

Photometric test report

Family
DL® 20 LED

Order number: 5XA512836A008
EAN: 4058352042830

LP number
59487_30



Version	post-top mounting
Optic	asymmetric, wide distribution (ST1.2a)
Cover	toughened safety glass
Lamps	LED 2700 K CRI ≥ 70
Controlgear	ECG Plus
Rated values	Net luminous flux = 3020 lm Power consumption = 28.6 W Luminous efficacy = 105.6 lm/W

serial
documentation
07.12.2023

siteco

Luminous intensity in cd/klm

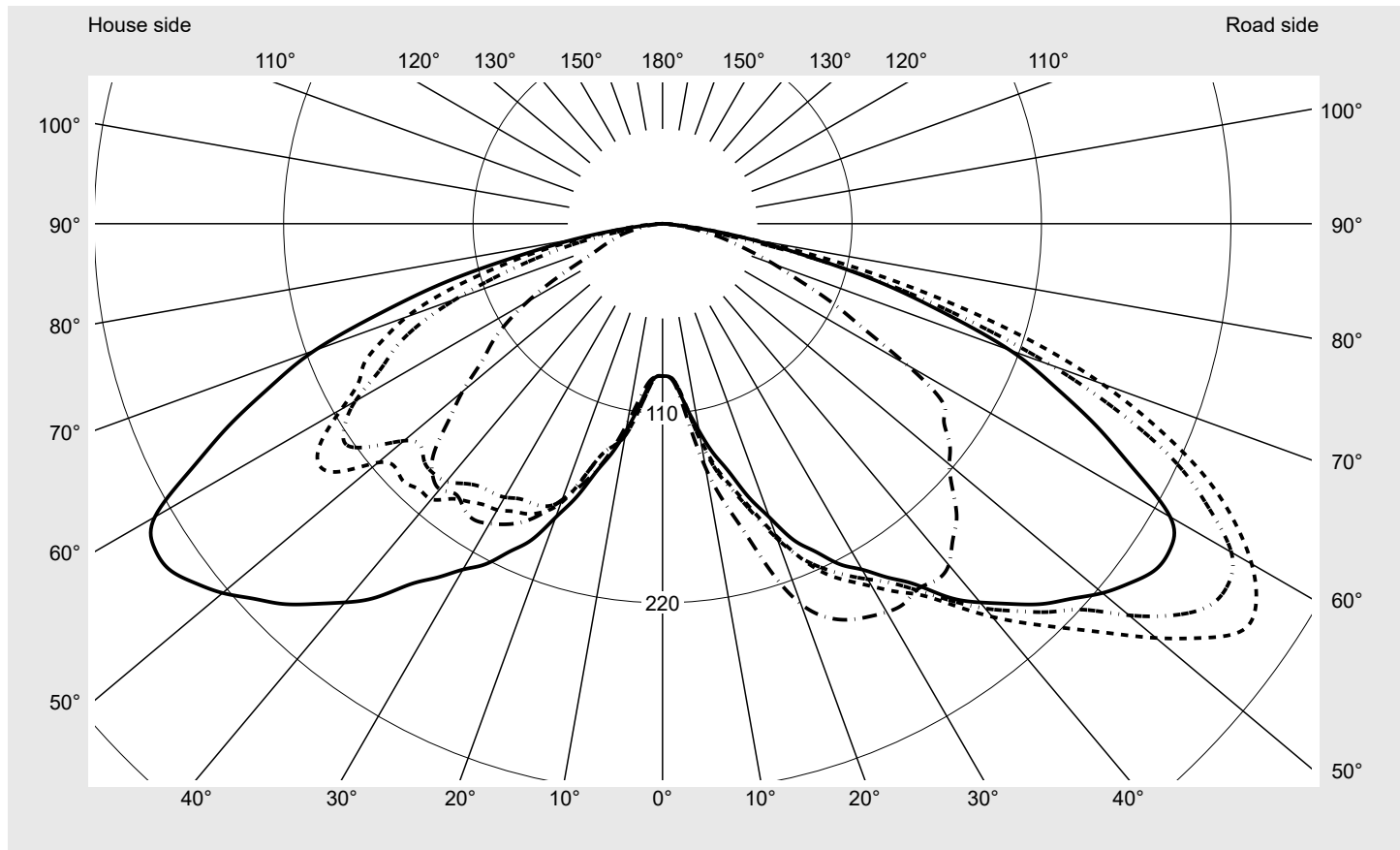
C180-0

C205-25

C210-30

C270-90

Imax: 411 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°	272.5
Imax 80°	53.2
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

