6 W Luminous efficacy = 131.6 lm/W

**serial**  
**documentation**  
**06.07.2022**

**sitEco**

**Luminous intensity in cd/klm**

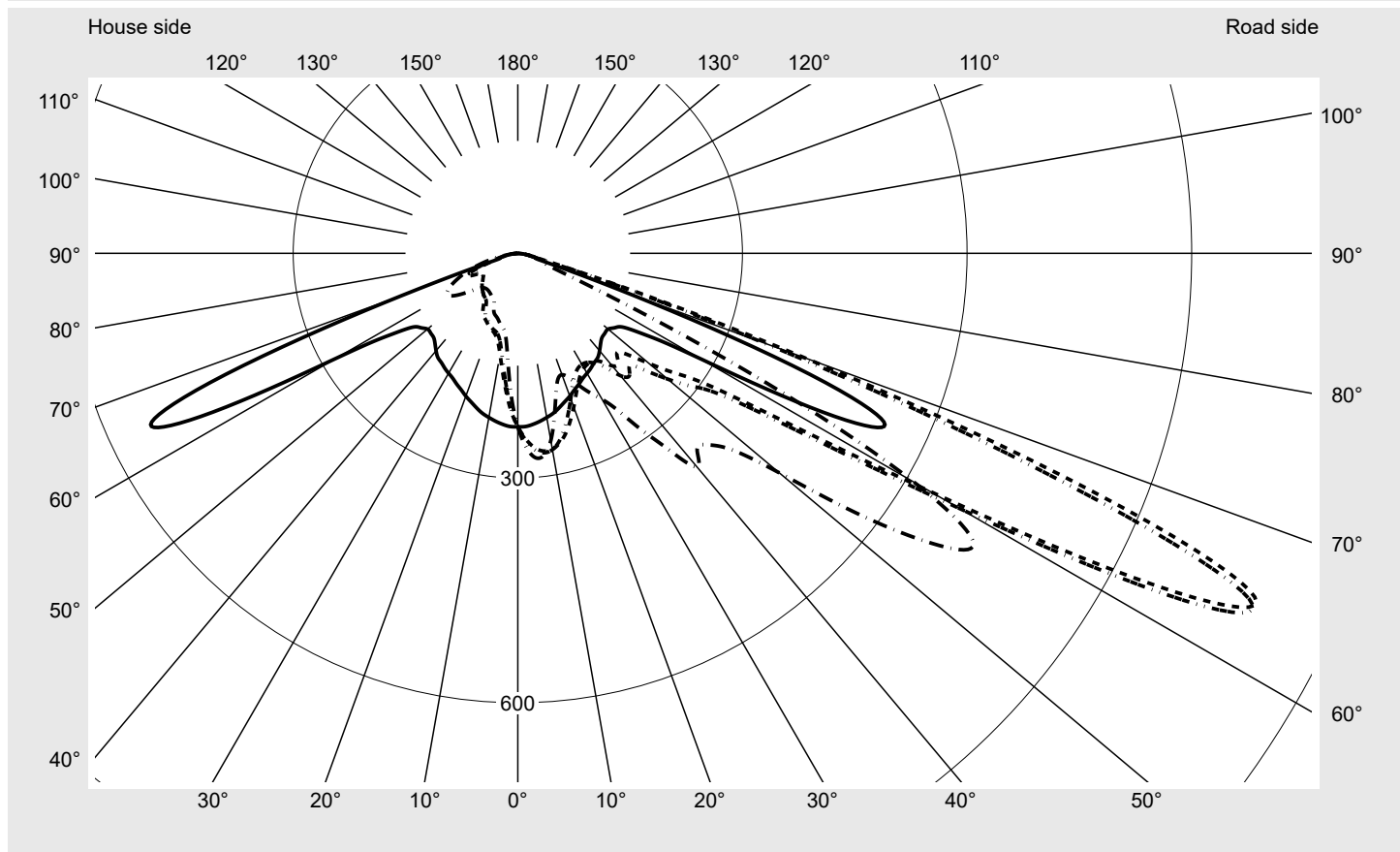
**C180-0**

**C215-35**

**C220-40**

**C270-90**

**Imax: 1086 cd/klm**



### Luminaire output ratios

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

### Luminous intensity class acc. to EN13201-2

Class:	G4
Imax 70°	458.7
Imax 80°	34.3
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

