

## Photometric test report

**Family**  
**Streetlight 21 midi LED**

**Order number: 5XE3E61G08NB**  
**EAN: 4058352729052**

**LP number**  
**59079\_98**



<b>Version</b>	post-top or side-entry mounting
<b>Optic</b>	asymmetric, wide distribution (STW1.0a G)
<b>Cover</b>	toughened safety glass
<b>Lamps</b>	LED 2700 K   CRI ≥ 70
<b>Controlgear</b>	ECG SITECO iQ
<b>Rated values</b>	Net luminous flux = 20820 lm Power consumption = 155.5 W Luminous efficacy = 133.9 lm/W

**serial**  
**documentation**  
**23.08.2022**

**siteco**

**Luminous intensity in cd/klm**

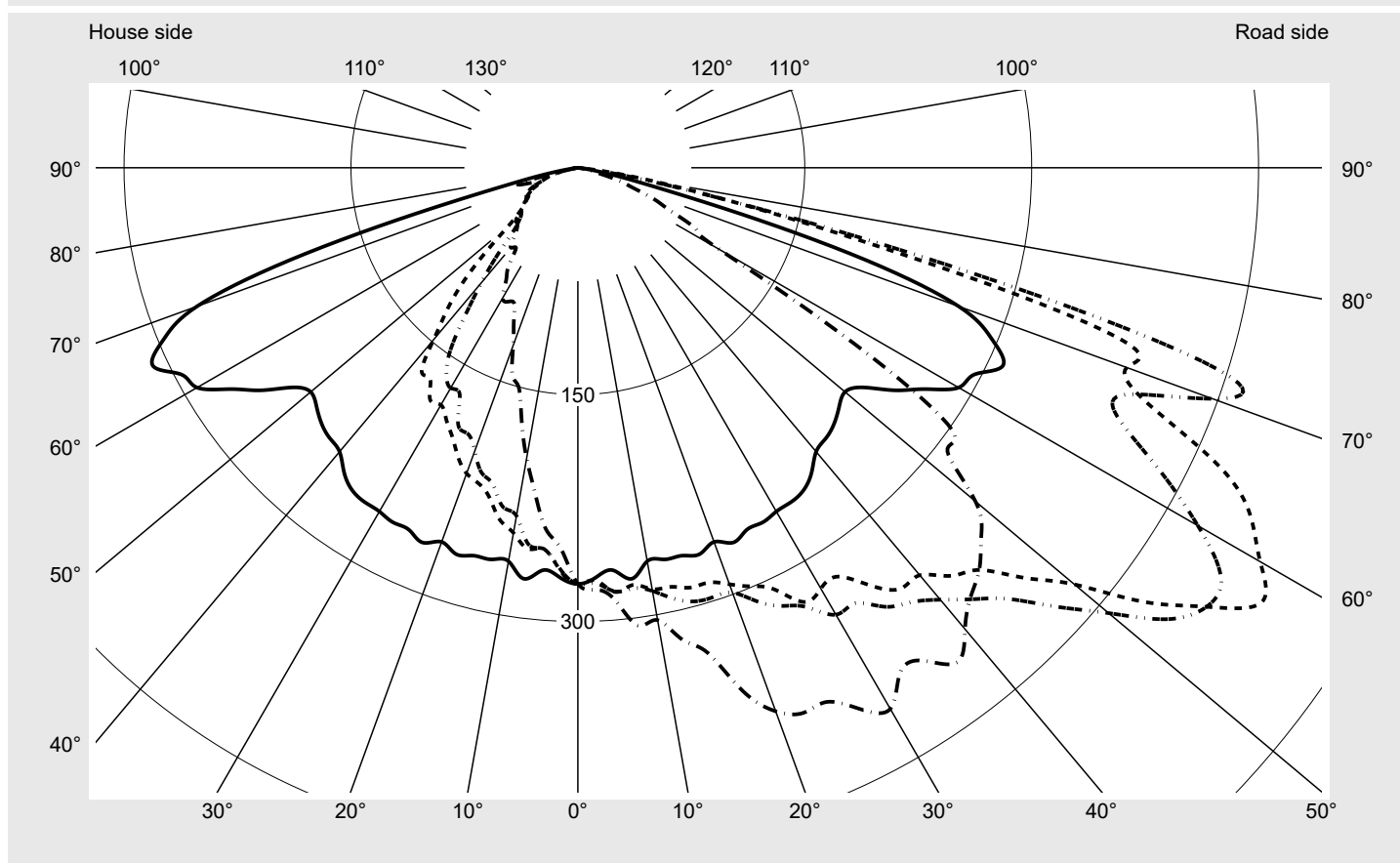
**C180-0**

**C200-20**

**C205-25**

**C270-90**

**Imax: 535 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°	486.3
Imax 80°	49.2
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