Measurement conditions

DIN EN 13032 and DIN 5032

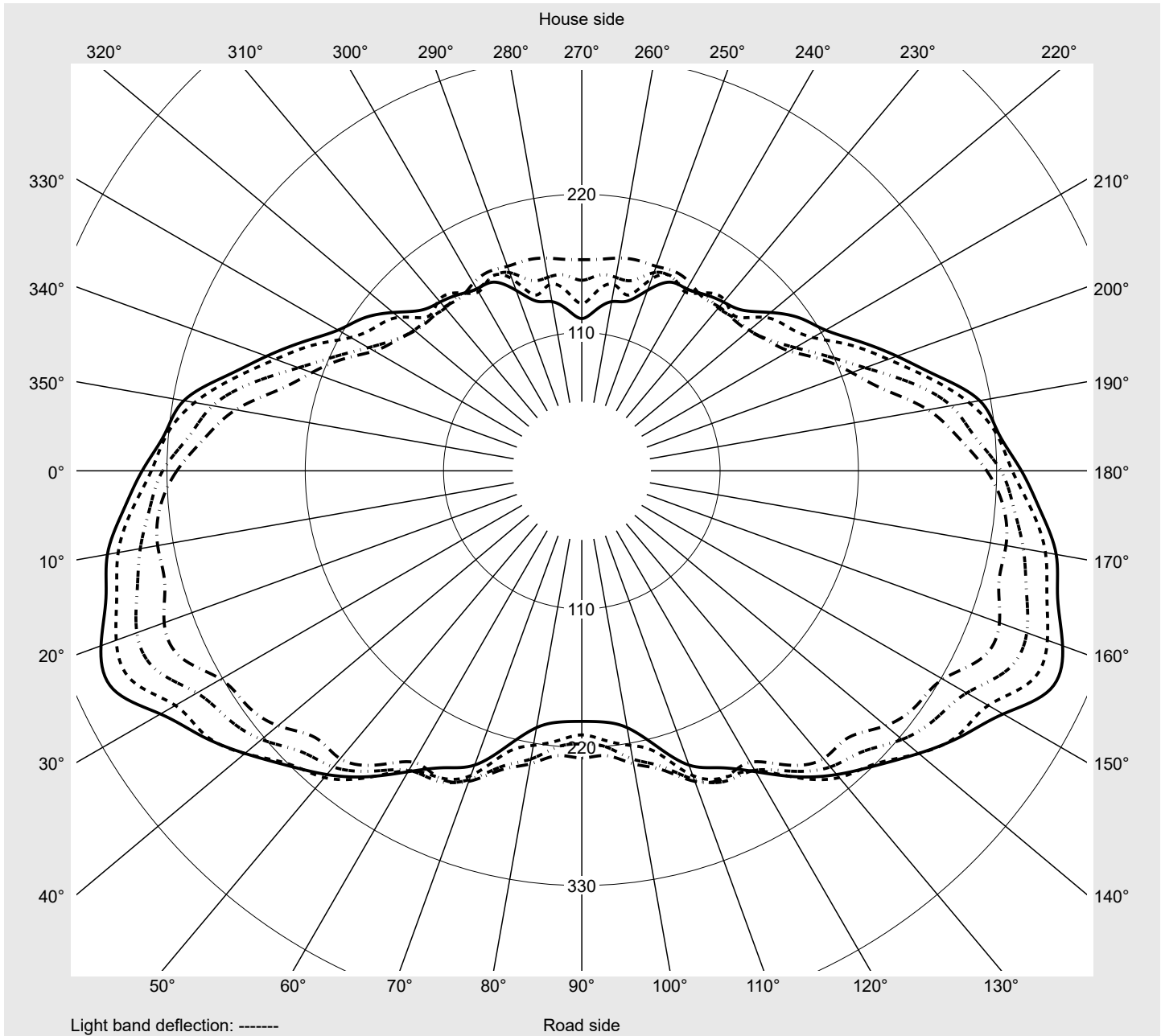
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Family DL® 20 LED	Order number: 5XA512836A008 EAN: 4058352042830	LP number 59487_30
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Envelope curve in cd/klm

