

Lichttechnischer Prüfbefund

Familie
DL® 20 LED

Bestell-Nr.: 5XA51283WA008P
EAN: 4058352271902

LP-Nummer
58602_3



Ausführung	Mastaufsatz-Montage
Optik	asymmetrisch, breit strahlend (ST1.2a)
Abdeckung	Einscheibensicherheitsglas (ESG)
Bestückung	LED 3000K / CRI ≥ 80
Betriebsgerät	EVG Plus
Bemessungswerte	Nettolichtstrom = 4180 lm Systemleistung = 52.7 W Lichtausbeute = 79.3 lm/W

Seriendokumentation
28.06.2018

siteco

Lichtstärke in cd/klm

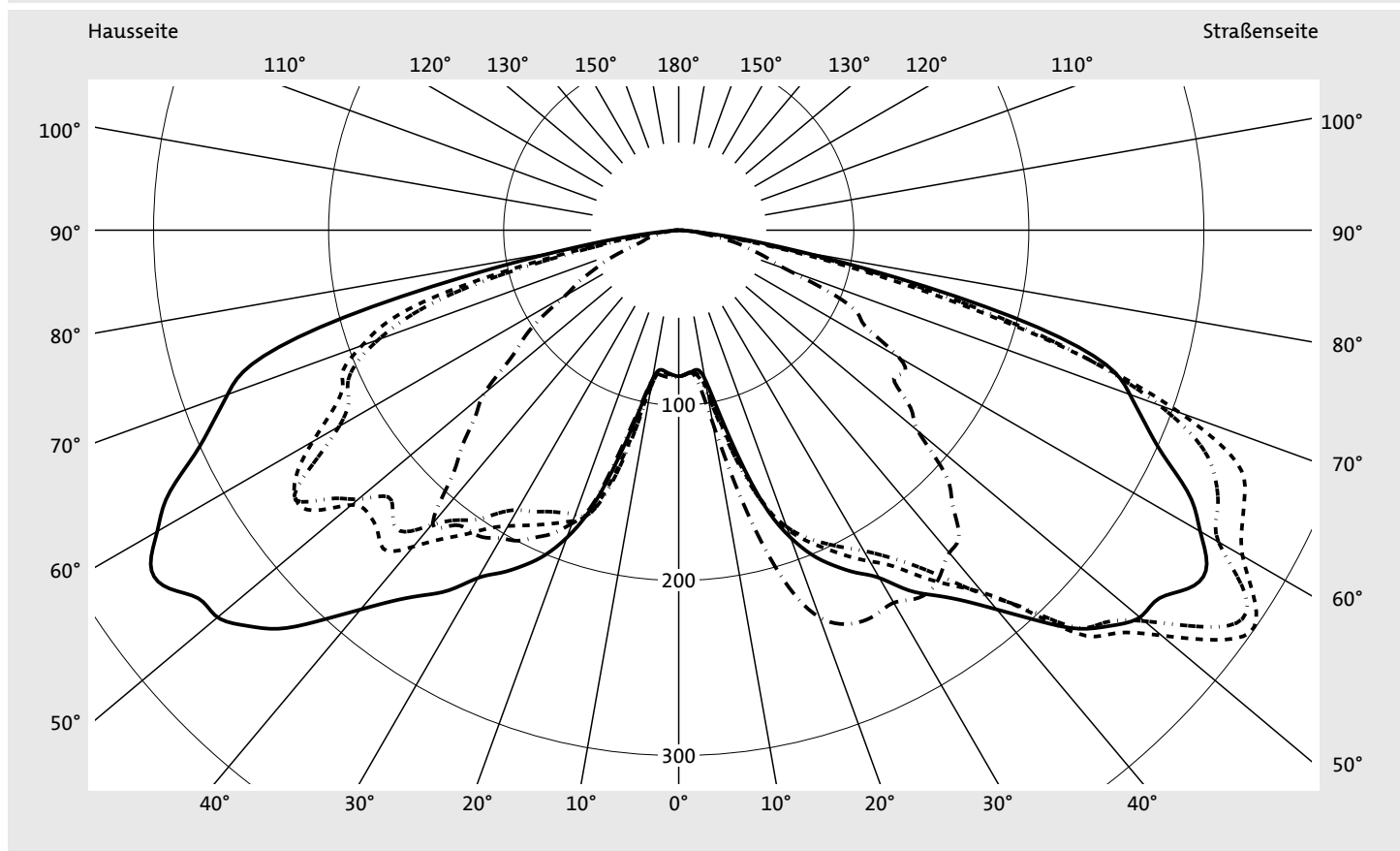
C180-0

C200-20

C205-25

C270-90

Imax: 399 cd/klm



Leuchtenbetriebswirkungsgrade

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

Lichtstärkeklasse nach EN13201-2

Klasse:	G6
Imax 70°	314.9
Imax 80°	71.3
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

