

Photometric test report

Family
LANTERN LED

Order number: 5XA5255RF14H
EAN: 4058352833667

LP number
57123_25



Version post-top- or mounting to wall arm
Optic symmetric, wide distribution (PL1.2s)
Cover cover transparent, PMMA
Lamps LED 4000 K | CRI ≥ 70
Controlgear ECG SITECO iQ
Rated values Net luminous flux = 2970 lm
Power consumption = 18.5 W
Luminous efficacy = 160.5 lm/W

serial
documentation
24.02.2023

siteco

Luminous intensity in cd/klm

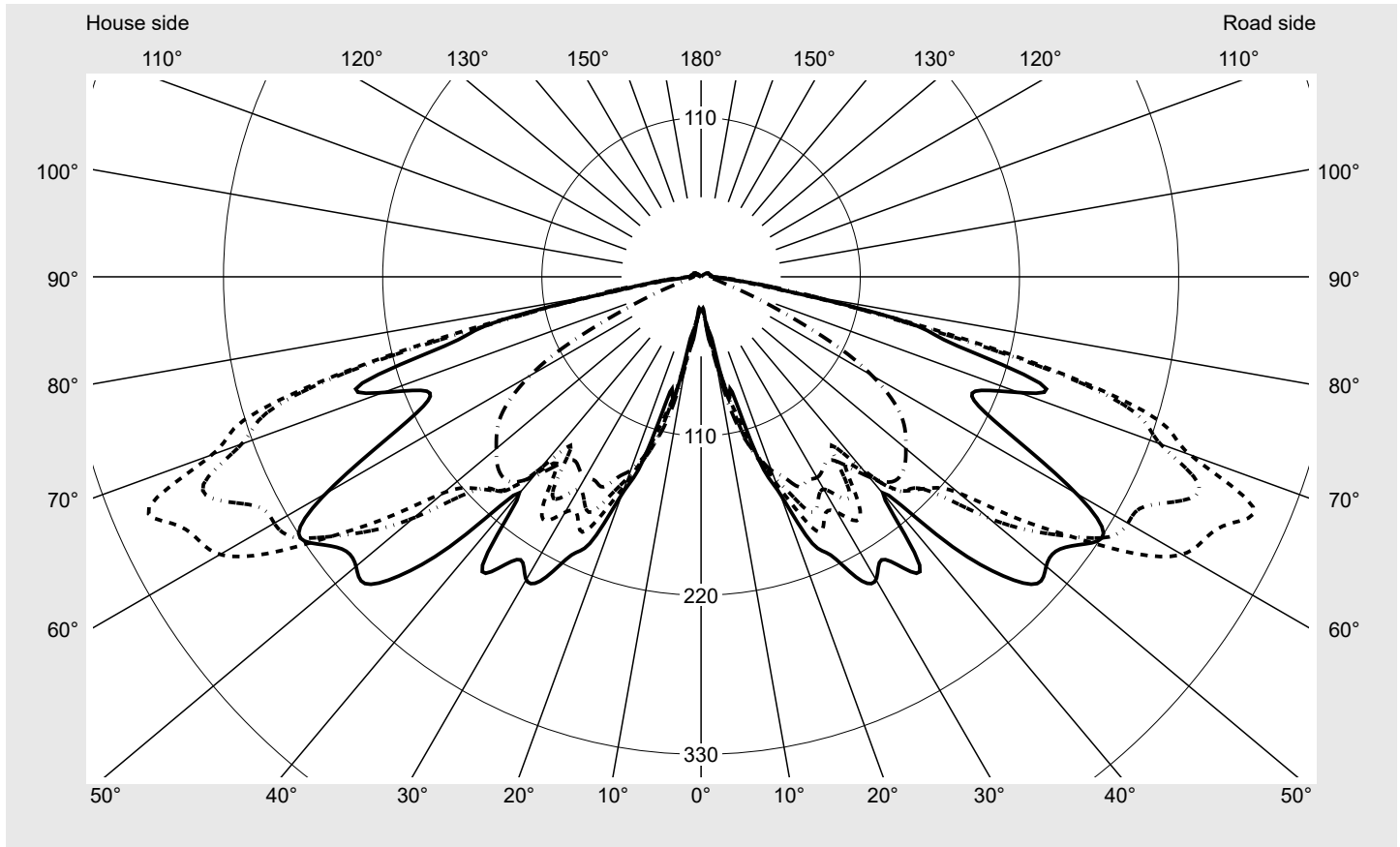
C180-0

C205-25

C210-30

C270-90

Imax: 412 cd/klm



Luminaire output ratios

Eta	100.0%
Eta 0° - 90°	97.7%
Eta 90° - 180°	2.3%

Luminous intensity class acc. to EN13201-2

Class:	G3
Imax 70°	359.4
Imax 80°	84.8
Imax 90°	8.1
Imax >90°	7.7
Imax >95°	7.3

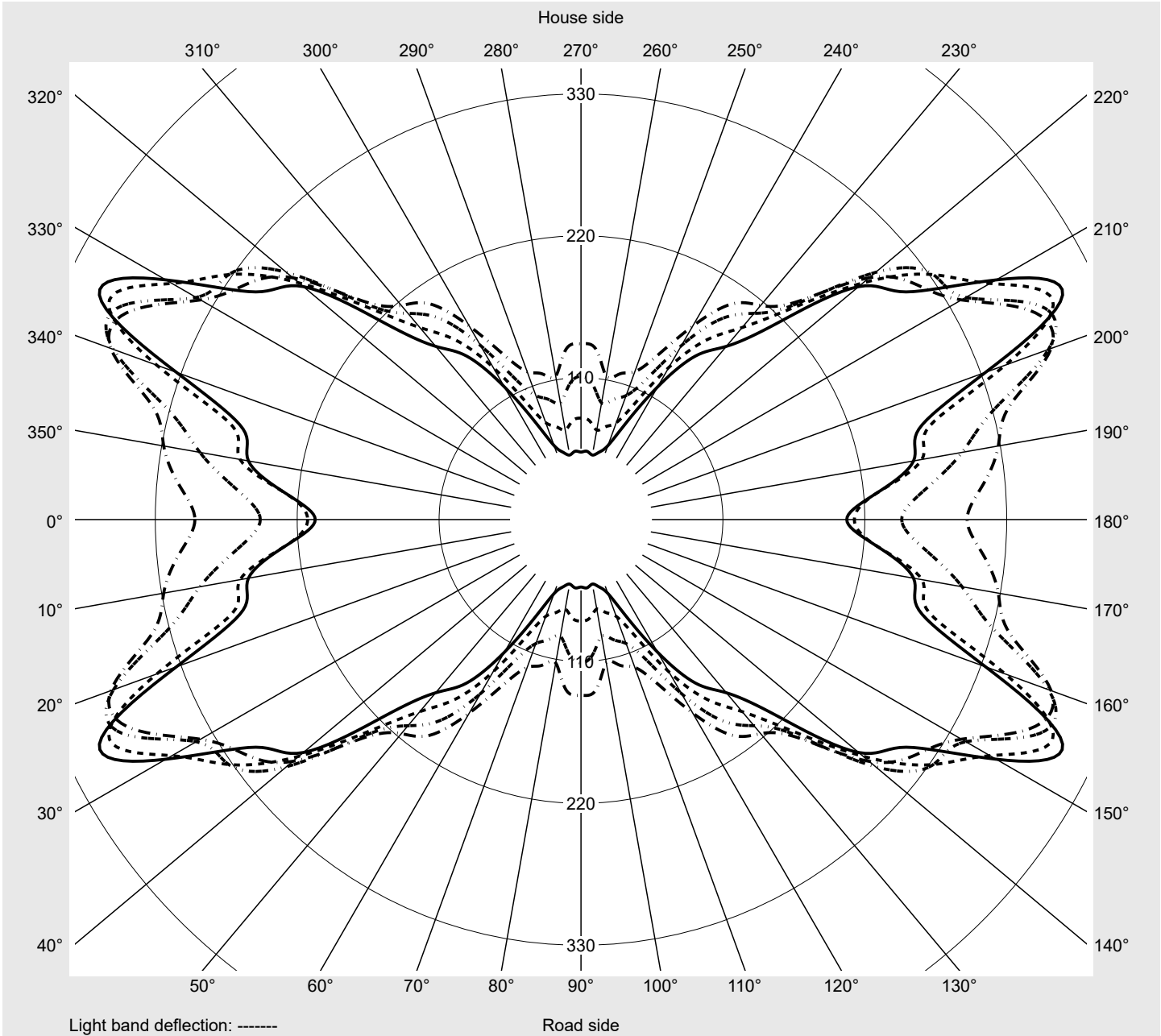
Measurement conditions

DIN EN 13032 and DIN 5032

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Envelope curve in cd/klm **KMK 67.5°** **KMK 65°** **KMK 62.5°** **KMK 60°** **siteco**



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Family LANTERN LED	Order number: 5XA5255RF14H EAN: 4058352833667	LP number 57123_25
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes	0° 180°	5°	10°	15°	20°	25°	30°	35°	40°	45°
		175° 185° 355°	170° 190° 350°	165° 195° 345°	160° 200° 340°	155° 205° 335°	150° 210° 330°	145° 215° 325°	140° 220° 320°	135° 225° 315°
