

Photometric test report

Family Floodlight FL21 midi



Order number: 5XA7786E4A3A
EAN: 4069025198686

LP number
59304_426

Version	Mast bracket
Optic	asymmetric distribution PL43
Cover	toughened safety glass
Lamps	LED 4000 K CRI ≥ 70
Controlgear	EVG-Smart Interface
Rated values	Net luminous flux = 28830 lm Power consumption = 212.4 W Luminous efficacy = 135.7 lm/W

serial
documentation
25.09.2023

siteco

Luminous intensity in cd/klm

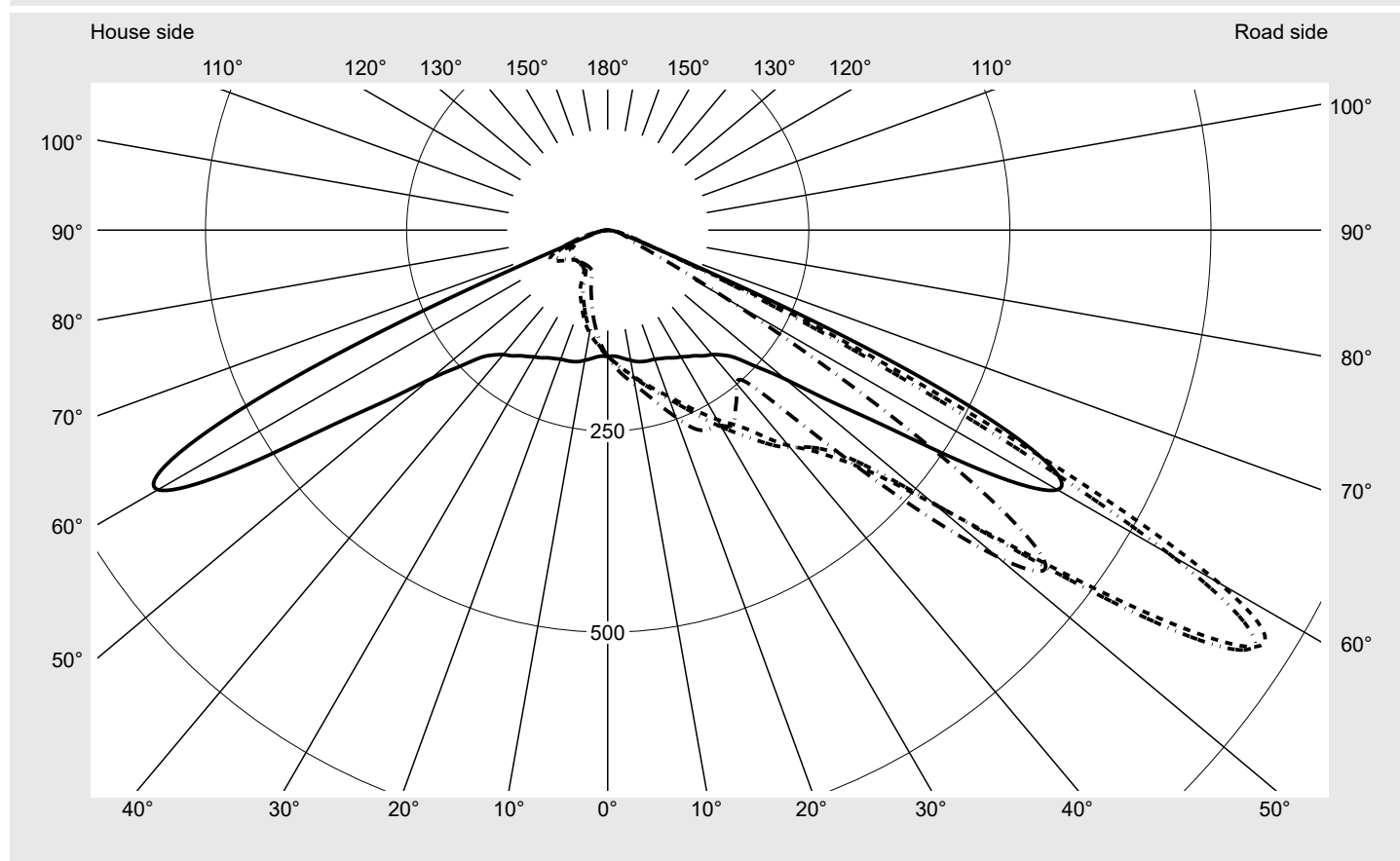
C180-0

C220-40

C225-45

C270-90

Imax: 962 cd/klm



Luminaire output ratios

Eta	100.0%
Eta 0° - 90°	100.0%
Eta 90° - 180°	0.0%

Measurement conditions

DIN EN 13032 and DIN 5032

Luminous intensity class acc. to EN13201-2

Class:	G6
Imax 70°	58.9
Imax 80°	16.9
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

