

Photometric test report

Family
Streetlight 21 mini LED



Order number: 5XE2R31D08HB
EAN: 4069025149220

Version

Optic

Cover

Lamps

Controlgear

Rated values

post-top or side-entry mounting

direct, asymmetric wide distribution
P08B001

toughened safety glass

LED 3000 K | CRI ≥ 70

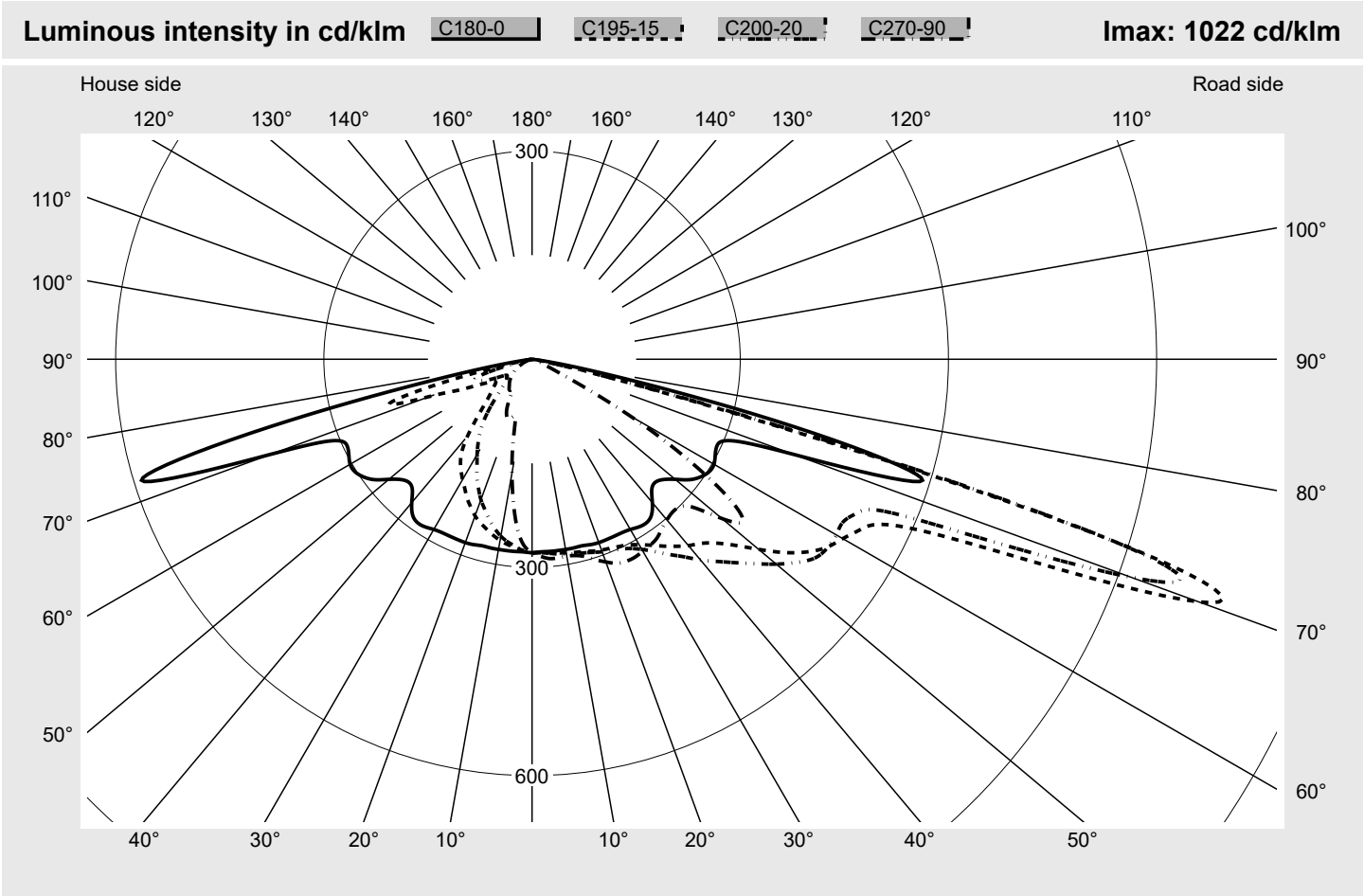
ECG SITECO iQ

Net luminous flux = 8210 lm
Power consumption = 70.9 W
Luminous efficacy = 115.8 lm/W

