



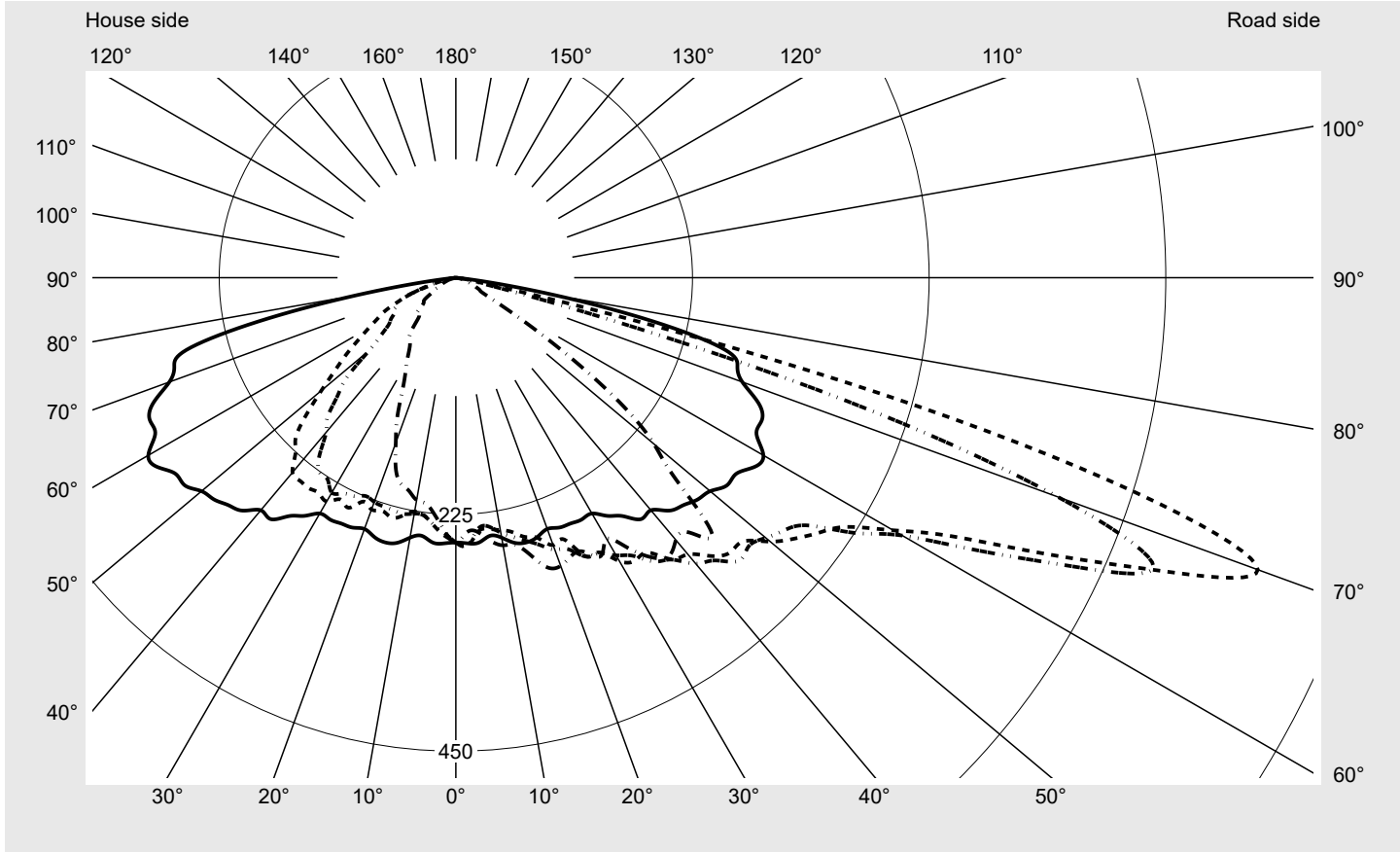
# Photometric test report

<b>Family</b> <b>Streetlight 21 micro LED</b>	<b>Order number: 5XE1M31G08DB</b> <b>EAN: 4058352740637</b>	<b>LP number</b> <b>59152_865</b>
	<b>Version</b> post-top or side-entry mounting <b>Optic</b> asymmetric, wide distribution (ST1.0a), Back Light Control (BLC) <b>Cover</b> toughened safety glass <b>Lamps</b> LED 3000 K   CRI ≥ 70 <b>Controlgear</b> ECG SITECO iQ <b>Rated values</b> Net luminous flux = 4240 lm Power consumption = 36.4 W Luminous efficacy = 116.5 lm/W	<b>serial documentation</b> <b>26.10.2022</b>