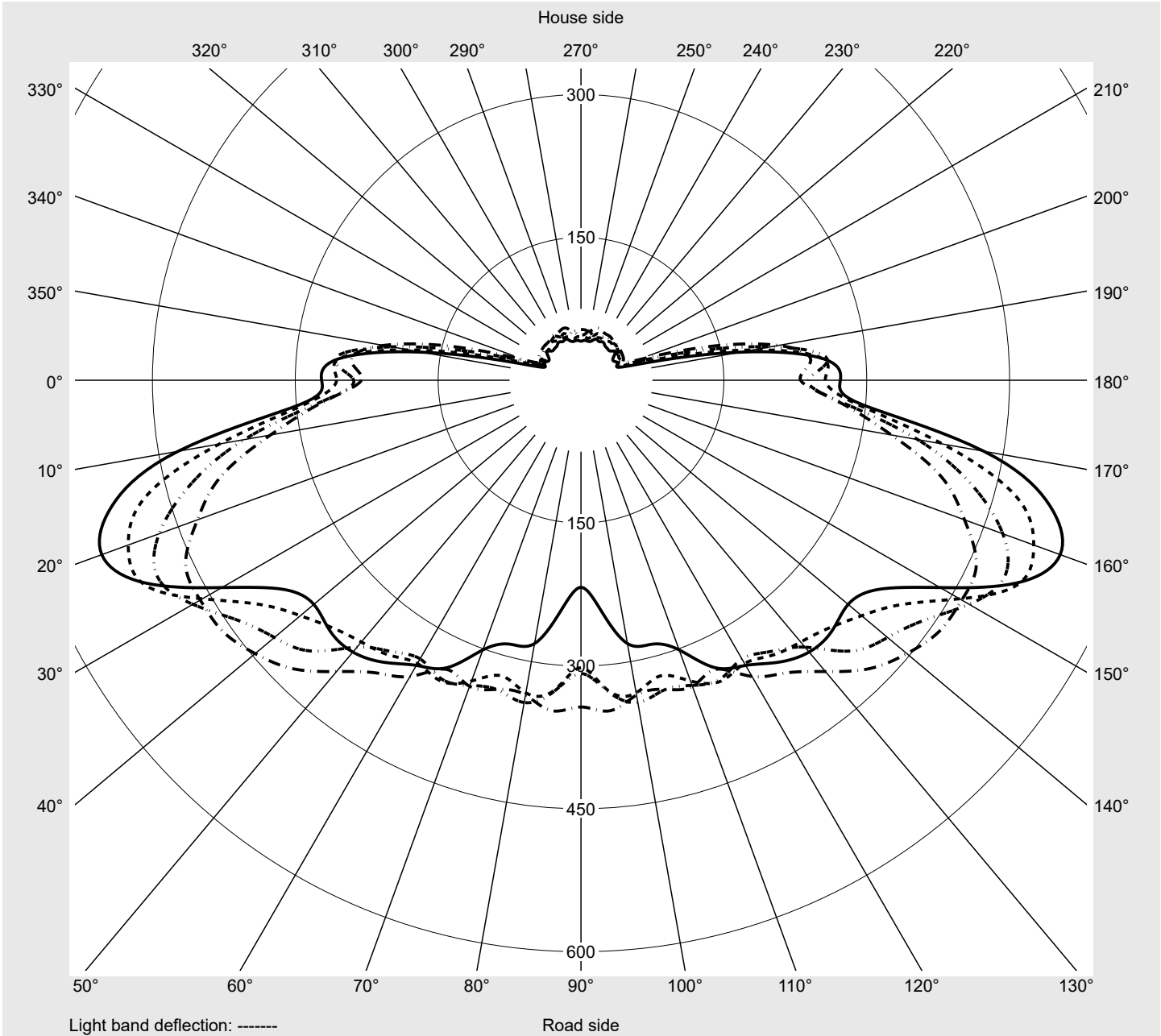
### Measurement conditions

DIN EN 13032 and DIN 5032

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**Envelope curve in cd/klm**      **KMK 57.5°**    **KMK 55°**    **KMK 52.5°**    **KMK 50°**      **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° 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°	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2
2,5°	271.1	272.6	274.2	272.4	273.1	275.0	271.7	272.5	277.2	276.0	276.0	276.0	273.8
5,0°	267.1	272.9	275.2	280.1	281.5	281.2	280.8	282.7	283.1	284.1	282.6	285.7	289.7
7,5°	274.1	279.0	277.5	278.4	278.2	280.5	282.2	280.1	280.7	279.4	280.1	282.2	287.0
10,0°	264.1	267.7	274.1	281.5	282.9	284.1	284.6	289.0	288.4	289.8	289.4	296.1	298.5
12,5°	265.2	273.1	281.9	286.0	283.8	291.7	297.8	297.4	299.9	302.2	305.4	304.8	305.6
15,0°	265.5	268.6	273.1	278.4	287.3	296.8	296.7	300.7	302.2	302.6	306.1	317.4	327.7
17,5°	267.8	273.0	278.7	286.4	287.5	297.6	312.8	307.7	310.5	319.9	331.7	332.0	337.4
20,0°	263.2	276.0	283.2	285.6	293.0	298.9	314.1	316.9	322.0	337.8	350.9	349.4	357.5
22,5°	268.2	277.3	286.1	293.7	299.5	310.4	324.4	326.9	342.4	343.6	356.1	369.0	375.1
25,0°	264.1	279.2	290.5	304.6	307.6	319.6	332.9	339.3	354.0	370.6	376.6	388.5	394.7
27,5°	264.4	278.9	292.5	301.1	323.7	327.4	350.6	352.7	365.4	382.4	390.1	396.0	398.1
30,0°	262.4	282.1	299.4	304.0	321.3	341.2	351.9	364.5	376.7	390.8	402.8	403.1	399.6
32,5°	262.1	278.2	296.7	315.0	320.5	341.4	361.3	372.4	390.8	396.6	408.5	414.4	410.7
35,0°	260.2	274.8	293.4	320.6	337.1	354.3	370.4	374.9	395.6	416.3	417.7	425.9	434.6
37,5°	253.9	269.5	301.7	327.7	350.7	362.0	373.6	396.8	412.7	434.7	432.1	435.0	433.6
