

Lichttechnischer Prüfbefund

Familie
DL® 20 LED

Bestell-Nr.: 5XA51283NR008
EAN: 4058352271803

LP-Nummer
58603_2



Ausführung	Mastaufsatz-Montage
Optik	asymmetrisch, extrem breit strahlend (P1.0a)
Abdeckung	Einscheibensicherheitsglas (ESG)
Bestückung	LED 4000K / CRI ≥ 80
Betriebsgerät	EVG Plus
Bemessungswerte	Nettolichtstrom = 3050 lm Systemleistung = 27.2 W Lichtausbeute = 112.1 lm/W

Seriendokumentation
28.06.2018

sitEco

Lichtstärke in cd/klm

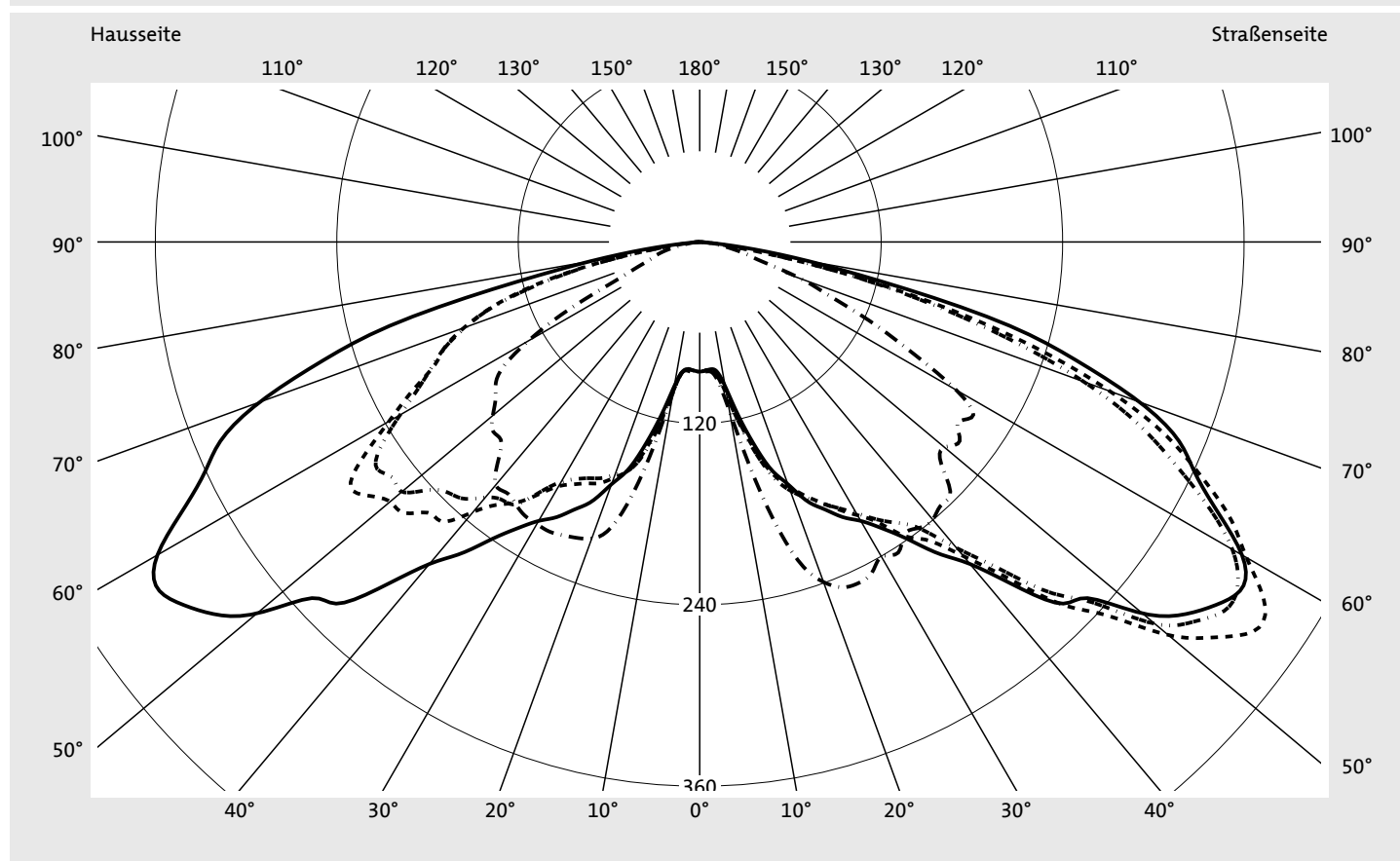
C180-0

C200-20

C205-25

C270-90

I_{max}: 448 cd/klm



Leuchtenbetriebswirkungsgrade

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

Lichtstärkeklasse nach EN13201-2

Klasse:	G6
I _{max} 70°	317.0
I _{max} 80°	73.4
I _{max} 90°	0.0
I _{max} >90°	0.0
I _{max} >95°	0.0