**Luminous intensity in cd/klm** C180-0 C205-25 C210-30 C270-90 **Imax: 811 cd/klm**



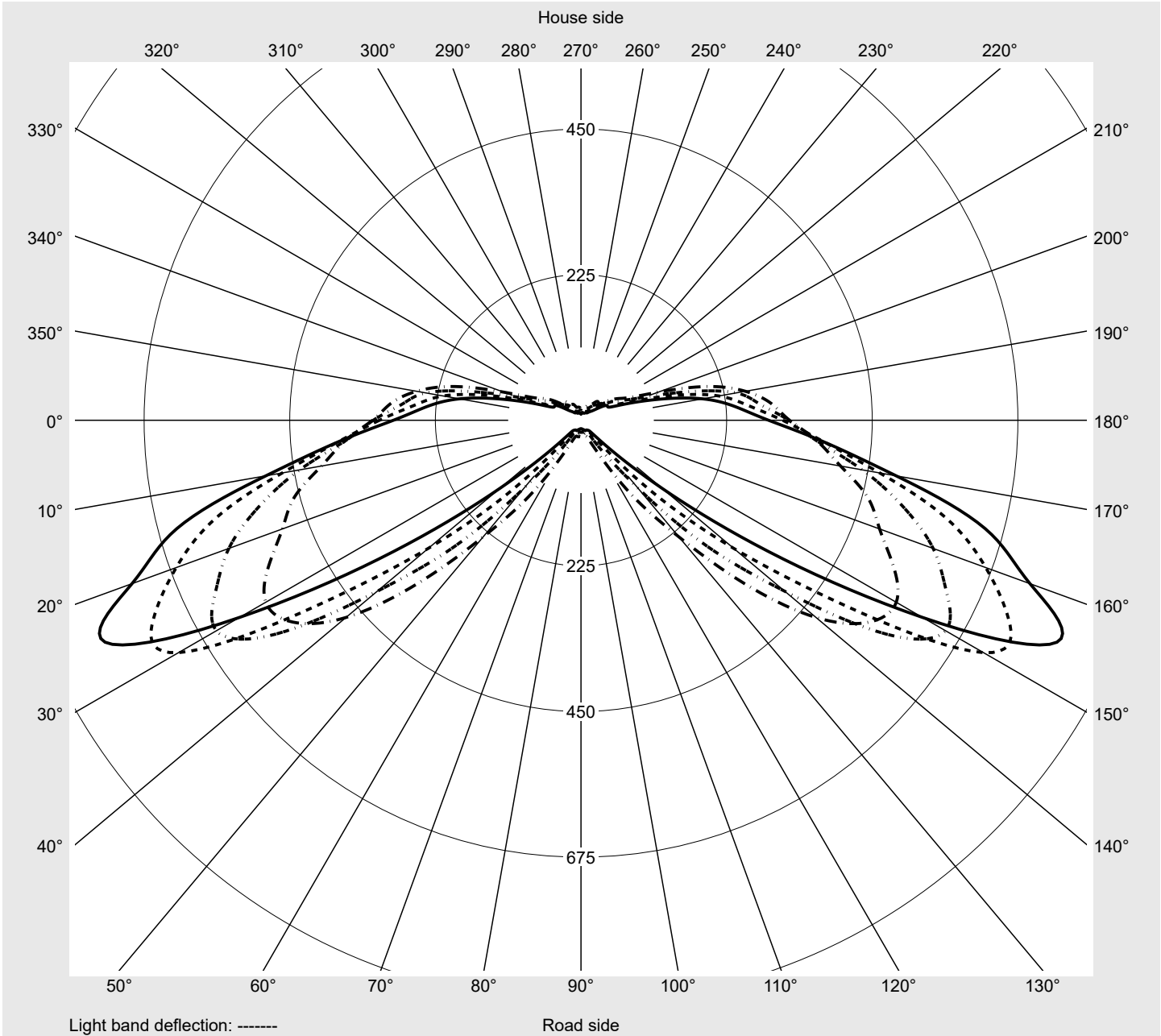
Luminaire output ratios	
Eta	100.0%
Eta 0° - 90°	100.0%
Eta 90° - 180°	0.0%
Measurement conditions	
DIN EN 13032 and DIN 5032	

