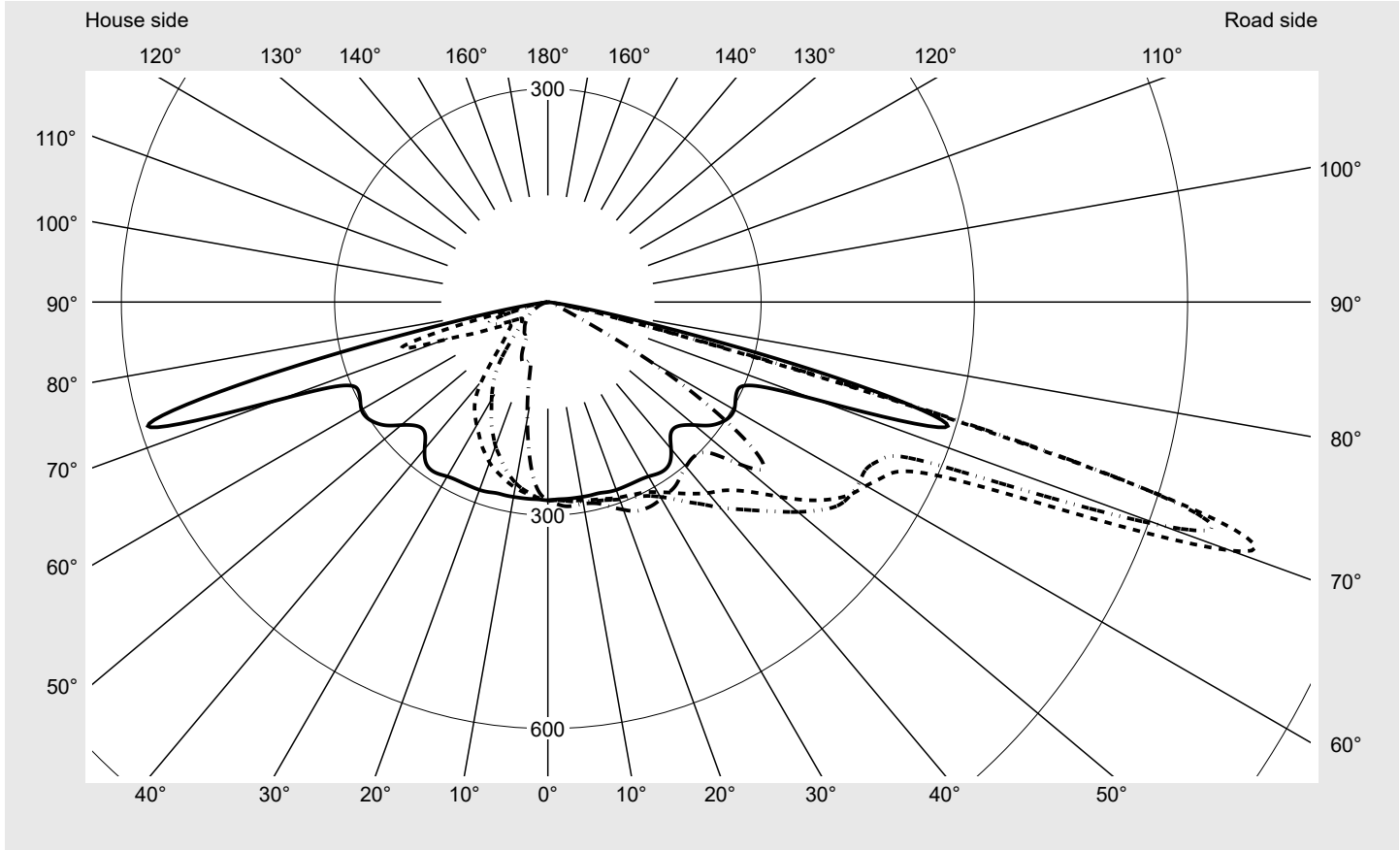


Photometric test report

Family Streetlight 21 micro LED	Order number: 5XE1R31G08CB EAN: 4069025148445	LP number 59535_224
	Version post-top or side-entry mounting Optic asymmetric, extremely wide distribution (P0.8a), Back Light Control (BLC) Cover toughened safety glass Lamps LED 3000 K CRI ≥ 70 Controlgear ECG SITECO iQ Rated values Net luminous flux = 2510 lm Power consumption = 19.4 W Luminous efficacy = 129.4 lm/W	serial documentation 18.01.2024