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Envelope curve in cd/klm

KMK 57.5°

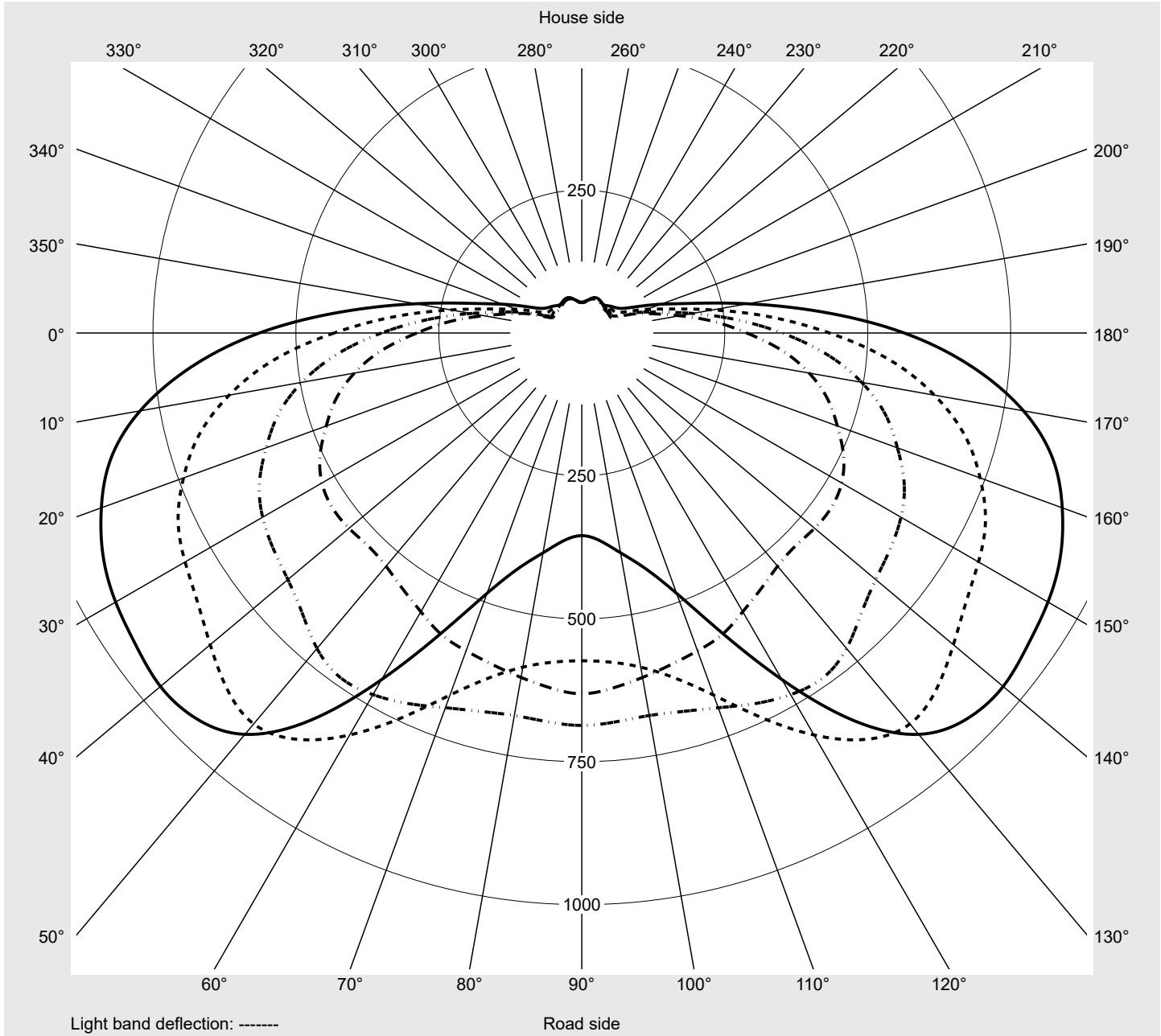
KMK 55°

KMK 52.5°

KMK 50°

sit

eco



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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°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1
2,5°	156.9	157.8	158.6	159.4	160.2	161.0	161.7	162.4	163.1	163.7	164.4	165.0	165.6
5,0°	158.3	160.3	161.9	163.5	165.0	166.4	167.6	168.8	170.0	171.0	172.1	173.0	174.0
7,5°	161.4	164.1	166.5	168.8	170.8	172.7	174.4	175.8	177.2	178.4	179.5	180.6	181.6
10,0°	164.4	168.1	171.3	174.2	176.8	179.2	181.2	182.9	184.5	185.9	187.2	188.4	189.4
12,5°	167.4	171.9	175.9	179.6	182.7	185.7	188.2	190.5	192.5	194.4	195.9	197.4	198.5
15,0°	169.2	174.7	179.7	184.2	188.1	191.7	195.0	198.2	200.9	203.5	205.4	207.1	208.3
17,5°	170.1	176.8	183.0	188.6	193.4	198.0	202.4	206.5	210.2	213.4	215.9	217.8	219.1
20,0°	170.8	178.9	186.4	193.1	198.9	204.6	210.0	215.2	219.8	223.8	226.6	229.0	230.4
22,5°	172.9	182.4	191.1	199.1	206.0	212.8	219.3	225.5	231.1	236.1	239.6	242.2	243.8
25,0°	175.2	186.7	196.7	206.0	214.3	222.5	230.0	237.3	244.1	250.2	255.0	258.3	259.3
27,5°	179.0	192.2	203.8	214.5	224.8	234.2	242.1	249.6	257.6	265.9	272.7	276.2	277.6
30,0°	182.1	198.0	211.4	223.9	236.8	246.8	255.3	263.0	271.9	282.7	291.6	295.0	295.2
32,5°	186.3	204.6	220.0	233.6	246.8	258.6	268.6	277.2	285.6	299.6	313.0	316.6	314.8
35,0°	190.7	212.2	229.6	244.3	257.6	270.0	281.5	292.9	302.1	317.6	336.0	344.0	332.8
37,5°	197.0	222.6	243.9	261.0	276.5	291.4	305.0	318.1	325.8	337.0	354.4	355.4	337.3
40,0°	202.1	234.4	261.9	285.4	306.6	325.4	340.0	349.0	349.7	353.0	352.8	344.0	326.3
42,5°	210.8	246.5	277.6	303.1	326.1	347.8	364.5	372.2	370.8	365.9	352.1	338.3	320.8
45,0°	224.6	267.6	303.3	332.4	357.2	380.8	398.8	405.5	401.1	387.6	369.4	352.4	336.5
47,5°	252.0	299.0	341.4	375.5	403.1	429.0	447.0	452.6	447.0	431.9	416.5	405.9	403.2