Luminous intensity class acc. to EN13201-2	
Class:	G3
Imax 70°	811.4
Imax 80°	97.1
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

**Photometric test report**

<b>Family</b> Streetlight 21 micro LED	<b>Order number: 5XE1M31G08DB</b> <b>EAN: 4058352740637</b>	<b>LP number</b> 59152_865
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**Envelope curve in cd/klm**      **KMK 70°**    **KMK 67.5°**    **KMK 65°**    **KMK 62.5°**      **siteco**



## Photometric test report

<b>Family</b> <b>Streetlight 21 micro LED</b>	<b>Order number: 5XE1M31G08DB</b> <b>EAN: 4058352740637</b>	<b>LP number</b> <b>59152_865</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>

**siteco**

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°
$\gamma$	Luminous intensity in cd/klm												
0,0°	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7
2,5°	252.7	252.6	255.1	255.9	254.5	255.0	254.0	252.2	251.7	247.4	245.6	244.7	243.6
5,0°	252.7	247.6	244.8	246.2	244.1	242.4	239.8	236.2	239.7	236.4	232.5	233.6	234.3
7,5°	247.5	246.2	247.0	241.4	241.5	240.8	238.5	238.2	237.0	239.8	242.0	244.4	244.4
10,0°	250.9	251.6	254.7	244.8	240.1	243.6	246.0	248.9	247.1	245.5	243.2	248.5	256.4
12,5°	258.1	251.0	248.5	247.9	244.5	247.6	252.4	251.2	250.3	256.2	259.5	260.6	263.5
15,0°	260.4	253.2	248.3	249.4	250.9	255.1	259.0	261.5	258.8	265.7	270.2	267.9	269.6
17,5°	258.3	257.3	247.8	248.7	251.9	259.5	266.5	266.0	275.2	277.4	277.3	277.8	286.1
20,0°	254.1	250.5	251.9	255.9	262.1	270.4	275.0	276.8	276.7	279.1	278.4	285.9	281.5
22,5°	257.0	252.2	255.3	268.1	272.7	269.3	279.3	285.9	287.4	287.8	284.5	282.2	286.1
25,0°	257.8	257.2	270.3	273.8	283.2	292.2	292.5	297.3	302.1	298.9	293.3	289.8	292.8
27,5°	259.1	258.9	269.3	275.9	290.3	294.3	295.3	301.0	295.9	293.4	289.9	296.4	293.1
30,0°	258.8	273.0	282.5	292.7	295.7	311.0	304.7	312.4	300.4	305.3	301.8	299.0	302.9