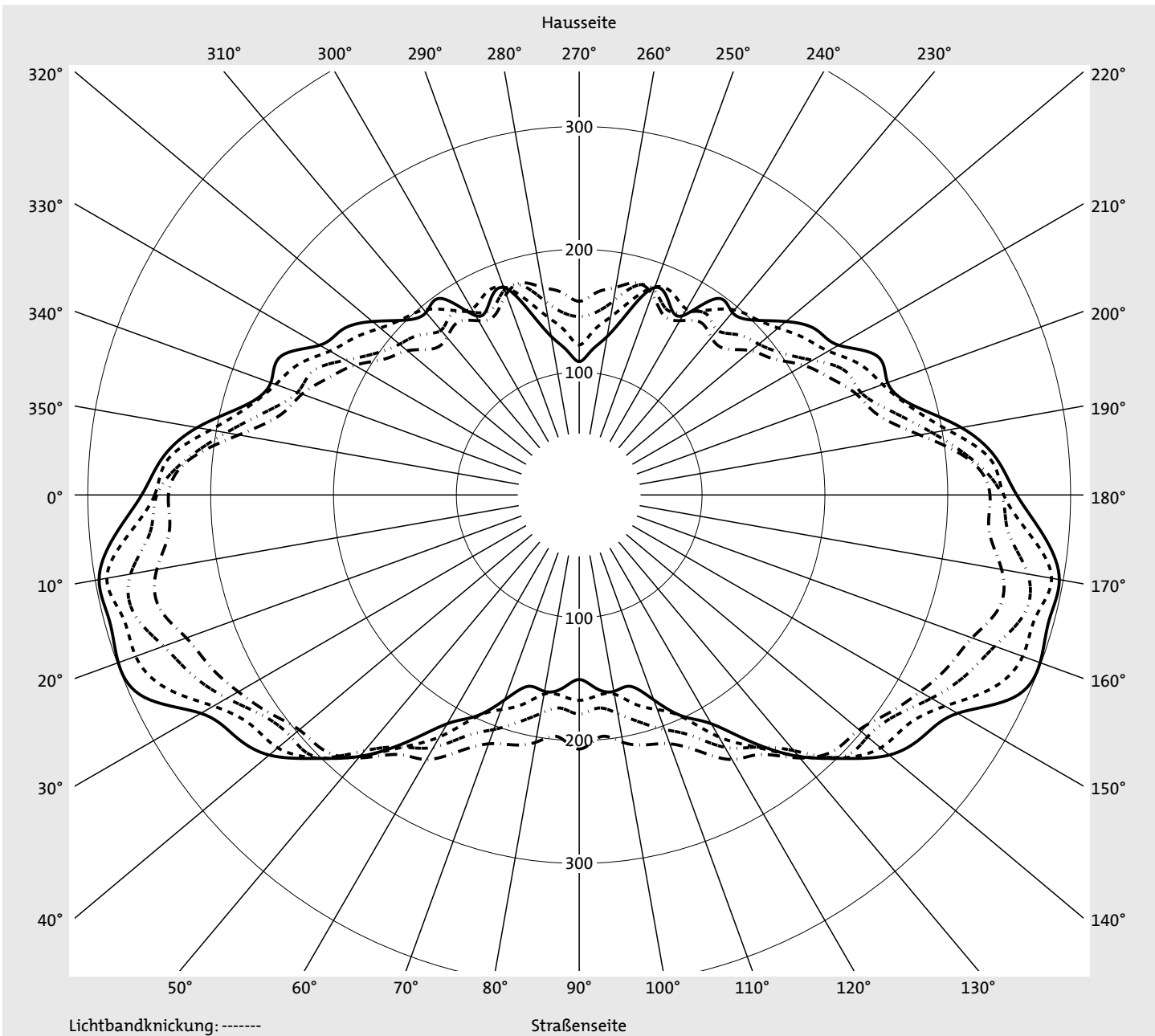
Messbedingungen

DIN EN 13032 und DIN 5032

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Kegelmantelkurven in cd/klm **KMK 55°** **KMK 52,5°** **KMK 50°** **KMK 47,5°** **siteco**