Messbedingungen

DIN EN 13032 und DIN 5032

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Kegelmantelkurven in cd/klm

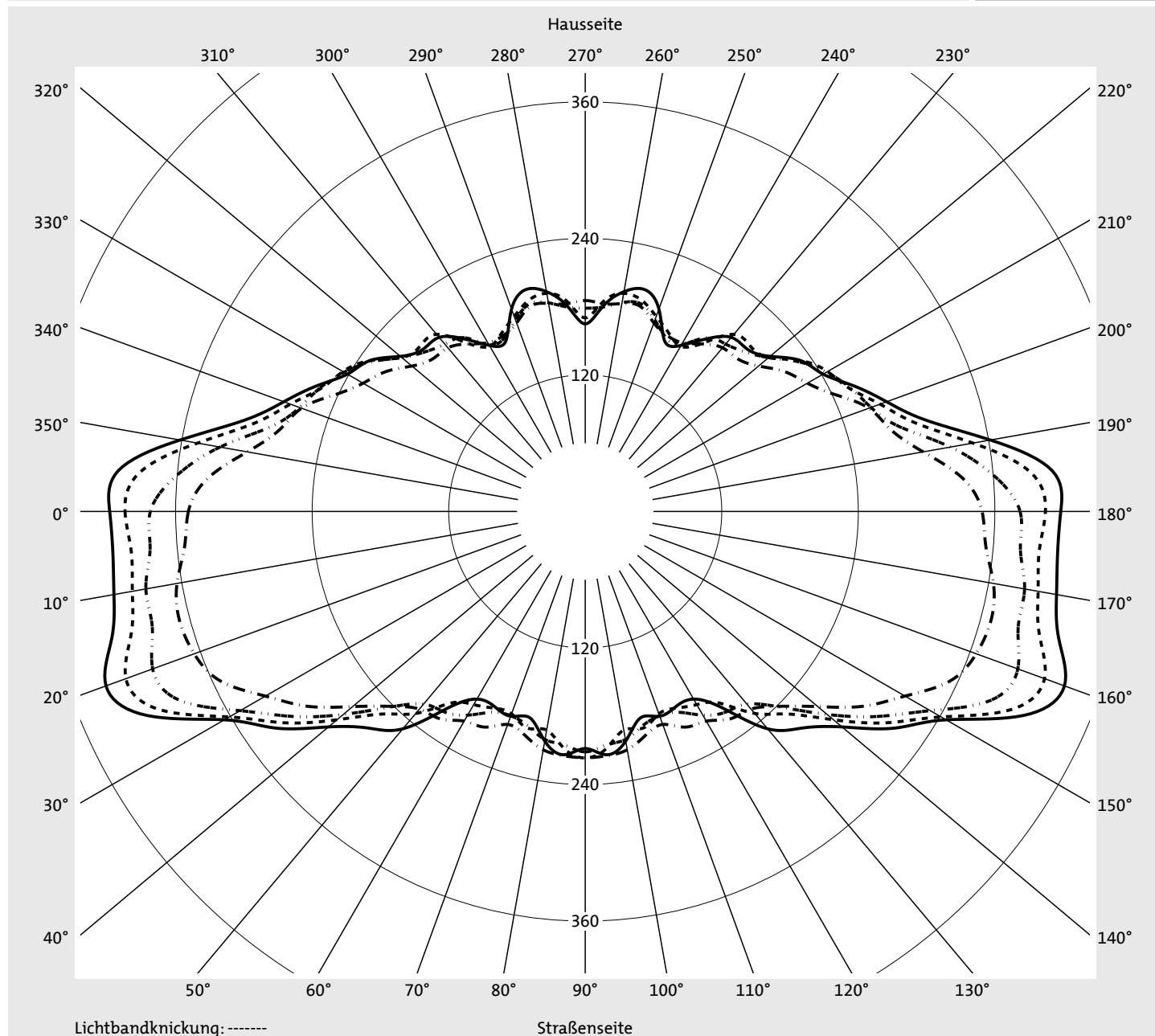
KMK 55°

KMK 52,5°

KMK 50°

KMK 47,5°

siteco



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Wertetabelle Lichtstärkemessung	Maximale Lichtstärke	siteco
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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°	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
2,5°	85.2	85.2	85.2	85.2	85.2	85.1	85.4	85.3	85.1	85.4	85.4	85.4	85.6
5,0°	84.5	84.5	84.6	85.0	85.1	85.3	85.8	85.8	85.8	86.3	86.2	86.3	86.5
7,5°	86.4	86.8	87.3	88.1	88.8	89.4	90.8	91.4	91.8	92.6	92.7	93.3	93.6
10,0°	96.9	98.5	99.8	101.5	102.6	103.5	105.2	105.9	106.4	107.6	108.0	109.1	110.5
12,5°	117.3	118.1	119.7	121.5	122.8	124.4	126.8	127.6	128.1	130.1	131.0	133.4	137.7
15,0°	138.6	139.1	140.5	142.4	143.4	145.6	148.2	148.7	150.1	153.0	155.0	159.2	166.8
17,5°	158.2	157.1	157.8	159.4	160.9	163.6	166.2	166.7	168.5	172.0	175.4	181.0	188.6
20,0°	170.5	170.8	170.9	170.5	171.9	175.0	176.4	177.6	180.3	182.8	187.1	193.6	199.8
22,5°	185.5	183.7	182.1	180.0	181.6	183.2	182.8	184.3	187.5	190.6	196.1	201.9	206.9
25,0°	195.1	195.1	192.1	188.9	190.2	190.8	190.1	190.0	192.3	197.1	204.1	208.2	212.6
27,5°	205.3	206.2	204.2	200.6	199.6	198.4	198.6	199.6	199.9	204.6	211.6	214.9	218.0
30,0°	213.1	215.7	216.4	213.5	208.7	207.1	207.7	207.7	206.7	212.6	217.3	218.1	219.7
32,5°	224.6	226.3	228.5	225.2	220.2	217.5	216.7	215.4	216.3	216.1	219.3	222.9	224.0
35,0°	240.1	241.2	240.4	240.4	237.8	226.7	222.5	220.6	216.2	215.1	218.6	225.3	224.9
37,5°	260.0	259.1	257.3	255.8	248.9	238.8	235.1	228.2	221.0	219.4	220.6	226.7	229.3
40,0°	278.1	281.2	281.0	277.0	271.2	264.2	259.1	250.4	238.0	228.6	224.6	230.1	233.3
42,5°	308.1	309.2	306.6	309.7	301.4	293.1	281.1	266.2	249.7	235.5	231.3	238.6	236.2
45,0°	338.3	340.2	347.0	350.2	339.3	328.1	311.3	287.4	265.1	247.1	237.9	238.3	231.9