32,5°	268.4	281.3	284.7	297.6	311.2	318.2	313.4	319.9	315.8	313.8	308.7	313.3	302.9
35,0°	276.6	287.2	295.6	296.7	309.7	318.9	329.3	329.7	312.6	320.8	315.6	320.8	316.5
37,5°	289.2	297.8	300.2	316.3	319.7	337.4	337.7	332.8	327.5	323.7	318.9	318.2	332.2
40,0°	288.5	305.0	310.1	313.4	327.9	343.2	354.8	344.9	337.5	333.4	324.7	347.2	341.1
42,5°	300.3	309.6	317.1	332.9	343.7	358.8	364.5	353.0	347.4	337.7	344.4	349.5	356.9
45,0°	305.8	317.1	325.5	333.0	349.1	369.1	380.6	362.0	354.6	368.9	366.8	388.4	383.2
47,5°	312.0	313.3	325.1	341.9	368.3	370.8	377.7	368.2	368.3	388.5	397.5	390.1	382.7
50,0°	315.7	324.5	327.1	342.0	370.4	390.2	384.7	382.7	398.7	421.6	412.3	380.7	354.1
52,5°	324.5	324.8	337.8	340.4	373.5	407.0	394.1	398.2	435.2	435.4	412.2	358.0	310.7
55,0°	325.2	339.0	343.2	354.4	370.6	422.3	410.7	440.5	443.3	424.3	372.3	320.6	285.2
57,5°	335.5	346.3	354.6	362.1	389.2	440.8	451.8	462.3	460.2	409.5	351.4	299.4	233.2
60,0°	337.7	358.8	382.6	394.8	422.9	480.1	490.2	493.0	465.8	401.4	305.0	234.6	170.2
62,5°	322.3	366.3	407.2	458.3	491.0	532.4	562.5	543.7	474.1	356.4	235.0	151.7	80.7
65,0°	320.9	365.9	441.4	515.0	579.1	622.5	650.4	576.3	411.2	274.5	136.3	61.5	26.5
67,5°	311.5	375.7	468.6	584.1	665.5	729.3	718.0	501.2	307.7	161.4	52.8	22.8	20.7
70,0°	289.9	375.0	494.5	646.3	738.3	811.4	609.3	353.6	163.9	60.9	24.9	18.9	17.3
72,5°	280.7	388.9	529.3	634.1	740.9	675.2	389.9	143.3	60.4	27.9	16.8	16.0	15.2
75,0°	265.2	365.2	466.4	531.9	584.7	383.0	130.8	41.7	27.5	17.8	14.0	12.8	11.6
77,5°	192.5	248.8	264.2	279.3	239.7	78.3	24.8	16.9	12.2	9.5	10.3	8.9	7.8
80,0°	95.5	89.9	86.1	97.1	65.8	14.7	10.3	5.9	5.3	5.7	6.8	5.1	5.0
82,5°	25.0	19.4	13.4	7.5	11.9	4.8	3.8	3.1	3.0	2.4	2.7	2.7	2.2
85,0°	1.0	1.6	1.6	1.3	1.4	1.6	1.4	1.2	1.4	0.9	1.2	0.9	1.0
87,5°	0.4	0.4	0.4	0.5	0.5	0.5	0.3	0.6	0.5	0.4	0.4	0.4	0.4
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