Luminous intensity in cd/klm C180-0 C195-15 C200-20 C270-90 **Imax: 1022 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:	G3
Imax 70°	1022.3
Imax 80°	56.2
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

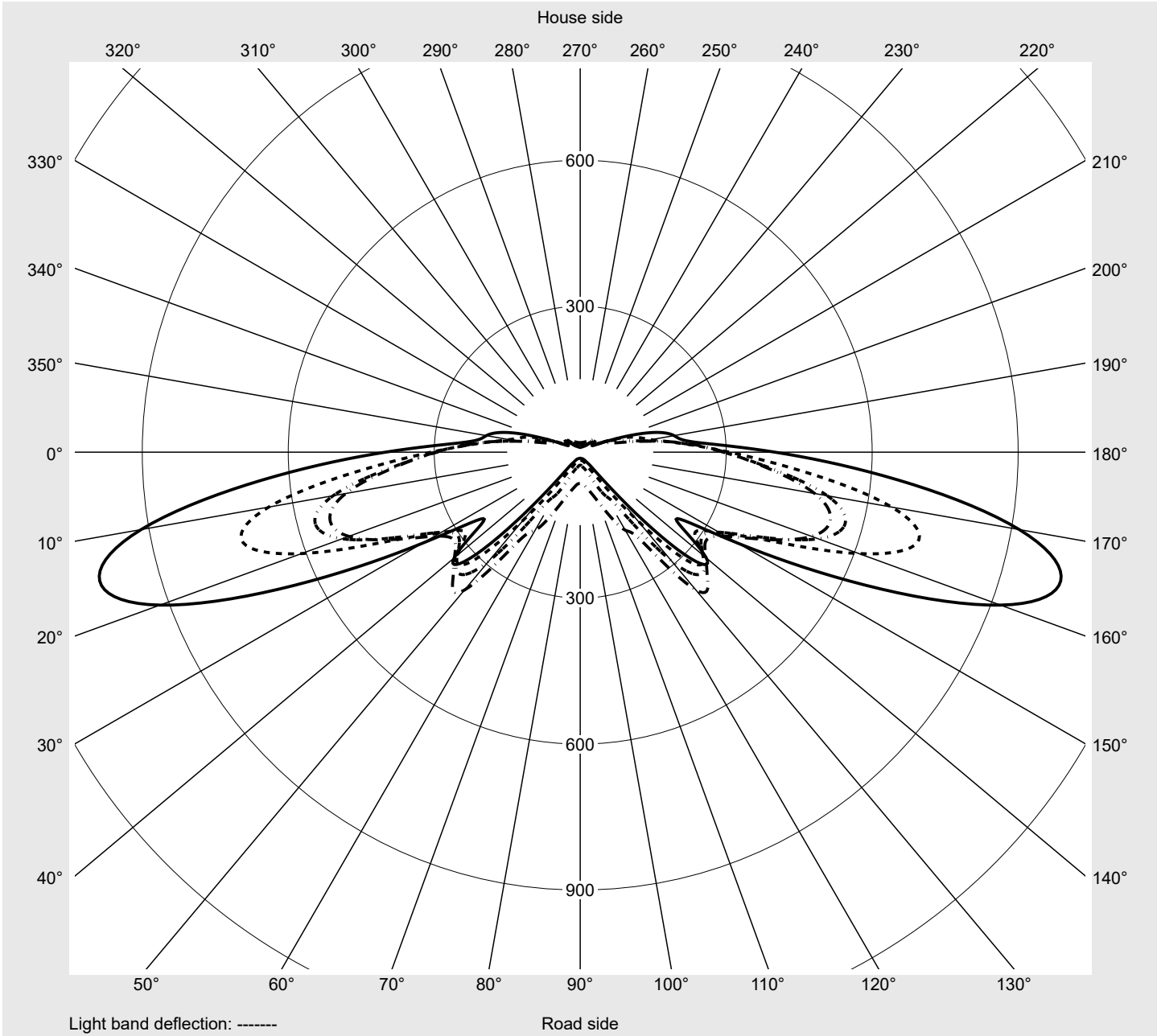
Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

