

## Photometric test report

**Family**  
**Floodlight FL21 midi**

**Order number: 5XA7786F2C3A**  
**EAN: 4058352855867**

**LP number**  
**58550\_76**



<b>Version</b>	Mast bracket
<b>Optic</b>	asymmetric distribution PL61
<b>Cover</b>	toughened safety glass
<b>Lamps</b>	LED 3000 K   CRI ≥ 70
<b>Controlgear</b>	EVG-Smart Interface
<b>Rated values</b>	Net luminous flux = 35100 lm Power consumption = 271.6 W Luminous efficacy = 129.2 lm/W

**serial**  
**documentation**  
**06.07.2022**

**sITECO**

**Luminous intensity in cd/klm**

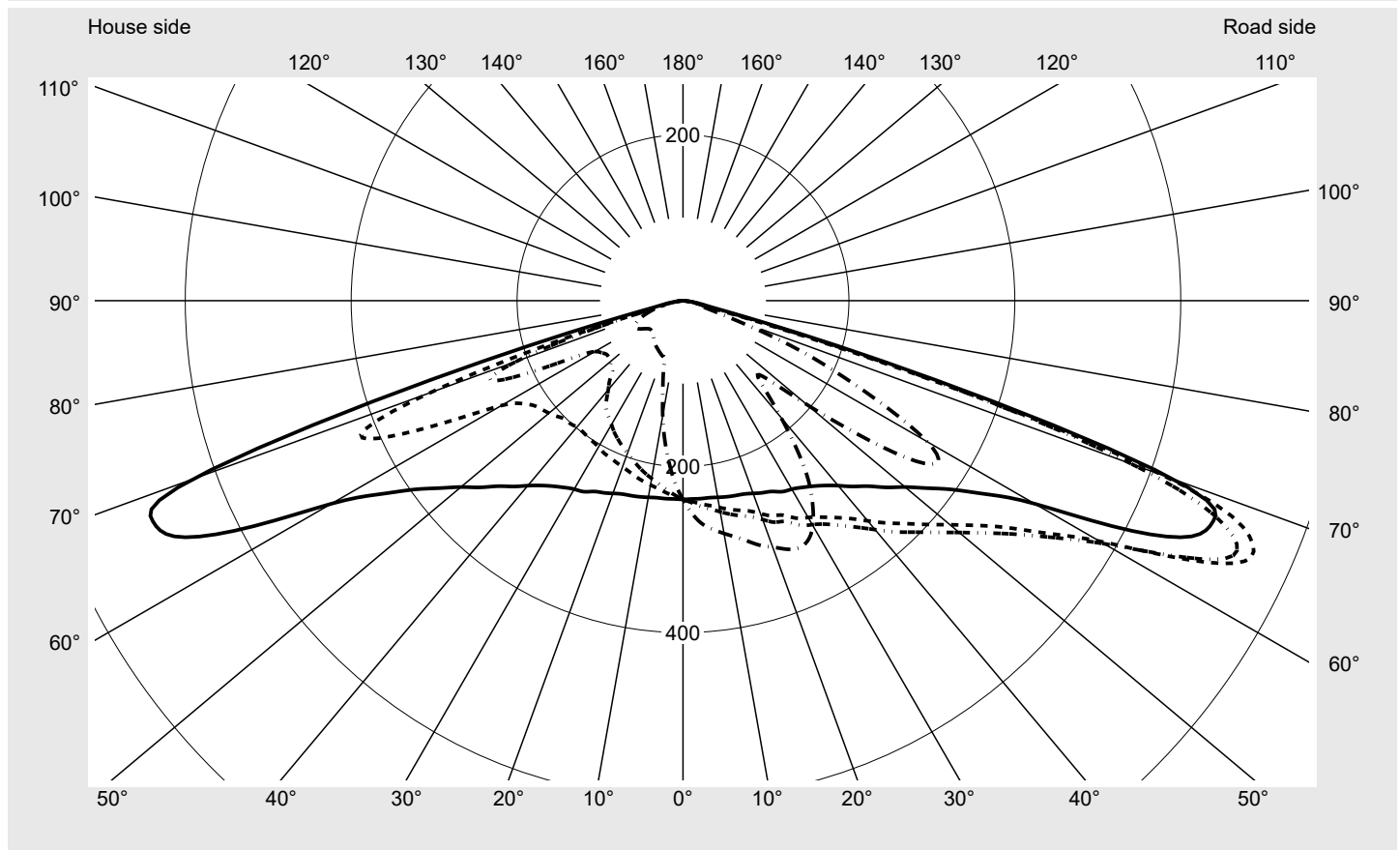
**C180-0**

**C190-10**

**C195-15**

**C270-90**

**Imax: 745 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°	640.5
Imax 80°	24.8
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 65°**    **KMK 62,5°**    **KMK 60°**    **KMK 57,5°**      **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°	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5
2,5°	239.2	240.6	242.2	243.7	245.4	247.0	248.5	249.7	250.8	251.8	252.8	253.7	254.4
5,0°	239.5	242.7	245.9	249.0	251.9	254.7	257.2	259.4	261.3	263.0	264.5	265.8	266.9
7,5°	239.6	244.5	249.0	253.2	257.1	260.7	264.0	266.7	269.0	270.9	272.5	273.9	275.0
10,0°	240.7	247.3	253.2	258.3	262.9	266.8	270.2	272.8	274.8	276.2	277.6	279.1	280.5
12,5°	242.1	250.3	257.5	263.6	268.7	272.8	276.1	278.5	280.3	281.7	282.9	284.2	285.5
15,0°	243.2	253.2	261.6	268.3	273.6	277.7	281.0	283.8	286.1	287.9	289.3	290.5	291.6
17,5°	244.4	256.2	265.8	273.1	278.6	282.6	286.0	288.9	291.7	294.1	296.3	298.1	299.7
20,0°	247.2	262.0	273.1	280.6	285.3	288.9	292.0	294.9	297.5	300.4	303.7	306.4	308.1
22,5°	250.6	267.7	280.5	289.0	293.0	295.6	299.1	302.4	305.2	308.2	312.1	315.5	317.9
25,0°	253.7	271.8	285.2	293.6	298.4	302.0	305.7	309.5	313.2	316.6	319.7	323.6	326.3
27,5°	259.5	280.4	295.5	304.9	310.5	314.1	316.1	318.8	322.5	326.2	329.4	331.8	333.4
30,0°	262.3	285.3	301.7	311.7	318.2	323.2	326.6	328.9	330.9	334.2	335.4	334.9	332.8
32,5°	266.9	291.7	309.3	319.4	325.5	330.3	334.7	338.2	339.3	338.9	336.5	331.7	325.8
35,0°	273.0	300.4	319.1	330.7	337.7	342.5	346.3	348.7	347.4	340.9	331.9	324.2	315.2
37,5°	280.8	310.7	331.0	344.1	352.2	356.8	359.5	358.9	351.7	339.1	323.9	313.3	300.6
40,0°	291.0	324.4	346.4	360.2	368.8	374.4	376.5	369.9	354.1	333.7	312.4	293.8	275.9
42,5°	303.8	340.0	363.4	378.0	386.3	391.3	391.2	378.8	354.2	323.4	294.1	267.2	243.1