40,0°	245.1	278.1	306.0	330.0	351.7	372.8	391.4	402.6	422.5	443.3	435.7	438.1	439.9
42,5°	242.6	268.1	310.3	337.6	365.9	386.9	401.8	431.6	446.3	442.4	453.9	429.3	424.6
45,0°	239.5	273.8	302.3	342.4	376.0	403.2	431.8	441.1	452.0	463.2	443.3	420.5	405.7
47,5°	234.2	273.4	316.7	354.5	401.5	429.6	443.6	448.8	453.7	445.8	421.4	404.1	379.3
50,0°	230.6	273.9	331.1	391.8	428.6	458.0	461.6	459.4	446.6	428.3	399.3	375.2	359.2
52,5°	238.6	277.2	359.1	425.0	471.4	490.3	470.6	439.6	420.2	402.0	365.9	347.7	337.9
55,0°	256.6	291.5	385.6	473.5	505.9	506.7	459.0	410.7	384.7	368.1	358.8	352.1	343.4
57,5°	272.4	297.3	429.5	509.8	535.5	504.1	435.4	382.6	366.2	372.5	372.6	361.5	345.8
60,0°	290.7	312.9	440.7	516.1	520.9	473.3	391.3	379.2	399.9	420.5	391.2	362.4	336.3
62,5°	295.8	319.6	438.3	511.2	501.8	433.9	373.9	424.8	468.3	466.9	396.4	312.7	244.7
65,0°	310.0	306.1	414.0	482.8	468.6	395.4	406.6	503.6	507.9	477.9	351.8	231.9	136.1
67,5°	296.3	284.8	343.3	418.8	408.3	391.9	456.6	515.0	519.3	406.7	244.9	142.9	85.5
70,0°	267.9	221.9	267.0	347.6	386.2	446.6	482.2	486.3	474.1	299.8	141.0	105.2	59.3
72,5°	188.3	130.0	180.7	283.4	375.3	444.0	418.1	427.9	352.8	173.7	109.3	73.5	42.6
75,0°	79.5	49.5	103.3	171.0	226.3	273.0	234.3	258.1	188.4	90.8	79.5	53.3	28.4
77,5°	32.8	26.1	45.5	68.8	109.2	112.3	72.0	72.0	64.4	51.6	54.2	38.7	20.2
80,0°	12.7	11.2	13.8	29.0	49.2	38.8	18.1	12.1	17.2	27.4	33.2	21.4	13.7
82,5°	3.2	2.9	2.9	5.3	16.4	9.5	4.8	5.8	4.2	4.2	8.1	8.7	8.6
85,0°	1.0	0.7	1.0	1.2	1.0	1.3	1.2	1.3	1.3	1.2	1.1	1.3	1.4
87,5°	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.2	0.3	0.1	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