50,0°	288.4	351.5	403.8	444.9	475.7	505.0	524.8	532.6	531.5	527.6	532.6	546.3	563.0
52,5°	350.2	430.3	497.0	549.5	587.4	622.1	644.5	658.5	671.1	691.9	720.5	736.0	730.5
55,0°	433.2	540.5	626.3	693.6	741.3	779.0	801.1	820.5	848.3	878.5	892.7	867.8	812.0
57,5°	563.9	686.2	784.4	853.1	894.2	923.7	941.4	952.1	962.0	953.8	916.6	827.1	700.1
60,0°	645.7	773.4	861.0	921.1	936.8	940.1	941.0	920.1	877.5	808.2	711.0	584.2	450.7
62,5°	601.4	706.1	762.3	796.7	772.7	741.4	711.6	663.9	591.2	503.0	409.0	323.3	249.9
65,0°	409.8	448.6	471.6	480.8	450.9	418.9	389.1	352.4	303.7	251.6	208.1	168.8	130.0
67,5°	142.0	167.5	172.5	173.5	165.4	156.1	148.4	136.4	124.0	107.2	91.4	76.1	61.2
70,0°	49.3	49.2	46.7	47.4	48.3	48.8	50.1	50.4	52.3	51.7	51.7	53.8	51.3
72,5°	24.2	24.8	24.5	24.7	25.7	27.0	28.6	31.5	34.4	37.5	41.5	41.6	39.5
75,0°	19.2	21.9	20.2	19.9	20.5	20.8	21.6	24.6	26.1	26.6	28.4	29.8	29.8
77,5°	16.4	17.9	15.3	14.7	15.2	15.4	16.1	17.2	18.1	18.6	19.1	20.4	20.9
80,0°	12.2	11.0	10.3	9.9	10.2	10.8	10.9	11.8	12.7	13.2	13.0	13.2	14.0
82,5°	6.4	7.0	5.8	5.8	6.1	6.6	7.3	7.3	7.7	8.7	8.4	8.0	8.4
85,0°	2.9	3.0	2.8	2.8	3.1	3.3	3.7	3.6	3.6	3.7	3.7	3.8	3.8
87,5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.0	0.9	0.9
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		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°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1
2,5°	166.1	166.5	166.9	167.3	167.4	167.6	156.1	155.1	154.2	153.4	152.5	151.6	150.9
5,0°	174.8	175.6	176.4	177.0	177.4	177.6	156.7	154.7	152.7	150.7	148.7	146.7	144.8
7,5°	182.6	183.6	184.5	185.4	186.0	186.3	158.7	155.6	152.5	149.3	146.1	142.9	139.7
10,0°	190.4	191.5	192.7	193.9	194.8	195.2	160.7	156.7	152.4	148.0	143.4	138.8	134.2
12,5°	199.6	200.7	202.1	203.8	205.4	206.1	162.5	157.2	151.8	146.0	140.0	134.0	128.1
15,0°	209.4	210.5	212.0	214.4	216.9	218.0	163.0	156.5	149.7	142.6	135.2	127.9	120.8
17,5°	220.0	221.0	222.6	225.8	230.0	232.3	162.6	154.7	146.5	138.1	129.3	120.6	112.3
