

Photometric test report

Family
DL® 20 LED

Order number: 5XA51283WR008P
EAN: 4058352271940

LP number
59488_27



Version post-top mounting
Optic asymmetric, extremely wide distribution (P1.0a)
Cover toughened safety glass
Lamps LED 3000 K | CRI ≥ 70
Controlgear ECG Plus
Rated values Net luminous flux = 4220 lm
Power consumption = 34.3 W
Luminous efficacy = 123 lm/W

serial
documentation
07.12.2023

siteco

Luminous intensity in cd/klm

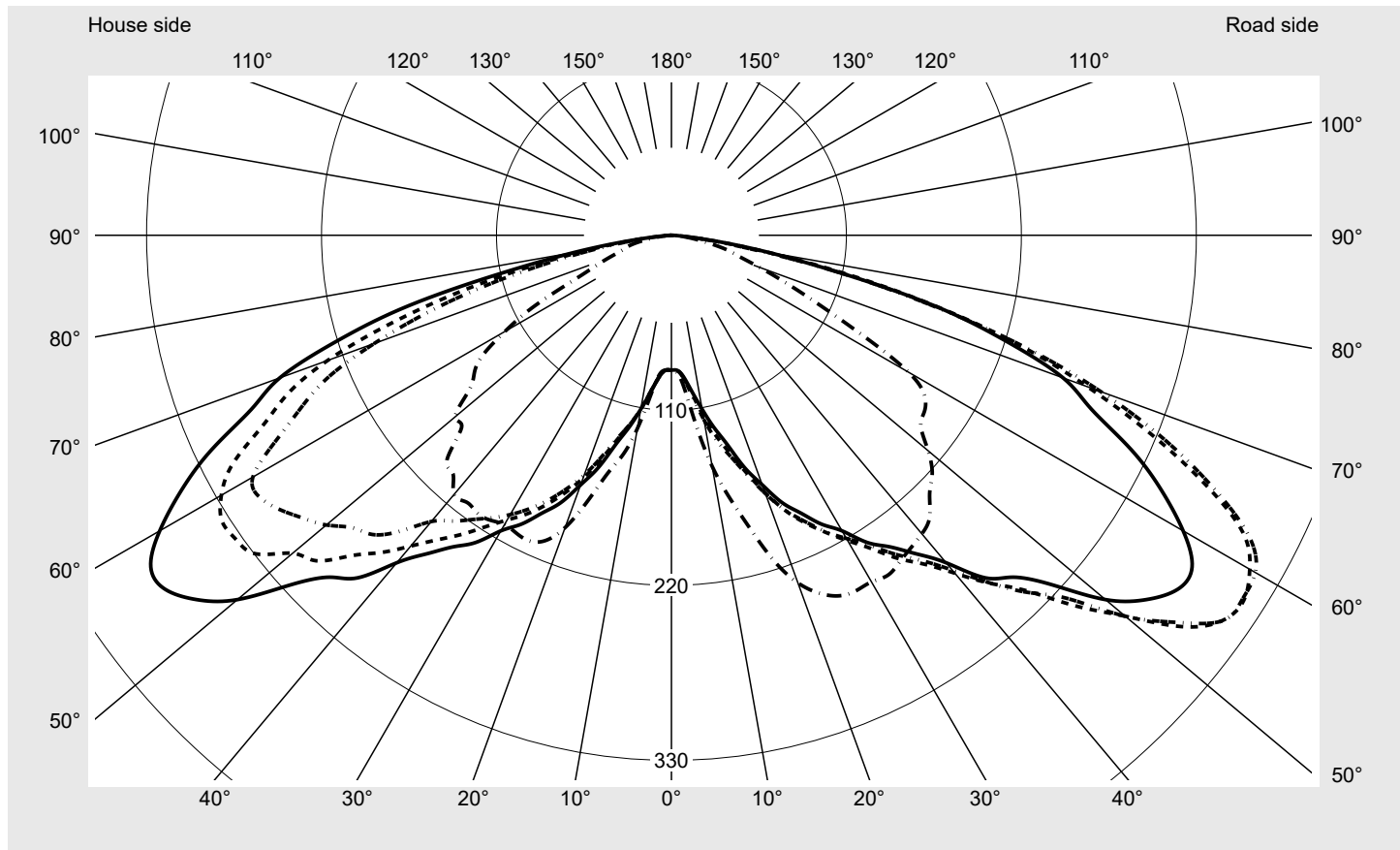
C180-0

C190-10

C195-15

C270-90

Imax: 427 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:	G6
Imax 70°	291.0
Imax 80°	62.7
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