47,5°	348.8	353.4	364.3	369.3	365.7	353.2	324.6	298.4	266.8	242.2	226.7	222.5	212.8
50,0°	382.2	383.9	392.1	393.9	404.6	393.0	350.2	314.1	277.5	243.2	221.0	215.3	206.7
52,5°	404.5	400.5	404.2	413.0	429.6	412.4	361.2	323.8	284.8	251.8	231.8	205.6	196.1
55,0°	417.9	416.8	420.6	430.8	448.2	424.5	366.2	332.0	294.6	269.3	249.4	211.1	190.4
57,5°	425.6	420.8	410.0	430.2	442.8	422.0	368.3	325.7	284.3	270.2	253.1	209.7	192.7
60,0°	414.1	403.2	395.3	402.4	417.5	406.8	347.3	298.8	262.6	245.4	227.9	200.7	172.0
62,5°	385.9	382.8	376.0	376.6	395.6	379.3	317.1	265.9	225.5	207.7	197.8	183.5	141.9
65,0°	361.4	371.8	362.7	358.7	365.4	346.3	300.3	238.5	195.3	179.1	175.0	158.5	122.0
67,5°	342.7	351.3	346.4	342.0	333.3	313.3	277.9	217.6	166.1	159.0	156.8	132.2	114.7
70,0°	309.5	316.1	317.0	308.7	288.8	270.4	238.5	188.4	136.7	126.6	132.9	106.6	92.0
72,5°	261.8	267.2	269.3	261.2	233.4	216.4	190.2	151.0	110.0	100.0	103.4	78.4	63.3
75,0°	208.6	205.0	199.3	188.8	169.0	158.4	137.8	111.9	83.3	73.6	71.7	56.4	46.6
77,5°	129.9	131.5	123.7	114.6	103.4	102.2	89.3	72.8	53.4	45.5	44.2	34.8	33.5
80,0°	73.4	70.7	63.2	59.0	49.1	49.6	39.9	32.4	29.3	23.0	21.0	21.3	20.3
82,5°	33.9	31.7	28.0	23.6	17.6	18.1	14.1	12.2	12.3	10.6	9.9	10.4	10.5
85,0°	8.2	7.3	7.1	6.5	6.3	7.3	5.3	4.7	4.8	4.4	4.4	4.6	4.5
87,5°	2.7	2.6	2.6	2.5	2.3	2.2	2.0	1.8	1.7	1.6	1.6	1.6	1.5
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°	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
2,5°	85.6	85.6	85.9	86.0	85.9	85.9	85.3	85.3	85.3	85.3	85.3	85.5	85.5
5,0°	86.3	86.4	86.5	86.4	86.3	86.3	84.4	84.5	84.4	84.4	84.4	84.7	84.6
7,5°	93.4	93.4	93.4	93.3	93.1	93.0	86.0	86.0	86.0	86.1	86.4	86.9	87.1
10,0°	111.0	111.8	112.9	113.2	113.5	113.8	96.7	96.9	97.6	98.5	99.8	101.3	102.4
12,5°	140.1	143.4	147.0	148.2	149.6	151.0	117.4	118.3	119.9	122.1	124.6	127.7	130.0
15,0°	171.7	178.0	184.5	186.5	189.5	192.1	140.2	142.1	143.5	144.9	146.8	150.1	152.4
