

## Photometric test report

Family  
DL® 20 LED

Order number: 5XA51283WS008  
EAN: 4058352271964

LP number  
59489\_18



**Version** post-top mounting  
**Optic** symmetric, wide distribution (PL1.2s)  
**Cover** toughened safety glass  
**Lamps** LED 3000 K | CRI ≥ 70  
**Controlgear** ECG Plus  
**Rated values** Net luminous flux = 3080 lm  
Power consumption = 24.6 W  
Luminous efficacy = 125.2 lm/W

serial  
documentation  
07.12.2023

siteco

Luminous intensity in cd/klm

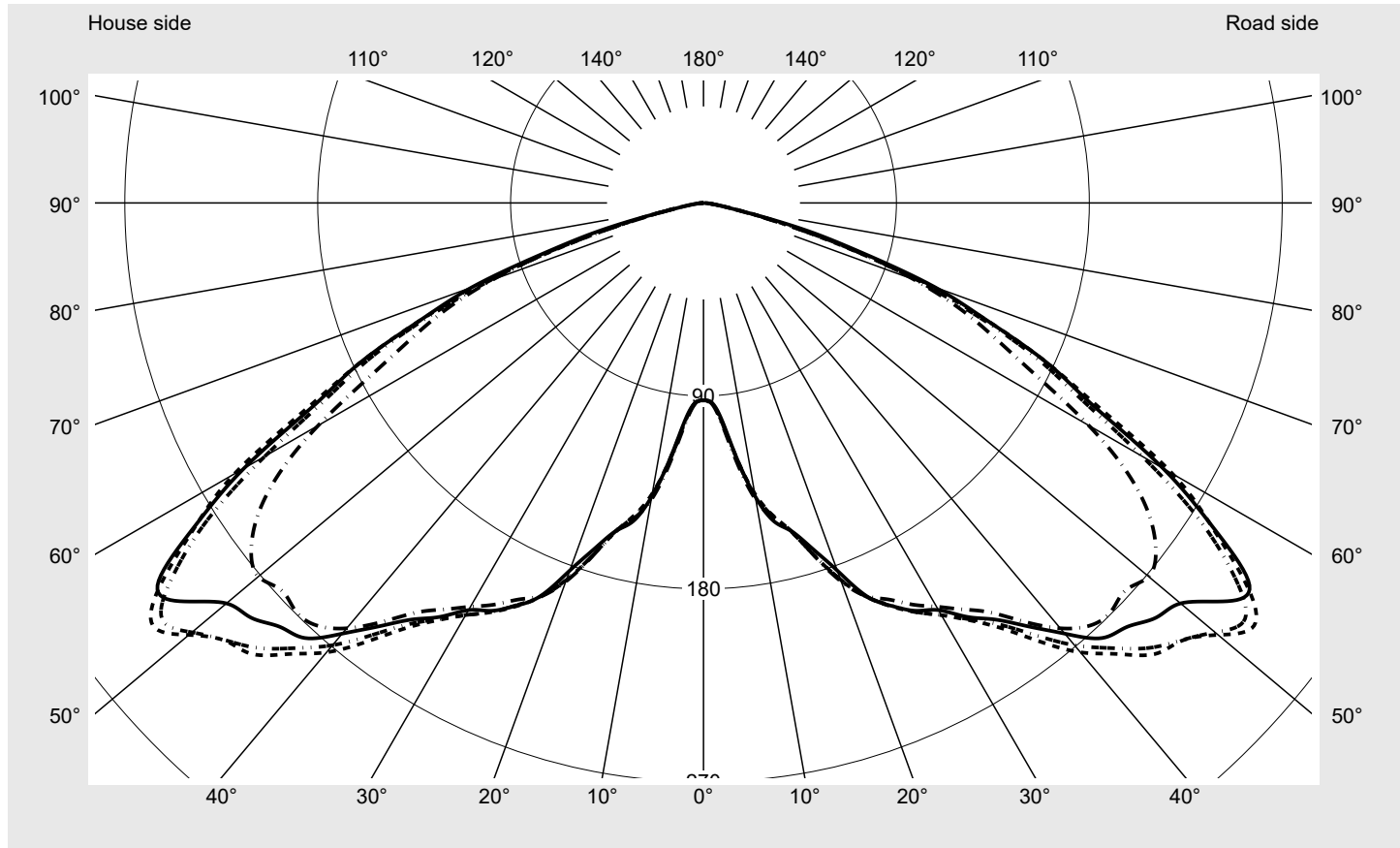
C180-0

C230-50

C235-55

C270-90

Imax: 324 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°	119.6
Imax 80°	10.2
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