Family Streetlight 21 micro LED	Order number: 5XE1R31G08CB EAN: 4069025148445	LP number 59535_224
---	--	-------------------------------

Envelope curve in cd/klm **KMK 70°** **KMK 67.5°** **KMK 65°** **KMK 62.5°** **siteco**



Photometric test report

Family Streetlight 21 micro LED	Order number: 5XE1R31G08CB EAN: 4069025148445	LP number 59535_224
Table of values for luminous intensities		Maximum luminous intensity

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°
γ	Luminous intensity in cd/klm												
0,0°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8
2,5°	277.9	277.8	278.3	278.5	279.1	279.5	279.7	280.3	281.1	281.1	281.8	282.0	282.5
5,0°	278.0	278.0	278.8	279.6	280.7	281.8	282.5	283.4	284.3	284.7	285.3	285.7	286.3
7,5°	278.2	278.8	279.7	281.6	283.0	284.3	285.2	285.8	286.5	286.6	286.8	287.0	287.2
10,0°	278.3	279.3	281.1	283.2	284.8	286.1	286.8	287.1	287.4	287.5	287.6	287.5	287.6
12,5°	278.4	280.6	282.9	285.1	287.1	288.1	288.1	288.3	288.6	288.3	288.2	288.3	288.1
15,0°	278.3	281.8	284.2	287.0	288.9	289.7	290.4	290.4	290.4	290.5	290.7	291.2	291.5
17,5°	280.1	284.2	287.0	289.9	291.8	292.6	293.2	293.3	294.2	295.6	296.5	297.9	299.1
20,0°	281.2	286.5	289.9	292.7	295.2	296.4	297.4	298.7	300.7	302.2	304.8	306.3	307.6
22,5°	281.2	288.0	291.8	294.7	298.0	300.7	303.7	306.7	309.6	312.0	314.3	316.4	318.0
25,0°	281.2	289.0	293.5	297.6	302.0	305.6	310.8	316.1	320.1	323.0	325.6	327.5	328.0
27,5°	281.6	290.6	296.3	301.5	307.4	313.2	319.9	326.8	332.3	336.2	338.0	338.5	336.9
30,0°	283.2	294.4	301.5	308.8	316.5	324.6	332.6	340.2	345.8	350.2	351.0	348.3	344.3
32,5°	286.5	299.7	308.4	317.7	328.5	340.0	349.8	357.0	362.1	365.5	364.2	358.0	349.5
35,0°	287.6	303.8	315.5	328.7	343.4	357.5	368.6	376.7	381.4	382.7	377.3	366.1	353.1
37,5°	282.8	302.1	319.8	339.7	358.7	375.8	388.1	395.7	398.9	396.8	386.6	370.4	354.4
40,0°	269.7	294.5	321.2	350.6	377.6	398.0	410.2	417.0	415.9	407.6	392.5	373.6	355.1
42,5°	255.3	287.6	322.7	360.0	395.2	420.8	432.6	434.9	428.7	414.1	394.4	373.9	354.4
45,0°	251.0	289.5	331.0	374.7	414.6	444.9	453.6	450.5	436.8	415.6	393.7	371.5	352.8
47,5°	256.6	303.0	350.2	396.9	436.1	462.6	468.6	458.1	439.5	412.5	387.5	369.7	355.1
50,0°	269.2	324.0	378.1	426.2	459.3	475.7	475.8	456.8	430.3	401.5	381.2	373.1	369.5
52,5°	285.2	346.9	408.8	457.5	481.0	483.4	467.9	440.5	409.6	388.7	382.1	388.8	404.4
55,0°	295.9	364.8	434.7	484.0	498.6	480.9	443.0	412.5	385.1	377.3	391.6	422.7	440.8
57,5°	302.2	378.2	457.4	504.1	505.0	463.7	409.7	376.6	362.7	372.1	410.7	405.5	386.0
60,0°	302.7	385.2	474.2	517.0	506.3	445.5	376.2	342.3	346.6	374.1	408.1	323.4	289.9
62,5°	297.6	389.4	489.3	532.5	506.1	424.7	345.6	316.1	337.3	370.1	369.8	228.7	185.2
65,0°	294.2	397.3	515.7	563.9	520.7	414.1	329.1	304.9	329.7	352.9	292.0	146.3	103.0
67,5°	306.5	462.0	650.1	717.4	609.4	431.9	331.0	288.1	329.0	319.8	183.6	76.0	42.3
70,0°	400.3	655.6	916.4	1022.3	919.1	647.3	374.3	240.7	338.2	282.9	84.5	28.5	20.0
72,5°	586.0	762.4	853.4	904.4	899.0	672.4	361.6	293.9	353.5	133.4	22.0	16.9	14.5
75,0°	449.7	381.0	325.6	308.5	339.8	261.0	278.4	408.8	241.2	30.0	14.0	12.7	10.9
77,5°	187.6	136.4	104.4	83.4	66.4	31.3	81.0	143.9	55.8	10.9	9.4	9.1	7.9
80,0°	56.2	38.7	28.1	20.2	12.5	7.1	6.9	10.5	5.9	5.4	6.4	5.7	5.0
82,5°	9.6	8.1	6.9	5.8	4.4	3.9	3.4	3.0	2.7	2.5	2.7	2.4	2.4
85,0°	2.7	2.5	2.3	2.2	1.9	1.7	1.6	1.6	1.3	1.3	1.2	1.1	1.0
87,5°	1.5	1.3	1.2	1.2	1.1	1.0	1.0	0.8	0.8	0.8	0.6	0.6	0.6
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