17,5°	196.2	205.0	212.8	216.7	221.1	223.8	158.7	159.5	159.6	158.9	159.0	160.4	162.9
20,0°	208.5	217.5	225.3	232.5	237.2	239.4	173.0	171.9	169.6	166.1	164.0	164.0	165.8
22,5°	215.1	223.3	230.9	239.2	244.9	247.3	185.7	182.3	177.3	172.6	169.1	167.0	168.2
25,0°	220.4	226.6	232.6	242.4	248.0	248.9	196.0	189.2	181.8	176.2	172.4	170.8	171.6
27,5°	223.6	228.8	235.4	244.7	247.3	246.7	204.0	196.8	187.2	180.7	176.8	175.7	176.0
30,0°	224.6	230.4	235.9	239.9	246.7	240.4	210.6	204.6	193.8	186.6	183.3	181.0	178.3
32,5°	225.3	230.8	234.7	236.6	242.0	243.9	224.1	217.7	203.7	197.7	196.0	191.2	183.4
35,0°	225.5	232.7	230.7	234.8	240.8	236.0	237.3	223.7	211.8	210.3	211.8	203.0	194.2
37,5°	229.1	227.4	230.1	231.5	233.3	238.4	248.5	234.1	223.6	219.0	215.0	206.4	198.6
40,0°	230.8	223.5	227.9	227.3	229.6	239.8	263.8	249.2	242.7	233.2	220.6	214.0	205.6
42,5°	225.1	223.3	226.5	228.0	230.1	236.2	285.0	267.1	261.5	251.0	230.4	219.2	208.5
45,0°	219.8	215.2	221.4	225.3	234.4	234.4	317.0	294.5	276.6	253.4	234.7	220.4	207.2
47,5°	209.1	199.2	203.9	212.7	215.5	216.4	333.2	301.6	278.0	265.3	242.8	225.4	214.2
50,0°	194.8	191.1	195.0	203.6	206.2	211.3	360.7	325.9	286.7	267.3	257.1	244.7	229.3
52,5°	190.6	189.2	197.0	195.1	209.4	216.6	393.1	346.0	300.5	275.8	256.1	245.9	231.1
55,0°	189.0	191.5	187.8	204.9	214.7	208.3	411.9	361.6	310.0	281.9	260.9	241.4	231.2
57,5°	186.0	184.1	195.7	198.3	206.2	214.3	406.5	354.5	298.6	263.2	249.1	235.1	216.5
60,0°	167.3	175.3	185.7	184.8	188.9	195.9	389.8	332.2	275.5	237.2	228.8	214.6	195.3
62,5°	136.6	154.3	150.9	161.4	169.1	158.1	370.1	311.6	251.5	215.0	209.8	197.3	169.4
65,0°	103.6	132.0	120.6	123.3	131.9	125.0	343.3	287.9	227.5	193.8	195.4	187.0	150.3
67,5°	107.1	103.1	94.7	91.0	91.8	92.6	313.4	261.2	215.4	182.7	182.3	176.3	134.4
70,0°	92.2	77.9	71.7	67.0	64.0	71.8	278.6	237.4	196.6	165.9	164.6	154.4	119.8
72,5°	72.4	54.9	50.0	49.2	46.0	44.1	236.3	204.3	174.6	144.8	144.0	130.3	96.3
75,0°	50.4	42.9	40.8	37.3	34.6	33.2	186.3	159.5	141.0	116.7	113.5	96.9	62.8