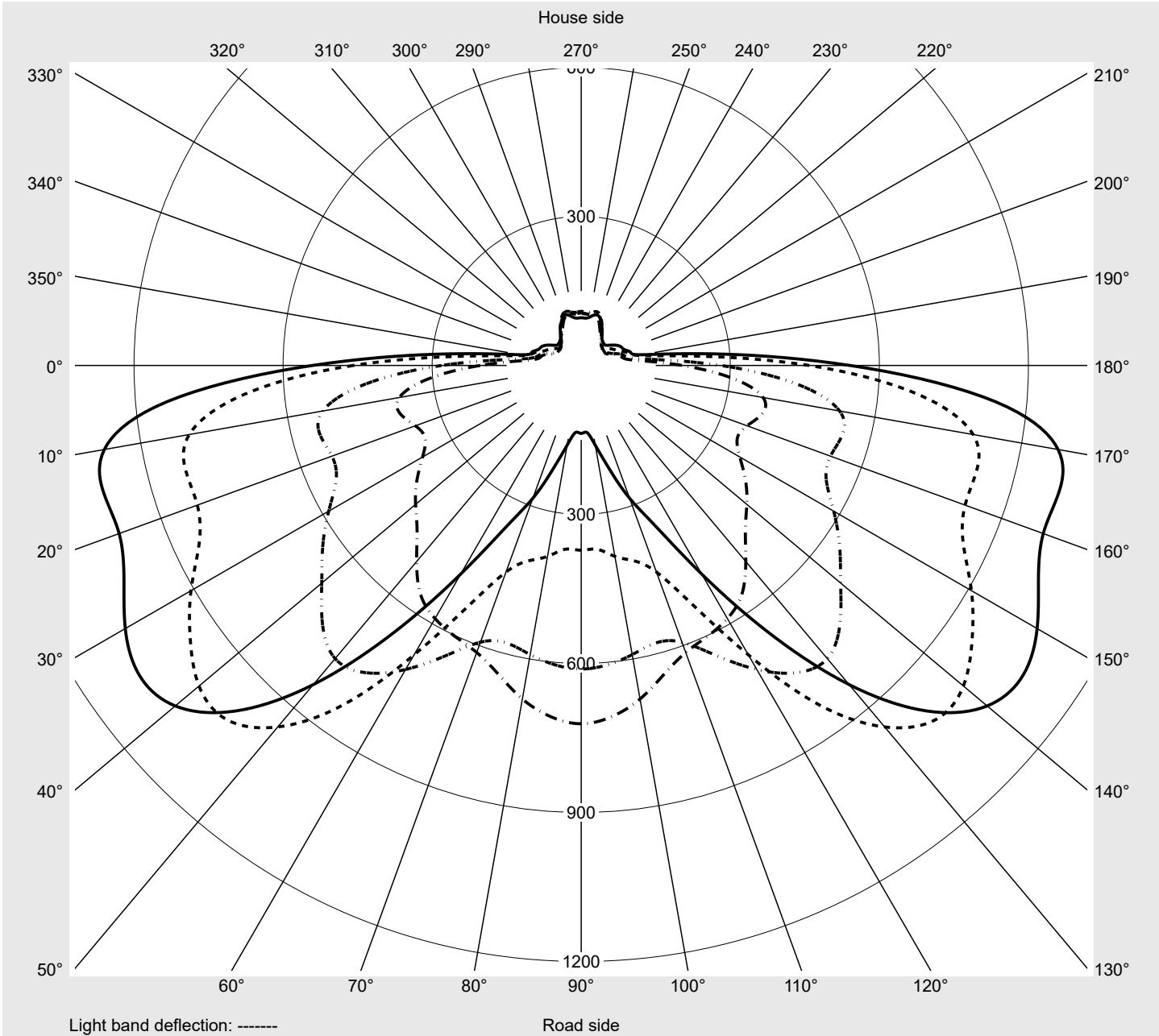
### Measurement conditions

DIN EN 13032 and DIN 5032

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**Envelope curve in cd/klm**      **KMK 65°**    **KMK 62,5°**    **KMK 60°**    **KMK 57,5°**      **siteco**