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

**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°
$\gamma$	Luminous intensity in cd/klm												
0,0°	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2
2,5°	275.4	276.4	275.8	278.7	278.6	279.2	271.9	270.2	267.9	266.6	265.7	265.4	263.3
5,0°	286.6	286.7	285.9	286.3	284.1	287.4	264.7	262.8	256.2	253.3	253.1	251.8	249.4
7,5°	296.6	297.2	303.1	302.6	302.8	305.2	270.5	262.1	259.5	254.0	251.0	248.1	242.3
10,0°	301.8	296.6	299.1	304.9	306.9	303.6	259.4	258.2	251.7	245.1	233.7	230.0	225.1
12,5°	309.7	314.4	316.9	312.5	316.6	319.6	255.9	247.6	242.0	238.3	229.5	217.0	207.4
15,0°	330.0	333.2	335.6	336.4	331.8	332.1	257.5	245.9	237.1	225.7	216.8	209.9	200.7
17,5°	340.4	350.7	346.9	351.7	356.5	362.7	255.8	243.9	231.9	218.7	211.5	199.8	188.0
20,0°	362.8	363.2	373.1	382.4	380.6	382.4	252.3	241.2	228.1	215.1	199.2	189.6	172.4
22,5°	387.9	383.3	388.4	391.7	392.5	390.0	253.3	235.4	220.1	206.9	190.3	176.2	163.6
25,0°	395.3	398.5	402.1	400.7	402.0	389.6	250.3	227.6	210.8	196.3	187.2	166.5	152.4
27,5°	401.7	407.5	403.6	409.3	400.9	403.3	260.7	230.3	210.7	188.2	169.1	157.2	146.2
30,0°	413.5	413.1	416.0	405.9	412.5	413.1	252.2	228.6	208.9	181.1	168.2	150.9	126.5
32,5°	416.5	415.7	415.4	407.1	400.4	396.3	250.2	222.7	203.8	181.8	161.7	133.9	105.2
35,0°	424.4	420.6	411.8	403.2	413.5	397.8	239.8	214.2	199.1	170.3	146.6	110.2	83.9
37,5°	425.9	417.6	417.5	409.3	406.8	412.1	226.9	213.4	196.8	169.6	121.4	85.3	67.5
40,0°	424.1	425.5	404.9	403.6	392.5	398.2	225.0	212.7	194.7	148.3	99.2	71.0	64.3
42,5°	423.2	393.4	395.9	380.3	376.0	384.5	217.5	213.5	183.3	128.6	79.8	58.6	62.0
45,0°	389.6	380.7	368.6	371.4	374.3	375.4	224.9	214.4	166.7	108.0	62.0	58.1	54.8
47,5°	370.2	345.8	351.5	356.1	365.4	361.7	224.3	217.2	151.3	82.7	53.5	53.3	57.7
50,0°	334.9	342.1	336.0	335.7	348.4	343.1	242.2	210.6	134.8	60.0	49.0	50.8	51.6
52,5°	346.2	341.0	336.8	343.7	328.2	308.0	259.4	202.0	112.3	49.3	46.8	46.3	48.4
55,0°	348.5	336.1	321.4	333.3	327.1	301.8	255.3	183.3	89.9	43.5	43.5	43.4	45.5
57,5°	333.1	301.4	287.0	280.8	243.0	217.5	256.1	169.8	70.2	40.4	42.6	39.9	41.4
60,0°	279.1	240.3	177.8	140.7	115.6	108.0	237.5	150.4	54.0	37.7	41.5	39.6	41.3
62,5°	178.1	124.1	98.0	100.8	85.8	88.1	239.1	140.0	43.7	36.8	36.2	37.1	37.9
65,0°	99.1	83.2	78.4	82.9	69.1	68.0	241.7	135.3	46.2	32.9	35.4	35.4	34.2
67,5°	67.6	65.4	58.0	59.1	52.8	55.0	240.2	129.6	40.5	27.7	30.8	32.7	30.2
70,0°	54.9	49.1	44.3	41.8	38.6	38.8	219.4	108.6	29.5	25.1	24.9	26.1	25.9
72,5°	37.5	35.8	30.6	29.5	27.8	29.1	182.7	84.2	24.7	21.6	21.1	20.7	20.3
75,0°	27.1	24.4	19.7	18.6	15.6	14.7	95.9	46.9	22.2	15.0	16.2	15.3	14.5
77,5°	16.0	13.2	12.0	10.3	11.8	9.8	39.9	12.4	10.7	9.4	9.8	10.7	10.3
80,0°	9.9	6.2	5.3	5.1	4.8	4.8	13.7	6.5	4.8	4.8	4.6	5.9	6.2
82,5°	3.9	2.2	1.7	1.8	1.9	1.6	2.3	2.3	2.4	2.4	2.2	2.5	3.4
85,0°	0.8	0.3	0.5	0.4	0.5	0.7	1.0	0.7	0.8	0.7	0.7	0.8	0.6
87,5°	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	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