20,0°	231.5	232.1	233.3	236.5	243.2	247.5	161.8	152.4	142.9	133.0	122.7	113.0	103.9
22,5°	244.2	244.1	244.3	246.8	256.3	263.5	162.1	151.0	139.5	127.7	116.3	105.8	96.6
25,0°	258.9	257.0	256.0	257.5	267.6	274.6	162.8	149.5	135.7	122.5	110.3	99.5	90.3
27,5°	276.0	272.5	269.9	270.5	279.2	277.7	164.1	148.6	132.8	118.3	105.4	94.5	83.9
30,0°	292.6	285.9	280.7	280.7	287.6	280.6	164.7	147.1	130.0	114.5	101.4	89.8	71.6
32,5°	308.3	293.6	283.9	282.7	289.4	288.0	166.1	146.2	128.0	112.0	98.7	81.8	61.0
35,0°	320.0	299.4	285.4	284.6	281.9	276.3	166.9	144.5	125.1	109.2	94.6	69.0	57.3
37,5°	318.6	295.6	280.2	274.7	266.5	263.2	168.9	143.5	122.9	106.8	85.1	59.9	56.2
40,0°	306.3	286.3	269.5	257.9	251.2	249.2	169.3	141.4	120.1	103.5	70.1	56.9	55.1
42,5°	301.9	283.2	270.0	261.0	258.6	258.3	173.9	143.3	119.8	99.9	64.3	56.3	54.4
45,0°	325.6	319.6	322.8	329.4	337.4	341.4	185.0	148.7	120.3	97.0	63.3	56.8	54.7
47,5°	416.5	432.9	449.9	468.0	483.3	490.4	204.3	158.9	123.6	96.2	63.5	57.0	55.5
50,0°	581.7	591.7	600.9	611.9	623.4	631.1	231.4	173.7	129.8	97.6	64.8	57.1	57.2
52,5°	715.5	697.6	685.4	679.5	682.8	686.5	270.2	196.9	141.6	105.0	72.5	61.0	60.9
55,0°	742.0	674.1	624.4	593.6	578.0	573.5	328.4	232.3	162.1	121.0	88.8	71.9	67.7
57,5°	577.9	484.7	425.9	390.5	364.8	354.5	422.3	294.4	200.2	147.1	110.1	86.5	76.1
60,0°	351.0	288.2	242.2	207.0	181.1	173.8	495.8	349.8	239.8	173.3	127.8	98.5	84.3
62,5°	196.1	156.4	115.6	85.6	69.7	74.4	480.8	347.5	247.8	181.6	135.9	106.0	90.6
65,0°	100.6	78.5	46.7	41.6	38.9	38.1	316.1	238.2	187.4	143.3	115.4	97.1	87.3
67,5°	55.1	50.6	41.2	38.3	34.3	32.5	105.3	78.6	92.0	81.1	74.4	71.1	71.0
70,0°	45.1	39.2	33.6	30.6	27.3	25.3	35.1	30.6	34.0	41.3	43.2	46.3	51.7
72,5°	37.2	32.9	28.3	25.3	22.7	20.3	23.4	24.0	24.3	26.9	28.2	31.6	37.1
75,0°	29.0	26.7	22.7	19.9	19.3	17.0	20.3	17.9	18.7	20.4	21.0	23.9	27.9
77,5°	21.1	19.3	17.1	15.6	14.5	12.9	18.2	14.4	14.4	15.5	15.4	17.1	19.8
