

Photometric test report

Family
Streetlight 21 mini LED

Order number: 5XE2M31Y08JB
EAN: 4058352923740

LP number
59158_222



Version	post-top or side-entry mounting, Smart Interface up/down
Optic	asymmetric, wide distribution (ST1.0a G), Back Light Control (BLC)
Cover	toughened safety glass
Lamps	LED 3000 K CRI ≥ 70
Controlgear	EVG SITECO iQ - Smart Interface
Rated values	Net luminous flux = 9870 lm Power consumption = 72.5 W Luminous efficacy = 136.1 lm/W

serial
documentation
09.08.2023

siteco

Luminous intensity in cd/klm

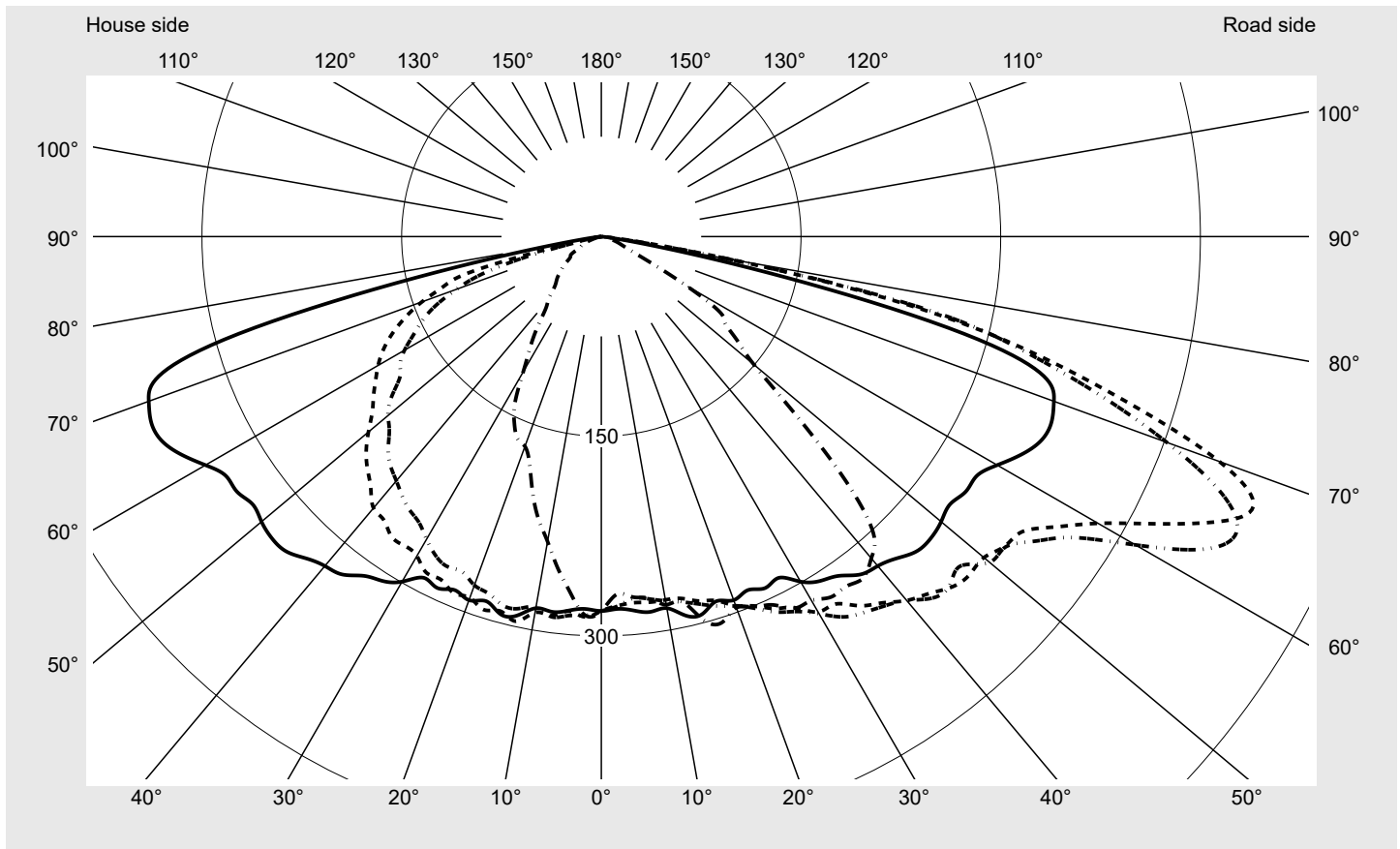
C180-0

C195-15

C200-20

C270-90

Imax: 530 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:	G4
Imax 70°	494.0
Imax 80°	97.3
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

