

## Photometric test report

Family  
**MUSHROOM LUMINAIRE LED**

Order number: **5XA5235RF14H**  
EAN: **4058352833346**

LP number  
**57120\_29**



**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 = 3000 lm  
Power consumption = 18.5 W  
Luminous efficacy = 162.2 lm/W

serial  
documentation  
24.02.2023

siteco

Luminous intensity in cd/klm

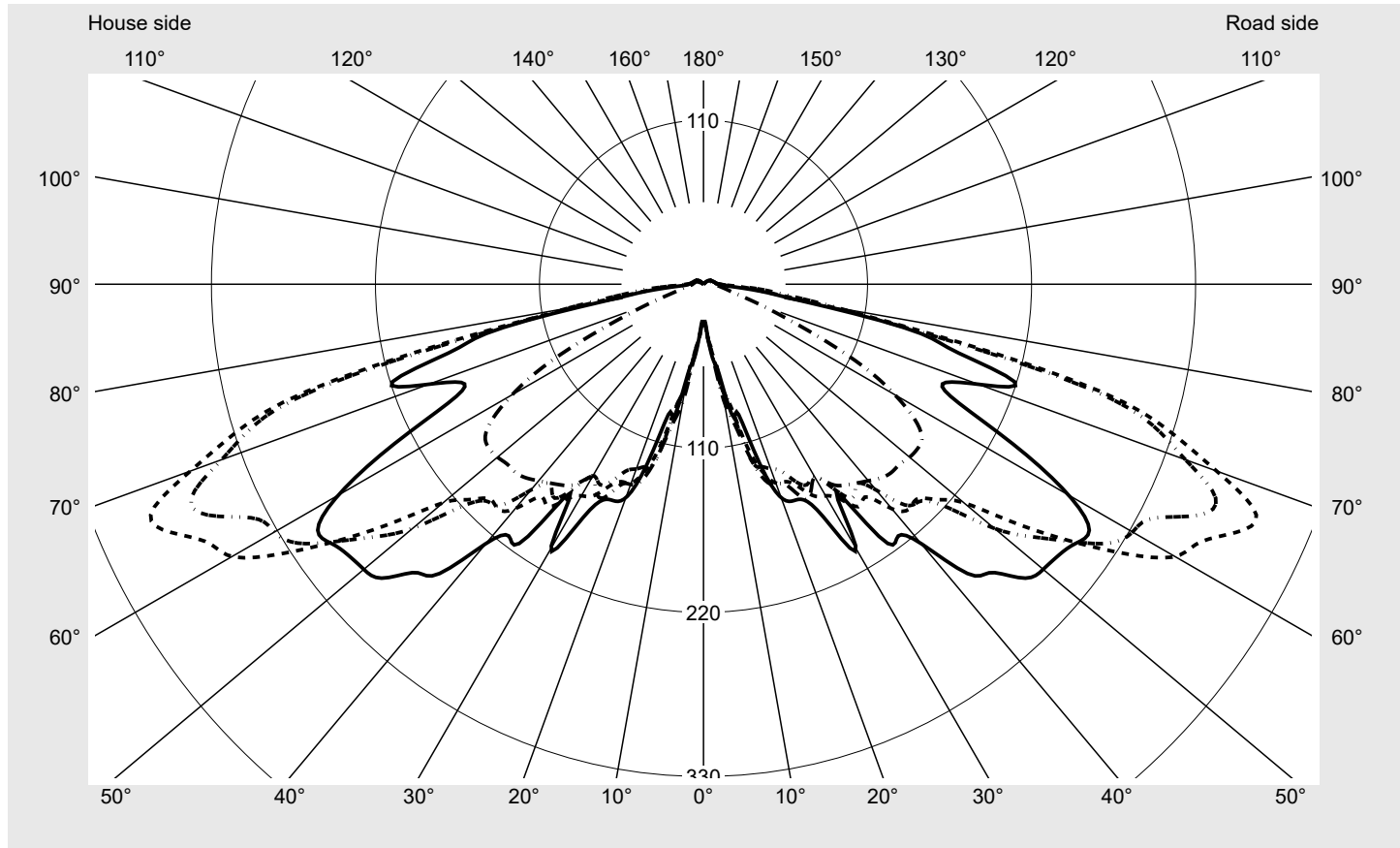
**C180-0**

**C205-25**

**C210-30**

**C270-90**

**Imax: 401 cd/klm**



### Luminaire output ratios

Eta	100.0%