<b>Family</b> <b>Streetlight 21 micro LED</b>	<b>Order number: 5XE1M31G08DB</b> <b>EAN: 4058352740637</b>	<b>LP number</b> <b>59152_865</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

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°	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7
2,5°	243.6	243.2	243.3	241.2	240.5	242.2	250.2	248.9	247.1	245.4	245.5	243.3	240.0
5,0°	234.1	234.7	239.6	243.4	242.3	242.8	249.9	251.9	245.5	241.3	236.8	236.2	233.4
7,5°	243.7	243.8	244.1	247.6	248.9	252.1	248.0	241.8	234.4	231.7	228.2	228.4	225.5
10,0°	257.2	254.6	250.4	251.4	252.5	258.3	242.9	242.6	235.3	228.9	225.6	227.8	225.5
12,5°	261.6	262.7	263.6	260.7	258.4	260.1	257.9	249.1	241.8	233.6	231.4	229.9	224.5
15,0°	273.9	274.4	275.1	277.9	277.1	272.5	263.7	252.8	241.7	241.0	236.1	228.8	219.4
17,5°	276.7	270.5	275.6	275.9	279.5	288.6	260.3	251.3	244.9	237.3	232.4	228.0	216.6
20,0°	285.2	286.3	287.4	283.7	284.5	291.4	254.3	265.1	245.3	240.9	234.4	226.8	227.8
22,5°	290.7	287.8	282.6	280.9	284.6	286.4	258.8	258.1	247.1	240.8	230.3	224.6	223.8
25,0°	290.9	287.2	284.9	293.2	285.2	287.3	253.7	262.3	252.9	244.0	241.3	229.1	223.8
27,5°	289.3	299.7	289.5	293.7	287.8	298.4	247.8	259.9	263.0	254.6	237.6	231.2	222.7
30,0°	304.3	292.9	297.5	300.8	300.7	286.7	261.7	260.3	261.4	242.3	245.5	235.9	219.5
32,5°	305.9	308.9	297.2	312.5	307.7	304.5	270.7	266.6	261.3	257.8	242.7	227.1	210.7
35,0°	312.3	315.7	323.4	321.9	326.7	324.5	274.1	271.0	269.6	262.0	244.2	226.0	186.2
37,5°	342.6	338.0	331.5	344.3	331.4	333.1	273.8	276.4	276.8	258.8	243.4	213.1	165.6
40,0°	350.0	346.7	344.9	344.4	337.9	325.4	288.1	279.6	275.1	264.7	241.7	191.8	147.8
42,5°	364.9	348.0	345.2	345.9	342.0	328.4	291.2	281.7	286.2	261.6	225.5	181.1	134.3
45,0°	364.0	353.2	344.2	344.8	339.4	344.7	297.8	279.5	275.9	253.2	215.4	159.3	121.5
47,5°	357.3	337.5	304.9	296.2	280.5	284.0	305.0	284.6	285.2	249.7	192.9	141.3	109.9
50,0°	314.0	275.9	263.2	255.3	247.2	245.9	311.3	293.6	273.0	229.3	166.9	107.3	88.1
52,5°	278.1	253.7	229.4	220.1	205.6	201.2	315.6	297.5	264.7	208.9	144.9	89.3	79.1
55,0°	239.5	201.5	165.8	154.9	144.9	137.0	312.2	294.2	259.8	194.6	127.1	78.0	74.1
57,5°	183.6	138.9	110.6	88.6	79.1	74.1	313.5	287.5	236.2	170.2	109.8	73.2	66.2
60,0°	111.5	71.4	46.5	37.5	35.2	32.8	311.2	271.5	216.0	147.6	95.5	67.8	62.2
62,5°	42.8	28.4	25.5	26.0	25.5	25.7	295.3	257.9	201.5	127.0	83.6	67.2	53.8
65,0°	23.4	23.1	22.8	23.5	21.6	21.4	278.4	243.5	170.0	104.7	73.6	60.2	48.1
67,5°	20.9	19.5	18.9	18.8	18.6	18.7	259.7	216.3	148.1	85.9	59.1	57.9	41.2
70,0°	17.3	16.9	14.9	14.9	13.3	13.2	239.7	190.8	125.8	74.2	47.9	45.9	33.0
72,5°	14.5	13.7	11.8	11.8	9.4	10.7	215.6	168.6	110.3	54.9	29.2	33.4	25.5
75,0°	10.2	9.6	8.6	7.6	7.1	8.2	187.2	114.4	77.4	24.7	20.0	22.7	19.4
77,5°	6.8	6.5	5.6	5.4	5.0	4.8	100.2	23.1	17.9	7.8	11.3	11.5	11.8
80,0°	3.9	4.2	3.1	3.3	3.8	3.3	40.0	7.2	6.0	5.2	7.0	6.8	6.4
82,5°	2.1	2.1	1.7	2.3	1.9	1.6	10.0	3.5	3.0	2.4	3.3	3.1	2.9
85,0°	0.8	1.0	0.6	0.7	0.6	0.6	1.5	1.2	1.1	1.1	1.1	1.3	1.1
87,5°	0.4	0.2	0.2	0.2	0.2	0.4	0.3	0.3	0.2	0.4	0.3	0.2	0.1
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

## Photometric test report

<b>Family</b> <b>Streetlight 21 micro LED</b>	<b>Order number: 5XE1M31G08DB</b> <b>EAN: 4058352740637</b>	<b>LP number</b> <b>59152_865</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

