

Photometric test report

Family Streetlight 21 midi LED



Order number: 5XE3M31D08NB
EAN: 4058352682715

LP number
59158_84

Version post-top or side-entry mounting
Optic asymmetric, wide distribution (ST1.0a G), Back Light Control (BLC)
Cover toughened safety glass
Lamps LED 3000 K | CRI ≥ 70
Controlgear ECG SITECO iQ
Rated values Net luminous flux = 20440 lm
 Power consumption = 155.5 W
 Luminous efficacy = 131.4 lm/W

serial
documentation
23.08.2022

siteco

Luminous intensity in cd/klm

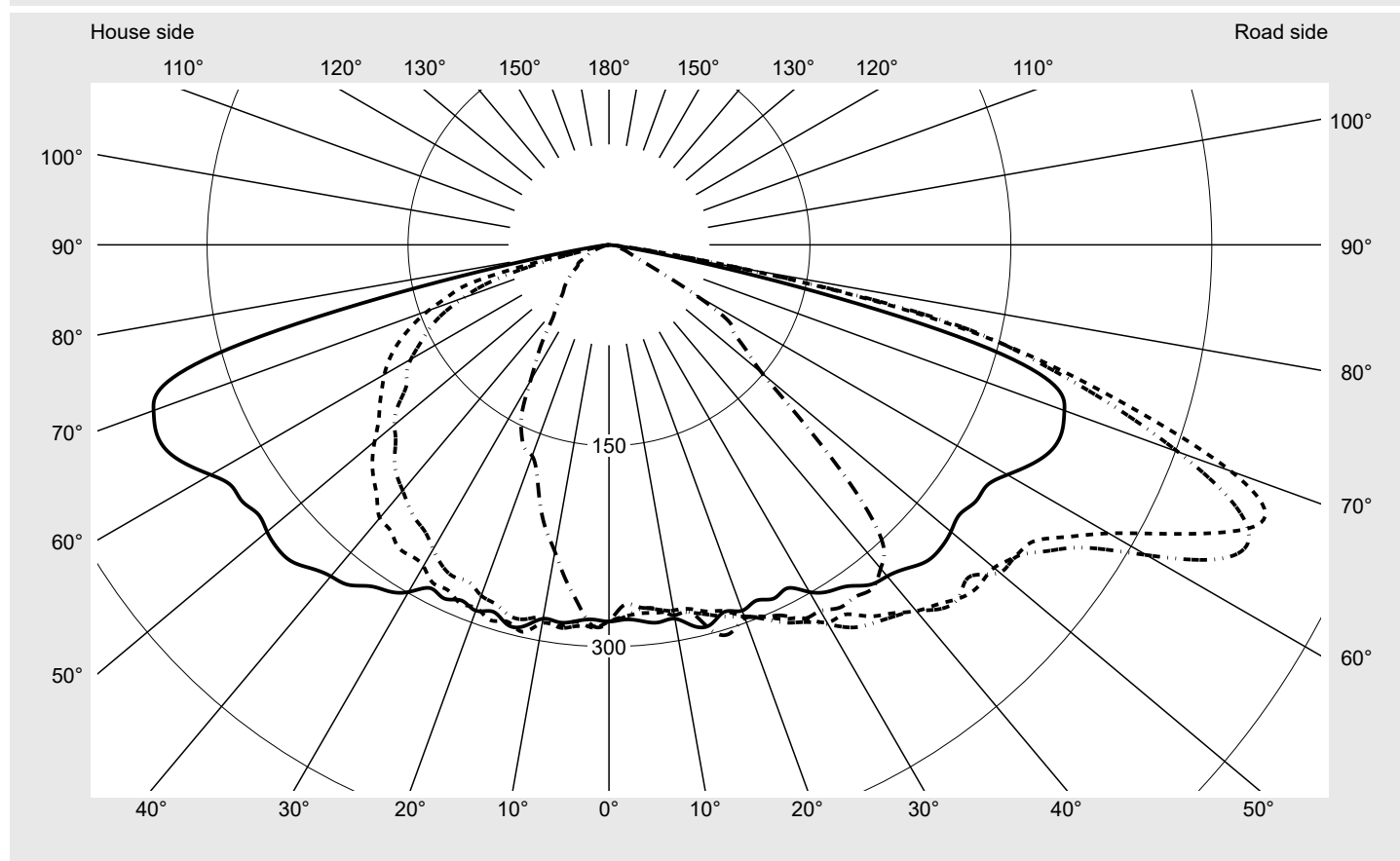
C180-0

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