77,5°	34.1	32.5	32.8	28.9	25.8	23.7	124.4	110.1	98.2	81.3	79.2	59.4	32.8
80,0°	20.5	21.3	21.2	17.9	16.5	16.2	68.0	62.9	52.6	43.6	43.0	26.4	17.4
82,5°	10.8	10.7	10.6	10.0	8.9	8.7	32.1	29.0	23.3	17.9	17.6	11.1	8.0
85,0°	4.6	4.6	4.4	4.3	4.2	4.0	8.4	8.2	6.9	6.1	6.6	4.8	4.2
87,5°	1.4	1.4	1.4	1.3	1.2	1.2	2.8	2.7	2.5	2.4	2.3	2.3	2.1
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
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°	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	0.1	0.1
2,5°	85.5	85.6	85.7	85.7	85.8	85.8	85.8	86.1	85.9	86.1	86.3	1.0	1.2
5,0°	84.6	84.7	84.8	84.9	85.2	85.2	85.3	85.5	85.4	85.4	85.7	2.0	3.2
7,5°	87.3	87.6	87.7	87.8	87.7	87.2	87.0	86.9	86.6	86.6	86.9	3.2	6.4
10,0°	103.2	103.7	103.5	103.5	103.2	102.4	102.0	101.6	100.8	100.5	100.7	4.9	11.3
12,5°	131.3	132.9	133.0	133.2	133.9	133.2	134.0	135.7	135.3	135.1	135.7	7.8	19.1
15,0°	153.9	156.7	158.1	159.7	163.2	164.0	166.0	170.4	170.8	172.1	174.1	11.2	30.3
17,5°	165.5	169.7	172.1	174.5	180.0	182.9	185.9	191.2	193.9	197.0	199.6	14.6	44.9
20,0°	169.4	174.5	178.7	182.0	187.0	191.1	194.3	199.0	203.5	207.0	208.7	17.5	62.4
22,5°	172.1	177.2	181.9	186.9	191.8	197.1	200.8	202.8	206.9	211.1	211.9	20.3	82.7
25,0°	175.4	179.1	183.9	189.9	196.6	202.9	205.1	205.8	209.4	213.6	214.1	23.1	105.8
27,5°	176.5	179.5	185.7	193.1	202.8	210.0	208.8	207.7	210.9	214.9	215.8	25.9	131.7
30,0°	178.1	182.5	190.5	196.0	202.8	208.2	208.1	207.4	211.0	214.8	215.4	28.6	160.3
32,5°	182.5	188.5	192.0	197.1	201.6	206.2	206.8	208.5	210.6	213.9	214.9	31.5	191.7
35,0°	189.2	189.1	194.2	197.9	203.5	204.1	207.3	212.0	212.3	211.2	211.9	34.4	226.1
37,5°	191.1	190.7	197.6	204.9	208.0	206.2	211.6	217.2	214.8	208.6	209.3	37.4	263.5
40,0°	199.5	197.0	198.9	207.1	207.2	214.3	215.6	219.9	216.8	209.4	209.9	41.1	304.6
42,5°	199.9	199.1	203.8	205.4	205.8	209.5	206.1	210.4	206.5	196.8	197.6	44.7	349.3
45,0°	195.2	186.6	185.4	182.6	184.5	185.8	190.0	192.6	186.7	184.3	185.8	47.7	397.0