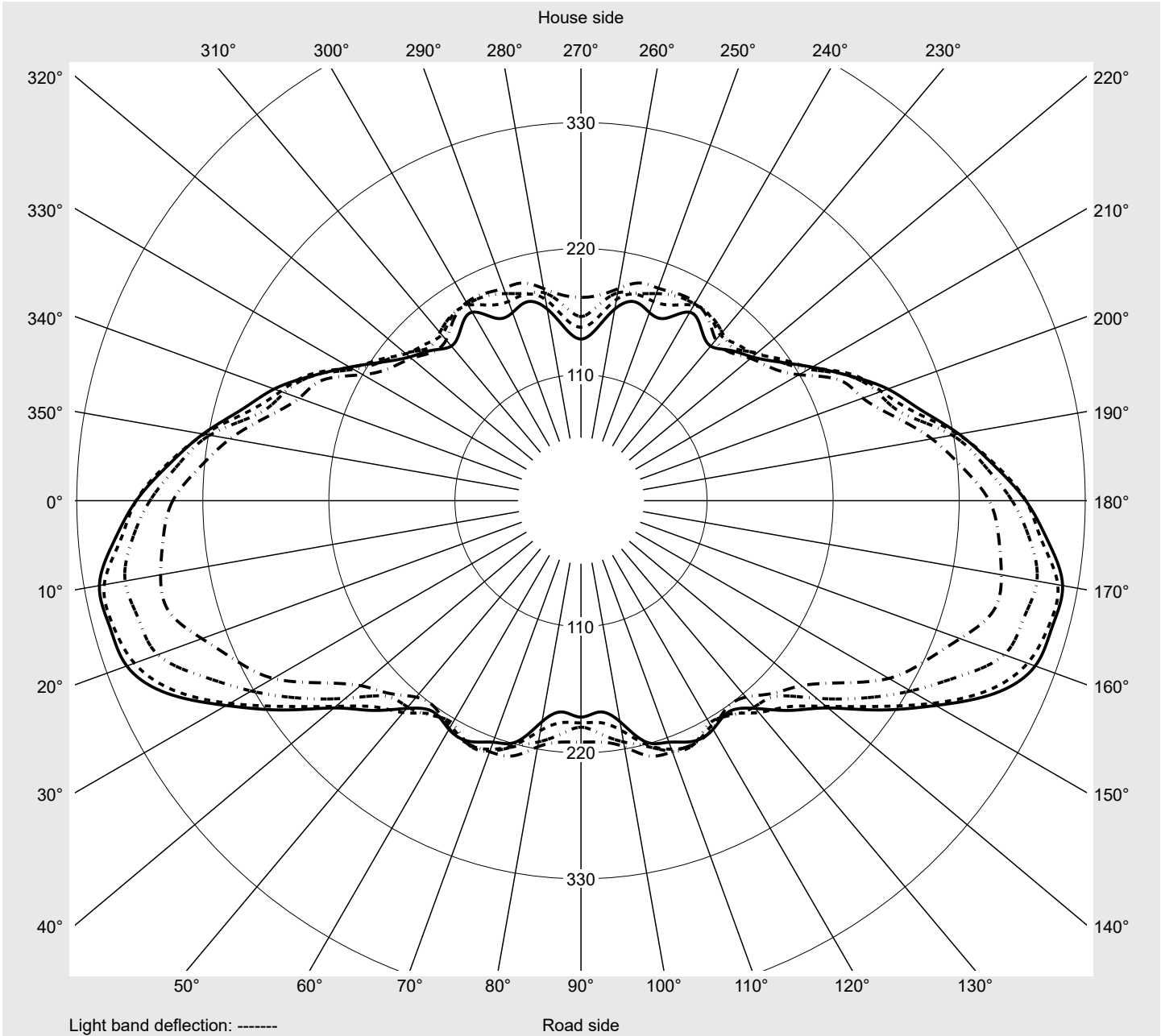
Measurement conditions

DIN EN 13032 and DIN 5032

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Envelope curve in cd/klm **KMK 57.5°** **KMK 55°** **KMK 52.5°** **KMK 50°** **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°	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2,5°	85.0	85.0	85.0	85.2	85.3	85.2	85.4	85.5	85.6	85.8	85.9	85.9	86.3
5,0°	89.6	90.0	90.3	90.7	91.2	91.5	92.1	92.8	93.3	94.0	94.6	95.0	95.9
7,5°	99.2	100.0	100.9	102.4	103.9	105.3	107.1	108.9	110.4	112.3	113.5	114.8	116.5
10,0°	111.0	113.0	115.1	117.8	120.6	123.2	126.3	128.3	130.1	132.8	133.7	135.2	138.1
12,5°	123.8	126.0	128.8	132.2	135.0	137.9	141.4	142.9	144.3	146.7	147.1	148.7	152.2
15,0°	136.5	139.0	141.6	144.0	145.8	149.2	153.2	155.7	158.6	162.2	163.6	166.4	170.9
17,5°	153.2	154.7	156.3	157.7	160.1	164.8	170.0	174.1	178.6	183.3	186.6	191.1	196.4
20,0°	166.9	170.5	172.1	172.8	175.4	180.4	185.2	188.7	191.6	194.3	199.1	205.0	210.5
22,5°	181.9	185.6	187.3	187.0	189.0	192.2	195.0	197.4	198.3	199.7	205.0	211.5	217.2
25,0°	192.7	198.4	199.6	198.4	199.5	200.0	201.1	203.7	203.4	203.7	209.1	215.5	221.9
27,5°	204.8	209.3	210.6	209.9	209.4	206.7	206.3	208.8	209.1	208.8	212.2	219.0	227.0
30,0°	214.5	219.4	221.7	220.0	216.5	213.4	211.2	212.8	215.2	212.8	216.1	223.7	231.4
32,5°	228.9	232.4	233.4	230.7	227.6	223.1	216.4	218.2	222.3	218.5	219.7	227.9	235.4
35,0°	239.0	245.8	247.9	244.5	242.1	232.3	225.2	226.8	229.3	223.7	222.1	228.7	235.2
37,5°	252.2	260.1	260.4	257.5	258.2	248.8	237.4	237.1	234.5	227.7	226.7	231.0	235.0
40,0°	268.7	277.0	277.2	274.7	277.0	262.4	250.3	247.3	240.1	233.8	232.7	234.4	239.7
42,5°	292.0	292.6	296.7	296.4	294.2	278.8	260.6	251.5	243.8	233.0	234.0	234.8	237.4
45,0°	303.9	311.1	316.0	317.5	313.1	292.9	276.4	260.2	246.0	232.1	231.5	233.3	235.5
47,5°	325.4	337.3	344.8	337.9	328.1	311.5	289.8	267.6	245.4	230.2	228.4	226.4	229.5
50,0°	356.2	365.9	372.5	372.5	352.0	331.3	310.2	277.1	251.2	237.6	223.8	221.2	229.8