Photometric test report

Family Streetlight 21 micro LED	Order number: 5XE1R31G08CB EAN: 4069025148445	LP number 59535_224
Table of values for luminous intensities		Maximum luminous intensity

siteco

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°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8
2,5°	282.9	283.2	283.5	283.8	284.1	284.2	277.4	276.4	276.1	275.6	274.5	273.9	273.1
5,0°	286.6	287.0	287.2	287.6	288.0	288.3	277.0	274.5	272.6	270.8	268.5	266.3	264.1
7,5°	287.4	287.5	287.8	288.2	288.3	288.6	276.2	272.6	269.3	265.7	261.4	256.5	251.1
10,0°	287.2	287.1	287.2	287.7	288.3	288.1	275.3	270.3	265.0	258.9	250.7	242.0	231.8
12,5°	288.1	288.2	288.7	289.2	289.4	289.8	274.1	267.4	259.7	249.5	236.8	222.9	208.7
15,0°	292.0	292.1	292.7	293.8	294.2	294.4	273.1	264.3	253.4	238.6	221.3	203.4	184.9
17,5°	299.9	300.3	300.8	301.6	302.6	302.8	273.2	261.7	247.2	226.6	204.9	181.7	160.7
20,0°	308.0	308.8	309.2	309.9	310.3	310.8	273.2	259.9	240.1	215.4	188.9	162.4	139.4
22,5°	318.6	318.4	318.1	317.7	317.8	318.3	271.5	255.2	230.6	201.6	170.3	143.2	114.9
25,0°	327.4	325.7	323.3	321.8	320.7	321.2	269.5	249.4	221.2	187.9	153.1	121.8	90.5
27,5°	334.3	330.2	326.2	323.3	321.5	321.5	266.7	243.2	210.0	171.9	135.7	99.1	71.1
30,0°	339.2	333.1	326.9	322.2	319.5	319.3	265.3	237.9	200.2	158.3	118.4	79.9	62.3
32,5°	341.5	333.3	325.9	320.7	318.1	317.3	264.9	232.9	190.4	145.0	101.3	66.5	60.1
35,0°	342.5	333.9	325.9	318.9	315.1	314.2	263.0	225.7	179.7	131.6	85.9	59.6	60.6
37,5°	342.0	331.6	322.7	314.3	309.4	307.4	254.3	213.3	165.2	116.7	73.0	56.4	60.0
40,0°	340.1	328.2	319.5	310.6	304.4	302.4	235.8	192.1	144.6	99.3	62.9	54.2	57.1
42,5°	337.2	325.3	318.1	307.7	301.1	299.2	216.4	169.2	122.0	81.3	56.4	52.1	54.2
45,0°	337.1	325.6	317.5	309.4	303.1	301.1	203.9	150.0	103.2	66.2	51.0	50.1	52.0
47,5°	343.8	336.0	329.8	323.8	318.2	316.4	200.2	139.3	88.8	56.2	48.4	48.6	50.7
50,0°	367.8	368.7	368.6	364.8	359.1	357.0	204.6	135.1	79.1	49.7	47.4	49.0	50.6
52,5°	419.9	422.4	412.8	399.2	386.2	382.4	211.0	133.0	72.3	46.2	47.5	49.5	49.6