45,0°	316.2	356.0	380.1	394.5	403.2	407.8	401.4	380.8	347.9	309.8	273.1	238.7	207.4
47,5°	333.1	374.5	399.2	413.4	421.6	424.7	412.0	378.8	338.2	294.3	248.5	208.9	176.1
50,0°	349.4	394.1	420.1	434.7	442.0	440.1	418.4	377.5	326.4	275.1	222.7	184.4	169.2
52,5°	371.1	416.7	444.9	459.9	464.5	452.4	419.9	370.6	310.9	252.5	204.0	186.7	195.6
55,0°	396.9	446.5	476.8	490.8	491.6	467.2	422.8	361.7	293.9	233.1	204.4	210.0	235.1
57,5°	434.2	490.3	522.2	531.6	524.1	485.2	423.4	351.0	274.1	222.1	219.9	252.9	291.6
60,0°	489.5	549.8	579.9	585.8	565.7	508.8	430.4	338.9	258.8	233.1	262.9	299.7	321.7
62,5°	593.3	647.0	670.9	665.5	624.4	544.2	440.8	335.5	273.5	278.1	304.7	316.3	310.1
65,0°	673.3	726.9	744.7	729.6	673.5	579.4	465.3	363.6	317.2	316.8	319.7	306.5	282.1
67,5°	692.3	734.5	738.2	706.3	642.7	556.8	463.7	382.3	347.7	336.9	316.9	279.9	236.1
70,0°	629.0	640.5	619.1	578.0	519.0	457.0	394.4	353.3	340.5	324.9	286.4	233.9	198.5
72,5°	327.9	325.8	291.9	301.0	323.1	314.1	287.3	268.5	257.1	233.5	204.7	182.0	158.1
75,0°	97.0	63.1	54.8	75.1	154.3	189.6	178.5	152.6	113.5	87.4	107.1	102.2	86.8
77,5°	32.8	28.1	25.1	25.4	52.2	80.6	76.8	38.5	23.7	25.5	35.7	35.5	32.3
80,0°	20.7	17.4	17.1	16.6	19.5	24.8	19.4	13.3	12.8	13.0	14.2	16.7	16.3
82,5°	10.1	9.1	9.8	10.2	9.5	9.2	8.9	7.5	7.6	7.7	7.4	8.2	8.6
85,0°	3.6	3.2	3.4	3.4	3.3	3.4	3.4	3.4	3.4	3.4	3.2	3.2	3.1
87,5°	1.2	1.2	1.2	1.1	1.1	1.0	0.9	0.9	0.8	0.8	0.7	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
100,0°	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
110,0°	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
120,0°	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
130,0°	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
140,0°	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
150,0°	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
160,0°	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
170,0°	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
180,0°	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	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°	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5
2,5°	255.0	255.6	256.1	256.5	256.9	257.0	237.6	236.0	234.3	232.7	231.2	229.8	228.5
5,0°	267.7	268.3	269.0	269.7	270.2	270.3	236.0	232.3	228.7	225.1	221.6	218.2	215.0
7,5°	275.7	276.2	276.8	277.5	278.0	278.2	234.1	228.5	222.8	217.2	211.7	206.5	201.3
10,0°	281.4	282.1	282.9	283.9	284.6	284.9	233.4	225.6	217.7	209.9	202.2	194.8	187.6