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°	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	251.7	0.4	0.4
2,5°	240.3	241.6	238.8	237.8	237.5	239.7	242.6	244.7	244.9	242.1	241.0	2.9	3.3
5,0°	228.5	228.0	227.0	225.7	228.3	227.7	229.0	226.6	226.4	225.7	226.7	5.7	9.0
7,5°	228.3	226.6	219.5	221.8	216.9	216.1	216.6	215.9	217.8	218.5	216.7	8.4	17.4
10,0°	218.6	215.1	214.8	214.4	213.9	212.4	209.8	207.9	207.4	213.1	214.6	11.2	28.6
12,5°	222.9	224.9	218.4	214.2	208.1	211.3	215.6	212.9	208.3	206.4	207.2	14.2	42.8
15,0°	213.8	216.2	213.4	214.0	210.7	206.1	202.7	200.1	201.7	201.8	202.6	17.2	60.1
17,5°	213.2	212.5	216.4	210.3	205.3	203.3	199.8	189.2	192.6	193.9	189.9	20.1	80.2
20,0°	221.3	208.9	205.5	200.6	189.2	182.7	179.3	173.8	164.6	163.6	167.0	22.8	102.9
22,5°	220.7	214.8	198.3	184.9	172.2	159.3	158.7	146.8	146.8	144.1	146.6	25.2	128.1
25,0°	217.0	197.4	182.7	161.6	153.9	143.9	140.8	132.9	136.9	126.6	121.7	27.8	155.9
27,5°	207.1	180.6	159.0	145.7	138.5	128.8	124.3	119.3	110.8	107.1	104.5	29.9	185.9
30,0°	187.4	164.9	146.0	133.8	122.6	115.2	100.8	101.8	98.2	93.7	93.5	32.4	218.3
32,5°	173.5	148.1	134.8	114.4	104.9	102.5	95.5	91.7	86.3	82.3	83.0	35.0	253.3
35,0°	154.6	136.4	115.1	101.4	100.1	95.8	89.4	82.3	80.9	75.6	76.0	37.5	290.8
37,5°	136.6	117.1	104.1	96.7	95.3	87.5	84.6	81.1	77.0	76.2	72.8	40.4	331.2
40,0°	121.4	107.1	99.6	91.1	89.3	82.0	77.5	73.8	68.3	66.8	65.6	42.9	374.0
42,5°	113.6	96.2	91.9	86.0	85.0	79.7	71.7	68.0	59.4	56.2	53.6	45.4	419.4
45,0°	100.6	90.9	85.7	81.0	74.3	66.6	57.9	54.8	51.6	51.5	49.7	47.7	467.1
47,5°	93.6	83.1	73.5	70.4	63.4	53.5	51.8	47.0	51.1	49.2	51.2	48.6	515.7
50,0°	84.1	73.4	60.5	61.0	52.7	47.5	47.1	44.9	45.0	43.7	42.9	48.6	564.3
52,5°	75.3	64.9	55.6	50.1	46.6	40.8	42.4	40.3	40.5	36.3	38.4	48.6	613.0
55,0°	64.4	54.4	47.2	42.8	42.1	38.4	38.0	35.6	33.6	34.1	36.2	47.5	660.5
57,5°	53.1	46.8	44.4	39.8	37.9	35.5	33.5	33.2	32.2	31.5	28.2	46.2	706.7
60,0°	44.6	40.4	41.3	35.5	32.0	30.9	30.1	30.0	29.4	28.7	24.4	44.7	751.4
62,5°	40.0	38.3	37.9	30.7	28.1	26.9	22.0	20.8	20.6	19.4	17.2	44.1	795.5
65,0°	37.9	33.8	30.2	24.9	21.3	19.0	18.2	16.5	16.8	16.2	14.2	43.7	839.1
67,5°	30.5	27.2	21.8	17.6	15.1	15.1	14.7	14.6	14.7	13.4	12.3	42.8	881.9
70,0°	22.9	18.7	15.1	14.0	13.3	12.0	11.9	12.1	11.4	11.7	9.5	40.0	921.9
72,5°	18.9	15.1	13.3	11.8	10.6	9.5	8.2	7.9	7.5	7.0	7.5	34.4	956.3
75,0°	14.0	11.5	8.9	9.5	7.5	5.9	4.0	4.3	4.2	3.7	3.9	25.3	981.7
77,5°	10.3	7.2	5.6	5.4	3.9	2.9	2.4	2.5	1.9	2.4	2.1	12.3	994.0
80,0°	6.0	3.9	3.0	2.5	1.9	1.4	1.2	0.9	1.0	0.9	1.0	4.6	998.6
82,5°	2.5	1.9	0.8	0.6	0.7	0.4	0.3	0.2	0.3	0.4	0.4	1.1	999.7
85,0°	0.9	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2	999.9
87,5°	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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