52,5°	376.2	393.3	404.0	399.6	393.0	363.4	332.2	300.3	268.3	241.3	235.1	228.6	224.3
55,0°	388.2	403.7	422.5	422.6	414.7	391.8	353.8	313.1	279.3	254.5	241.3	227.2	227.0
57,5°	388.1	409.2	426.7	425.7	421.8	398.1	357.5	318.5	281.4	258.8	236.7	224.9	230.4
60,0°	371.5	398.9	419.8	423.9	418.9	391.5	349.4	304.2	268.0	244.3	218.8	215.6	225.7
62,5°	347.5	376.5	405.2	409.3	399.8	375.5	330.2	279.9	244.1	213.1	188.6	193.0	198.9
65,0°	319.1	340.2	370.3	376.1	367.6	347.2	308.8	252.6	215.5	183.9	160.5	170.1	162.8
67,5°	285.9	303.0	326.3	335.6	331.5	310.6	275.2	221.8	195.7	160.5	130.9	142.4	125.7
70,0°	262.1	266.9	278.4	287.3	291.0	272.8	233.9	190.1	169.6	132.3	99.9	110.8	95.1
72,5°	219.8	223.5	229.2	231.6	238.8	229.8	187.3	155.5	138.1	105.1	82.1	80.2	68.6
75,0°	171.0	169.4	171.8	167.8	172.9	173.4	139.2	116.0	108.9	84.3	63.9	56.5	52.5
77,5°	107.7	114.4	112.8	108.2	107.3	109.5	86.8	71.4	76.7	57.3	44.4	39.5	37.5
80,0°	61.9	62.7	61.1	54.6	54.0	59.6	39.6	34.0	43.6	27.7	22.9	22.2	22.8
82,5°	27.6	27.0	26.5	24.1	22.0	27.1	15.6	14.5	22.1	10.9	10.3	11.0	12.2
85,0°	8.1	7.4	6.9	6.6	6.3	9.8	6.0	5.4	9.0	4.8	4.5	4.6	4.9
87,5°	2.2	2.1	2.1	2.0	2.0	2.2	1.8	1.8	2.0	1.6	1.6	1.6	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
		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°	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
2,5°	86.4	86.4	86.7	86.7	86.7	86.8	84.8	84.8	84.9	84.8	84.7	84.8	84.6
5,0°	96.3	96.6	97.3	97.2	97.5	97.9	89.6	89.5	89.4	89.1	89.1	89.1	88.9
7,5°	117.4	118.4	119.8	119.9	120.4	121.4	98.8	98.7	98.8	99.0	99.4	99.7	100.2
10,0°	139.0	140.9	143.9	144.6	146.0	147.5	110.7	110.8	111.1	111.6	112.6	114.0	115.4
12,5°	153.7	156.9	162.1	164.1	166.6	169.1	122.7	122.2	122.2	122.4	123.3	125.1	126.6
15,0°	173.0	177.0	182.5	184.8	187.8	190.7	135.3	133.6	132.5	131.8	132.5	134.7	136.5
17,5°	199.9	204.5	209.3	211.2	213.0	214.6	150.5	148.1	146.0	145.5	147.5	150.7	152.8
20,0°	216.7	222.7	227.0	230.6	232.2	232.5	165.4	162.4	160.3	160.5	162.6	165.8	167.2