Photometric test report

Family
Streetlight 21 midi LED

Order number: **5XE3M31D08NB**
EAN: **4058352682715**

LP number
59158_84

Envelope curve in cd/klm

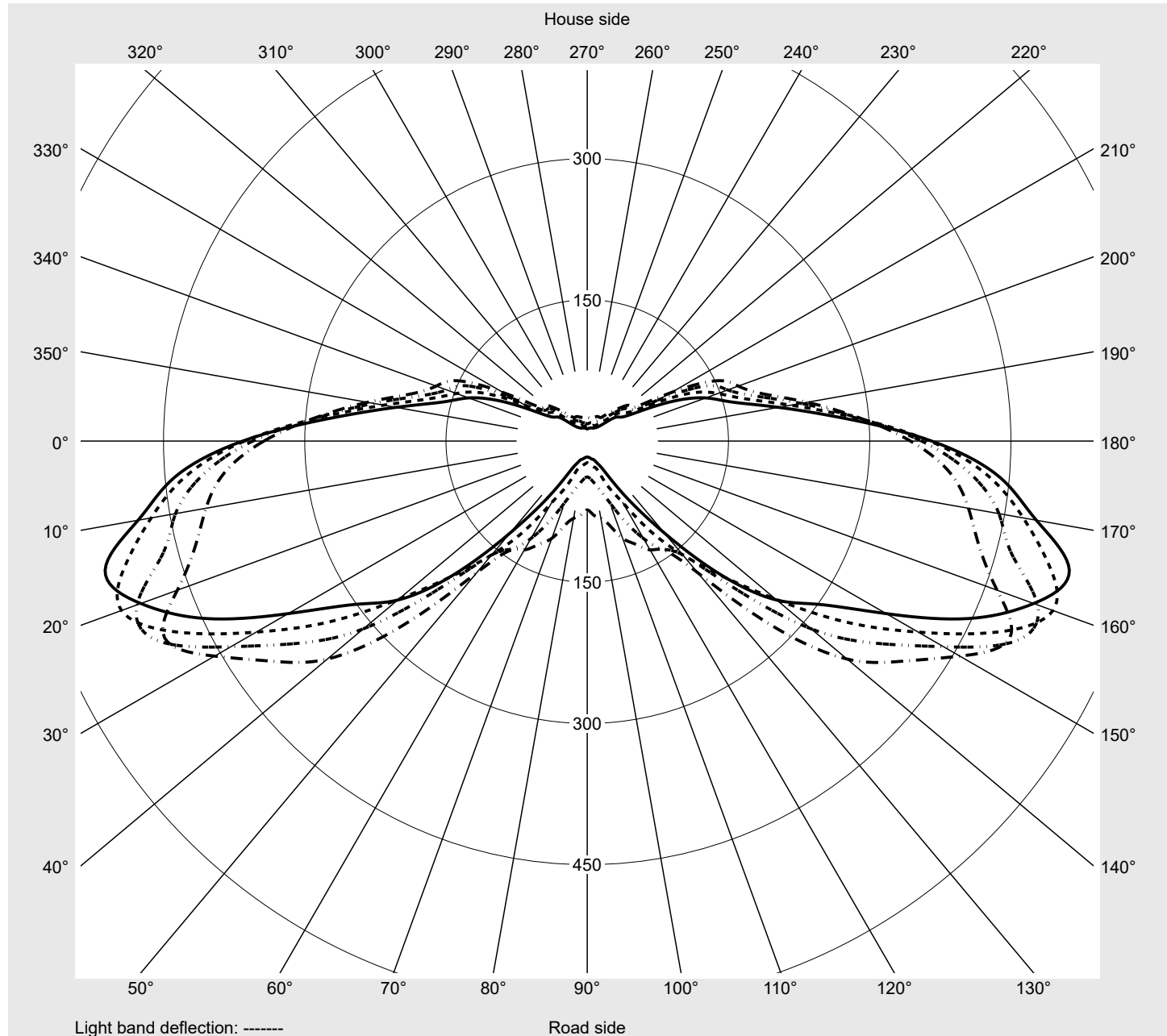
KMK 67.5°

KMK 65°

KMK 62.5°

KMK 60°

siteco



Photometric test report

Family Streetlight 21 midi LED	Order number: 5XE3M31D08NB EAN: 4058352682715	LP number 59158_84
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Table of values for luminous intensities	Maximum luminous intensity	siteco
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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