55,0°	424.6	395.0	374.2	359.3	344.6	341.1	216.4	132.7	66.2	43.9	45.5	46.9	45.5
57,5°	353.8	310.6	285.4	270.3	259.7	257.6	218.5	130.4	61.9	43.1	41.0	41.0	39.3
60,0°	250.3	204.6	182.6	173.4	165.1	161.8	217.0	129.2	64.3	47.9	38.9	36.0	36.2
62,5°	145.5	108.8	86.7	74.0	66.0	64.6	214.2	129.0	73.8	58.1	41.2	33.5	34.8
65,0°	67.5	45.0	35.7	31.3	27.6	26.8	210.1	133.0	90.9	71.2	45.1	31.9	34.7
67,5°	26.8	20.8	18.5	17.5	16.8	16.4	208.5	148.3	118.6	81.6	45.1	29.9	33.7
70,0°	16.2	14.4	13.8	13.2	12.7	12.3	236.4	195.9	156.6	87.0	37.9	28.1	32.3
72,5°	12.8	11.4	10.8	10.2	9.6	9.4	409.6	322.7	215.6	78.7	30.0	27.9	29.6
75,0°	9.7	8.6	7.9	7.5	7.1	7.0	414.6	266.9	148.4	43.3	26.7	27.7	25.5
77,5°	6.7	5.8	5.3	5.0	4.7	4.6	158.3	92.5	50.4	16.7	18.7	22.5	20.1
80,0°	4.0	3.5	3.0	2.9	2.7	2.7	44.1	27.3	12.5	8.6	10.0	12.3	11.7
82,5°	2.2	2.1	1.8	1.8	1.7	1.7	10.0	6.4	4.8	4.8	5.1	5.3	5.2
85,0°	1.0	1.0	1.0	0.8	0.8	1.0	2.8	2.8	2.8	2.7	2.5	2.4	2.2
87,5°	0.6	0.6	0.5	0.5	0.5	0.5	1.5	1.5	1.5	1.5	1.3	1.3	1.3
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 Streetlight 21 micro LED	Order number: 5XE1R31G08CB EAN: 4069025148445	LP number 59535_224
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°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	0.4	0.4
2,5°	272.2	271.8	271.0	270.4	269.8	269.5	269.2	268.7	268.6	268.6	268.5	3.3	3.7
5,0°	261.5	258.9	256.5	253.9	251.4	249.4	247.6	246.1	245.0	244.4	244.3	6.5	10.2
7,5°	244.8	238.5	232.3	226.9	221.6	217.2	213.5	210.6	208.6	207.3	206.8	9.4	19.6
10,0°	221.4	211.9	203.1	194.5	186.1	179.5	174.5	171.0	168.5	167.1	166.7	12.0	31.6
12,5°	195.0	181.2	169.8	160.0	151.3	144.4	138.5	134.0	131.0	128.9	128.4	14.2	45.8
15,0°	167.9	153.5	140.2	128.2	117.7	109.1	102.7	98.6	95.9	94.7	94.3	16.3	62.0
17,5°	142.2	124.6	108.6	95.7	87.6	83.9	83.1	83.8	84.7	85.5	85.9	18.4	80.4
20,0°	116.6	96.4	83.1	78.2	78.6	81.3	84.5	87.3	89.3	90.3	90.9	20.8	101.2
22,5°	89.5	75.2	72.6	76.0	80.9	85.1	88.4	90.5	91.6	91.8	92.2	23.2	124.4