22,5°	225.4	232.4	237.2	242.2	244.1	243.6	178.4	175.3	172.6	172.5	173.0	173.6	174.6
25,0°	231.4	237.6	241.5	247.2	250.0	250.0	190.2	187.1	183.8	182.3	179.6	178.8	180.8
27,5°	236.4	240.6	243.5	250.0	253.2	251.7	200.9	197.6	193.9	190.7	185.4	183.9	184.8
30,0°	239.3	241.7	244.2	250.1	252.8	251.6	211.6	206.6	202.7	197.8	193.1	189.9	188.4
32,5°	240.5	244.3	245.8	248.2	252.1	253.3	223.2	217.1	210.6	205.6	199.9	194.5	189.5
35,0°	242.0	245.8	245.8	245.5	248.1	250.4	236.4	229.4	218.1	212.5	205.7	196.8	191.8
37,5°	240.8	243.3	242.8	243.9	245.7	247.5	247.4	241.1	226.4	218.5	214.8	203.6	197.9
40,0°	243.0	242.9	241.3	243.1	244.3	244.9	261.9	255.0	234.8	228.5	223.3	210.2	207.7
42,5°	242.3	243.5	242.7	241.5	242.8	240.3	281.1	270.4	252.1	239.3	232.4	212.9	206.9
45,0°	241.1	241.5	237.4	239.2	235.1	229.6	294.1	284.8	265.9	246.2	233.5	216.3	200.5
47,5°	243.2	235.3	231.2	233.6	225.9	222.4	314.7	302.8	272.1	255.9	241.4	216.3	199.9
50,0°	233.9	233.2	230.6	218.2	211.6	210.7	334.0	310.9	283.3	261.7	248.9	219.8	202.4
52,5°	234.1	232.7	222.0	213.8	204.7	197.7	353.3	329.0	292.0	275.6	257.8	229.3	211.7
55,0°	234.0	230.8	220.2	203.7	194.5	194.0	362.8	333.8	300.6	278.9	260.8	232.3	214.8
57,5°	231.7	224.3	217.9	195.8	185.1	188.9	361.1	334.9	306.7	284.9	258.2	233.1	211.0
60,0°	217.5	209.8	211.0	180.9	164.1	172.2	349.9	326.7	303.9	279.1	249.8	222.2	196.9
62,5°	193.3	185.0	177.2	155.6	136.2	133.9	331.1	310.9	280.8	253.3	227.8	197.5	169.3
65,0°	160.7	156.3	135.0	118.7	107.7	101.0	305.6	283.8	257.2	230.6	203.7	173.9	146.0
67,5°	124.5	131.5	97.5	88.5	87.9	77.4	277.9	261.6	233.8	209.2	186.1	154.9	127.6
70,0°	87.1	97.6	70.5	67.2	69.1	58.9	247.4	230.1	198.8	177.6	161.3	133.7	108.4
72,5°	60.3	63.7	51.4	50.1	50.1	45.1	206.9	186.0	159.9	143.6	134.8	108.6	85.2
75,0°	46.9	44.6	41.7	40.4	36.9	37.2	154.2	138.8	118.3	105.8	102.4	79.7	60.4
77,5°	34.8	31.9	32.1	30.5	28.3	26.8	102.4	91.8	76.9	70.0	71.0	51.1	38.7
80,0°	22.4	21.2	21.6	21.1	19.0	17.3	56.8	52.6	44.7	39.6	42.9	23.7	20.2