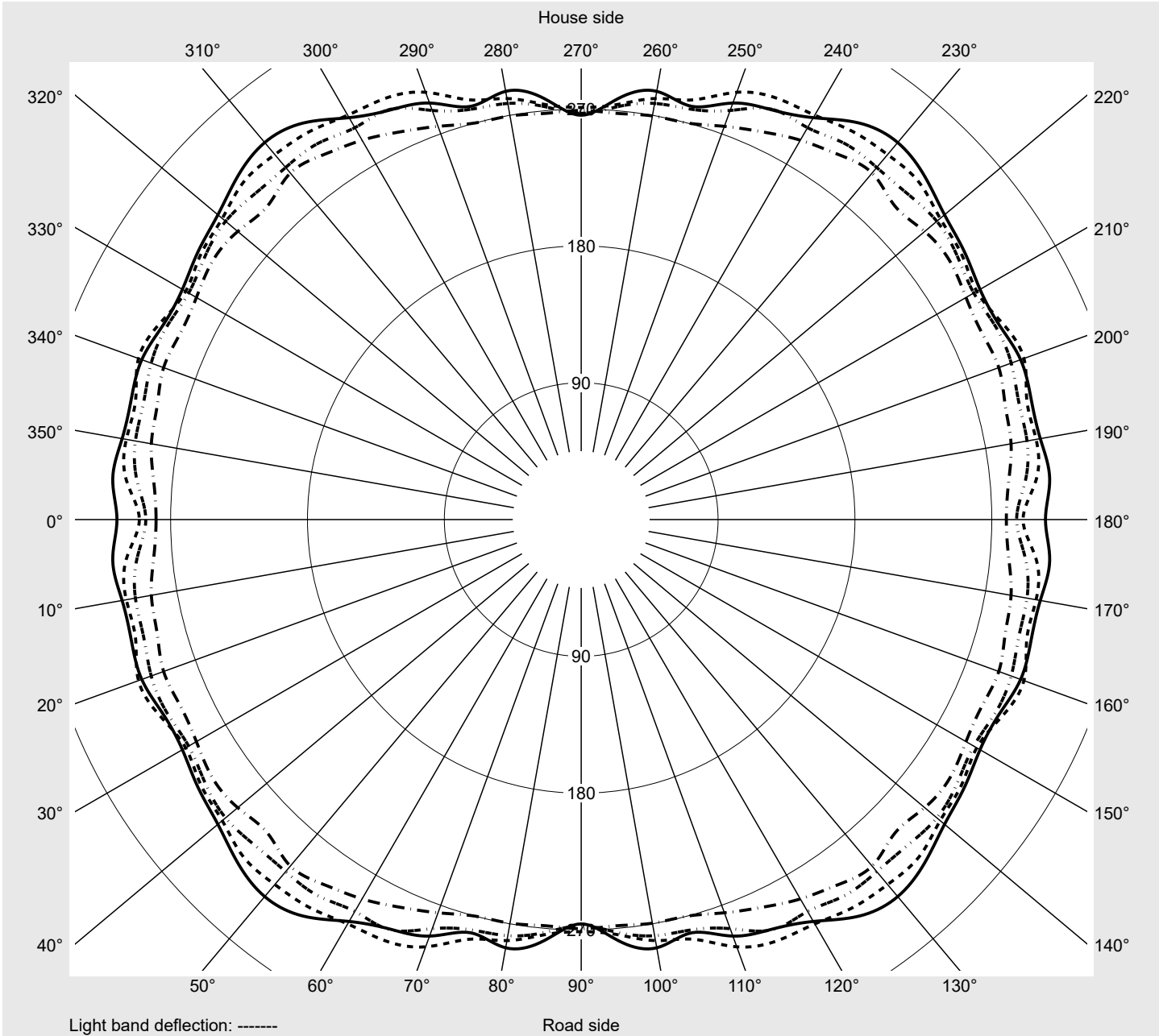
#### Measurement conditions

DIN EN 13032 and DIN 5032

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**Envelope curve in cd/klm**      **KMK 52.5°**    **KMK 50°**    **KMK 47.5°**    **KMK 45°**      **siteco**