25,0°	71.4	68.6	73.3	79.7	85.5	88.8	90.0	89.7	88.7	87.4	87.1	25.6	150.0
27,5°	64.7	70.1	78.6	86.0	89.6	90.0	87.9	84.8	81.5	78.7	77.4	28.0	178.0
30,0°	64.8	74.0	83.0	87.6	87.7	84.1	78.9	73.3	68.2	64.5	62.9	30.3	208.3
32,5°	67.5	77.3	83.7	84.9	81.4	75.6	69.2	63.0	57.6	53.9	52.5	32.7	241.0
35,0°	69.5	77.5	81.3	79.5	74.6	69.1	63.6	59.6	56.8	55.4	54.7	35.2	276.2
37,5°	66.9	72.0	72.9	70.1	66.3	64.1	63.0	61.0	57.8	55.1	54.2	37.4	313.5
40,0°	61.1	63.3	62.3	60.6	62.2	62.0	58.2	55.0	53.0	51.5	51.0	39.1	352.7
42,5°	56.2	56.2	55.5	58.5	59.0	54.9	52.9	51.4	50.1	49.0	48.4	40.8	393.5
45,0°	53.0	52.6	55.5	57.6	52.9	50.7	49.0	47.7	46.7	46.0	45.7	42.7	436.2
47,5°	51.0	53.0	57.0	52.2	48.3	46.4	45.0	44.0	43.2	42.7	42.6	45.2	481.4
50,0°	50.3	54.8	53.7	46.7	43.9	42.3	41.2	40.5	39.8	39.4	39.2	48.5	529.9
52,5°	49.2	54.1	48.4	42.2	39.7	38.5	37.5	36.4	35.8	35.3	35.3	52.1	582.0
55,0°	47.2	51.3	42.8	37.7	35.7	34.3	33.3	32.8	32.2	31.9	31.9	53.0	634.9
57,5°	46.8	46.6	37.7	33.1	31.7	30.7	29.9	29.5	29.0	28.8	28.8	50.6	685.5
60,0°	45.6	41.7	32.2	29.5	28.5	27.6	26.4	25.5	24.7	24.2	24.2	46.4	731.9
62,5°	43.5	35.8	28.2	26.2	24.8	23.3	21.9	20.9	20.2	19.7	19.8	41.6	773.6
65,0°	39.3	31.9	24.7	22.4	20.8	19.0	17.8	17.1	16.4	16.2	16.2	38.9	812.4
67,5°	35.7	27.6	20.9	18.1	16.8	15.5	14.4	13.8	13.5	13.3	13.3	40.2	852.7
70,0°	31.4	23.6	17.7	15.1	13.8	12.3	11.5	10.8	10.3	9.9	9.7	49.7	902.3
72,5°	26.8	19.7	14.6	12.0	10.5	9.1	8.2	7.7	7.3	6.8	6.8	52.1	954.4
75,0°	22.1	15.8	11.6	9.2	7.7	6.8	5.8	5.3	4.8	4.6	4.6	30.6	985.0
77,5°	16.3	11.4	8.2	6.4	5.3	4.4	3.7	3.1	2.9	2.7	2.7	10.4	995.4
80,0°	9.8	6.7	5.0	4.0	3.1	2.5	2.1	1.7	1.3	1.0	1.0	2.9	998.4
82,5°	4.5	3.5	2.8	2.1	1.6	1.3	1.1	1.0	0.7	0.6	0.5	1.0	999.3
85,0°	1.9	1.7	1.5	1.1	0.8	0.8	0.7	0.6	0.5	0.5	0.5	0.4	999.8
87,5°	1.2	1.1	0.8	0.8	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.2	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 Streetlight 21 micro LED	Order number: 5XE1R31G08CB EAN: 4069025148445	LP number 59535_224
Dimming levels table		siteco
environmental temperature: 25°C		