Eta 0° - 90°	97.4%
Eta 90° - 180°	2.6%

### Luminous intensity class acc. to EN13201-2

Class:	G3
Imax 70°	366.2
Imax 80°	92.9
Imax 90°	11.9
Imax >90°	9.1
Imax >95°	8.3

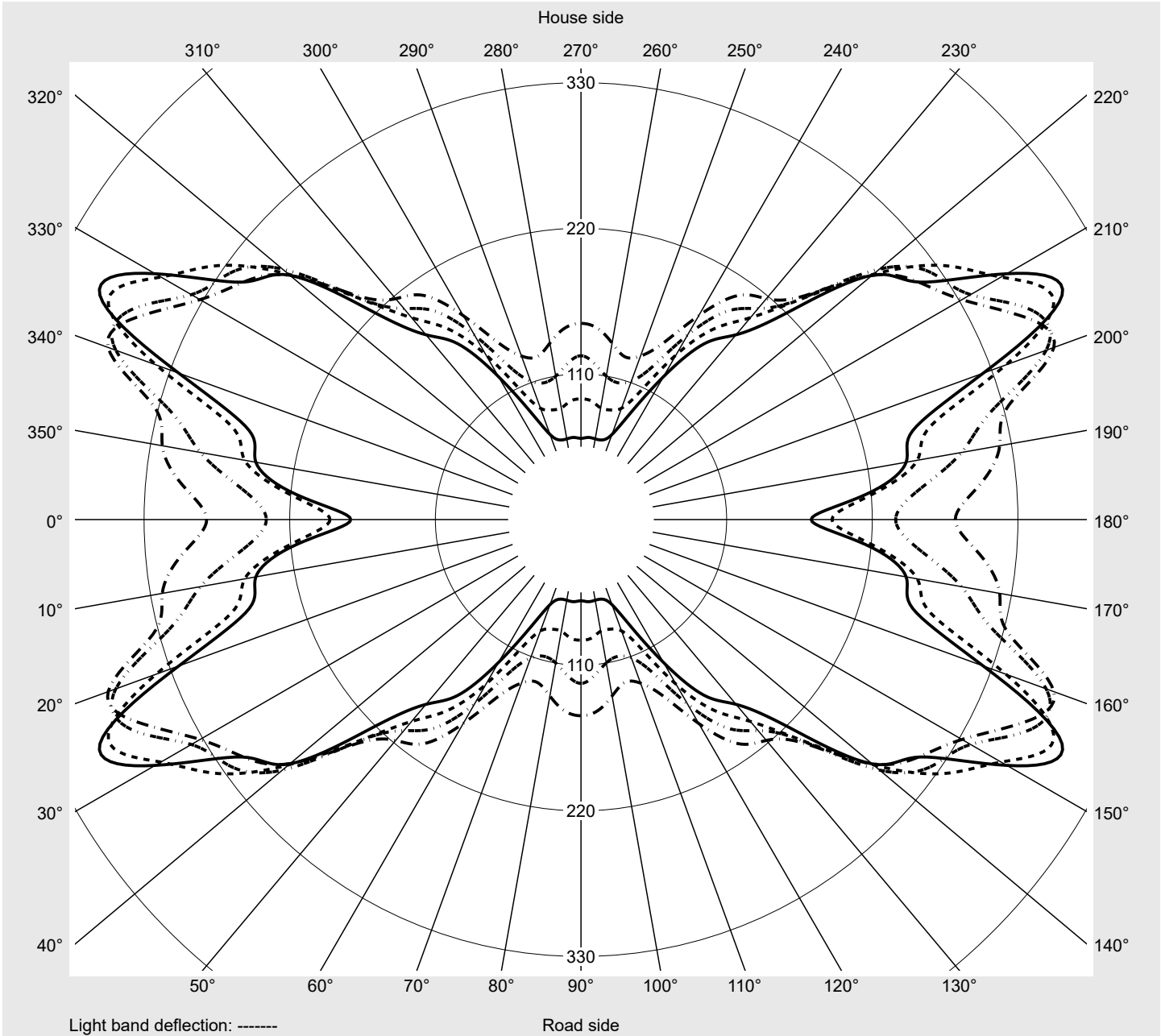
### Measurement conditions

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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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