12,5°	286.9	288.2	289.4	290.5	291.4	291.7	232.7	222.8	212.6	202.7	192.8	183.2	173.6
15,0°	293.1	295.1	297.1	298.7	299.6	299.8	231.8	219.5	207.0	194.8	182.8	171.1	159.1
17,5°	301.1	303.2	305.8	307.7	308.7	309.1	230.8	216.0	201.1	186.5	171.9	157.5	143.0
20,0°	309.2	310.8	313.6	315.4	316.0	316.0	230.5	213.1	195.5	178.2	160.7	143.4	127.2
22,5°	318.3	319.3	321.7	324.1	324.3	324.1	231.1	210.8	190.3	170.2	149.8	130.0	112.4
25,0°	327.4	327.5	328.5	330.3	329.8	329.1	232.1	208.5	184.8	161.1	138.0	116.2	95.6
27,5°	332.5	329.9	328.9	329.9	328.0	325.9	234.0	206.8	179.1	151.6	124.4	97.9	81.4
30,0°	329.4	323.9	321.5	321.3	317.4	313.1	234.1	203.6	172.4	141.4	106.9	82.4	76.2
32,5°	319.2	312.0	307.3	304.1	295.6	290.9	235.8	201.7	166.6	129.7	91.2	75.8	73.5
35,0°	305.5	295.3	287.6	278.7	266.3	263.1	238.3	200.3	161.0	115.5	79.9	72.0	70.9
37,5°	285.5	270.6	258.3	240.6	226.8	225.0	242.2	198.9	151.7	100.3	73.3	69.3	68.5
40,0°	255.6	237.1	219.7	195.2	185.0	183.7	248.0	198.8	140.1	85.3	68.2	66.5	65.9
42,5°	218.8	194.2	173.9	156.4	149.0	148.0	254.8	201.0	131.0	77.5	64.8	63.6	63.2
45,0°	181.0	156.7	141.7	130.5	126.7	127.1	263.3	201.7	120.4	71.4	61.7	60.7	60.4
47,5°	157.5	145.8	141.0	141.9	141.4	144.0	275.1	206.3	118.8	68.7	59.2	58.2	57.8
50,0°	172.0	175.4	180.4	188.9	191.2	194.6	287.2	210.9	113.6	65.4	56.6	55.6	55.1
52,5°	211.8	224.2	237.9	253.7	258.4	261.7	302.8	214.9	112.5	63.4	54.2	53.1	52.5
55,0°	265.3	288.2	308.0	327.0	329.2	331.6	321.4	220.0	112.7	61.3	51.8	50.5	50.0
57,5°	323.1	340.4	353.1	365.8	363.4	363.4	352.4	230.7	116.6	60.1	49.3	48.0	47.5
60,0°	331.5	333.4	339.3	346.1	339.9	339.9	397.0	252.7	122.8	59.8	46.9	45.5	45.0
62,5°	300.7	290.4	287.4	286.7	277.0	273.4	483.0	311.0	147.5	64.8	45.3	43.3	42.6
65,0°	253.4	227.2	212.9	212.7	205.1	203.4	568.9	385.2	207.0	89.5	46.7	41.7	40.4
67,5°	201.9	183.2	157.4	145.0	134.7	137.1	586.1	419.8	251.0	133.6	58.6	42.4	37.8
70,0°	179.3	159.0	76.7	59.5	55.4	61.0	469.1	325.6	213.5	120.4	59.8	44.4	36.6
72,5°	141.1	117.8	36.2	28.5	28.5	27.5	196.0	136.9	113.2	71.9	45.2	39.0	32.2
75,0°	76.2	62.7	25.0	21.1	20.9	19.7	57.7	36.1	37.9	34.6	27.7	25.8	23.8
77,5°	31.6	29.8	17.0	14.9	14.6	13.4	26.4	22.7	22.4	20.9	18.3	17.0	16.6
80,0°	14.2	13.2	10.0	9.3	8.7	8.1	18.9	15.6	13.6	13.0	11.9	11.2	11.1
82,5°	7.0	6.3	5.3	4.8	4.3	4.0	10.3	8.8	7.5	7.3	8.1	6.8	6.7
85,0°	2.6	2.3	1.9	1.7	1.7	1.6	3.8	3.4	3.2	3.3	3.7	3.4	3.3