82,5°	12.3	11.6	12.2	11.8	10.7	10.3	25.8	24.7	21.0	18.6	22.1	11.7	9.3
85,0°	5.1	5.0	5.0	5.0	4.7	4.7	7.4	7.3	6.5	6.3	8.4	5.0	4.0
87,5°	1.6	1.5	1.6	1.5	1.4	1.4	2.2	2.2	2.1	2.0	2.1	1.8	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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Family DL® 20 LED	Order number: 5XA51283WR008P EAN: 4058352271940	LP number 59488_27
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	0.1	0.1
2,5°	84.6	84.6	84.6	84.5	84.6	84.6	84.5	84.7	84.6	84.5	84.8	1.0	1.1
5,0°	89.0	88.8	88.7	88.5	88.4	88.2	88.0	88.0	87.8	87.8	88.1	2.2	3.3
7,5°	100.8	101.2	101.5	101.8	102.1	102.0	102.0	102.1	101.8	101.8	102.1	3.8	7.1
10,0°	116.9	118.3	119.2	120.2	121.8	122.0	122.2	123.0	122.4	122.4	123.3	5.9	13.0
12,5°	128.2	130.5	131.7	133.5	136.3	136.6	137.5	140.0	139.9	140.4	141.4	8.2	21.2
15,0°	137.6	140.2	141.8	143.8	147.4	148.5	150.0	152.9	153.0	153.6	154.9	10.8	32.0
17,5°	153.6	155.4	157.5	160.0	164.8	167.2	169.4	172.7	173.5	174.0	175.1	14.1	46.1
20,0°	167.3	167.9	170.0	173.7	179.3	183.5	186.8	190.7	193.5	195.0	195.5	17.5	63.6
22,5°	174.8	174.7	177.2	182.0	186.7	192.1	197.8	201.7	206.1	207.7	207.8	20.6	84.2
25,0°	179.9	178.4	182.3	187.5	191.3	197.2	203.4	207.7	211.9	212.9	211.9	23.6	107.8
27,5°	182.1	181.5	187.1	192.0	193.6	200.1	208.0	212.2	217.6	216.3	211.1	26.5	134.2
30,0°	184.4	184.0	190.7	193.8	194.9	201.6	209.0	216.0	221.5	216.5	209.9	29.3	163.5
32,5°	185.6	187.1	193.6	195.0	197.3	202.3	210.2	217.7	221.3	217.0	212.3	32.2	195.7
35,0°	189.4	191.3	197.1	196.9	200.2	202.8	210.3	217.0	219.5	215.4	213.0	35.1	230.8
37,5°	195.1	196.5	197.6	198.7	202.4	205.4	210.6	217.3	217.0	213.1	211.5	38.1	268.8
40,0°	201.9	193.2	195.9	198.5	203.8	207.5	213.6	219.6	218.8	214.9	212.8	41.4	310.2
42,5°	196.5	191.5	193.9	196.4	203.0	208.2	210.4	217.9	212.7	208.0	203.3	44.3	354.5
45,0°	189.1	187.4	186.8	190.8	200.7	204.8	203.1	209.4	205.5	200.9	199.6	46.8	401.3
47,5°	190.3	182.9	185.2	190.8	196.7	200.7	200.7	198.1	201.3	190.2	179.0	49.5	450.8