KMK 55°
KMK 52,5°
KMK 50°
KMK 47,5°

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Family DL® 20 LED	Order number: 5XA512836A008 EAN: 4058352042830	LP number 59487_30
Table of values for luminous intensities		Maximum luminous intensity
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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°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
2,5°	89.1	88.8	88.7	88.8	88.8	88.8	89.0	89.0	88.9	89.0	89.1	89.2	89.2
5,0°	95.0	95.0	94.4	94.2	94.0	93.8	93.8	93.9	94.0	94.2	94.4	94.7	95.0
7,5°	107.9	107.4	106.9	107.2	107.3	107.3	108.0	108.7	109.4	110.4	111.2	112.2	113.4
10,0°	122.1	122.9	123.4	124.9	125.9	126.9	128.8	129.7	130.6	132.5	133.3	134.4	136.6
12,5°	136.6	137.9	140.2	142.4	143.9	145.6	147.8	148.0	148.8	150.6	150.3	151.3	153.8
15,0°	149.2	151.9	154.9	157.0	157.6	159.3	161.5	161.8	163.4	166.0	166.0	167.2	170.6
17,5°	166.4	168.4	171.4	172.3	172.7	174.8	177.1	179.2	183.1	187.2	189.2	191.7	195.8
20,0°	181.4	185.4	188.4	189.2	190.3	192.7	194.5	196.9	200.8	203.5	206.5	209.8	213.8
22,5°	198.6	202.0	205.4	206.2	208.6	210.1	209.8	210.1	211.3	211.7	215.4	219.4	223.3
25,0°	209.9	214.8	217.9	219.7	223.8	224.1	220.7	219.6	218.7	217.8	221.6	226.1	230.2
27,5°	222.8	227.4	229.3	230.9	235.0	233.7	229.8	228.3	225.1	225.2	228.7	232.4	236.4
30,0°	231.8	237.9	239.9	240.8	243.6	243.0	238.2	235.4	233.0	231.6	236.0	239.0	242.0
32,5°	243.5	250.4	252.6	251.0	253.2	253.3	247.2	244.2	243.2	239.9	241.4	243.5	247.4
35,0°	255.5	265.0	265.7	263.7	263.4	263.4	260.3	256.0	255.8	250.0	249.8	250.7	250.1
37,5°	273.4	285.9	282.5	279.6	280.8	279.7	275.9	272.9	267.3	263.8	261.5	258.5	255.2
40,0°	286.9	301.4	304.8	299.5	300.3	297.8	291.5	288.8	281.6	272.6	267.6	264.3	260.5
42,5°	299.3	315.0	322.9	317.0	321.4	314.8	305.0	301.1	293.2	283.4	277.4	272.3	261.8
45,0°	312.1	322.8	330.4	331.6	333.3	332.1	318.6	307.2	298.2	289.6	283.1	273.2	261.4
47,5°	322.1	336.9	342.6	343.5	353.5	351.7	331.6	325.2	315.5	300.1	299.0	285.8	267.8
50,0°	333.4	345.0	356.7	366.1	376.7	374.0	353.5	343.8	332.6	316.0	307.6	291.8	275.2
52,5°	342.4	359.3	374.5	383.0	394.1	394.9	373.3	366.1	349.9	329.8	318.6	298.0	275.5
55,0°	349.7	366.3	383.2	391.9	407.0	411.3	387.0	368.5	349.8	331.5	315.5	297.1	276.5
57,5°	349.9	363.2	378.2	392.7	410.1	408.7	389.4	364.3	344.6	322.1	301.2	279.9	269.2
60,0°	340.4	354.4	369.2	386.1	402.5	395.0	381.3	354.5	330.9	303.2	275.1	253.3	247.9
62,5°	308.5	331.8	352.4	366.5	381.2	374.3	357.7	326.0	303.9	273.2	249.2	235.2	226.2
65,0°	278.1	300.7	316.7	333.1	343.1	347.8	329.5	296.4	276.9	248.5	224.6	215.0	195.2
67,5°	245.9	260.8	278.7	298.7	308.0	312.3	288.5	263.1	247.3	212.8	192.2	177.8	155.7
70,0°	214.7	218.9	232.0	256.8	272.5	271.5	240.0	222.3	211.1	170.2	150.1	136.7	118.2
72,5°	170.3	180.3	189.5	209.5	223.5	221.7	186.3	173.9	161.8	132.2	115.0	99.9	87.6
75,0°	129.4	136.2	139.7	150.5	162.7	164.5	134.2	124.1	119.8	94.3	76.8	68.9	63.7
77,5°	84.1	91.7	89.7	93.7	104.1	107.1	80.8	75.0	77.3	55.3	46.0	41.3	40.1
80,0°	51.7	51.9	48.0	46.2	49.9	53.2	33.9	36.4	41.0	24.0	23.0	22.8	23.5
82,5°	23.2	23.6	22.2	20.6	22.4	25.5	13.7	16.2	19.6	10.1	10.0	10.6	11.6
85,0°	6.0	6.0	6.0	6.0	7.3	10.7	5.4	7.3	9.1	4.5	4.3	4.4	4.7
87,5°	2.0	2.0	2.0	1.9	1.9	2.4	1.8	1.7	1.7	1.6	1.6	1.5	1.6
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: 5XA512836A008 EAN: 4058352042830	LP number 59487_30
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Table of values for luminous intensities Maximum luminous intensity