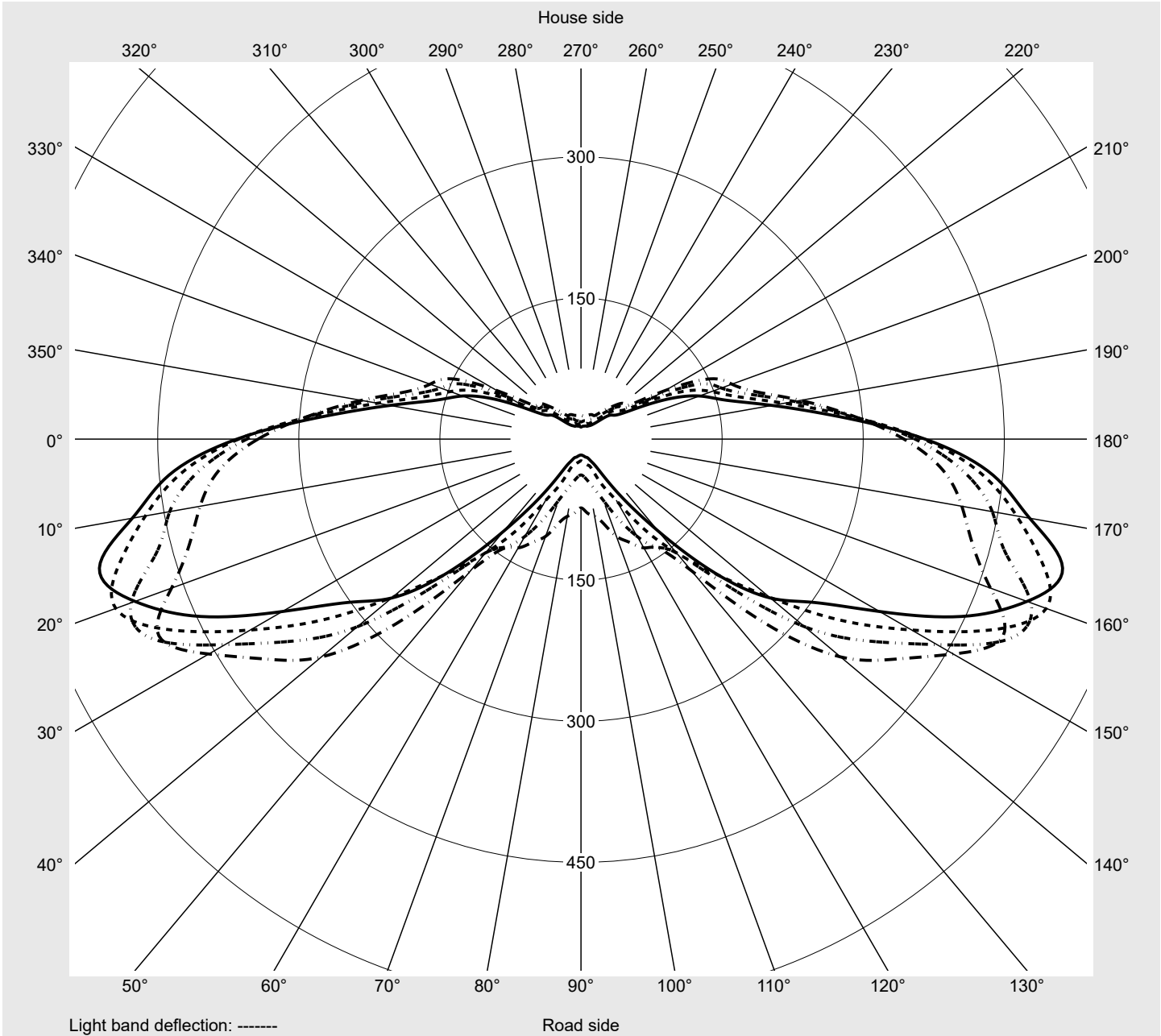
Measurement conditions

DIN EN 13032 and DIN 5032

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Envelope curve in cd/klm **KMK 67.5°** **KMK 65°** **KMK 62.5°** **KMK 60°** **siteco**



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Table of values for luminous intensities		Maximum luminous intensity



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°	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3
2,5°	280.0	279.5	279.2	277.7	277.9	277.2	277.5	277.2	275.6	274.9	274.1	272.2	271.9
5,0°	282.0	279.0	278.0	276.1	272.9	271.2	268.2	269.1	269.6	270.1	269.8	269.1	270.9
7,5°	284.3	282.5	280.2	277.0	274.6	269.8	270.2	271.2	274.2	276.9	275.3	277.1	278.7
10,0°	283.5	278.8	278.9	277.1	277.9	275.3	275.0	274.3	277.9	276.8	278.3	280.6	285.6
12,5°	291.5	283.0	278.6	278.5	281.2	284.6	289.1	289.5	285.3	284.2	286.1	285.7	287.3
15,0°	293.5	287.3	282.6	283.4	285.9	287.5	291.2	291.6	289.1	290.7	289.2	288.4	292.5
17,5°	287.2	283.0	284.7	286.8	291.0	295.5	294.3	295.6	291.9	292.9	293.3	291.2	291.8
20,0°	290.7	291.7	292.2	295.1	295.4	298.3	298.7	298.0	297.8	295.7	296.5	296.5	299.4
22,5°	287.5	290.7	295.2	300.3	302.4	303.2	304.2	303.3	305.0	303.4	306.4	303.6	308.2
25,0°	291.3	293.7	300.6	308.4	311.2	310.2	305.1	310.6	315.6	314.0	311.9	310.8	313.1
27,5°	289.0	299.0	309.0	314.3	317.6	319.7	315.4	321.2	315.6	313.1	310.8	312.4	317.4
30,0°	299.3	307.0	319.6	325.6	327.2	326.9	321.7	323.1	317.8	323.1	319.9	314.6	319.2
32,5°	306.6	316.1	327.3	327.3	338.8	336.8	328.0	332.2	327.0	328.7	324.9	323.3	321.4
35,0°	311.1	323.0	331.4	338.6	344.6	341.3	340.8	340.2	334.2	335.6	333.1	338.0	343.9