Lichttechnischer Prüfbefund

Familie DL® 20 LED	Bestell-Nr.: 5XA51283WA008P EAN: 4058352271902	LP-Nummer 58602_3
Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

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°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
2,5°	82.6	82.4	82.3	82.5	82.6	82.6	82.3	82.2	82.6	82.3	82.2	82.3	82.4
5,0°	81.3	81.1	81.1	81.3	81.4	81.5	81.4	81.5	82.0	81.7	81.8	81.8	81.8
7,5°	80.4	80.6	81.3	82.1	83.1	84.0	84.8	85.6	86.9	87.0	87.6	87.8	88.2
10,0°	86.4	86.6	88.2	90.3	92.3	94.8	97.2	99.7	102.4	103.8	105.5	106.8	107.9
12,5°	107.2	107.3	108.9	111.9	115.0	118.2	120.9	123.9	126.9	128.8	132.4	135.1	137.2
15,0°	136.8	136.5	137.4	138.8	141.2	144.2	147.0	149.5	151.1	152.9	157.4	162.2	166.4
17,5°	166.8	165.7	166.1	166.3	165.2	165.7	167.2	168.0	168.8	170.0	174.8	180.9	187.0
20,0°	186.8	187.0	185.0	184.2	181.8	180.3	180.3	179.9	179.3	181.2	186.3	191.7	198.4
22,5°	201.2	202.0	199.8	196.9	192.3	189.9	190.0	190.9	188.8	189.2	193.7	199.5	205.7
25,0°	211.6	212.3	211.2	206.6	200.9	197.2	198.1	198.7	197.9	197.5	201.7	207.5	212.3
27,5°	220.6	220.8	221.1	219.5	209.9	204.2	204.8	205.1	204.5	206.6	210.8	215.1	217.3
30,0°	229.3	231.1	230.9	227.9	218.3	211.4	209.4	210.3	210.5	214.1	218.1	221.8	224.1
32,5°	243.6	244.1	242.3	237.6	227.4	221.0	218.5	219.1	220.0	222.7	225.2	229.8	232.5
35,0°	254.5	257.9	254.4	248.5	241.5	233.4	232.8	238.2	238.9	236.6	237.0	237.1	238.1
37,5°	266.6	266.0	267.7	264.3	255.4	250.6	249.7	257.3	260.7	251.8	247.7	246.8	244.1
40,0°	282.7	280.8	279.7	277.1	270.2	271.8	269.9	270.8	272.4	269.6	262.3	257.9	251.2
42,5°	302.0	303.6	301.0	299.9	294.8	292.7	291.8	291.7	283.5	283.0	276.1	271.7	259.9
45,0°	321.7	323.0	330.7	332.0	327.1	320.9	316.2	306.9	297.9	294.1	287.6	276.2	261.8
47,5°	334.4	334.9	349.2	354.0	340.3	331.2	320.5	308.7	297.5	293.9	279.5	257.9	248.7
50,0°	343.9	350.7	370.8	374.9	360.1	347.3	331.0	313.7	306.4	301.7	271.8	250.6	237.2
52,5°	345.6	368.1	390.5	384.6	384.2	371.5	343.8	326.2	320.4	302.8	277.6	250.6	227.5
55,0°	356.2	379.5	396.9	395.9	399.3	390.2	355.6	342.2	329.4	303.4	277.9	245.9	215.1
57,5°	357.6	369.0	389.2	397.8	389.5	382.8	358.4	341.3	323.9	300.0	270.1	247.3	218.1
60,0°	344.0	352.6	378.5	380.0	371.9	356.1	334.4	324.7	306.9	277.2	253.7	231.2	203.0
62,5°	329.3	331.1	358.4	371.3	363.0	347.0	323.7	322.8	294.7	257.6	251.5	221.4	184.8
65,0°	306.1	317.8	347.0	364.5	356.8	338.5	322.5	314.8	279.8	255.4	239.7	202.8	176.1
67,5°	288.4	309.5	336.9	352.2	344.4	323.4	315.6	296.6	258.9	249.6	227.2	175.6	153.4
70,0°	274.3	292.3	314.9	313.1	304.6	292.1	286.9	270.2	231.8	221.1	193.9	143.3	127.8
72,5°	256.4	259.8	264.8	247.7	246.0	245.8	244.6	220.2	190.9	176.7	140.7	104.6	97.9
75,0°	208.9	211.4	202.1	182.7	174.3	185.0	185.5	156.2	137.3	129.0	93.5	73.3	74.4
77,5°	133.7	137.6	128.7	110.3	108.5	121.4	114.6	85.2	81.6	78.0	52.3	47.8	51.1
80,0°	70.6	71.3	65.3	56.5	54.4	62.2	45.5	33.9	35.7	31.8	26.0	27.0	28.7