Luminous intensity in cd/klm										
γ										
0,0°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
2,5°	22.3	22.4	22.4	22.5	22.7	22.8	22.8	22.9	23.1	23.3
5,0°	26.2	26.3	26.6	27.0	27.6	28.3	29.1	29.3	29.2	28.8
7,5°	45.4	44.5	42.2	39.5	38.3	37.0	36.0	35.7	36.4	36.7
10,0°	44.4	46.4	49.6	55.4	57.8	59.4	56.9	56.8	60.0	61.7
12,5°	85.8	78.3	87.5	81.1	88.5	82.4	80.0	81.9	80.1	82.7
15,0°	81.5	94.7	111.1	98.0	97.9	103.3	113.0	120.5	115.1	111.0
17,5°	132.6	127.6	125.6	129.7	134.7	129.6	132.5	127.4	126.5	129.0
20,0°	159.6	167.7	161.0	165.0	175.5	152.2	147.7	139.7	133.6	130.8
22,5°	198.1	200.8	194.8	196.1	182.5	176.5	163.1	149.2	139.2	132.5
25,0°	212.3	211.4	203.6	204.0	195.3	194.6	179.5	167.3	149.5	137.6
27,5°	235.2	226.7	216.5	204.9	197.4	185.3	174.9	164.0	159.7	152.9
30,0°	241.7	235.8	229.9	212.6	201.8	187.9	169.5	160.2	164.7	165.6
32,5°	232.0	224.3	219.2	213.4	205.4	199.8	181.3	166.6	169.1	180.5
35,0°	246.8	244.3	223.7	211.2	201.5	188.8	177.0	166.2	163.6	167.0
37,5°	245.4	236.3	223.8	199.3	189.6	163.5	147.5	158.1	170.6	177.8
40,0°	195.3	182.5	182.4	181.5	180.8	177.8	173.7	179.2	188.9	195.4
42,5°	243.7	238.2	219.3	213.2	208.6	199.3	200.6	201.9	196.3	207.9
45,0°	290.0	294.0	275.9	254.2	238.8	208.2	206.6	218.4	219.5	218.0
47,5°	314.1	322.8	312.8	287.9	254.2	216.1	223.3	233.4	240.6	231.7
50,0°	311.3	327.0	341.1	302.7	270.6	232.3	259.2	262.8	250.8	241.5