87,5°	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3	1.4	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
100,0°	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
110,0°	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
120,0°	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
130,0°	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
140,0°	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
150,0°	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
160,0°	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
170,0°	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
180,0°	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°	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	0.4	0.4
2,5°	227.2	225.9	224.6	223.6	222.7	221.9	221.2	220.5	220.1	219.9	219.9	2.9	3.2
5,0°	212.0	209.0	206.3	203.8	201.6	199.6	197.9	196.6	195.6	195.2	195.0	5.6	8.9
7,5°	196.3	191.7	187.4	183.4	179.7	176.5	173.7	171.6	170.0	169.2	168.9	8.3	17.1
10,0°	180.5	173.8	167.5	161.7	156.3	151.7	147.7	144.7	142.5	141.3	140.9	10.7	27.9
12,5°	164.1	154.9	146.3	138.5	131.5	125.6	120.8	117.2	114.6	113.1	112.6	13.1	40.9
15,0°	147.0	135.8	125.6	116.9	109.5	103.6	99.0	95.9	93.7	92.4	91.9	15.3	56.2
17,5°	129.3	117.1	105.9	95.3	87.4	82.1	78.6	76.3	75.0	74.1	73.9	17.4	73.6
20,0°	113.2	98.1	85.6	79.3	76.7	75.0	73.8	72.9	72.0	71.4	71.2	19.7	93.3
22,5°	95.0	82.3	78.1	76.5	75.2	73.9	72.6	71.5	70.5	69.8	69.6	22.2	115.5
25,0°	81.5	77.6	76.4	75.4	74.3	72.9	71.5	70.2	69.0	68.1	67.7	24.6	140.0
27,5°	77.2	75.9	75.2	74.4	73.3	71.9	70.3	68.8	67.5	66.4	65.8	27.0	167.1
30,0°	75.0	74.4	74.0	73.4	72.4	71.1	69.4	67.6	66.1	64.8	64.1	29.1	196.2
32,5°	73.0	72.8	72.7	72.3	71.5	70.1	68.3	66.4	64.7	63.1	62.3	31.0	227.2
35,0°	70.7	70.7	71.1	70.8	70.1	68.7	66.8	64.7	62.8	61.1	60.1	32.6	259.8
37,5°	68.4	68.7	69.0	68.9	68.3	67.0	65.2	63.0	60.9	58.9	57.7	33.9	293.7
40,0°	65.9	66.3	66.6	66.6	66.1	64.9	62.8	60.8	58.8	56.8	55.7	34.8	328.4
42,5°	63.2	63.5	63.8	64.2	63.5	62.2	60.9	59.1	57.1	55.1	53.9	35.4	363.8
45,0°	60.3	60.4	60.9	60.8	60.4	59.8	59.0	57.6	56.0	54.0	52.7	35.9	399.7
47,5°	57.5	57.6	57.6	57.5	57.5	57.4	57.2	56.6	55.4	53.4	52.3	37.4	437.1
50,0°	54.8	54.7	54.2	54.4	54.7	55.2	55.8	56.1	55.4	53.9	52.9	40.1	477.3
52,5°	52.3	51.8	51.5	51.8	52.6	54.0	55.8	57.1	56.9	56.1	55.4	44.0	521.3
55,0°	49.7	49.1	49.3	49.8	51.2	54.0	57.2	59.7	59.7	59.4	59.0	49.0	570.3
57,5°	47.0	46.7	47.1	48.1	50.3	54.9	60.1	63.2	62.8	62.9	63.2	54.1	624.4