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°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
2,5°	25.3	25.6	25.8	26.2	26.0	26.9	27.3	27.9	27.7	27.3
5,0°	37.9	38.2	38.8	38.6	38.4	37.9	37.7	38.1	38.5	39.5
7,5°	51.8	52.3	51.0	52.1	51.5	48.7	46.8	47.4	49.0	51.3
10,0°	62.2	62.3	63.7	66.4	69.8	70.7	71.1	72.3	71.6	70.4
12,5°	90.5	92.6	93.4	89.7	87.2	83.2	84.2	84.5	90.4	89.8
15,0°	89.9	101.2	103.2	104.3	102.5	112.4	120.5	115.8	118.4	112.5
17,5°	127.6	123.7	127.0	134.8	131.7	131.9	128.3	131.6	129.4	126.6
20,0°	152.3	150.9	149.7	151.7	149.4	141.9	131.8	124.5	123.8	118.1
22,5°	157.1	159.1	165.3	157.6	153.3	143.3	135.4	132.5	123.5	117.1
25,0°	159.6	152.0	158.6	149.9	152.2	149.3	145.8	138.6	124.4	115.9
27,5°	178.8	161.8	157.1	153.6	155.0	159.9	151.1	153.9	145.0	134.0
30,0°	204.8	179.3	197.8	179.9	169.4	163.8	148.3	140.2	142.5	147.0
32,5°	165.9	178.7	174.4	172.2	171.4	170.9	162.7	151.6	157.3	167.3
35,0°	208.5	216.0	210.4	200.0	189.3	181.9	174.8	164.6	163.3	167.0
37,5°	213.6	228.3	227.6	211.3	197.8	179.6	168.8	175.4	184.3	181.1
40,0°	226.9	244.3	235.1	220.1	211.0	196.5	180.1	184.7	195.4	201.2
42,5°	263.7	257.2	241.8	224.5	218.5	204.2	201.0	202.5	202.3	213.0
45,0°	273.3	272.5	263.5	241.7	228.7	203.3	205.7	220.2	223.9	220.2
47,5°	291.7	278.8	285.2	269.3	241.6	213.8	221.0	234.9	240.5	232.4
50,0°	297.4	298.3	308.8	291.1	266.5	227.9	254.7	255.7	245.8	234.4
52,5°	299.4	301.4	302.0	303.9	288.6	262.6	278.2	278.6	253.3	235.0
55,0°	303.7	321.4	318.2	320.1	319.5	300.0	300.6	291.2	265.1	239.5
57,5°	306.8	324.5	322.7	332.5	354.6	336.5	323.0	298.1	275.3	240.9
60,0°	282.7	302.4	321.1	334.7	380.0	365.2	332.2	312.2	286.8	239.2
62,5°	237.7	256.0	291.9	322.4	373.9	374.9	339.8	324.2	294.4	236.4
65,0°	189.6	221.3	257.9	273.5	341.5	393.8	366.4	334.5	288.2	235.8
67,5°	173.9	215.5	249.4	259.4	323.3	400.9	371.4	312.7	287.1	221.8
70,0°	196.1	224.3	258.1	273.0	300.6	366.2	344.0	295.3	256.8	203.8
72,5°	219.3	229.0	241.0	253.7	292.9	327.7	316.6	262.8	205.3	169.2
75,0°	175.7	183.5	207.7	221.0	264.4	272.0	262.5	196.3	145.4	124.9
77,5°	144.3	133.9	140.2	155.5	169.5	163.4	152.2	115.3	98.5	91.1
80,0°	74.0	69.8	74.4	92.9	86.6	85.0	91.9	83.7	74.9	58.4
82,5°	43.2	40.8	43.5	58.4	48.2	45.5	56.7	64.9	56.7	42.4
85,0°	20.8	21.1	22.9	28.4	27.5	30.8	37.8	41.7	33.1	27.9
87,5°	11.2	11.4	12.0	13.5	15.5	16.5	16.6	18.0	19.3	17.8
90,0°	10.0	10.2	10.5	11.2	11.4	11.7	11.9	11.8	11.2	10.8
92,5°	8.8	9.0	9.1	9.1	9.0	9.0	9.0	8.9	8.7	8.6
95,0°	8.6	8.6	8.7	8.5	8.4	8.3	8.2	7.9	7.9	7.7
97,5°	7.9	8.2	8.3	8.1	7.9	7.9	7.8	7.6	7.5	7.4
100,0°	7.5	7.7	7.8	7.8	7.7	7.5	7.5	7.3	7.1	7.0
102,5°	7.1	7.4	7.4	7.4	7.3	7.1	7.1	7.0	6.8	6.6
105,0°	6.9	7.0	7.1	7.0	7.0	6.7	6.7	6.7	6.6	6.4
107,5°	6.5	6.6	6.8	6.6	6.6	6.6	6.5	6.3	6.2	6.2
110,0°	6.1	6.2	6.4	6.3	6.2	6.2	6.1	6.0	6.0	5.8