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	2510	19.4	19.9	19.6
95	241	252	2382	18.2	18.8	18.5
90	229	250	2263	17.2	17.7	17.4
85	216	248	2134	16.2	16.6	16.4
80	203	246	2006	15.1	15.6	15.4
75	190	243	1878	14.2	14.6	14.4
70	178	241	1759	13.2	13.6	13.4
65	165	238	1631	12.3	12.6	12.4
60	152	235	1502	11.3	11.6	11.4
55	140	232	1383	10.4	10.7	10.6
50	127	229	1255	9.5	9.8	9.6
45	114	225	1127	8.6	8.8	8.7
40	102	221	1008	7.8	8.0	7.9
35	89	216	879	6.9	7.1	7.0
30	76	210	751	6.1	6.3	6.2
25	63	203	623	5.3	5.4	5.4
20	51	195	504	4.5	4.6	4.6
17	42	188	415	4.0	4.1	4.0

Dimming levels table	environmental temperature: 5°C
-----------------------------	--------------------------------

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	2510	19.2	19.8	19.5
95	241	252	2382	18.1	18.7	18.4
90	229	250	2263	17.2	17.7	17.4
85	216	248	2135	16.1	16.6	16.4
80	203	246	2006	15.1	15.6	15.4
75	190	243	1878	14.1	14.5	14.3
70	178	241	1759	13.2	13.7	13.4
65	165	238	1631	12.2	12.6	12.4
60	152	235	1502	11.3	11.6	11.4
55	140	232	1384	10.4	10.7	10.6
50	127	229	1255	9.5	9.8	9.6
45	114	225	1127	8.6	8.9	8.8
40	102	221	1008	7.8	8.1	8.0
35	89	216	880	6.9	7.1	7.0
30	76	210	751	6.1	6.3	6.2
25	63	203	623	5.4	5.5	5.4
20	51	195	504	4.6	4.7	4.6
17	42	188	415	4.0	4.1	4.0

Photometric test report

Family Streetlight 21 micro LED	Order number: 5XE1R31G08CB EAN: 4069025148445	LP number 59535_224
---	--	-------------------------------

Dimming levels table	environmental temperature: 15°C	siteco
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W] start of lifetime	Power consumption [W] end of lifetime	Power consumption [W] average
100	254	254	2510	19.2	19.8	19.5
95	241	252	2382	18.1	18.7	18.4
90	229	250	2263	17.2	17.6	17.4
85	216	248	2135	16.1	16.6	16.4
80	203	246	2006	15.1	15.6	15.4
75	190	243	1878	14.1	14.5	14.3
70	178	241	1759	13.2	13.6	13.4
65	165	238	1631	12.2	12.6	12.4
60	152	235	1502	11.3	11.6	11.4
55	140	232	1384	10.4	10.7	10.6
50	127	229	1255	9.4	9.7	9.6
45	114	225	1127	8.6	8.8	8.7
40	102	221	1008	7.8	8.0	7.9
35	89	216	880	6.9	7.1	7.0
30	76	210	751	6.2	6.3	6.2
25	63	203	623	5.3	5.4	5.4
20	51	195	504	4.6	4.7	4.6
17	42	188	415	4.0	4.2	4.1

Photometric test report

Family Streetlight 21 micro LED	Order number: 5XE1R31G08CB EAN: 4069025148445	LP number 59535_224
---	--	--------------------------------------

Luminousfluxs table **siteco**

Temperature °C	Luminous flux lm	Power consumption W
25.0	2510.0	19.4
5.0	2510.0	19.2
15.0	2510.0	19.2