37,5°	319.9	329.0	340.9	346.8	349.7	351.4	343.0	340.3	343.7	357.2	349.0	349.3	350.7
40,0°	323.1	341.3	350.9	356.9	356.9	355.3	348.8	348.2	355.8	358.7	355.6	359.4	347.1
42,5°	328.0	352.6	360.8	363.9	368.3	358.2	356.2	364.4	370.1	370.9	367.6	359.1	344.9
45,0°	334.6	357.9	364.8	372.3	370.2	361.6	366.2	373.8	385.7	385.3	368.9	360.6	349.9
47,5°	335.6	361.2	371.9	375.5	366.2	374.6	379.7	390.8	395.5	392.9	373.7	358.5	330.6
50,0°	333.2	358.6	375.4	375.2	380.7	383.0	391.4	407.7	423.6	398.5	367.7	329.8	282.7
52,5°	330.3	358.8	373.2	382.1	382.9	396.7	409.7	434.6	441.4	401.3	350.0	291.1	233.7
55,0°	334.1	363.5	378.1	386.3	398.8	423.8	441.5	441.1	420.3	385.7	309.2	234.7	184.4
57,5°	334.5	363.0	386.9	405.8	420.8	451.3	460.8	432.9	394.6	333.1	244.9	182.0	145.6
60,0°	343.4	386.8	411.2	430.9	463.3	495.1	456.9	407.8	360.3	277.0	182.7	141.5	133.5
62,5°	355.2	409.6	444.0	467.2	508.8	502.5	436.9	374.5	310.3	220.8	158.1	140.1	119.6
65,0°	363.9	427.8	470.2	507.6	526.4	480.2	405.9	335.1	261.4	202.9	157.6	116.6	75.7
67,5°	365.9	439.7	484.4	530.1	504.6	446.2	366.6	302.8	262.8	201.3	127.5	74.5	38.3
70,0°	361.8	427.3	480.7	494.0	452.1	390.2	353.2	342.1	271.3	160.9	82.6	40.8	21.3
72,5°	348.5	390.9	432.9	414.9	389.5	361.2	397.1	367.5	221.1	100.7	40.3	20.0	14.8
75,0°	281.9	295.0	323.9	333.1	324.9	367.7	367.8	233.4	109.1	39.6	15.4	12.6	11.4
77,5°	143.0	161.3	198.8	233.5	244.3	250.6	175.4	81.5	27.2	12.1	10.0	8.7	7.3
80,0°	40.2	63.0	91.1	97.3	95.2	86.7	27.8	12.7	6.5	6.7	7.5	5.6	4.2
82,5°	8.8	13.8	20.6	21.5	16.3	17.5	5.0	3.3	2.6	3.3	3.9	2.7	2.0
85,0°	1.2	1.3	1.5	1.6	1.4	1.7	1.3	1.2	1.1	0.9	1.1	0.8	0.7
87,5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
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