LP number
59535_317

serial
documentation
18.01.2024

siteco



Luminaire output ratios		Luminous intensity class acc. to EN13201-2	
Eta	100.0%	Class:	G3
Eta 0° - 90°	100.0%	Imax 70°	1022.3
Eta 90° - 180°	0.0%	Imax 80°	56.2
		Imax 90°	0.0
		Imax >90°	0.0
		Imax >95°	0.0
Measurement conditions			
DIN EN 13032 and DIN 5032			

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Order number: **5XE2R31D08HB**
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Envelope curve in cd/klm

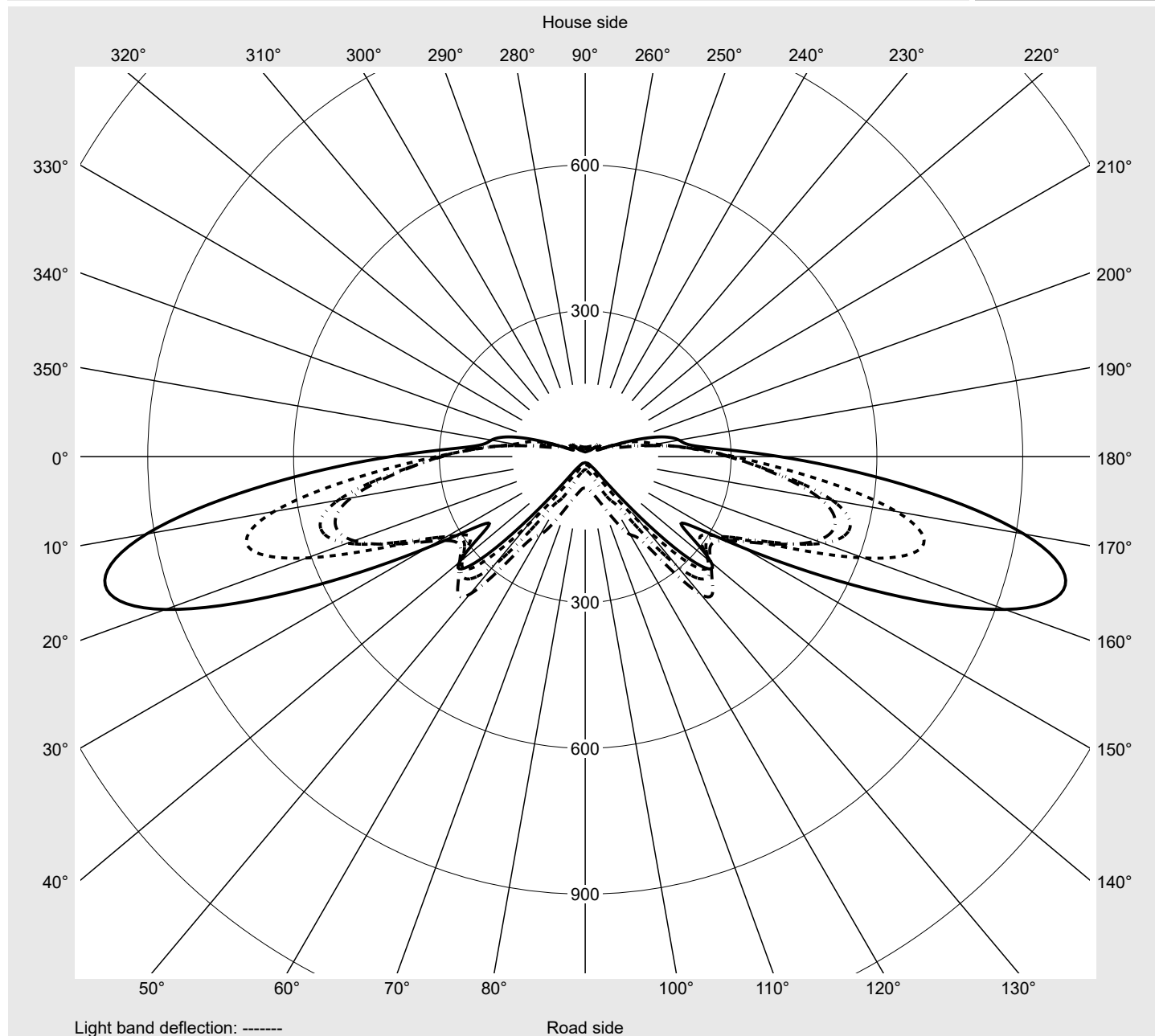
KMK 70°

KMK 67.5°

KMK 65°

KMK 62.5°

siteco



Photometric test report

Family Streetlight 21 mini LED	Order number: 5XE2R31D08HB EAN: 4069025149220	LP number 59535_317
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 mini LED	Order number: 5XE2R31D08HB EAN: 4069025149220	LP number 59535_317
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Table of values for luminous intensities	Maximum luminous intensity	siteco
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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 mini LED				Order number: 5XE2R31D08HB EAN: 4069025149220								LP number 59535_317			
Table of values for luminous intensities												Maximum luminous intensity		sīteco	
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		

office	industry	traffic	retail	public	sports
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Photometric test report

Family Streetlight 21 mini LED	Order number: 5XE2R31D08HB EAN: 4069025149220	LP number 59535_317
Dimming levels table		environmental temperature: 25°C
		sit eco

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	8210	70.9	75.1	73.0
95	241	252	7790	65.9	69.9	67.9
90	229	250	7402	61.6	65.2	63.4
85	216	248	6982	57.1	60.5	58.8
80	203	246	6562	52.8	55.8	54.3
75	190	243	6141	48.7	51.5	50.1
70	178	241	5753	45.0	47.5	46.2
65	165	238	5333	41.1	43.5	42.3
60	152	235	4913	37.4	39.5	38.4
55	140	232	4525	34.2	36.0	35.1