82,5°	32.3	30.3	29.7	24.6	20.6	22.5	15.9	14.2	15.7	13.4	13.1	13.6	14.5
85,0°	7.7	7.9	8.3	7.9	7.4	9.0	6.2	5.9	6.4	5.8	5.8	5.6	5.8
87,5°	2.5	2.5	2.5	2.5	2.4	2.6	2.1	2.1	2.0	1.9	1.9	1.8	1.8
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
100,0°	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
110,0°	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
120,0°	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
130,0°	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
140,0°	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
150,0°	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
160,0°	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
170,0°	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
180,0°	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°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
2,5°	82.6	82.4	82.4	82.5	82.4	82.4	82.4	82.5	82.6	82.8	83.2	83.0	83.5
5,0°	81.9	81.8	81.8	81.6	81.5	81.6	81.2	81.5	81.6	81.9	82.3	82.2	82.8
7,5°	88.5	88.6	88.6	88.7	88.7	88.8	80.0	80.2	80.4	80.8	81.4	81.5	82.2
10,0°	108.7	109.4	110.2	110.4	110.9	111.5	86.1	86.9	87.6	89.1	90.6	91.8	93.5
12,5°	139.6	141.9	144.6	145.8	146.6	147.9	107.1	109.1	112.2	116.3	119.9	122.9	125.6
15,0°	171.2	176.1	180.6	183.3	184.8	186.2	137.5	140.5	143.4	147.5	150.9	154.2	156.0
17,5°	194.6	202.2	208.4	212.9	215.7	217.1	167.3	167.6	167.7	169.4	169.8	170.9	169.9
20,0°	207.4	216.6	223.4	229.4	233.6	235.3	186.5	185.1	180.9	176.7	172.8	171.4	169.5
22,5°	215.4	224.0	230.5	237.9	242.6	243.4	201.3	197.7	189.2	181.0	174.6	170.6	168.2
25,0°	220.3	227.6	233.7	241.7	245.8	246.6	212.0	205.6	196.3	185.5	177.3	171.7	168.8
27,5°	224.3	229.7	234.4	242.3	245.9	246.6	218.3	211.6	201.3	190.1	181.1	174.1	170.2
30,0°	229.8	232.9	236.8	244.6	247.0	245.6	225.2	216.5	206.2	195.0	184.5	177.6	172.9
32,5°	233.1	236.9	243.7	249.5	251.7	249.8	234.4	225.5	214.5	201.8	191.6	184.8	178.2
35,0°	238.6	242.2	250.1	252.9	254.2	251.0	250.4	239.2	224.6	211.9	201.7	191.2	181.3
37,5°	241.4	244.6	252.5	253.8	250.1	246.4	263.7	251.2	237.7	222.3	208.7	198.6	193.1
40,0°	243.2	246.4	250.5	250.3	243.6	240.4	271.5	259.1	250.6	235.8	219.8	209.3	201.2
42,5°	246.6	247.4	248.4	241.6	235.8	237.0	289.2	272.3	258.9	247.9	233.5	221.4	204.7
45,0°	246.2	236.8	234.1	231.0	226.0	221.1	312.2	283.2	264.9	243.2	231.0	216.4	197.5
47,5°	230.1	215.6	210.6	204.5	197.6	206.9	319.8	281.4	251.8	240.1	225.4	211.1	193.0
50,0°	216.2	203.2	191.6	180.7	174.2	178.4	322.1	291.8	263.2	244.0	238.9	219.4	201.4
52,5°	199.7	186.0	176.4	164.6	164.1	167.2	335.9	304.7	278.5	262.9	251.9	234.3	223.2
55,0°	198.7	177.6	161.3	162.4	158.0	150.2	340.9	315.9	281.6	267.2	267.7	243.8	235.1
57,5°	192.3	176.6	166.6	155.0	152.6	152.0	340.3	313.5	282.4	258.7	247.1	234.5	216.1
60,0°	178.2	172.6	171.8	158.9	149.8	145.3	336.0	306.7	279.4	241.4	224.0	217.6	189.4