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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	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°
$\gamma$	Luminous intensity in cd/klm												
0,0°	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6
2,5°	231.5	234.5	237.2	239.9	242.1	244.3	246.4	248.4	250.2	251.6	253.1	254.6	255.7
5,0°	229.3	235.1	240.5	245.6	250.0	254.0	257.5	260.7	263.3	265.4	267.6	269.2	270.7
7,5°	226.2	234.9	242.4	249.0	254.6	259.4	263.2	266.3	268.6	269.8	270.8	271.5	271.7
10,0°	222.5	233.4	242.9	250.6	256.6	261.1	264.1	265.7	266.1	265.2	263.9	262.0	260.3
12,5°	218.7	231.6	242.6	250.5	256.0	259.4	260.3	259.1	256.5	252.4	247.8	242.9	238.0
15,0°	213.5	228.4	239.9	248.4	253.1	254.4	252.5	248.3	241.3	234.5	226.7	219.1	212.6
17,5°	207.9	224.8	237.0	245.2	248.3	246.8	241.7	233.7	224.0	213.8	204.3	195.8	189.0
20,0°	202.9	220.7	233.9	241.3	242.3	238.0	229.5	218.3	206.6	195.3	186.0	179.3	174.9
22,5°	197.4	217.4	230.8	237.1	235.8	228.3	216.6	203.4	190.7	180.7	174.3	171.2	170.7
25,0°	192.8	214.0	228.1	233.3	229.6	219.3	205.3	191.3	180.0	173.2	171.0	172.6	176.3
27,5°	188.1	211.9	226.4	230.2	223.9	211.1	195.6	181.8	173.4	171.3	174.7	181.5	189.2
30,0°	184.9	210.9	226.6	229.5	221.1	205.8	189.7	176.8	171.2	173.6	182.3	194.2	204.9
32,5°	181.7	210.8	227.6	229.3	218.6	201.5	185.7	174.8	172.7	179.7	193.4	209.7	223.3
35,0°	178.1	210.0	229.4	230.0	217.8	199.9	183.9	176.0	178.9	191.2	209.9	231.0	249.7
37,5°	175.4	210.6	231.6	232.2	219.4	200.9	186.3	182.3	191.3	210.3	235.9	263.9	289.1
40,0°	169.8	208.7	231.0	233.7	222.0	205.0	193.8	196.0	213.1	238.5	269.3	300.8	327.7
42,5°	163.7	204.8	228.0	230.0	216.3	199.0	190.4	198.6	220.8	245.1	271.5	296.4	317.0
45,0°	159.0	202.1	226.7	225.9	206.9	185.9	177.4	187.6	211.9	240.6	269.2	293.9	312.6
47,5°	157.8	206.0	234.1	231.9	210.9	189.3	184.8	201.3	231.8	263.5	288.6	307.1	321.7
50,0°	157.4	214.1	248.3	247.0	225.5	204.9	205.6	228.7	261.1	290.4	309.0	319.1	329.1
52,5°	163.2	228.6	268.5	268.3	246.7	228.5	234.7	261.3	291.0	312.6	324.0	330.0	348.1
55,0°	172.1	259.8	301.9	304.0	280.4	263.2	273.7	300.9	326.9	344.5	360.1	388.8	439.1
57,5°	203.4	308.5	371.7	376.8	355.2	346.7	368.6	403.7	435.1	467.2	515.3	563.4	588.4
60,0°	281.0	437.6	528.1	543.6	533.8	544.1	586.8	635.0	681.7	736.4	770.6	755.2	706.8
62,5°	459.0	683.9	801.0	823.5	822.2	848.4	906.9	960.5	1004.1	1008.6	950.1	833.7	672.9
65,0°	541.0	836.7	974.5	994.6	989.6	1015.3	1059.5	1086.1	1066.5	983.9	838.7	655.4	484.9
67,5°	421.8	721.2	884.2	915.6	892.2	875.4	867.2	831.1	750.0	630.8	494.5	376.5	281.8
70,0°	164.2	284.0	373.6	428.7	458.7	451.5	438.1	405.6	349.3	286.2	234.6	187.8	147.2
72,5°	37.8	50.0	56.7	67.7	100.8	124.5	127.5	125.3	110.6	85.4	86.9	78.5	67.8
75,0°	25.6	27.1	28.6	29.9	32.4	37.7	39.6	40.4	33.6	32.0	36.5	35.9	34.7
77,5°	18.9	19.4	20.1	20.7	21.4	22.5	22.9	23.3	22.7	23.1	24.1	24.2	25.6
80,0°	14.3	13.2	13.3	13.7	14.1	15.1	15.0	15.1	15.1	15.6	15.8	15.8	19.3
82,5°	8.4	7.6	7.8	8.1	8.3	9.0	9.0	8.9	9.1	9.3	9.4	9.2	10.5
85,0°	4.1	3.5	3.5	3.7	3.9	4.1	4.3	4.3	4.3	4.3	4.3	4.3	4.4
87,5°	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.1	1.1
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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**siteco**