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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes $\gamma$	50°	55°	60°	65°	70°	75°	80°	85°	90°	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	
0,0°	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	0.0	0.0
2,5°	27.2	27.6	27.8	27.7	28.4	29.5	28.6	27.8	27.7	0.3	0.4
5,0°	39.8	39.9	39.6	38.9	38.2	38.0	38.8	39.0	38.9	0.9	1.3
7,5°	55.9	57.1	58.1	55.1	53.8	53.1	52.9	53.0	51.2	1.9	3.2
10,0°	73.9	76.7	75.5	73.7	74.5	78.6	78.8	79.3	80.1	3.4	6.6
12,5°	91.8	95.2	93.6	89.1	88.9	90.9	93.7	95.6	95.8	5.4	12.0
15,0°	110.2	111.7	111.4	110.5	112.7	113.0	114.0	116.4	119.6	7.9	19.8
17,5°	122.6	119.6	121.1	120.0	125.5	131.7	136.5	139.4	138.0	10.6	30.4
20,0°	115.9	123.3	126.3	127.9	130.4	133.5	135.8	138.9	142.9	12.6	43.0
22,5°	120.8	126.7	131.7	134.3	135.8	139.7	144.3	146.7	145.7	14.7	57.7
25,0°	118.2	126.4	133.8	136.7	142.4	147.9	155.0	156.7	158.0	16.5	74.2
27,5°	129.8	129.5	140.9	144.7	147.0	149.0	152.3	154.5	156.1	18.9	93.1
30,0°	143.0	138.9	147.5	155.7	158.4	155.7	154.3	151.6	149.6	21.7	114.8
32,5°	166.8	162.8	160.6	165.8	165.6	158.5	157.5	159.3	158.8	24.3	139.1
35,0°	176.3	179.8	169.7	170.4	173.7	166.1	163.6	164.8	164.5	28.1	167.2
37,5°	183.4	194.4	187.2	181.6	178.8	168.5	166.4	168.2	168.2	31.3	198.5
40,0°	197.3	201.4	199.4	186.8	180.6	169.6	169.0	171.0	172.0	34.7	233.1
42,5°	212.1	207.6	206.6	194.1	181.0	171.8	172.2	174.6	176.1	38.1	271.3
45,0°	221.4	214.9	209.3	200.7	182.3	174.5	175.2	177.6	178.3	41.6	312.8
47,5°	228.2	222.4	212.0	201.2	181.3	175.8	176.0	177.8	178.6	45.2	358.1
50,0°	234.0	226.2	212.4	198.2	178.7	176.1	176.8	179.6	180.4	49.0	407.1
52,5°	235.9	230.6	212.6	190.0	173.6	173.4	176.5	180.7	181.0	52.2	459.3
55,0°	236.2	230.0	205.0	178.3	162.6	164.2	169.8	176.7	178.8	55.4	514.7
57,5°	229.9	223.0	194.8	163.2	148.3	149.5	156.3	163.6	167.5	57.5	572.1
60,0°	217.8	206.6	177.8	147.2	131.5	127.4	135.3	144.9	148.2	57.7	629.9
62,5°	208.1	192.1	160.8	127.2	111.3	107.0	110.0	118.1	123.7	55.8	685.6
65,0°	199.0	176.2	143.7	107.6	89.5	85.7	85.6	89.9	91.1	52.9	738.5
67,5°	182.2	162.0	124.6	89.2	68.4	62.3	61.9	62.3	61.4	50.3	788.8
70,0°	165.3	144.3	105.8	74.7	53.5	41.7	40.9	41.5	41.6	47.4	836.1
72,5°	138.3	119.1	87.5	57.9	42.2	29.5	27.2	26.5	27.3	42.8	879.0
75,0°	117.2	105.9	77.5	45.1	27.8	22.5	20.3	19.7	19.6	35.5	914.4
77,5°	92.7	91.2	66.1	33.4	19.5	17.3	16.3	16.0	15.7	24.6	939.0
80,0°	50.5	51.2	34.1	17.1	14.0	13.2	13.1	13.0	12.8	14.5	953.5
82,5°	33.2	24.3	18.0	12.2	11.3	10.9	10.8	10.7	10.8	9.3	962.8
85,0°	21.8	17.1	14.0	10.6	9.8	9.5	9.3	9.1	9.0	5.9	968.7
87,5°	15.0	12.1	10.5	9.3	8.9	8.7	8.3	8.1	7.7	3.5	972.2
90,0°	10.2	9.8	9.0	8.6	8.3	7.8	7.4	7.3	7.3	2.7	974.9
92,5°	8.5	8.3	8.3	8.1	7.9	7.4	7.1	6.9	6.9	2.3	977.2
95,0°	7.5	7.5	7.1	7.0	6.8	6.6	6.6	6.5	6.5	2.1	979.3
97,5°	7.1	7.0	6.8	6.6	6.6	6.4	6.3	6.3	6.3	2.0	981.3
100,0°	6.7	6.7	6.6	6.4	6.2	6.2	6.1	6.1	6.1	1.9	983.1
102,5°	6.6	6.5	6.2	6.2	6.0	5.9	5.9	5.8	5.7	1.8	984.9
105,0°	6.2	6.2	6.1	5.8	5.8	5.8	5.7	5.6	5.5	1.7	986.6
107,5°	6.0	5.8	5.8	5.8	5.5	5.5	5.5	5.4	5.1	1.6	988.2
110,0°	5.7	5.7	5.6	5.5	5.5	5.4	5.3	5.2	4.7	1.5	989.7

