

Photometric test report

Family
Floodlight FL21 mini

Order number: 5XA7776D4D3A
EAN: 4069025197481

LP number
59303_398



Version Mast bracket
Optic direct, asymmetric wide distribution
 A520003
Cover toughened safety glass
Lamps LED 4000 K | CRI ≥ 70
Controlgear EVG-Smart Interface
Rated values Net luminous flux = 18600 lm
 Power consumption = 142.9 W
 Luminous efficacy = 130.2 lm/W

serial
documentation
20.09.2023

siteco

Luminous intensity in cd/klm

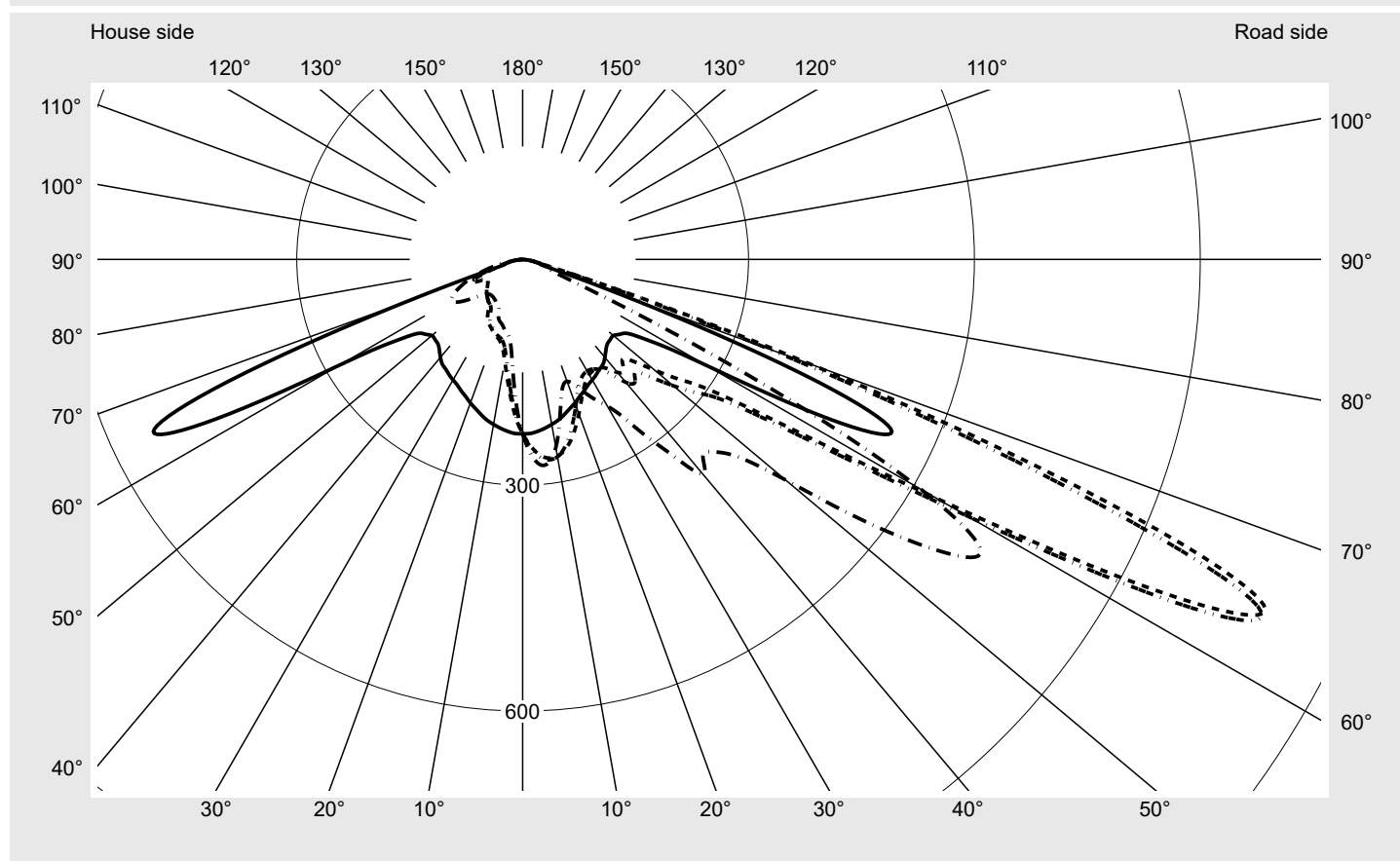
C180-0

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

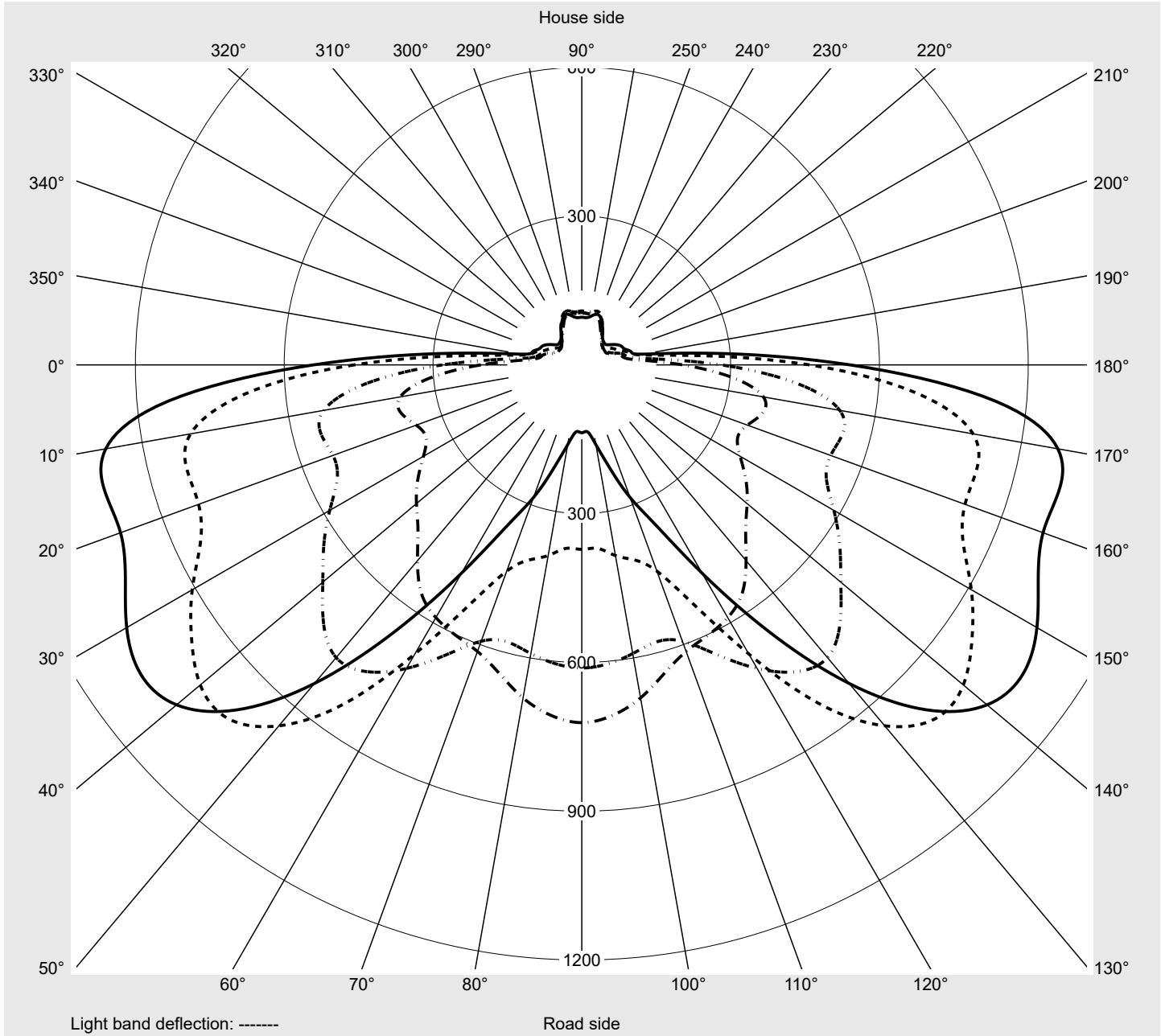
Class:	G4
Imax 70°	458.7
Imax 80°	34.3
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

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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Table of values for luminous intensities										Maximum luminous intensity		siteco	
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°
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°	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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Table of values for luminous intensities										Maximum luminous intensity		siteco	
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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Table of values for luminous intensities												Maximum luminous intensity		sīteco
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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Dimming levels table environmental temperature: 25°C		

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	18600	142.9	150.9	146.9
95	238	252	17698	133.6	141.1	137.4
90	222	249	16756	124.5	131.4	128.0
85	206	246	15781	115.5	121.8	118.6
80	192	244	14898	107.6	113.5	110.6
75	177	241	13925	99.2	104.6	101.9
70	163	238	12990	91.4	96.4	93.9
65	150	235	12098	84.3	88.7	86.5
60	137	231	11187	77.1	81.3	79.2
55	124	228	10248	70.1	73.8	71.9
50	111	224	9282	63.0	66.3	64.6
45	99	219	8372	56.5	59.5	58.0
40	87	215	7443	50.1	52.7	51.4
35	75	209	6490	43.7	45.9	44.8
30	64	204	5601	37.8	39.7	38.8
25	52	196	4608	31.4	33.0	32.2
20	41	187	3681	25.7	26.9	26.3
17	34	180	3082	22.1	23.1	22.6