52,5°	310.4	326.0	333.8	313.8	294.2	273.3	288.5	289.4	262.4	242.9
55,0°	322.2	335.3	331.1	336.2	328.1	313.5	313.0	299.7	272.9	244.6
57,5°	329.7	342.2	335.8	347.3	365.2	356.2	334.5	304.7	279.7	245.3
60,0°	299.3	313.0	328.5	344.7	387.8	383.7	340.6	317.5	291.6	239.8
62,5°	248.6	267.9	300.0	332.0	385.7	392.4	344.4	332.2	298.2	236.6
65,0°	211.9	229.3	268.4	279.6	350.0	403.3	366.1	331.3	285.5	231.9
67,5°	206.0	229.2	261.8	271.2	333.8	411.9	371.6	307.7	280.9	215.5
70,0°	233.8	249.6	267.9	277.1	307.5	359.4	337.6	289.7	245.5	194.4
72,5°	246.6	248.3	247.9	269.1	303.7	332.7	316.0	255.0	194.3	157.8
75,0°	181.5	194.1	215.2	225.7	256.8	257.6	250.4	183.7	128.1	107.7
77,5°	147.4	142.9	141.5	155.3	164.2	154.3	141.1	102.7	86.8	75.9
80,0°	72.2	64.8	70.5	84.8	74.9	70.1	81.3	71.4	59.3	42.9
82,5°	40.1	38.0	39.3	49.9	37.7	33.4	43.6	50.0	38.9	26.2
85,0°	17.2	17.4	18.0	20.6	18.0	20.2	25.8	28.5	17.0	14.5
87,5°	11.8	11.8	12.2	12.9	13.0	13.4	14.6	13.3	12.0	9.4
90,0°	8.1	8.0	7.9	8.0	7.8	7.7	7.6	7.5	7.3	7.1
92,5°	7.7	7.7	7.6	7.5	7.5	7.3	7.2	7.1	6.9	6.9
95,0°	7.3	7.3	7.4	7.4	7.2	7.2	7.0	6.9	6.8	6.7
97,5°	7.1	7.3	7.1	7.1	7.0	6.8	6.7	6.7	6.6	6.5
100,0°	6.9	6.9	6.7	6.7	6.7	6.6	6.4	6.3	6.4	6.2
102,5°	6.5	6.5	6.4	6.3	6.3	6.2	6.0	6.0	6.0	5.9
105,0°	6.1	6.1	6.1	5.9	5.9	5.9	5.9	5.7	5.7	5.6
107,5°	5.9	5.9	5.9	5.9	5.8	5.8	5.5	5.5	5.5	5.5
110,0°	5.7	5.8	5.8	5.7	5.7	5.5	5.5	5.5	5.5	5.5