Table of values for luminous intensities		Maximum luminous intensity											
C-planes	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	Luminous intensity in cd/klm												
0,0°	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6
2,5°	256.6	257.5	258.2	258.8	259.1	259.4	228.6	225.4	222.3	219.2	216.1	213.0	210.1
5,0°	271.7	272.4	273.1	273.6	273.9	274.0	223.0	216.4	209.6	202.9	196.2	189.6	183.4
7,5°	271.7	271.4	271.2	271.2	271.4	271.4	217.0	207.0	196.7	186.4	176.4	166.9	158.0
10,0°	257.9	256.3	254.9	254.1	254.0	253.8	210.4	197.3	183.8	170.7	158.0	146.5	136.7
12,5°	233.8	230.0	227.5	225.9	225.2	224.9	203.7	187.7	171.5	156.1	142.2	130.7	121.9
15,0°	206.9	202.4	199.3	197.4	196.4	196.3	196.1	177.5	159.4	143.0	129.7	120.2	113.7
17,5°	184.0	180.4	178.5	177.4	177.1	177.2	188.5	167.5	147.8	131.8	120.4	113.4	109.4
20,0°	172.4	171.1	171.0	171.5	172.1	172.5	180.7	157.7	137.5	122.6	113.6	109.0	106.6
22,5°	171.7	173.3	175.3	177.6	179.5	180.3	173.5	148.7	128.5	115.4	108.6	105.6	103.3
25,0°	180.4	184.0	187.5	191.1	194.0	195.2	166.1	140.4	120.9	110.1	105.1	102.4	99.8
27,5°	194.9	198.1	201.4	206.2	209.6	210.4	159.8	133.1	114.9	105.9	102.2	99.3	96.7
30,0°	211.0	213.4	216.8	223.3	225.7	225.2	153.2	125.9	109.4	102.4	99.3	96.6	93.0
32,5°	230.7	234.4	240.4	248.9	249.2	248.6	147.8	119.8	104.8	99.1	96.4	93.6	86.1
35,0°	260.3	266.9	278.0	288.2	286.9	287.5	141.1	113.3	99.9	95.7	92.6	86.8	78.5
37,5°	303.6	312.8	322.9	327.5	328.1	329.6	135.0	107.3	95.8	92.5	86.3	78.6	74.0
40,0°	343.2	350.8	360.0	365.5	369.3	372.3	127.7	101.3	91.9	89.1	78.2	72.6	71.6
42,5°	329.7	335.0	342.0	348.1	352.2	354.4	120.9	96.0	88.5	85.4	72.4	69.5	69.2
45,0°	325.0	331.5	341.4	352.4	358.7	361.7	113.7	91.1	85.4	81.8	68.4	66.7	66.9
47,5°	334.5	343.3	356.2	373.7	383.7	388.7	109.8	87.7	82.9	78.3	65.3	64.2	64.3
50,0°	344.2	365.5	393.0	427.0	447.6	455.9	106.1	84.9	80.8	74.6	62.0	61.6	61.6
52,5°	386.7	435.0	483.5	531.2	558.8	569.1	104.9	83.4	79.4	71.3	59.2	58.9	58.9
55,0°	491.9	536.5	582.5	630.2	661.6	674.9	106.0	83.1	78.7	67.9	56.9	56.2	56.5
57,5°	601.7	615.0	643.8	682.0	709.6	721.4	114.8	85.9	79.7	66.3	55.7	54.1	54.2
60,0°	644.7	592.9	578.6	591.2	605.1	611.2	140.6	94.7	85.1	70.0	59.8	55.6	53.5
62,5°	532.1	442.6	407.1	390.4	371.5	372.0	218.5	116.7	98.1	83.3	74.8	67.3	59.4
