

Lichttechnischer Prüfbefund

Familie
DL® 20 LED

Bestell-Nr.: 5XA51283NA008P
EAN: 4058352271780

LP-Nummer
58602_4



Ausführung	Mastaufsatz-Montage
Optik	asymmetrisch, breit strahlend (ST1.2a)
Abdeckung	Einscheibensicherheitsglas (ESG)
Bestückung	LED 4000K / CRI ≥ 80
Betriebsgerät	EVG Plus
Bemessungswerte	Nettolichtstrom = 5300 lm Systemleistung = 52.7 W Lichtausbeute = 100.6 lm/W

Seriendokumentation
28.06.2018

siteco

Lichtstärke in cd/klm

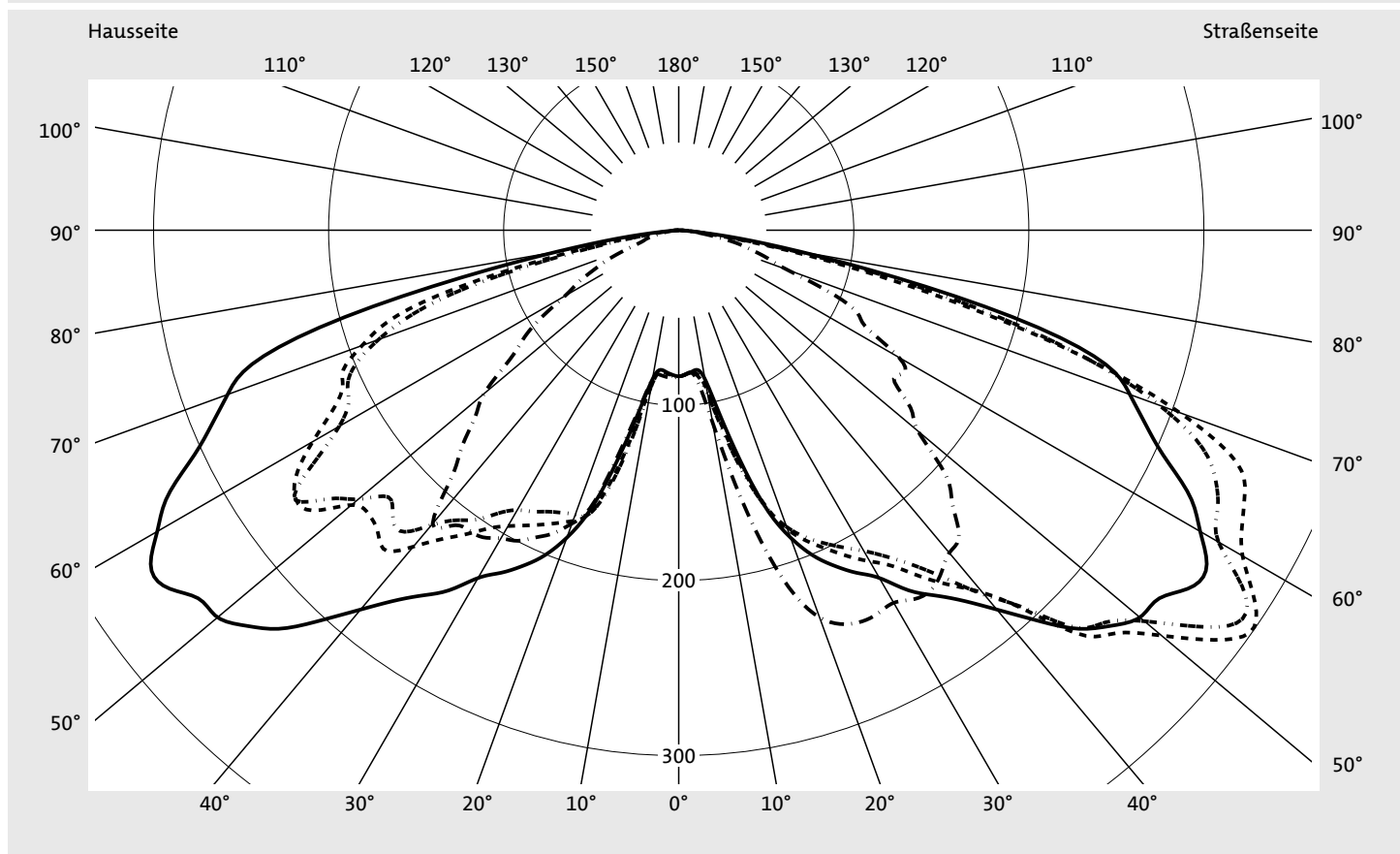
C180-0

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

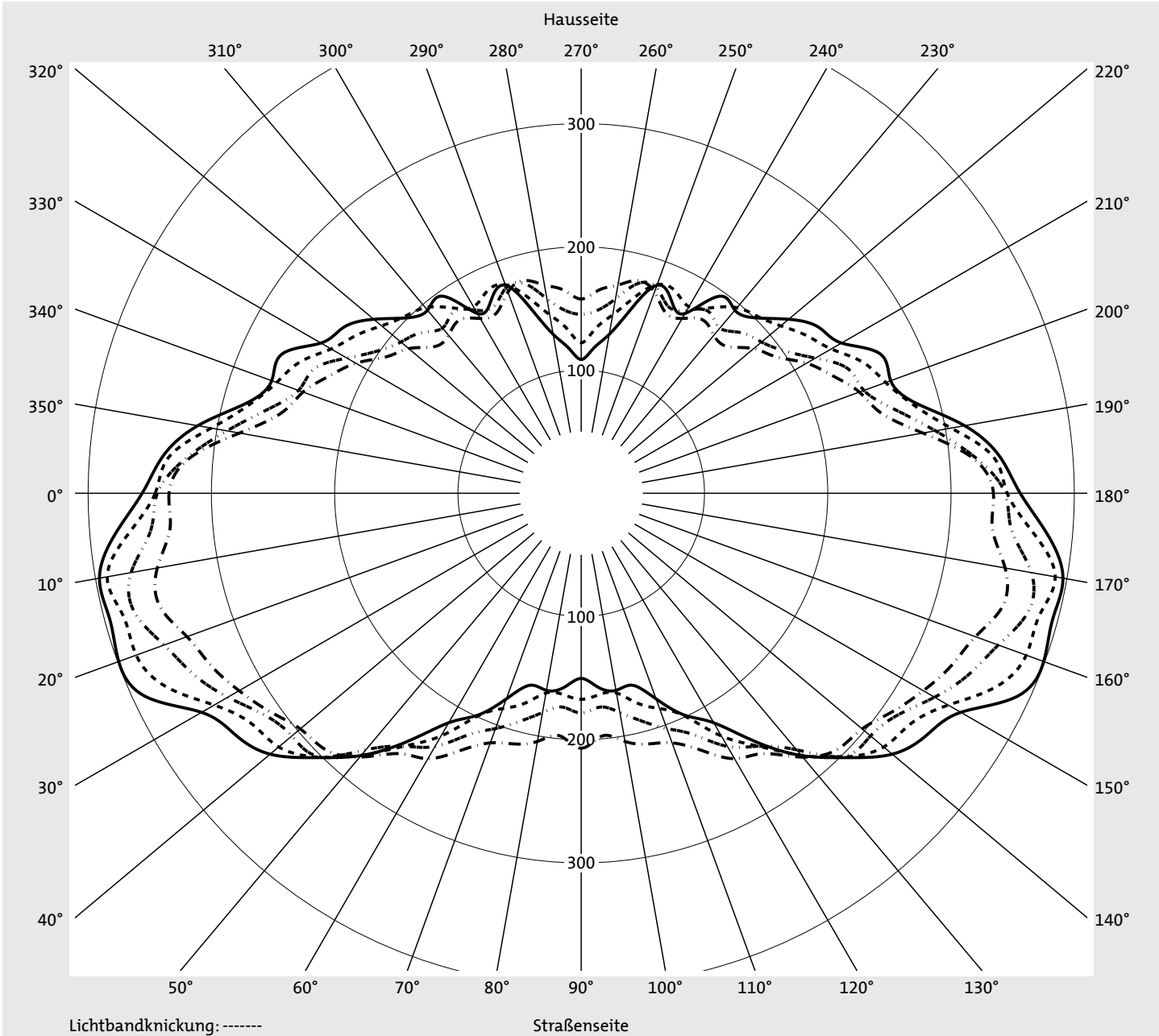
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Kegelmantelkurven in cd/klm

KMK 55°
KMK 52,5°
KMK 50°
KMK 47,5°



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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

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.: 5XA51283NA008P EAN: 4058352271780	LP-Nummer 58602_4
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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	5300	52.7	54.0	53.4
95	238	5035	49.4	50.6	50.0
90	223	4770	46.1	47.3	46.7
85	208	4505	43.1	44.0	43.6
80	194	4240	40.2	41.0	40.6
75	180	3975	37.1	38.0	37.6
70	166	3710	34.3	35.0	34.6
65	153	3445	31.5	32.2	31.8
60	139	3180	28.8	29.4	29.1
55	126	2915	26.3	26.8	26.6
50	114	2650	23.8	24.2	24.0
45	101	2385	21.3	21.7	21.5
40	89	2120	18.9	19.2	19.0
35	77	1855	16.6	16.8	16.7
30	65	1590	14.4	14.6	14.5
25	54	1325	12.1	12.4	12.2
20	43	1060	10.2	10.3	10.2
15	32	794	8.2	8.3	8.2