50,0°	193.1	183.3	183.1	193.5	199.7	199.4	197.3	196.7	187.9	180.0	177.4	52.5	503.3
52,5°	200.5	188.5	191.6	197.2	198.2	197.0	192.3	187.4	184.1	170.9	160.7	56.2	559.5
55,0°	199.4	192.8	189.0	196.5	196.9	188.3	185.0	186.4	178.3	159.7	151.4	59.0	618.5
57,5°	195.1	185.3	176.1	183.0	189.9	175.7	174.7	179.8	169.8	150.2	141.0	60.2	678.6
60,0°	180.8	174.5	161.1	169.4	176.8	161.4	161.1	163.6	151.7	128.5	120.8	58.9	737.6
62,5°	155.4	148.2	135.0	146.4	149.8	136.7	145.6	139.5	120.9	102.7	98.8	54.5	792.1
65,0°	137.5	125.2	108.7	112.1	107.6	103.9	116.2	104.2	87.5	76.1	70.6	48.4	840.5
67,5°	124.8	105.1	87.0	87.7	79.7	79.3	91.9	76.6	57.6	55.2	53.7	42.5	883.0
70,0°	105.0	84.0	64.3	68.2	53.1	55.2	67.3	55.8	44.5	42.9	42.8	36.0	919.0
72,5°	81.5	66.9	46.6	44.5	37.3	37.1	46.8	40.8	37.2	35.0	33.9	29.1	948.1
75,0°	62.9	52.4	34.8	29.8	29.2	29.8	31.9	32.3	32.5	29.9	29.4	22.2	970.3
77,5°	45.9	34.6	22.1	21.7	21.9	22.9	23.3	25.7	26.7	24.3	23.7	15.1	985.3
80,0°	26.9	17.1	13.5	14.1	15.2	16.0	16.1	17.6	18.4	16.9	16.1	8.6	993.9
82,5°	13.3	7.7	7.0	7.7	9.1	9.2	9.2	9.9	10.4	9.6	9.3	4.1	998.0
85,0°	6.4	3.7	3.5	3.7	4.0	4.1	4.0	4.1	4.2	4.0	3.9	1.5	999.5
87,5°	2.0	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3	1.2	1.2	0.5	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	sITeco
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Luminous flux %	Dimming level linear	Luminous flux [lm]	Power consumption [W] start of lifetime	Power consumption [W] end of lifetime	Power consumption [W] average
100	254	4220	34.3	35.1	34.7
95	241	4017	32.5	33.4	33.0
90	227	3796	30.6	31.5	31.0
85	214	3590	29.0	29.7	29.4
80	201	3382	27.2	27.9	27.6
75	188	3173	25.5	26.1	25.8
70	174	2946	23.7	24.3	24.0
65	162	2751	22.1	22.7	22.4
60	149	2538	20.5	21.0	20.8
55	136	2322	18.9	19.3	19.1
50	123	2106	17.2	17.6	17.4
45	111	1904	15.7	16.0	15.8
40	98	1686	14.1	14.4	14.2
35	86	1482	12.7	12.9	12.8
30	73	1260	11.1	11.4	11.2
25	61	1054	9.7	9.9	9.8
20	49	847	8.2	8.4	8.3
15	37	638	6.8	6.9	6.8
14	34	585	6.5	6.5	6.5