65,0°	359.7	284.4	213.4	163.1	135.7	136.8	267.6	124.6	102.7	92.8	88.5	81.4	71.2
67,5°	212.7	163.6	70.8	55.1	51.3	50.3	137.5	86.1	80.6	78.6	79.5	76.7	70.5
70,0°	116.8	92.0	45.7	40.5	39.5	39.3	53.1	45.7	45.1	46.7	49.3	52.7	53.8
72,5°	57.5	49.2	35.9	34.4	34.4	35.0	34.1	33.0	31.8	31.7	32.8	35.6	37.7
75,0°	32.7	31.8	30.6	28.9	27.7	28.0	27.3	26.2	25.0	25.1	26.1	27.7	29.9
77,5°	32.1	32.2	25.5	20.8	19.4	19.6	20.3	19.4	18.9	19.4	20.1	21.7	22.9
80,0°	34.3	31.4	17.5	13.9	12.8	12.7	15.0	13.6	13.2	13.8	14.5	15.5	16.1
82,5°	16.1	15.6	10.1	8.2	7.5	7.1	8.4	7.8	8.2	8.7	9.2	9.6	9.8
85,0°	5.2	5.1	4.4	3.6	3.2	2.9	3.6	3.8	4.0	4.3	4.5	4.6	4.7
87,5°	1.1	1.1	1.0	1.0	0.9	0.9	1.3	1.4	1.5	1.6	1.6	1.7	1.7
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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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	220° 320°	225° 315°	230° 310°	235° 305°	240° 300°	245° 295°	250° 290°	255° 285°	260° 280°	265° 275°	270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm											Luminous flux in lm/klm	
0,0°	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	0.3	0.3
2,5°	207.5	204.9	202.7	200.5	198.6	197.1	195.7	194.7	193.7	193.2	192.8	2.7	3.1
5,0°	177.6	172.1	167.4	163.0	159.2	156.1	153.5	151.5	149.9	148.9	148.5	5.2	8.3
7,5°	150.1	142.9	137.0	131.9	127.9	124.9	122.4	120.5	119.1	118.3	118.1	7.5	15.8
10,0°	128.5	122.0	117.0	113.1	110.2	108.2	106.7	105.6	104.9	104.5	104.4	9.4	25.2
12,5°	115.4	110.6	107.3	105.0	103.3	102.3	101.4	100.8	100.3	100.0	100.0	11.0	36.2
15,0°	109.4	106.5	104.4	102.5	100.6	98.9	97.6	96.5	95.7	95.3	95.2	12.4	48.5
17,5°	107.0	104.7	102.2	99.6	97.2	95.1	93.4	92.2	91.3	90.8	90.7	13.5	62.0
20,0°	104.4	101.8	99.0	96.5	94.3	92.3	90.6	89.4	88.6	88.1	87.9	14.7	76.7
22,5°	100.7	98.3	96.1	94.1	92.0	88.8	86.1	84.6	84.0	83.8	83.7	15.9	92.6
25,0°	97.4	95.3	93.3	90.3	85.4	80.8	77.4	75.9	75.4	75.0	74.9	17.2	109.8
27,5°	93.6	90.0	86.6	82.2	77.4	74.3	72.6	71.2	70.2	69.5	69.2	18.7	128.5
30,0°	86.3	81.5	78.6	76.0	74.5	73.2	71.7	70.2	69.1	68.3	68.0	20.3	148.8
32,5°	78.4	75.9	74.9	74.2	73.3	72.0	70.3	68.7	67.5	66.6	66.3	22.3	171.0
35,0°	74.7	74.0	73.4	72.6	71.4	70.0	68.4	67.0	65.9	65.1	64.7	24.7	195.7
37,5°	73.1	72.5	71.7	70.5	69.5	68.4	67.2	66.0	65.0	64.2	63.7	27.7	223.4
40,0°	71.3	70.7	69.5	68.6	68.0	67.3	66.3	65.4	64.7	63.8	63.2	31.0	254.4