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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	0° 180°	5°	10°	15°	20°	25°	30°	35°	40°	45°
		175° 185° 355°	170° 190° 350°	165° 195° 345°	160° 200° 340°	155° 205° 335°	150° 210° 330°	145° 215° 325°	140° 220° 320°	135° 225° 315°
Luminous intensity in cd/klm										
γ										
0,0°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2,5°	93.4	93.2	93.1	93.3	93.3	93.3	93.3	93.3	93.4	93.5
5,0°	102.6	102.9	102.9	103.0	102.9	102.9	103.0	103.0	103.1	103.3
7,5°	120.6	120.2	120.1	120.1	119.8	119.6	119.7	119.6	119.8	120.3
10,0°	139.0	139.1	138.5	138.4	137.3	136.8	136.8	136.3	136.6	137.5
12,5°	152.1	151.2	150.5	150.5	149.0	148.4	148.7	147.7	147.9	149.4
15,0°	158.5	157.9	157.9	158.4	157.4	157.4	158.2	157.5	157.6	159.0
17,5°	169.1	168.6	169.4	170.4	170.6	171.4	172.2	172.4	172.1	172.5
20,0°	182.5	183.9	185.1	185.3	186.6	187.2	186.8	186.8	186.6	186.5
22,5°	198.4	198.7	199.5	198.7	200.2	200.0	198.4	199.1	198.5	197.4
25,0°	207.3	209.4	209.1	207.0	208.7	208.9	206.7	207.5	207.4	205.9
27,5°	214.5	216.3	216.8	214.4	215.4	215.5	214.3	214.7	214.1	213.5
30,0°	219.3	221.6	223.0	220.8	221.0	222.5	222.0	220.9	220.0	219.9
32,5°	228.9	230.3	232.4	230.1	228.5	229.7	230.3	229.4	230.0	229.4
35,0°	237.2	241.2	242.0	238.8	237.4	239.3	241.5	239.9	239.5	240.8
37,5°	248.9	251.0	250.2	248.6	251.3	252.2	253.8	251.9	252.2	254.2
40,0°	262.2	264.6	262.5	260.0	264.5	267.0	266.1	268.6	268.1	269.8
42,5°	275.2	277.3	275.3	277.1	278.3	279.3	279.4	282.4	282.6	279.4
45,0°	279.6	282.1	287.0	288.7	292.2	290.7	292.2	296.1	294.8	291.7
47,5°	286.3	293.2	297.7	297.9	300.9	300.6	298.1	302.0	305.3	303.3
50,0°	290.6	300.3	303.8	303.4	309.8	305.6	300.3	305.1	308.1	314.0
52,5°	305.3	309.2	306.5	306.3	307.5	303.2	302.8	307.5	311.9	319.4
55,0°	311.0	305.4	298.9	300.0	292.0	289.0	292.6	299.2	298.2	304.3
57,5°	282.2	276.7	270.3	271.8	266.1	264.4	268.1	272.4	272.2	276.3
60,0°	247.6	245.5	244.2	239.0	236.3	232.0	232.9	238.4	241.6	244.4
62,5°	205.4	209.1	210.1	207.7	204.4	198.0	200.9	206.1	205.1	205.5
65,0°	177.5	177.6	176.7	178.2	173.4	171.3	172.2	176.4	174.3	174.3
67,5°	143.2	143.6	143.1	145.0	143.3	140.0	143.1	149.0	147.3	144.4
70,0°	114.9	113.5	112.8	112.7	112.4	110.9	112.3	119.6	115.8	111.4
72,5°	78.2	80.5	81.1	78.8	75.5	76.3	77.9	81.3	79.6	74.4
75,0°	50.1	48.6	45.8	43.9	43.4	42.5	42.2	43.8	44.5	42.1
77,5°	21.0	22.0	20.5	20.2	21.3	21.4	20.6	22.0	22.3	21.2
80,0°	9.7	9.8	9.3	9.1	9.7	10.1	9.8	10.2	9.9	9.2
82,5°	4.6	4.9	4.8	4.7	4.8	4.9	4.7	4.9	4.9	4.8
85,0°	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.3
87,5°	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.2	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