62,5°	172.9	166.0	161.0	155.9	140.3	121.5	317.9	299.1	272.3	223.0	212.6	212.0	176.5
65,0°	158.2	155.3	149.6	125.5	112.6	113.1	295.7	282.0	250.3	211.8	208.7	209.5	161.2
67,5°	145.4	128.3	122.4	102.2	89.3	95.4	276.2	264.6	235.5	207.2	199.6	199.2	139.1
70,0°	122.7	99.4	89.0	78.3	72.6	65.6	262.6	244.4	214.9	192.5	182.5	182.5	117.9
72,5°	90.1	73.6	66.4	65.0	57.4	53.3	238.9	212.4	194.5	174.7	159.2	151.1	93.7
75,0°	64.8	55.7	54.6	51.6	44.8	42.7	189.6	168.5	157.9	139.5	122.6	107.8	64.7
77,5°	47.0	42.2	41.7	39.0	35.5	33.7	124.3	112.1	100.0	84.4	71.1	59.4	33.9
80,0°	28.9	26.9	26.9	25.6	23.5	21.4	67.7	60.1	50.1	40.7	33.3	22.5	15.5
82,5°	14.8	14.2	14.6	13.7	12.8	11.8	31.3	24.5	18.7	13.9	12.2	9.4	7.7
85,0°	6.2	6.1	6.2	5.9	5.3	5.2	7.5	6.8	6.3	5.5	5.1	4.5	3.9
87,5°	1.8	1.8	1.8	1.7	1.6	1.6	2.5	2.4	2.3	2.1	2.0	2.0	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
100,0°	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
110,0°	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
120,0°	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
130,0°	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
140,0°	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
150,0°	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
160,0°	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
170,0°	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
180,0°	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
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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°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	0.1	0.1
2,5°	83.6	83.6	83.8	83.8	84.2	83.9	83.9	84.3	83.9	83.9	84.4	1.0	1.1
5,0°	82.9	83.0	83.1	83.2	83.7	83.4	83.4	83.8	83.4	83.4	84.0	2.0	3.1
7,5°	82.5	83.0	83.1	83.2	83.6	83.2	83.1	83.2	82.8	82.7	83.2	3.0	6.1
10,0°	94.3	94.8	94.4	93.9	93.4	91.1	89.6	88.7	87.3	86.4	86.0	4.6	10.6
12,5°	126.7	126.5	124.0	122.2	119.5	115.1	111.5	108.5	106.2	104.6	104.6	7.2	17.9
15,0°	156.1	155.1	150.8	148.1	143.7	139.1	136.1	134.2	133.6	133.8	132.1	10.7	28.6
17,5°	169.4	167.1	162.9	161.2	158.2	155.8	155.4	157.0	158.9	160.6	164.8	14.3	42.9
20,0°	170.0	168.4	165.5	164.9	165.0	165.6	167.6	171.3	174.5	177.5	178.2	17.3	60.2
22,5°	168.0	166.7	166.0	166.9	168.8	172.3	177.5	181.4	185.0	186.9	187.4	20.2	80.4
25,0°	167.3	165.4	165.6	168.0	172.9	178.3	184.7	189.7	191.5	193.2	193.5	23.0	103.3
27,5°	167.9	165.5	165.5	169.2	177.0	184.8	190.9	194.6	196.3	197.7	199.9	25.7	129.1
30,0°	168.6	166.1	168.7	174.1	181.8	191.0	197.3	199.5	201.5	203.3	203.1	28.6	157.6
32,5°	171.7	168.1	171.8	178.8	188.7	197.7	202.5	207.0	204.6	206.1	207.9	31.7	189.4
35,0°	176.2	172.0	176.0	182.3	189.3	199.0	204.1	208.8	209.3	209.0	209.1	35.1	224.5
37,5°	183.4	176.1	182.0	189.6	195.5	203.0	208.2	208.9	211.9	211.2	212.5	38.7	263.2
40,0°	187.9	180.5	191.4	199.7	200.2	198.2	209.0	211.1	213.4	214.9	218.7	42.3	305.4
42,5°	189.4	184.3	192.9	196.0	188.9	188.7	196.2	196.5	203.3	201.1	192.6	45.5	351.0