42,5°	69.2	68.5	67.9	67.4	66.9	66.4	66.0	65.6	65.0	64.1	63.5	31.7	286.1
45,0°	66.8	66.7	66.6	66.5	66.4	66.4	66.5	66.7	66.6	65.7	65.1	32.6	318.8
47,5°	64.7	65.2	65.7	66.1	66.6	67.3	68.3	69.4	69.8	69.3	68.8	35.2	354.0
50,0°	62.4	63.6	64.7	66.0	67.5	69.6	72.3	74.7	75.7	75.8	75.7	39.1	393.1
52,5°	60.1	61.7	63.7	65.9	69.0	73.4	79.0	83.4	84.7	85.3	85.7	45.1	438.2
55,0°	57.8	60.0	62.7	66.7	72.0	79.7	88.9	94.8	95.2	95.9	96.7	53.5	491.8
57,5°	55.6	58.3	62.2	68.2	76.3	87.4	99.9	106.1	104.6	104.6	105.7	66.2	558.0
60,0°	53.9	56.9	62.2	70.3	81.0	94.3	107.8	112.8	108.9	107.7	108.8	82.6	640.6
62,5°	55.4	56.9	62.5	71.8	84.2	97.4	109.3	112.3	106.3	104.1	104.5	99.5	740.1
65,0°	63.7	63.5	66.0	72.7	84.1	95.3	105.1	105.4	98.9	95.6	96.1	99.9	840.0
67,5°	70.1	78.4	77.3	72.4	79.6	88.2	95.1	94.0	87.3	84.7	85.0	77.4	917.4
70,0°	61.5	83.1	81.8	70.7	72.2	78.2	82.6	81.2	75.4	72.7	73.9	40.8	958.2
72,5°	42.3	57.4	62.9	59.5	61.2	65.1	67.5	65.8	60.5	58.3	60.0	16.1	974.3
75,0°	31.9	36.8	42.7	46.3	49.5	52.1	53.3	51.3	47.4	45.6	47.0	9.3	983.7
77,5°	24.7	27.9	31.7	34.9	37.5	39.4	39.8	37.3	34.2	32.7	33.7	6.9	990.6
80,0°	17.6	19.4	21.6	23.6	25.1	26.0	25.6	23.9	22.2	21.1	21.1	4.9	995.4
82,5°	10.4	11.4	12.7	13.8	14.8	15.6	15.4	14.5	13.4	12.7	12.6	2.9	998.3
85,0°	4.9	5.3	5.9	6.5	7.0	7.3	7.4	7.1	6.6	6.3	6.2	1.3	999.6
87,5°	1.7	1.8	1.9	2.0	2.2	2.2	2.2	2.1	1.9	1.8	1.7	0.4	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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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>siteco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W] start of lifetime	Power consumption [W] end of lifetime	Power consumption [W] average
100	254	254	35750	271.6	287.2	279.4
95	238	252	33961	254.4	268.8	261.6
90	222	249	32131	237.2	250.6	243.9
85	207	247	30335	221.3	233.9	227.6
80	193	244	28627	206.6	218.7	212.6
75	178	241	26759	190.7	201.1	195.9
70	165	238	25051	177.2	187.0	182.1
65	151	235	23204	162.5	171.2	166.8
60	138	232	21441	148.9	157.0	153.0
55	125	228	19639	135.7	142.8	139.2
50	113	224	17936	123.4	129.9	126.6
45	101	220	16151	110.8	116.9	113.8
40	88	215	14246	97.5	102.5	100.0
35	76	210	12437	85.2	89.6	87.4
30	65	204	10751	74.1	77.9	76.0
25	53	197	8882	62.3	65.2	63.8
20	42	188	7135	51.4	53.7	52.6
15	31	177	5346	40.5	42.2	41.4
13	27	172	4696	36.5	38.1	37.3