<b>Family</b> Streetlight 21 micro LED	<b>Order number: 5XE1M31G08DB</b> <b>EAN: 4058352740637</b>	<b>LP number</b> 59152_865
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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	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	4240	36.4	38.3	37.3
95	241	252	4023	33.9	35.7	34.8
90	229	250	3823	31.7	33.3	32.5
85	216	248	3606	29.5	31.0	30.2
80	203	246	3389	27.2	28.6	27.9
75	190	243	3172	25.2	26.4	25.8
70	178	241	2971	23.3	24.5	23.9
65	165	238	2754	21.3	22.3	21.8
60	152	235	2537	19.4	20.3	19.8
55	140	232	2337	17.7	18.5	18.1
50	127	229	2120	15.9	16.7	16.3
45	114	225	1903	14.2	14.9	14.6
40	102	221	1703	12.7	13.2	13.0
35	89	216	1486	11.0	11.6	11.3
30	76	210	1269	9.5	9.9	9.7
25	63	203	1052	8.0	8.4	8.2
20	51	195	851	6.7	7.0	6.8
15	38	184	634	5.3	5.5	5.4
10	26	171	434	4.1	4.3	4.2

<b>Dimming levels table</b>	environmental temperature: 5°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	4240	35.7	37.4	36.6
95	241	252	4023	33.3	34.9	34.1
90	229	250	3823	31.2	32.7	32.0
85	216	248	3606	29.0	30.5	29.8
80	203	246	3389	26.9	28.2	27.6
75	190	243	3172	24.9	26.0	25.4
70	178	241	2971	23.1	24.1	23.6
65	165	238	2754	21.2	22.1	21.6
60	152	235	2537	19.3	20.2	19.8
55	140	232	2337	17.6	18.4	18.0
50	127	229	2120	15.9	16.6	16.2
45	114	225	1903	14.2	14.8	14.5
40	102	221	1703	12.7	13.2	13.0
35	89	216	1486	11.1	11.6	11.4
30	76	210	1269	9.5	9.9	9.7
25	63	203	1052	8.1	8.3	8.2
20	51	195	851	6.7	7.0	6.8
15	38	184	634	5.4	5.6	5.5
11	27	172	451	4.2	4.4	4.3

## Photometric test report

<b>Family</b> Streetlight 21 micro LED	<b>Order number: 5XE1M31G08DB</b> <b>EAN: 4058352740637</b>	<b>LP number</b> 59152_865
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<b>Dimming levels table</b>	environmental temperature: 15°C	<b>siteco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	4240	36.0	37.7	36.8
95	241	252	4023	33.6	35.2	34.4
90	229	250	3823	31.5	32.9	32.2
85	216	248	3606	29.2	30.6	29.9
80	203	246	3389	27.0	28.4	27.7
75	190	243	3172	25.0	26.2	25.6
70	178	241	2971	23.1	24.2	23.6
65	165	238	2754	21.2	22.1	21.6
60	152	235	2537	19.3	20.2	19.8
55	140	232	2337	17.7	18.4	18.0
50	127	229	2120	15.9	16.6	16.2
45	114	225	1903	14.2	14.8	14.5
40	102	221	1703	12.7	13.2	13.0
35	89	216	1486	11.0	11.5	11.2
30	76	210	1269	9.5	9.9	9.7
25	63	203	1052	8.0	8.4	8.2
20	51	195	851	6.7	6.9	6.8
15	38	184	634	5.4	5.5	5.4
11	27	172	451	4.2	4.4	4.3

**Photometric test report**

<b>Family</b> Streetlight 21 micro LED	<b>Order number: 5XE1M31G08DB</b> <b>EAN: 4058352740637</b>	<b>LP number</b> <b>59152_865</b>
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**Luminousfluxs table** **siteco**

Temperature °C	Luminous flux lm	Power consumption W
25.0	4240.0	36.4
5.0	4240.0	35.7
15.0	4240.0	36.0