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°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
2,5°	89.3	89.3	89.4	89.4	89.3	89.2	88.9	88.9	89.1	89.0	89.1	89.2	89.1
5,0°	95.3	95.5	95.9	96.0	96.0	96.2	95.9	96.3	96.8	97.0	97.1	97.1	97.0
7,5°	114.1	114.8	115.9	116.2	116.5	116.9	108.5	109.1	109.9	110.3	110.7	111.0	111.0
10,0°	137.6	139.1	141.4	141.9	142.8	143.8	122.7	123.4	124.3	124.4	124.8	125.0	124.9
12,5°	154.6	156.8	160.6	161.9	163.9	165.6	135.1	134.1	134.2	133.1	132.3	132.2	132.0
15,0°	171.6	174.9	179.5	181.2	183.7	186.1	147.0	144.2	142.8	141.2	139.7	139.6	139.1
17,5°	197.6	201.3	206.8	208.7	210.9	213.3	163.3	160.1	158.5	157.4	156.2	155.7	154.2
20,0°	217.8	222.9	228.2	230.9	233.2	234.9	180.7	177.8	175.7	174.5	172.5	170.9	168.2
22,5°	229.6	235.6	240.4	244.8	246.9	247.0	195.8	192.5	188.2	185.5	181.1	177.5	174.5
25,0°	237.2	243.2	246.8	252.2	254.6	253.6	208.5	203.2	196.4	192.4	185.8	179.1	176.3
27,5°	243.6	249.3	251.5	257.0	259.0	257.3	219.9	212.2	204.1	197.0	188.2	180.0	177.5
30,0°	248.1	251.6	253.3	258.6	261.3	260.3	229.3	219.8	210.1	200.7	191.8	183.3	179.4
32,5°	250.8	253.5	256.5	260.6	261.5	261.3	238.2	230.6	217.0	205.1	193.4	184.8	178.6
35,0°	251.6	255.3	258.9	260.7	259.9	258.7	248.7	239.2	223.2	209.3	196.9	185.9	180.1
37,5°	255.6	257.3	260.4	261.7	259.4	260.9	260.3	247.0	231.5	217.8	201.3	190.0	182.0
40,0°	262.6	262.4	261.7	260.2	260.1	258.5	274.1	257.4	239.5	223.2	208.8	195.3	186.1
42,5°	267.2	267.0	258.6	253.4	249.5	249.3	283.3	267.7	246.0	225.6	209.2	196.7	189.5
45,0°	266.6	267.0	254.6	243.7	238.6	241.5	295.2	268.4	246.4	227.0	212.1	195.5	185.0
47,5°	269.3	263.0	246.2	236.8	227.5	228.5	301.0	279.6	249.3	228.5	210.0	190.6	180.6
50,0°	272.3	261.4	243.3	232.9	220.5	217.4	313.7	298.2	270.9	239.8	215.7	196.0	181.8
52,5°	269.2	258.0	232.4	221.8	215.4	210.1	331.4	312.8	285.8	259.4	236.4	212.2	199.8
55,0°	260.7	249.2	226.1	207.5	200.7	199.4	333.1	321.4	292.5	266.7	243.6	223.9	211.9
57,5°	248.6	231.5	221.9	193.0	182.3	192.8	324.6	302.6	280.6	258.2	234.8	218.9	207.6
60,0°	233.2	208.6	194.3	174.6	161.0	163.9	308.1	283.8	270.6	239.5	215.3	206.0	191.9
62,5°	211.0	184.4	158.7	148.5	139.5	131.3	289.1	265.4	245.6	221.5	198.8	185.6	171.6
65,0°	183.8	160.4	128.4	126.1	118.6	108.9	260.0	241.7	221.3	205.2	190.9	171.6	151.9
67,5°	150.3	133.3	100.8	100.3	97.5	85.7	232.2	215.5	203.1	187.5	175.4	153.0	133.3
70,0°	112.0	99.3	77.8	78.8	76.7	69.1	203.4	186.8	176.9	170.2	157.9	127.3	116.4
72,5°	80.4	69.5	60.4	59.6	56.6	54.0	160.4	150.2	142.9	139.9	133.0	99.2	93.1
75,0°	56.7	48.6	47.0	44.1	42.0	41.9	116.1	110.2	104.7	106.2	102.0	73.1	64.7
77,5°	37.8	33.1	32.6	33.3	31.8	31.4	79.5	74.8	68.9	74.3	72.9	48.1	41.4
80,0°	22.8	20.7	20.9	21.4	20.8	19.9	47.3	43.9	37.9	40.3	43.4	23.3	22.9
82,5°	12.2	11.3	11.8	11.7	11.3	11.1	22.0	20.4	17.3	18.6	23.9	10.2	11.2
85,0°	4.8	4.8	5.1	5.0	4.9	4.9	6.0	6.3	6.0	7.2	12.1	5.2	4.9
87,5°	1.5	1.5	1.6	1.4	1.4	1.4	2.0	2.0	2.0	1.9	2.7	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