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes	50°	55°	60°	65°	70°	75°	80°	85°	90°	Phi-zone	Total Phi-zone
	130°	125°	120°	115°	110°	105°	100°	95°			
	230°	235°	240°	245°	250°	255°	260°	265°	270°		
	310°	305°	300°	295°	290°	285°	280°	275°			
γ	Luminous intensity in cd/klm									Luminous flux in lm/klm	
0,0°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	0.0	0.0
2,5°	23.4	23.4	23.3	23.3	23.6	23.5	23.5	23.4	23.5	0.3	0.3
5,0°	28.6	28.7	28.9	29.9	29.9	29.4	29.5	29.6	29.6	0.7	1.0
7,5°	36.8	38.0	39.2	41.7	42.8	41.8	41.7	42.9	42.8	1.4	2.4
10,0°	61.4	60.0	60.5	59.3	58.6	61.2	61.2	62.0	62.7	2.8	5.2
12,5°	78.6	75.2	73.5	73.2	76.5	81.1	84.8	92.4	93.1	4.8	10.0
15,0°	107.8	111.6	106.3	99.3	98.3	100.4	107.0	111.4	115.2	7.5	17.5
17,5°	125.7	122.1	120.1	117.9	119.3	122.7	128.8	129.6	129.8	10.4	28.0
20,0°	132.7	134.8	131.9	130.7	126.5	125.0	133.3	138.1	142.3	13.4	41.4
22,5°	135.1	139.0	140.2	140.0	136.4	131.4	144.5	148.8	149.9	16.5	57.8
25,0°	137.2	143.9	148.5	151.5	150.1	140.3	150.8	160.0	160.2	19.4	77.2
27,5°	147.5	150.9	158.7	161.3	161.8	145.4	148.4	159.6	158.8	21.9	99.1
30,0°	163.9	159.8	162.9	167.8	164.0	146.9	143.0	159.0	160.2	24.3	123.5
32,5°	186.5	177.3	169.5	171.4	167.1	151.1	139.9	156.7	156.9	26.8	150.2
35,0°	177.4	181.3	175.3	175.8	175.5	158.7	144.2	155.5	154.5	28.7	179.0
37,5°	184.7	195.3	192.5	185.8	181.6	162.8	146.9	163.8	164.5	30.5	209.4
40,0°	194.3	203.1	204.6	192.0	186.0	169.5	156.1	178.2	180.5	32.4	241.9
42,5°	210.8	207.3	208.0	199.0	189.4	182.0	162.0	191.4	192.4	37.6	279.4
45,0°	222.8	216.5	213.0	208.4	193.1	188.9	166.1	193.9	194.7	42.8	322.3
47,5°	231.8	228.2	219.1	209.8	191.3	187.4	164.1	190.3	191.2	47.1	369.4
50,0°	242.5	234.5	217.7	202.8	183.1	180.7	159.9	183.9	184.7	50.6	420.1
52,5°	244.5	235.6	213.2	189.1	170.0	170.0	154.5	177.0	178.0	53.4	473.5
55,0°	240.5	231.2	202.7	173.9	155.9	157.0	144.9	167.1	169.3	56.1	529.6
57,5°	233.1	222.2	191.4	158.0	140.0	139.8	131.0	151.9	155.5	58.1	587.6
60,0°	216.7	204.1	173.2	140.5	122.0	117.0	112.8	132.6	136.3	57.8	645.4
62,5°	208.7	190.1	155.8	120.1	102.3	96.3	91.9	104.9	111.1	55.9	701.4
65,0°	194.4	170.1	136.3	100.0	79.9	74.6	70.5	76.8	78.7	52.4	753.7
67,5°	175.3	154.8	118.7	82.6	61.0	54.0	50.8	53.1	52.3	50.1	803.9
70,0°	157.9	135.4	96.9	67.6	46.9	34.1	33.2	33.4	34.3	46.8	850.6
72,5°	127.3	110.1	79.6	52.5	37.8	24.4	21.9	21.0	21.7	42.6	893.2
75,0°	102.8	95.5	69.0	40.0	23.3	18.6	16.3	15.2	15.2	33.8	927.0
77,5°	77.0	79.2	58.3	29.9	16.3	14.0	12.8	12.0	12.0	23.0	950.0
80,0°	35.0	38.6	26.9	13.2	11.0	10.3	9.9	9.4	9.5	12.2	962.2
82,5°	18.8	13.8	11.0	9.4	8.6	8.1	7.7	7.6	7.5	7.0	969.3
85,0°	10.0	9.4	8.6	7.9	7.3	7.2	6.9	6.5	6.5	3.9	973.1
87,5°	8.4	8.0	7.4	7.0	6.6	6.4	6.2	6.1	5.9	2.7	975.8
90,0°	6.9	6.8	6.5	6.5	6.1	5.9	5.7	5.7	5.3	1.9	977.8
92,5°	6.7	6.7	6.5	6.4	6.0	6.0	5.7	5.7	5.3	1.9	979.6
95,0°	6.5	6.5	6.4	6.1	5.9	5.8	5.7	5.5	5.3	1.8	981.4
97,5°	6.4	6.3	6.1	6.1	5.9	5.7	5.7	5.3	5.3	1.7	983.1
100,0°	6.1	6.1	6.1	5.7	5.5	5.5	5.4	5.3	5.1	1.7	984.8
102,5°	5.7	5.7	5.7	5.5	5.3	5.2	5.1	4.9	4.7	1.5	986.3
105,0°	5.5	5.5	5.4	5.3	5.1	5.1	4.9	4.7	4.5	1.5	987.8
107,5°	5.5	5.3	5.2	5.1	5.1	5.1	4.9	4.6	4.3	1.4	989.2
110,0°	5.3	5.2	5.1	5.1	5.1	5.0	4.7	4.6	3.9	1.4	990.6