80,0°	13.9	12.7	11.3	10.4	9.4	8.6	11.9	12.3	9.7	11.4	11.2	12.0	13.1
82,5°	8.2	7.6	7.1	6.4	5.7	5.4	6.4	10.7	6.2	7.6	7.3	7.3	7.8
85,0°	3.7	3.7	3.5	3.0	2.6	2.5	2.9	5.9	3.4	3.5	3.4	3.4	3.8
87,5°	0.8	0.7	0.7	0.6	0.6	0.6	1.2	1.5	1.3	1.4	1.4	1.4	1.5
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		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°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	0.2	0.2
2,5°	150.1	149.4	148.7	148.2	147.7	147.3	147.0	146.7	146.4	146.3	146.4	1.9	2.1
5,0°	142.9	141.3	139.6	138.1	136.8	135.8	134.9	134.1	133.6	133.2	133.2	3.7	5.8
7,5°	136.6	133.7	130.8	128.4	126.1	124.2	122.5	121.2	120.3	119.7	119.6	5.6	11.4
10,0°	129.7	125.6	121.6	118.1	114.9	112.3	110.1	108.3	107.0	106.2	106.0	7.5	18.9
12,5°	122.3	117.0	112.0	107.4	103.3	99.8	96.8	94.6	92.9	92.0	91.7	9.3	28.2
15,0°	113.9	107.5	101.5	96.2	91.8	88.0	85.0	82.6	81.0	80.0	79.7	11.1	39.3
17,5°	104.5	97.7	91.5	86.2	81.6	77.5	74.0	71.2	69.2	68.1	67.8	12.9	52.3
20,0°	96.0	89.1	82.5	75.4	68.6	63.5	60.1	58.0	56.8	56.2	56.0	14.7	67.0
22,5°	88.6	80.3	70.2	61.8	57.5	55.7	54.6	53.8	53.3	53.0	53.0	16.7	83.7
25,0°	81.1	69.0	59.9	56.2	54.9	54.0	53.2	52.5	52.1	51.8	51.8	18.8	102.5
27,5°	68.9	58.8	55.8	54.7	53.9	53.2	52.6	52.0	51.5	51.2	51.2	21.2	123.7
30,0°	58.7	55.9	54.8	54.2	53.6	52.9	52.3	51.7	51.2	50.9	50.8	23.6	147.3
32,5°	56.2	55.0	54.4	54.0	53.4	52.9	52.3	51.7	51.2	50.8	50.8	26.1	173.4
35,0°	55.4	54.5	54.1	53.9	53.5	53.2	52.8	52.2	51.5	51.1	51.0	28.6	202.0
37,5°	55.0	54.2	54.0	54.1	54.1	54.0	53.6	52.9	52.2	51.6	51.5	31.0	233.0
40,0°	54.3	53.9	54.1	54.7	55.0	55.1	54.9	54.2	53.4	52.4	52.2	33.3	266.3
42,5°	53.7	53.9	54.5	55.5	56.3	56.8	56.8	56.0	54.7	53.4	52.9	36.0	302.3
45,0°	53.7	54.1	55.5	56.9	58.2	59.0	59.0	57.8	56.2	54.4	53.7	41.1	343.4
47,5°	54.7	54.8	56.7	58.3	59.9	61.1	61.2	59.5	57.4	55.1	54.2	50.3	393.8
50,0°	57.5	57.0	58.4	59.7	61.8	63.4	63.3	61.0	58.0	55.4	54.4	64.1	457.9
52,5°	61.5	60.0	60.1	61.2	63.5	65.0	64.7	61.9	58.2	55.1	54.1	80.0	537.8