47,5°	198.8	189.6	187.8	179.7	171.2	170.5	176.3	186.7	185.6	183.3	185.4	49.9	446.9
50,0°	210.4	198.5	192.0	186.5	169.4	168.3	179.0	188.9	186.3	180.3	178.7	53.6	500.5
52,5°	210.4	205.4	203.2	180.6	167.7	173.3	182.4	192.1	194.7	185.5	170.1	57.0	557.5
55,0°	212.1	201.6	199.7	185.1	168.6	165.2	189.3	201.9	196.2	181.2	164.8	60.2	617.7
57,5°	193.6	186.3	200.7	183.8	160.8	156.4	182.3	210.8	197.4	174.2	154.3	60.9	678.6
60,0°	165.5	164.7	177.8	158.3	138.0	137.5	157.3	181.3	188.1	159.7	131.0	57.8	736.4
62,5°	143.0	146.6	150.8	131.3	115.7	114.1	121.6	136.4	141.4	115.5	100.1	52.5	788.9
65,0°	130.2	132.4	130.4	111.4	96.3	88.5	102.0	103.2	94.9	76.5	64.5	47.6	836.5
67,5°	117.5	121.0	104.3	89.5	68.6	63.8	78.5	67.7	53.8	47.9	46.9	42.8	879.3
70,0°	106.0	104.6	78.8	58.2	46.4	44.1	48.9	41.5	39.2	38.0	36.2	37.1	916.4
72,5°	83.3	87.1	62.4	39.1	37.0	36.5	36.4	34.9	32.4	31.9	31.1	30.7	947.1
75,0°	56.1	61.2	36.7	27.6	29.9	30.2	29.7	29.0	26.9	25.7	25.5	23.4	970.4
77,5°	31.9	32.1	18.6	19.0	22.1	22.5	22.5	22.3	21.0	19.2	18.8	15.4	985.8
80,0°	17.7	13.0	11.9	12.4	14.7	14.9	14.8	15.2	14.6	12.7	11.9	8.4	994.2
82,5°	8.6	7.3	7.0	7.3	8.3	8.3	8.5	8.8	8.5	7.7	7.1	3.9	998.1
85,0°	4.2	3.9	3.7	3.9	4.1	3.9	4.2	4.3	4.2	4.0	3.8	1.4	999.5
87,5°	2.0	1.9	1.9	1.9	1.9	1.8	1.6	1.7	1.7	1.6	1.6	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.: 5XA51283NR008 EAN: 4058352271803	LP-Nummer 58603_2
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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	3050	27.2	27.6	27.4
95	240	2898	25.8	26.1	26.0
90	225	2745	24.4	24.7	24.5
85	211	2593	23.0	23.3	23.2
80	198	2440	21.5	21.8	21.6
75	184	2288	20.2	20.4	20.3
70	171	2135	18.9	19.1	19.0
65	158	1983	17.5	17.7	17.6
60	145	1830	16.3	16.4	16.4
55	132	1678	14.9	15.1	15.0
50	119	1525	13.7	13.8	13.8
45	107	1373	12.4	12.5	12.4
40	95	1220	11.3	11.4	11.4
35	83	1068	10.1	10.2	10.1
30	71	915	9.0	9.1	9.0
25	59	763	7.9	8.0	8.0
20	47	609	6.8	6.9	6.8