45,0°	180.7	169.8	167.5	169.7	166.7	171.0	181.6	185.9	181.2	179.4	175.4	47.8	398.7
47,5°	182.7	168.3	167.4	171.8	163.8	161.8	173.8	178.8	171.6	165.6	157.6	49.0	447.7
50,0°	191.0	184.2	175.0	180.1	171.6	167.2	177.8	176.1	160.2	149.0	145.3	51.3	499.0
52,5°	211.4	202.8	196.6	183.8	174.8	180.9	180.2	164.0	147.1	134.3	122.1	54.3	553.4
55,0°	219.7	201.2	193.9	195.2	168.5	172.9	179.7	154.0	131.0	118.4	108.5	56.5	609.9
57,5°	186.1	171.6	174.1	170.2	153.8	153.5	155.1	144.0	113.4	94.6	93.6	56.0	665.9
60,0°	146.5	141.1	148.2	138.2	127.1	122.6	124.2	116.5	102.2	81.6	75.0	53.4	719.3
62,5°	125.6	133.2	135.2	118.5	118.0	108.6	111.9	111.1	90.1	71.7	64.8	51.9	771.2
65,0°	118.0	128.1	121.8	106.4	111.5	92.5	98.7	100.7	78.8	58.0	53.5	50.0	821.2
67,5°	105.4	113.1	93.2	76.4	76.4	54.5	70.3	73.8	47.5	45.3	43.5	46.2	867.4
70,0°	86.5	90.2	68.0	51.9	44.6	37.9	42.2	40.5	34.0	33.5	31.3	40.8	908.2
72,5°	62.7	68.4	50.1	35.3	30.1	30.0	28.9	28.2	27.3	25.0	22.3	34.1	942.3
75,0°	41.8	50.7	32.5	22.6	24.1	24.9	23.4	23.1	21.8	20.2	19.2	26.1	968.4
77,5°	25.0	29.6	16.4	15.8	18.3	19.5	17.8	18.7	18.1	15.6	14.4	16.8	985.2
80,0°	13.3	11.6	10.3	10.1	12.1	13.1	11.7	13.3	13.1	11.1	10.6	8.7	994.0
82,5°	7.2	6.3	6.0	6.3	7.5	7.6	6.9	7.4	7.6	6.8	6.4	4.0	997.9
85,0°	3.7	3.4	3.3	3.2	3.4	3.5	3.4	3.5	3.5	3.3	3.4	1.5	999.4
87,5°	1.7	1.5	1.5	1.4	1.4	1.4	1.4	1.2	1.2	1.1	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
100,0°	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
110,0°	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
120,0°	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
130,0°	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
140,0°	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
150,0°	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
160,0°	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
170,0°	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
180,0°	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

Lichttechnischer Prüfbefund

Familie DL® 20 LED	Bestell-Nr.: 5XA51283WA008P EAN: 4058352271902	LP-Nummer 58602_3
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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	siteco
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Lichtstrom [%]	Dimmstufe linear	Lichtstrom [lm]	Systemleistung [W] Lebensdauerbeginn	Systemleistung [W] Lebensdauerende	Systemleistung [W] Durchschnitt
100	254	4180	52.7	54.0	53.4
95	238	3971	49.4	50.6	50.0
90	223	3762	46.1	47.3	46.7
85	208	3553	43.1	44.0	43.6
80	194	3344	40.2	41.0	40.6
75	180	3135	37.1	38.0	37.6
70	166	2926	34.3	35.0	34.6
65	153	2717	31.5	32.2	31.8
60	139	2508	28.8	29.4	29.1
55	126	2299	26.3	26.8	26.6
50	114	2090	23.8	24.2	24.0
45	101	1881	21.3	21.7	21.5
40	89	1672	18.9	19.2	19.0
35	77	1463	16.6	16.8	16.7
30	65	1254	14.4	14.6	14.5
25	54	1045	12.1	12.4	12.2
20	43	836	10.2	10.3	10.2
15	32	626	8.2	8.3	8.2