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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°	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3
2,5°	272.1	269.9	267.0	268.1	268.5	269.0	281.4	284.1	286.0	285.0	286.1	285.9	287.0
5,0°	269.3	272.2	271.3	271.9	270.8	271.9	283.4	282.6	282.5	285.9	285.5	283.5	281.1
7,5°	280.9	281.1	280.2	277.5	274.1	274.1	286.0	287.6	287.0	288.0	286.8	283.0	277.5
10,0°	287.1	285.1	283.0	280.7	279.3	280.8	287.8	290.8	286.8	282.7	279.5	273.9	268.3
12,5°	285.5	284.2	286.0	288.9	286.6	281.0	295.5	295.8	296.0	286.2	277.7	269.6	261.9
15,0°	292.0	290.2	289.8	292.0	297.5	298.6	293.5	294.0	291.5	286.7	277.3	264.8	251.5
17,5°	294.8	294.5	298.3	293.0	297.4	303.5	292.3	293.3	293.9	281.3	267.6	258.9	240.9
20,0°	299.0	299.5	304.2	296.9	296.7	296.7	294.8	297.3	288.7	278.8	264.7	247.9	234.6
22,5°	307.0	303.9	307.2	305.2	303.5	301.1	292.3	292.7	289.8	272.7	253.1	235.2	224.2
25,0°	308.5	307.0	306.5	307.6	304.1	305.3	288.3	287.7	284.5	273.6	248.9	229.8	214.2
27,5°	309.7	310.9	309.1	310.5	312.1	314.7	284.8	292.0	284.6	269.9	246.9	218.6	204.8
30,0°	318.8	313.0	316.5	319.3	321.1	315.6	288.4	288.0	277.1	262.6	236.5	216.2	195.1
32,5°	328.3	327.3	324.1	328.0	321.7	321.1	292.1	283.3	275.4	254.8	232.4	204.0	187.3
35,0°	333.0	330.3	327.3	330.3	321.0	320.8	293.4	280.5	274.9	250.9	222.6	198.5	180.2
37,5°	347.6	338.1	337.0	331.1	320.5	323.3	300.7	280.1	268.4	245.7	215.7	189.0	173.6
40,0°	336.7	326.6	325.9	326.6	319.5	315.5	299.6	275.7	266.2	239.6	208.1	184.4	173.4
42,5°	338.1	330.2	318.5	318.1	304.4	302.6	299.3	268.9	256.4	234.2	201.3	180.8	167.8
45,0°	331.0	306.8	290.4	268.8	256.0	259.8	300.8	268.3	248.2	226.4	193.0	177.1	163.8
47,5°	292.1	250.6	224.1	205.0	194.0	197.9	301.3	257.8	239.6	216.0	186.1	176.6	150.4
50,0°	230.3	192.7	175.9	164.2	151.9	149.7	291.8	255.7	228.4	209.2	179.8	170.6	134.0
52,5°	178.9	156.0	144.3	133.1	130.3	129.2	290.2	246.4	216.9	199.0	174.2	152.8	114.9
55,0°	145.4	130.5	117.0	116.4	114.2	113.5	290.0	243.5	208.9	184.8	172.7	133.8	95.4
57,5°	121.3	117.8	115.4	113.0	105.4	105.7	290.5	241.2	201.0	179.3	161.5	119.5	77.5
60,0°	120.8	110.0	93.0	83.4	79.0	73.2	288.7	237.1	193.6	170.7	151.6	103.2	63.9
62,5°	93.2	69.2	54.5	45.9	40.4	38.1	287.6	230.5	184.8	158.7	138.3	87.8	57.4
65,0°	54.2	33.9	28.7	26.2	24.3	23.1	285.3	219.6	173.6	147.8	120.0	76.2	53.1
67,5°	26.5	21.4	19.9	18.4	17.4	16.9	275.2	206.3	159.8	134.0	99.6	61.1	44.4
70,0°	17.3	16.2	15.1	13.9	13.6	13.6	271.2	190.7	143.4	115.8	76.3	41.8	37.8
72,5°	13.4	12.4	11.4	10.8	10.3	10.1	262.2	181.5	124.0	94.7	40.9	29.8	31.2
75,0°	9.9	9.0	7.8	7.7	7.0	7.0	234.3	162.3	97.6	56.0	20.7	21.7	24.4
77,5°	6.2	5.7	5.2	5.0	4.7	4.7	137.1	75.6	26.2	11.1	9.8	13.4	15.8
80,0°	3.7	3.3	3.1	3.0	2.9	2.6	42.3	12.7	5.3	5.7	5.5	8.1	8.7
82,5°	1.7	1.8	1.5	1.5	1.5	1.4	7.6	3.1	2.7	2.5	2.5	3.6	4.0
85,0°	0.7	0.7	0.6	0.6	0.5	0.6	1.3	1.2	1.1	1.1	1.0	1.1	1.0
87,5°	0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.3	0.2	0.2	0.2