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>sITeco</b>

C-planes γ	50°	55°	60°	65°	70°	75°	80°	85°	90°	Phi-zone	Total Phi-zone
	130° 230° 310°	125° 235° 305°	120° 240° 300°	115° 245° 295°	110° 250° 290°	105° 255° 285°	100° 260° 280°	95° 265° 275°			
Luminous intensity in cd/klm										Luminous flux in lm/klm	
0,0°	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	0.1	0.1
2,5°	93.6	93.6	93.8	93.7	93.8	93.9	94.0	94.0	94.0	1.1	1.3
5,0°	103.5	103.8	104.1	104.3	104.4	104.7	104.7	104.8	104.8	2.5	3.7
7,5°	120.8	121.4	122.0	122.4	122.6	123.0	123.1	123.2	123.3	4.3	8.1
10,0°	137.7	138.2	139.0	139.1	139.5	140.3	140.0	140.2	140.7	6.6	14.7
12,5°	149.2	149.7	150.7	150.0	150.0	150.8	150.0	149.8	150.7	8.9	23.5
15,0°	158.8	159.0	159.7	158.5	158.3	159.1	158.1	157.8	158.5	11.2	34.8
17,5°	172.6	172.6	172.5	172.3	172.4	172.6	172.5	172.7	172.9	14.2	48.9
20,0°	187.2	186.9	186.0	186.5	187.0	186.8	187.9	188.4	188.0	17.5	66.4
22,5°	198.9	198.8	197.2	198.1	198.3	197.6	199.7	199.8	198.5	20.8	87.3
25,0°	207.7	207.1	204.7	205.8	206.0	204.4	206.4	206.2	204.0	24.0	111.2
27,5°	215.2	215.1	211.4	213.0	213.8	212.2	213.4	213.2	211.2	27.1	138.3
30,0°	222.0	221.9	217.5	218.7	221.0	221.0	221.2	219.6	217.4	30.3	168.6
32,5°	230.7	230.2	225.0	226.1	228.5	226.7	226.4	226.4	224.8	33.7	202.3
35,0°	242.1	239.9	236.9	238.1	238.4	235.2	234.4	234.3	233.1	37.5	239.8
37,5°	257.9	254.0	251.8	253.1	250.1	245.3	243.6	245.6	246.2	41.9	281.6
40,0°	273.6	269.3	265.8	265.6	261.7	256.1	255.0	256.8	259.0	46.6	328.2
42,5°	285.3	281.6	279.0	274.3	269.2	263.3	265.7	264.5	267.2	51.1	379.3
45,0°	297.6	293.5	288.2	281.5	275.3	270.1	269.7	268.3	269.2	55.3	434.6
47,5°	302.4	302.0	297.7	297.7	286.4	279.5	278.0	272.6	267.2	59.4	494.0
50,0°	313.4	311.6	307.2	305.6	299.1	285.9	281.3	274.1	271.1	63.1	557.1
52,5°	323.8	318.5	305.3	297.3	291.6	281.4	286.1	278.0	266.0	65.8	622.9
55,0°	308.6	301.6	284.6	267.9	262.8	266.7	273.7	261.2	253.9	64.7	687.6
57,5°	281.4	273.7	260.4	243.6	239.6	241.8	248.4	242.0	234.7	60.7	748.3
60,0°	252.7	236.3	225.6	218.2	209.4	207.3	215.1	212.9	207.5	54.9	803.2
62,5°	210.3	199.3	188.5	191.6	187.9	180.1	183.3	184.8	175.8	48.1	851.3
65,0°	177.5	172.0	164.5	167.2	167.2	158.3	157.6	157.0	151.2	42.2	893.6
67,5°	143.0	139.2	137.6	142.5	139.9	135.1	129.6	129.7	130.3	35.6	929.2
70,0°	108.8	106.6	108.9	113.6	113.6	108.1	104.3	105.9	104.6	28.6	957.8
72,5°	72.6	73.7	76.1	79.3	78.8	76.0	73.7	73.5	74.9	20.1	977.9
75,0°	42.7	43.0	42.7	43.6	43.1	44.3	40.7	40.8	41.6	11.5	989.5
77,5°	21.9	21.5	21.5	22.1	20.4	19.9	19.5	19.9	19.4	5.6	995.1
80,0°	9.5	9.8	9.7	10.1	9.8	9.4	9.7	9.9	9.3	2.6	997.7
82,5°	4.9	5.0	4.9	5.3	5.0	4.8	5.1	5.2	4.9	1.3	999.0
85,0°	2.4	2.4	2.4	2.4	2.4	2.3	2.5	2.4	2.3	0.6	999.7
87,5°	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.1	1.2	0.3	1000.0
90,0°	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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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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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	3080	24.6	25.2	24.9
95	241	2928	23.4	23.9	23.6
90	228	2777	22.2	22.7	22.4
85	215	2623	21.0	21.4	21.2
80	202	2470	19.8	20.2	20.0
75	189	2316	18.6	19.1	18.8
70	176	2161	17.5	17.8	17.6
65	163	2004	16.3	16.6	16.5
60	150	1847	15.2	15.4	15.3
55	137	1690	14.0	14.3	14.2
50	125	1544	13.0	13.2	13.1
45	112	1385	11.9	12.1	12.0
40	100	1238	10.9	11.1	11.0
35	87	1078	9.8	9.9	9.9
30	75	930	8.8	8.9	8.9
25	62	768	7.7	7.8	7.8
20	50	617	6.6	6.7	6.6
19	48	592	6.5	6.6	6.6