60,0°	44.4	44.3	44.9	46.7	50.3	56.4	63.0	65.8	64.7	64.9	65.4	58.2	682.6
62,5°	41.9	41.8	42.6	45.2	49.8	56.6	63.2	65.4	63.8	64.3	64.7	62.7	745.4
65,0°	39.4	39.1	40.3	43.4	48.5	55.5	62.0	63.2	60.9	61.1	61.7	66.5	811.9
67,5°	36.2	35.8	37.1	40.3	45.6	52.7	58.1	58.5	55.7	55.6	56.0	65.8	877.7
70,0°	32.2	31.7	33.2	36.7	41.9	47.8	51.8	51.5	48.8	48.0	48.6	56.2	933.9
72,5°	27.3	26.7	28.3	31.5	36.0	40.7	43.3	42.4	39.8	38.7	39.9	35.2	969.1
75,0°	21.9	21.8	23.2	26.0	29.5	33.0	34.3	33.1	30.6	30.0	31.7	16.3	985.4
77,5°	16.5	16.7	17.8	19.8	22.4	24.6	25.4	23.9	21.9	21.5	22.1	7.4	992.8
80,0°	11.3	11.4	12.2	13.6	15.1	16.4	16.6	15.2	13.9	13.5	13.6	3.9	996.7
82,5°	6.7	6.8	7.2	7.7	8.1	8.4	8.2	7.5	6.9	6.7	6.7	2.1	998.8
85,0°	3.2	3.1	3.2	3.3	3.4	3.6	3.5	3.1	2.8	2.7	2.7	0.8	999.7
87,5°	1.2	1.2	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.3	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
100,0°	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
110,0°	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
120,0°	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
130,0°	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
140,0°	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
150,0°	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
160,0°	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
170,0°	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
180,0°	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

<b>Family</b> Floodlight FL21 midi	<b>Order number: 5XA7786F2C3A</b> <b>EAN: 4058352855867</b>	<b>LP number</b> 58550_76
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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] start of lifetime	Power consumption [W] end of lifetime	Power consumption [W] average
100	254	254	35100	271.6	287.2	279.4
95	238	252	33343	254.4	268.8	261.6
90	222	249	31547	237.2	250.6	243.9
85	207	247	29784	221.3	233.9	227.6
80	193	244	28107	206.6	218.7	212.6
75	178	241	26273	190.7	201.1	195.9
70	165	238	24595	177.2	187.0	182.1
65	151	235	22782	162.5	171.2	166.8
60	138	232	21051	148.9	157.0	153.0
55	125	228	19282	135.7	142.8	139.2
50	113	224	17610	123.4	129.9	126.6
45	101	220	15857	110.8	116.9	113.8
40	88	215	13987	97.5	102.5	100.0
35	76	210	12211	85.2	89.6	87.4
30	65	204	10555	74.1	77.9	76.0
25	53	197	8720	62.3	65.2	63.8
20	42	188	7006	51.4	53.7	52.6
15	31	177	5249	40.5	42.2	41.4
13	27	172	4611	36.5	38.1	37.3