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 mini LED	Order number: 5XE2M31Y08JB EAN: 4058352923740	LP number 59158_222
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°	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	281.3	0.4	0.4
2,5°	286.8	285.3	284.3	284.7	284.2	283.3	284.6	283.3	283.5	283.7	284.6	3.3	3.8
5,0°	278.6	276.1	273.1	270.4	269.6	267.2	264.9	267.7	269.2	270.0	268.4	6.5	10.3
7,5°	270.7	265.2	261.6	259.4	254.7	252.2	249.7	249.3	251.4	252.1	251.1	9.8	20.1
10,0°	262.4	258.2	251.3	247.1	241.7	240.5	235.9	232.2	229.7	232.0	232.6	12.8	32.9
12,5°	253.0	248.1	241.3	233.4	227.8	225.9	222.1	221.1	217.0	216.2	217.6	15.9	48.8
15,0°	243.5	238.9	227.1	220.2	215.6	207.2	202.8	202.4	199.4	197.5	199.3	18.9	67.7
17,5°	230.7	224.5	216.6	207.3	197.9	192.6	186.1	186.7	184.9	178.1	179.1	21.6	89.3
20,0°	224.7	212.9	200.9	190.3	179.3	178.3	173.5	168.8	172.8	171.2	167.7	24.4	113.7
22,5°	214.9	197.6	181.9	175.8	167.5	170.4	169.4	167.1	165.9	164.7	164.5	27.1	140.8
25,0°	197.9	180.7	172.8	169.2	165.1	160.8	159.9	160.1	158.1	157.3	154.6	29.8	170.6
27,5°	187.3	175.1	165.8	162.0	159.3	153.5	151.8	145.8	145.0	142.8	140.4	32.4	203.0
30,0°	177.2	171.0	166.6	158.9	151.2	143.8	132.7	128.8	124.3	120.6	117.3	35.0	238.0
32,5°	172.7	165.1	158.2	150.4	138.9	130.3	117.7	112.6	105.8	101.8	100.1	37.5	275.5
35,0°	173.7	161.0	152.4	138.3	123.5	111.2	100.8	90.8	89.5	87.5	84.7	39.9	315.4
37,5°	166.8	154.7	137.1	122.9	105.2	92.7	86.3	81.1	76.6	73.0	69.0	42.2	357.6
40,0°	159.6	145.5	123.8	107.7	92.7	82.7	77.8	70.9	66.2	62.7	61.7	44.1	401.8
42,5°	150.3	129.1	106.2	93.0	85.0	75.6	70.1	65.3	59.6	54.9	52.8	46.0	447.8
45,0°	137.4	114.1	93.1	85.0	75.9	66.1	59.6	54.8	50.9	50.0	47.9	47.0	494.8
47,5°	124.3	96.6	84.4	75.5	64.4	54.9	48.4	46.6	45.4	44.6	44.2	46.6	541.4
50,0°	105.0	86.9	74.5	66.3	55.3	47.4	42.9	41.6	41.5	39.7	39.3	46.0	587.4
52,5°	89.2	76.5	63.7	53.4	45.8	41.0	37.8	37.7	35.4	34.8	35.4	45.4	632.9
55,0°	75.3	68.1	53.2	44.9	38.3	35.9	34.0	34.1	32.0	31.4	29.8	44.7	677.6
57,5°	64.5	56.8	45.7	39.7	34.2	32.8	30.9	30.2	29.1	28.8	27.4	44.0	721.6
60,0°	59.0	50.3	41.2	33.9	28.9	28.5	27.6	26.2	25.5	24.9	25.3	43.4	765.0
62,5°	53.6	44.6	34.6	28.4	25.6	23.6	22.6	20.3	19.8	18.9	18.3	42.0	807.0
65,0°	47.4	37.5	28.0	23.1	19.9	17.9	17.8	16.5	16.2	16.0	16.2	40.3	847.3
67,5°	39.3	28.4	21.3	17.9	16.3	15.1	14.9	14.3	14.0	13.4	12.8	38.3	885.6
70,0°	31.7	19.8	16.1	15.1	13.5	11.7	11.5	11.5	11.1	11.0	10.7	35.8	921.3
72,5°	24.4	15.2	12.7	11.7	10.5	9.3	8.6	8.1	7.7	7.5	7.3	32.3	953.6
75,0°	17.7	11.9	10.0	8.9	7.9	6.4	5.3	5.0	5.2	5.0	4.8	25.5	979.1
77,5°	11.6	7.9	6.4	5.8	4.8	3.7	3.2	3.1	2.9	2.5	2.7	14.3	993.4
80,0°	6.9	4.8	3.4	2.9	2.3	1.7	1.3	1.2	0.9	1.0	1.1	5.1	998.5
82,5°	3.1	2.0	1.3	1.1	0.9	0.4	0.4	0.4	0.4	0.4	0.3	1.3	999.7
85,0°	0.8	0.7	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	999.9
87,5°	0.1	0.1	0.1	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