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes	0° 180°	5°	10°	15°	20°	25°	30°	35°	40°	45°
		175° 185° 355°	170° 190° 350°	165° 195° 345°	160° 200° 340°	155° 205° 335°	150° 210° 330°	145° 215° 325°	140° 220° 320°	135° 225° 315°
		Luminous intensity in cd/klm								
γ										
112,5°	5.7	5.7	5.7	5.7	5.5	5.5	5.5	5.5	5.3	5.1
115,0°	5.7	5.7	5.7	5.6	5.5	5.5	5.4	5.3	5.2	5.1
117,5°	5.7	5.7	5.3	5.4	5.3	5.3	5.2	5.1	5.1	5.1
120,0°	5.3	5.3	5.3	5.3	5.2	5.1	4.9	4.9	4.9	4.8
122,5°	4.9	4.9	4.9	4.9	4.8	4.7	4.6	4.5	4.5	4.5
125,0°	4.1	4.1	4.1	4.1	4.0	3.9	3.8	3.7	3.7	3.7
127,5°	3.2	3.0	3.0	3.0	2.8	2.8	2.8	2.8	2.8	2.8
130,0°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
132,5°	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.1	2.0	2.0
135,0°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
137,5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
140,0°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
142,5°	1.4	1.0	1.2	1.0	0.9	1.1	1.0	1.1	1.0	0.9
145,0°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
147,5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
150,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165,0°	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