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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°	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	6.0	6.0	6.1	5.9	5.8	5.7	5.7	5.7	5.6
115,0°	5.5	5.6	5.7	5.7	5.7	5.7	5.6	5.4	5.4	5.3
117,5°	5.1	5.3	5.3	5.3	5.3	5.3	5.3	5.1	5.1	5.0
120,0°	5.5	5.0	4.9	5.1	5.2	5.0	4.9	4.9	4.9	4.9
122,5°	4.7	4.7	4.9	4.8	4.8	4.8	4.7	4.8	4.6	4.5
125,0°	4.3	4.3	4.4	4.4	4.3	4.3	4.3	4.3	4.2	4.3
127,5°	3.7	3.7	3.7	3.7	3.8	3.7	3.7	3.7	3.6	3.7
130,0°	3.3	2.9	2.9	3.1	3.1	3.0	3.0	2.9	2.9	2.9
132,5°	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.2
135,0°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9
137,5°	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
140,0°	1.6	1.6	1.6	1.5	1.6	1.5	1.6	1.6	1.5	1.5
142,5°	1.4	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
145,0°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
147,5°	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.0	0.9	1.0
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°	5.6	5.5	5.4	5.3	5.2	5.2	5.1	5.0	4.1	1.4	991.1	
115,0°	5.3	5.3	5.1	5.1	5.1	5.0	5.0	4.4	2.9	1.3	992.4	
117,5°	5.0	4.9	4.9	4.9	4.8	4.9	4.8	4.0	2.4	1.2	993.6	
120,0°	4.9	4.9	4.8	4.7	4.7	4.6	4.6	3.5	2.0	1.1	994.7	
122,5°	4.5	4.5	4.5	4.5	4.5	4.5	4.4	3.2	2.0	1.0	995.8	
125,0°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.9	1.8	0.9	996.7	
127,5°	3.7	3.6	3.6	3.5	3.6	3.6	3.3	2.4	1.6	0.8	997.5	
130,0°	2.9	2.9	2.8	2.8	2.9	2.9	2.7	2.0	1.6	0.6	998.0	
132,5°	2.2	2.2	2.2	2.2	2.2	2.2	2.0	1.6	1.4	0.4	998.5	
135,0°	2.0	2.0	2.0	2.0	2.0	2.0	1.8	1.6	1.4	0.4	998.9	
137,5°	1.7	1.8	1.6	1.6	1.6	1.6	1.6	1.4	1.2	0.3	999.2	
140,0°	1.5	1.5	1.6	1.5	1.6	1.6	1.5	1.2	1.2	0.3	999.5	
142,5°	1.3	1.3	1.2	1.3	1.2	1.2	1.2	1.2	1.2	0.2	999.7	
145,0°	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.0	1.2	0.2	999.9	
147,5°	0.9	1.0	0.9	1.0	1.1	1.0	1.0	1.0	1.0	0.2	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	

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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]	Power consumption [W]	Power consumption [W]
				start of lifetime	end of lifetime	average
100	254	254	3000	18.5	19.7	19.1
95	241	252	2846	17.5	18.6	18.0
90	229	250	2705	16.6	17.6	17.1
85	216	248	2551	15.6	16.6	16.1
80	203	246	2398	14.7	15.6	15.2
75	190	243	2244	13.7	14.6	14.2
70	178	241	2102	12.8	13.6	13.2
65	165	238	1949	11.9	12.6	12.2
60	152	235	1795	11.0	11.6	11.3
55	140	232	1654	10.1	10.8	10.4
50	127	229	1500	9.3	9.8	9.6
45	114	225	1346	8.4	8.9	8.6
40	102	221	1205	7.7	8.1	7.9
35	89	216	1051	6.8	7.2	7.0
30	76	210	898	6.0	6.3	6.2
25	63	203	744	5.2	5.5	5.4
20	51	195	602	4.5	4.7	4.6
18	46	191	543	4.1	4.3	4.2