Photometric test report

Family Streetlight 21 midi LED		Order number: 5XE3M31D08NB EAN: 4058352682715										LP number 59158_84	
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°	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 midi LED		Order number: 5XE3M31D08NB EAN: 4058352682715										LP number 59158_84	
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 midi LED	Order number: 5XE3M31D08NB EAN: 4058352682715	LP number 59158_84
Dimming levels table		environmental temperature: 25°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	20440	155.5	162.3	158.9
95	241	252	19394	145.2	151.4	148.3
90	229	250	18428	136.1	141.8	139.0
85	216	248	17382	126.6	131.8	129.2
80	203	246	16336	117.4	122.2	119.8
75	190	243	15290	108.5	112.9	110.7
70	178	241	14324	100.5	104.6	102.6
65	165	238	13278	92.0	95.8	93.9
60	152	235	12232	83.8	87.1	85.4
55	140	232	11266	76.5	79.5	78.0
50	127	229	10220	68.7	71.5	70.1
45	114	225	9174	61.1	63.6	62.4
40	102	221	8208	54.3	56.5	55.4
35	89	216	7162	47.0	48.9	48.0
30	76	210	6116	39.8	41.3	40.6
25	63	203	5070	32.8	34.0	33.4
20	51	195	4104	26.6	27.6	27.1
15	38	184	3058	20.0	20.8	20.4
10	25	169	2012	13.6	14.1	13.8
9	23	166	1851	12.6	13.1	12.8

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	20440	151.3	157.7	154.5
95	241	252	19394	141.7	147.7	144.7
90	229	250	18428	133.1	138.7	135.9
85	216	248	17382	124.1	129.2	126.6
80	203	246	16336	115.4	120.2	117.8
75	190	243	15290	106.9	111.3	109.1
70	178	241	14324	99.2	103.3	101.2
65	165	238	13278	91.1	94.8	92.9
60	152	235	12232	83.1	86.5	84.8
55	140	232	11266	75.9	79.0	77.4
50	127	229	10220	68.3	71.1	69.7
45	114	225	9174	61.0	63.4	62.2
40	102	221	8208	54.2	56.4	55.3
35	89	216	7162	46.8	48.9	47.8
30	76	210	6116	39.8	41.3	40.6
25	63	203	5070	32.9	34.1	33.5
20	51	195	4104	26.7	27.7	27.2
15	38	184	3058	20.1	20.8	20.5
10	25	169	2012	13.8	14.2	14.0
9	23	166	1851	12.7	13.2	13.0

Photometric test report

Family Streetlight 21 midi LED	Order number: 5XE3M31D08NB EAN: 4058352682715	LP number 59158_84
Dimming levels table environmental temperature: 15°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	20440	153.0	159.4	156.2
95	241	252	19394	143.1	149.0	146.0
90	229	250	18428	134.3	139.8	137.0
85	216	248	17382	125.1	130.2	127.6
80	203	246	16336	116.2	120.9	118.6
75	190	243	15290	107.5	111.8	109.6
70	178	241	14324	99.7	103.7	101.7
65	165	238	13278	91.4	95.0	93.2
60	152	235	12232	83.3	86.6	84.9
55	140	232	11266	76.1	79.1	77.6
50	127	229	10220	68.4	71.1	69.8
45	114	225	9174	60.9	63.3	62.1
40	102	221	8208	54.2	56.2	55.2
35	89	216	7162	46.8	48.8	47.8
30	76	210	6116	39.8	41.2	40.5
25	63	203	5070	32.8	34.1	33.4
20	51	195	4104	26.6	27.6	27.1
15	38	184	3058	20.1	20.8	20.5
10	25	169	2012	13.7	14.1	13.9
9	23	166	1851	12.7	13.1	12.9

Photometric test report

Family Streetlight 21 midi LED	Order number: 5XE3M31D08NB EAN: 4058352682715	LP number 59158_84
Luminousfluxs table		siteco

Temperature °C	Luminous flux lm	Power consumption W
25.0	20440.0	155.5
5.0	20440.0	151.3
15.0	20440.0	153.0