55,0°	66.0	63.3	61.4	62.1	64.4	66.0	65.5	62.2	58.3	54.6	53.7	93.3	631.1
57,5°	71.2	67.1	63.3	63.0	65.1	66.5	65.8	62.2	57.8	53.9	53.2	98.8	729.9
60,0°	76.7	70.2	65.0	63.6	65.1	66.2	64.8	60.9	56.1	52.1	52.0	92.1	822.0
62,5°	80.1	71.9	65.9	63.1	63.6	63.8	61.8	58.0	54.1	50.5	51.4	72.6	894.5
65,0°	77.8	70.7	64.4	60.4	59.6	59.5	57.3	54.0	51.0	47.3	47.6	45.7	940.2
67,5°	68.6	64.3	59.3	55.5	54.0	53.4	51.3	48.0	43.7	45.1	64.2	21.9	962.1
70,0°	54.2	53.8	50.6	47.9	46.9	45.9	43.9	40.6	36.7	36.5	58.9	11.5	973.6
72,5°	41.2	42.2	41.3	39.8	38.7	37.9	36.1	32.7	29.4	28.7	34.9	8.3	981.9
75,0°	31.2	32.5	32.8	32.1	31.5	30.8	29.0	25.2	23.1	22.3	23.2	6.5	988.4
77,5°	22.1	24.0	24.4	24.1	24.0	24.0	22.2	18.4	16.4	15.3	15.3	4.9	993.3
80,0°	14.9	16.0	16.3	16.1	16.3	16.9	15.3	12.2	10.7	9.5	9.3	3.3	996.6
82,5°	8.9	9.6	9.8	9.6	9.6	9.5	8.5	7.3	6.4	5.6	5.2	2.1	998.7
85,0°	4.3	4.6	4.6	4.6	4.6	4.3	3.8	3.5	3.1	2.7	2.6	1.0	999.7
87,5°	1.5	1.6	1.6	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	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

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Family Floodlight FL21 midi	Order number: 5XA7786E4A3A EAN: 4069025198686	LP number 59304_426
Dimming levels table environmental temperature: 25°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	28830	212.4	230.9	221.6
95	238	252	27408	198.7	215.9	207.3
90	222	249	25928	185.1	201.1	193.1
85	207	247	24493	172.6	187.3	180.0
80	193	244	23106	161.0	174.6	167.8
75	178	241	21587	148.5	161.0	154.8
70	164	238	20131	137.0	148.4	142.7
65	151	235	18746	126.4	136.8	131.6
60	138	232	17301	115.8	125.3	120.6
55	125	228	15853	105.4	113.9	109.6
50	112	224	14365	94.9	102.5	98.7
45	100	220	12967	85.4	92.1	88.8
40	88	215	11541	75.8	81.7	78.8
35	76	210	10049	66.4	71.5	69.0
30	65	204	8695	57.7	62.0	59.8
25	53	197	7176	48.4	51.8	50.1
20	42	188	5764	39.9	42.6	41.2
15	31	177	4321	31.5	33.5	32.5
14	28	173	3918	29.2	31.0	30.1