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<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°	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	275.2	0.4	0.4
2,5°	260.8	259.8	256.9	253.8	251.0	252.2	251.9	249.9	250.5	250.2	252.4	3.2	3.6
5,0°	248.3	248.0	247.6	244.7	243.8	240.8	239.7	238.1	240.3	238.3	240.2	6.3	10.0
7,5°	237.6	230.9	229.2	228.6	224.8	222.0	219.4	218.6	215.7	216.7	216.9	9.4	19.3
10,0°	221.3	214.6	208.2	202.9	198.7	198.8	199.0	198.0	198.2	198.1	195.2	12.2	31.5
12,5°	203.7	196.8	192.2	183.7	183.6	182.0	181.0	176.7	174.1	172.2	171.5	15.0	46.5
15,0°	186.5	178.0	176.2	169.6	166.7	160.1	155.8	154.1	151.7	150.9	150.6	17.7	64.2
17,5°	176.1	167.1	157.8	153.5	148.4	147.6	144.8	144.9	145.1	146.7	143.8	20.7	84.8
20,0°	164.3	155.9	149.9	146.2	140.9	137.2	131.6	130.4	128.3	126.9	124.9	23.6	108.5
22,5°	154.2	146.7	140.2	130.7	122.7	116.4	112.1	109.0	111.6	108.2	110.7	26.4	134.9
25,0°	142.1	130.1	120.6	106.7	103.3	95.5	98.8	96.4	97.5	97.4	99.3	29.1	164.0
27,5°	123.7	109.6	92.1	90.5	86.8	87.4	88.0	94.3	96.2	99.4	99.8	31.7	195.7
30,0°	104.3	88.4	83.4	81.7	84.9	91.2	91.8	95.1	93.2	95.8	99.4	34.4	230.1
32,5°	81.6	73.6	73.0	73.4	77.3	81.3	81.6	84.1	86.0	82.6	88.3	36.5	266.6
35,0°	69.6	66.2	65.4	69.0	64.3	66.1	67.8	70.2	73.5	73.0	80.2	38.6	305.2
37,5°	70.3	69.8	68.3	63.8	63.8	59.8	62.3	66.0	64.0	64.6	67.3	41.0	346.2
40,0°	65.5	66.3	67.3	63.3	62.7	67.0	69.6	69.2	66.5	65.0	68.9	43.2	389.4
42,5°	64.0	62.1	68.3	59.5	72.1	75.8	71.4	68.4	64.4	63.6	62.6	45.0	434.4
45,0°	58.5	58.8	65.2	59.8	62.5	64.7	64.0	60.4	60.0	57.6	57.0	46.3	480.6
47,5°	53.8	57.1	57.5	58.4	56.9	59.5	56.5	57.2	57.7	57.2	54.4	47.2	527.9
50,0°	52.4	52.7	52.9	54.9	55.1	55.6	57.4	56.4	52.2	52.9	53.2	48.3	576.2