C-planes	50°	55°	60°	65°	70°	75°	80°	85°	90° 270°	Phi-zone	Total Phi-zone	
	130° 230° 310°	125° 235° 305°	120° 240° 300°	115° 245° 295°	110° 250° 290°	105° 255° 285°	100° 260° 280°	95° 265° 275°				
		Luminous intensity in cd/klm									Luminous flux in lm/klm	
γ												
112,5°	5.1	5.1	5.1	5.0	4.9	4.8	4.7	4.2	2.8	1.3	991.9	
115,0°	5.1	5.1	5.0	4.9	4.8	4.7	4.7	3.8	2.0	1.2	993.1	
117,5°	5.0	4.9	4.9	4.9	4.7	4.7	4.7	3.5	2.0	1.2	994.3	
120,0°	4.8	4.7	4.7	4.5	4.5	4.5	4.5	3.1	1.8	1.1	995.4	
122,5°	4.5	4.5	4.4	4.3	4.1	4.1	4.0	2.8	1.6	1.0	996.4	
125,0°	3.7	3.7	3.7	3.7	3.4	3.4	3.2	2.4	1.6	0.8	997.2	
127,5°	2.8	2.8	2.8	2.8	2.8	2.6	2.4	1.8	1.6	0.6	997.8	
130,0°	2.4	2.4	2.3	2.1	2.1	2.0	2.0	1.6	1.2	0.5	998.3	
132,5°	2.0	2.0	2.0	2.0	2.0	2.0	1.6	1.5	1.2	0.4	998.7	
135,0°	1.8	1.8	1.7	1.7	1.6	1.6	1.6	1.2	1.2	0.4	999.1	
137,5°	1.6	1.6	1.6	1.6	1.6	1.5	1.2	1.2	1.0	0.3	999.3	
140,0°	1.2	1.2	1.2	1.2	1.2	1.2	1.1	0.8	0.8	0.2	999.5	
142,5°	0.9	1.0	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.2	999.7	
145,0°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.1	999.8	
147,5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.1	1000.0	
150,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
165,0°	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	1000.0	

Photometric test report

Family LANTERN LED	Order number: 5XA5255RF14H EAN: 4058352833667	LP number 57123_25
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Dimming levels table	environmental temperature: 25°C	siteco
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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	2970	18.5	19.7	19.1
95	241	252	2818	17.5	18.6	18.0
90	229	250	2678	16.6	17.6	17.1
85	216	248	2526	15.6	16.6	16.1
80	203	246	2374	14.7	15.6	15.2
75	190	243	2222	13.7	14.6	14.2
70	178	241	2081	12.8	13.6	13.2
65	165	238	1929	11.9	12.6	12.2
60	152	235	1777	11.0	11.6	11.3
55	140	232	1637	10.1	10.8	10.4
50	127	229	1485	9.3	9.8	9.6
45	114	225	1333	8.4	8.9	8.6
40	102	221	1193	7.7	8.1	7.9
35	89	216	1041	6.8	7.2	7.0
30	76	210	889	6.0	6.3	6.2
25	63	203	737	5.2	5.5	5.4
20	51	195	596	4.5	4.7	4.6
18	46	191	538	4.1	4.3	4.2