Family Streetlight 21 mini LED	Order number: 5XE2M31Y08JB EAN: 4058352923740	LP number 59158_222
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Dimming levels table	environmental temperature: 25°C	siteco
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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	9870	72.5	75.7	74.1
95	241	252	9365	67.9	70.8	69.4
90	229	250	8899	63.8	66.6	65.2
85	216	248	8393	59.5	61.9	60.7
80	203	246	7888	55.3	57.5	56.4
75	190	243	7383	51.2	53.2	52.2
70	178	241	6917	47.4	49.4	48.4
65	165	238	6412	43.5	45.3	44.4
60	152	235	5906	39.7	41.3	40.5
55	140	232	5440	36.3	37.7	37.0
50	127	229	4935	32.7	34.0	33.4
45	114	225	4430	29.2	30.3	29.8
40	102	221	3964	26.0	27.0	26.5
35	89	216	3458	22.6	23.6	23.1
30	76	210	2953	19.5	20.2	19.8
25	63	203	2448	16.3	16.9	16.6
20	51	195	1982	13.4	13.9	13.6
15	38	184	1477	10.4	10.7	10.6
10	25	169	971	7.2	7.4	7.3

Dimming levels table	environmental temperature: 5°C
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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	9870	71.2	73.0	72.1
95	241	252	9364	66.9	68.5	67.7
90	229	250	8898	62.9	64.5	63.7
85	216	248	8393	58.7	60.2	59.4
80	203	246	7888	54.7	55.9	55.3
75	191	244	7421	51.0	52.2	51.6
70	178	241	6916	47.1	48.2	47.7
65	165	238	6411	43.3	44.3	43.8
60	152	235	5906	39.6	40.5	40.0
55	140	232	5440	36.2	37.0	36.6
50	127	229	4935	32.6	33.4	33.0
45	114	225	4430	29.2	29.8	29.5
40	102	221	3963	26.0	26.6	26.3
35	89	216	3458	22.7	23.2	23.0
30	76	210	2953	19.5	19.9	19.7
25	64	204	2487	16.6	16.9	16.8
20	51	195	1982	13.5	13.8	13.6
15	38	184	1477	10.5	10.7	10.6
10	25	169	971	7.2	7.3	7.2