52,5°	50.2	51.8	51.5	52.5	53.4	50.3	52.2	48.7	52.1	48.7	47.6	49.5	625.7
55,0°	47.0	47.2	50.2	49.9	48.0	48.9	47.8	47.7	44.7	45.8	45.7	50.6	676.3
57,5°	46.6	43.4	43.3	44.0	46.3	44.9	46.0	42.7	41.6	42.0	41.1	50.5	726.8
60,0°	39.7	40.8	39.5	40.4	40.2	41.0	40.9	42.6	41.2	41.2	39.3	48.0	774.8
62,5°	36.9	38.6	35.2	36.9	36.9	36.9	37.6	37.2	37.3	37.5	36.1	45.8	820.6
65,0°	33.7	36.6	36.0	30.8	34.2	31.7	33.6	34.0	34.8	34.2	33.8	43.9	864.4
67,5°	30.7	30.9	31.1	30.5	30.9	30.4	30.0	32.6	33.0	32.5	32.0	40.1	904.6
70,0°	24.9	27.9	27.6	27.1	28.7	24.9	27.3	28.1	30.3	29.7	29.0	35.7	940.2
72,5°	20.6	22.8	23.9	24.1	24.1	24.0	23.7	24.0	28.1	31.5	34.3	29.2	969.4
75,0°	16.2	18.4	21.1	21.3	20.4	20.7	19.2	19.2	26.6	34.8	38.2	17.7	987.1
77,5°	10.5	11.5	15.4	16.1	16.5	15.0	14.2	12.3	12.7	7.0	5.2	8.0	995.1
80,0°	7.0	7.3	9.5	11.3	13.1	11.1	7.6	9.0	5.4	1.0	1.0	3.5	998.6
82,5°	3.1	4.6	5.5	6.4	6.3	4.6	4.5	3.8	1.9	0.6	0.3	1.2	999.7
85,0°	0.9	0.9	0.9	1.0	0.9	0.8	0.7	0.7	0.2	0.1	0.0	0.2	1000.0
87,5°	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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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	20820	155.5	162.3	158.9
95	241	252	19754	145.2	151.4	148.3
90	229	250	18771	136.1	141.8	139.0
85	216	248	17705	126.6	131.8	129.2
80	203	246	16640	117.3	122.2	119.8
75	190	243	15574	108.4	112.9	110.6
70	178	241	14590	100.4	104.5	102.4
65	165	238	13525	92.0	95.8	93.9
60	152	235	12459	83.7	87.1	85.4
55	140	232	11476	76.4	79.4	77.9
50	127	229	10410	68.6	71.4	70.0
45	114	225	9344	61.1	63.5	62.3
40	102	221	8361	54.2	56.4	55.3
35	89	216	7295	46.9	48.8	47.8
30	76	210	6230	39.8	41.3	40.6
25	63	203	5164	32.8	34.0	33.4
20	51	195	4180	26.6	27.6	27.1
15	38	184	3115	20.0	20.7	20.4
10	25	169	2049	13.6	14.1	13.8
9	23	166	1885	12.6	13.0	12.8