Photometric test report

Family DL® 20 LED	Order number: 5XA512836A008 EAN: 4058352042830	LP number 59487_30
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°	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	0.1	0.1
2,5°	89.1	89.1	89.1	88.9	88.9	88.8	88.8	88.9	88.7	88.7	89.0	1.1	1.2
5,0°	96.7	96.5	95.9	95.4	94.8	94.1	93.6	93.2	92.5	92.2	92.5	2.3	3.5
7,5°	110.7	110.2	109.5	108.5	107.7	106.2	105.1	104.2	102.8	102.4	102.6	3.9	7.4
10,0°	124.4	124.2	123.3	122.5	122.0	120.4	119.3	119.1	117.7	117.2	117.7	6.1	13.4
12,5°	131.4	132.1	131.9	131.9	132.9	132.4	132.9	133.7	133.0	133.1	133.8	8.4	21.9
15,0°	138.2	139.3	140.1	140.5	142.3	143.0	144.5	146.4	146.4	147.1	148.1	11.0	32.8
17,5°	152.1	152.1	152.8	153.3	154.7	156.0	157.2	158.6	159.5	160.1	160.0	14.2	47.0
20,0°	165.1	163.1	163.5	164.0	164.6	167.1	169.2	170.3	172.0	171.6	170.5	17.7	64.7
22,5°	171.4	168.9	169.5	170.3	171.3	175.5	178.1	178.9	182.7	183.4	181.8	20.9	85.6
25,0°	173.5	170.8	172.7	173.5	174.3	180.2	184.0	185.0	189.9	192.6	190.8	24.0	109.6
27,5°	173.6	172.2	175.8	177.6	177.9	183.4	188.1	190.7	196.1	197.9	196.7	27.0	136.7
30,0°	174.9	173.5	178.6	182.9	182.9	186.9	190.4	194.2	199.7	201.4	201.0	30.0	166.6
32,5°	174.7	173.5	180.8	184.4	185.0	187.3	192.5	198.1	202.7	202.9	203.7	33.0	199.6
35,0°	173.3	174.4	181.5	185.6	186.5	188.3	194.2	199.5	201.8	202.1	201.4	36.0	235.6
37,5°	174.5	176.0	183.3	189.9	190.9	190.1	196.1	202.1	203.2	200.3	197.6	39.4	275.0
40,0°	179.5	179.6	185.1	190.4	191.5	192.3	198.9	202.1	203.8	202.5	201.2	42.9	317.9
42,5°	178.5	177.1	181.1	183.0	188.5	188.5	195.7	195.7	199.8	199.5	197.6	45.8	363.7
45,0°	175.1	173.4	176.1	178.1	178.3	181.1	188.7	188.0	187.8	189.1	187.5	48.1	411.8
47,5°	173.4	170.5	170.1	168.3	172.5	174.9	173.2	173.3	171.9	169.0	168.0	50.4	462.1
50,0°	174.0	171.7	169.1	170.4	167.0	169.8	167.8	156.9	156.3	156.3	151.6	53.4	515.6