Photometric test report

Family Streetlight 21 mini LED	Order number: 5XE2M31Y08JB EAN: 4058352923740	LP number 59158_222
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Dimming levels table	environmental temperature: 15°C	siteco
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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	9870	71.7	74.8	73.2
95	241	252	9365	67.3	70.1	68.7
90	229	250	8899	63.2	65.8	64.5
85	216	248	8394	59.1	61.4	60.2
80	203	246	7889	54.9	57.0	56.0
75	190	243	7383	50.8	52.8	51.8
70	178	241	6917	47.3	49.1	48.2
65	165	238	6412	43.3	45.1	44.2
60	152	235	5907	39.6	41.1	40.4
55	140	232	5440	36.2	37.6	36.9
50	127	229	4935	32.6	33.8	33.2
45	114	225	4430	29.2	30.2	29.7
40	102	221	3964	26.0	26.9	26.4
35	89	216	3459	22.7	23.5	23.1
30	76	210	2953	19.4	20.1	19.8
25	63	203	2448	16.3	16.9	16.6
20	51	195	1982	13.5	13.9	13.7
15	38	184	1477	10.4	10.7	10.6
10	25	169	971	7.1	7.4	7.2

Photometric test report

Family Streetlight 21 mini LED	Order number: 5XE2M31Y08JB EAN: 4058352923740	LP number 59158_222
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Luminousfluxs table **sITeco**

Temperature °C	Luminous flux lm	Power consumption W
25.0	9870.0	72.5
5.0	9870.0	71.2
15.0	9870.0	71.7