<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	20820	151.2	157.6	154.4
95	241	252	19754	141.6	147.7	144.6
90	229	250	18771	133.0	138.7	135.8
85	216	248	17705	124.0	129.2	126.6
80	203	246	16640	115.3	120.1	117.7
75	190	243	15574	106.8	111.3	109.0
70	178	241	14590	99.2	103.2	101.2
65	165	238	13525	91.0	94.8	92.9
60	152	235	12459	83.0	86.4	84.7
55	140	232	11476	75.8	78.9	77.4
50	127	229	10410	68.3	71.0	69.6
45	114	225	9344	60.9	63.3	62.1
40	102	221	8361	54.1	56.3	55.2
35	89	216	7295	46.8	48.8	47.8
30	76	210	6230	39.8	41.3	40.6
25	63	203	5164	32.9	34.1	33.5
20	51	195	4180	26.7	27.7	27.2
15	38	184	3115	20.1	20.8	20.5
10	25	169	2049	13.8	14.2	14.0
9	23	166	1885	12.7	13.2	13.0

## Photometric test report

<b>Family</b> Streetlight 21 midi LED	<b>Order number: 5XE3E61G08NB</b> <b>EAN: 4058352729052</b>	<b>LP number</b> 59079_98
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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] start of lifetime	Power consumption [W] end of lifetime	Power consumption [W] average
100	254	254	20820	152.9	159.4	156.2
95	241	252	19754	143.1	149.0	146.0
90	229	250	18771	134.3	139.8	137.0
85	216	248	17705	125.1	130.2	127.6
80	203	246	16640	116.1	120.8	118.4
75	190	243	15574	107.5	111.8	109.6
70	178	241	14590	99.6	103.6	101.6
65	165	238	13525	91.4	95.0	93.2
60	152	235	12459	83.3	86.6	84.9
55	140	232	11476	76.0	79.0	77.5
50	127	229	10410	68.4	71.1	69.8
45	114	225	9344	60.9	63.3	62.1
40	102	221	8361	54.1	56.2	55.2
35	89	216	7295	46.8	48.7	47.8
30	76	210	6230	39.7	41.2	40.4
25	63	203	5164	32.8	34.0	33.4
20	51	195	4180	26.6	27.6	27.1
15	38	184	3115	20.1	20.8	20.5
10	25	169	2049	13.6	14.1	13.8
9	23	166	1885	12.6	13.1	12.8

**Photometric test report**

<b>Family</b> Streetlight 21 midi LED	<b>Order number: 5XE3E61G08NB</b> <b>EAN: 4058352729052</b>	<b>LP number</b> <b>59079_98</b>
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**Luminousfluxs table** **siteco**

Temperature °C	Luminous flux lm	Power consumption W
25.0	20820.0	155.5
5.0	20820.0	151.2
15.0	20820.0	152.9