52,5°	189.9	173.5	177.1	172.9	164.4	170.3	162.5	144.8	150.2	143.9	133.1	56.9	572.5
55,0°	196.0	180.8	175.3	171.1	167.1	165.6	152.8	139.8	136.7	128.5	121.2	58.9	631.4
57,5°	191.0	175.2	161.9	155.6	160.3	154.5	140.2	129.5	123.3	113.1	107.3	58.7	690.0
60,0°	175.3	161.7	143.8	142.2	148.1	140.1	125.6	115.5	107.1	96.7	90.5	56.5	746.5
62,5°	159.2	137.0	125.3	128.8	123.2	116.5	109.7	100.5	90.2	77.4	72.0	52.5	799.0
65,0°	141.4	119.2	106.0	111.5	96.4	90.6	93.7	78.0	66.1	58.5	53.7	47.7	846.7
67,5°	127.9	100.8	85.8	87.6	72.2	69.7	74.2	59.2	45.9	43.2	42.3	41.9	888.6
70,0°	110.1	75.8	59.5	66.7	46.1	47.3	55.7	42.1	35.2	35.4	35.7	35.2	923.8
72,5°	86.3	58.3	39.8	39.2	30.1	31.4	37.8	30.6	28.7	28.4	29.7	28.0	951.8
75,0°	65.3	44.3	27.1	24.2	23.7	23.4	26.2	25.4	23.9	23.5	24.8	20.7	972.5
77,5°	48.8	32.1	17.4	16.9	18.0	18.3	18.6	19.5	19.5	18.6	18.1	13.9	986.4
80,0°	31.4	16.4	10.7	11.3	12.5	13.5	13.2	13.7	13.9	13.2	12.3	7.8	994.2
82,5°	18.1	7.0	6.3	6.8	7.7	8.0	7.9	8.4	8.7	8.0	7.8	3.8	998.0
85,0°	9.0	3.6	3.4	3.4	3.8	3.8	3.7	3.8	3.9	3.7	3.5	1.5	999.5
87,5°	2.1	1.6	1.6	1.5	1.6	1.4	1.4	1.4	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

Photometric test report

Family DL® 20 LED	Order number: 5XA512836A008 EAN: 4058352042830	LP number 59487_30
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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	3020	28.6	29.3	29.0
95	241	2873	27.2	27.8	27.5
90	227	2713	25.6	26.3	26.0
85	214	2564	24.2	24.9	24.5
80	201	2414	22.8	23.4	23.1
75	188	2264	21.4	21.9	21.6
70	175	2113	20.0	20.5	20.2
65	162	1960	18.7	19.1	18.9
60	149	1807	17.3	17.7	17.5
55	137	1664	16.0	16.4	16.2
50	124	1509	14.7	15.1	14.9
45	111	1354	13.4	13.7	13.6
40	99	1209	12.2	12.5	12.4
35	86	1052	10.9	11.2	11.0
30	74	906	9.8	9.9	9.9
25	62	759	8.6	8.7	8.6
20	49	599	7.2	7.4	7.3
17	41	499	6.5	6.6	6.6