50	127	229	4105	30.7	32.3	31.5
45	114	225	3685	27.5	28.8	28.2
40	102	221	3297	24.4	25.6	25.0
35	89	216	2877	21.2	22.3	21.8
30	76	210	2457	18.2	19.1	18.6
25	63	203	2036	15.3	16.0	15.6
20	51	195	1648	12.7	13.3	13.0
15	38	184	1228	9.9	10.3	10.1
11	27	172	873	7.8	8.0	7.9

Dimming levels table			environmental temperature: 5°C			
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	8210	68.9	71.9	70.4
95	241	252	7790	64.4	67.1	65.8
90	229	250	7402	60.3	62.9	61.6
85	216	248	6982	56.1	58.4	57.2
80	203	246	6562	52.0	54.1	53.0
75	190	243	6142	48.0	50.0	49.0
70	178	241	5754	44.4	46.3	45.3
65	165	238	5333	40.8	42.4	41.6
60	152	235	4913	37.2	38.6	37.9
55	140	232	4525	33.9	35.3	34.6
50	127	229	4105	30.6	31.8	31.2
45	114	225	3685	27.3	28.3	27.8
40	102	221	3297	24.4	25.3	24.8
35	89	216	2877	21.2	22.1	21.6
30	76	210	2457	18.2	18.9	18.5
25	63	203	2036	15.4	15.9	15.6
20	51	195	1649	12.7	13.2	13.0
15	38	184	1228	9.9	10.2	10.0
11	27	172	873	8.0	8.1	8.0

Photometric test report

Family Streetlight 21 mini LED	Order number: 5XE2R31D08HB EAN: 4069025149220	LP number 59535_317
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	8210	69.7	72.8	71.2
95	241	252	7790	65.0	67.8	66.4
90	229	250	7402	60.8	63.5	62.2
85	216	248	6981	56.5	58.8	57.6
80	203	246	6561	52.4	54.4	53.4
75	191	244	6173	48.6	50.6	49.6
70	178	241	5753	44.6	46.4	45.5
65	165	238	5333	40.9	42.5	41.7
60	152	235	4913	37.3	38.7	38.0
55	140	232	4525	34.0	35.3	34.6
50	127	229	4105	30.6	31.8	31.2
45	114	225	3685	27.3	28.3	27.8
40	102	221	3297	24.3	25.2	24.8
35	89	216	2877	21.2	22.0	21.6
30	76	210	2456	18.2	18.8	18.5
25	64	204	2069	15.6	16.1	15.8
20	51	195	1648	12.7	13.1	12.9
15	38	184	1228	10.0	10.2	10.1
11	27	172	873	7.9	8.0	8.0

Photometric test report

Family Streetlight 21 mini LED	Order number: 5XE2R31D08HB EAN: 4069025149220	LP number 59535_317
Luminousfluxs table		siteco

Temperature °C	Luminous flux lm	Power consumption W
25.0	8210.0	70.9
5.0	8210.0	68.9
15.0	8210.0	69.7