

Photometric test report

Family
MUSHROOM LUMINAIRE LED

Order number: 5XA5235JF14H
EAN: 4058352635797

LP number
57120_28



Version post-top- or mounting to wall arm
Optic symmetric, wide distribution (PL1.2s)
Cover cover transparent, PMMA
Lamps LED 3000 K | CRI ≥ 70
Controlgear ECG SITECO iQ
Rated values Net luminous flux = 3000 lm
Power consumption = 19.3 W
Luminous efficacy = 155.4 lm/W

serial
documentation
24.02.2023

siteco

Luminous intensity in cd/klm

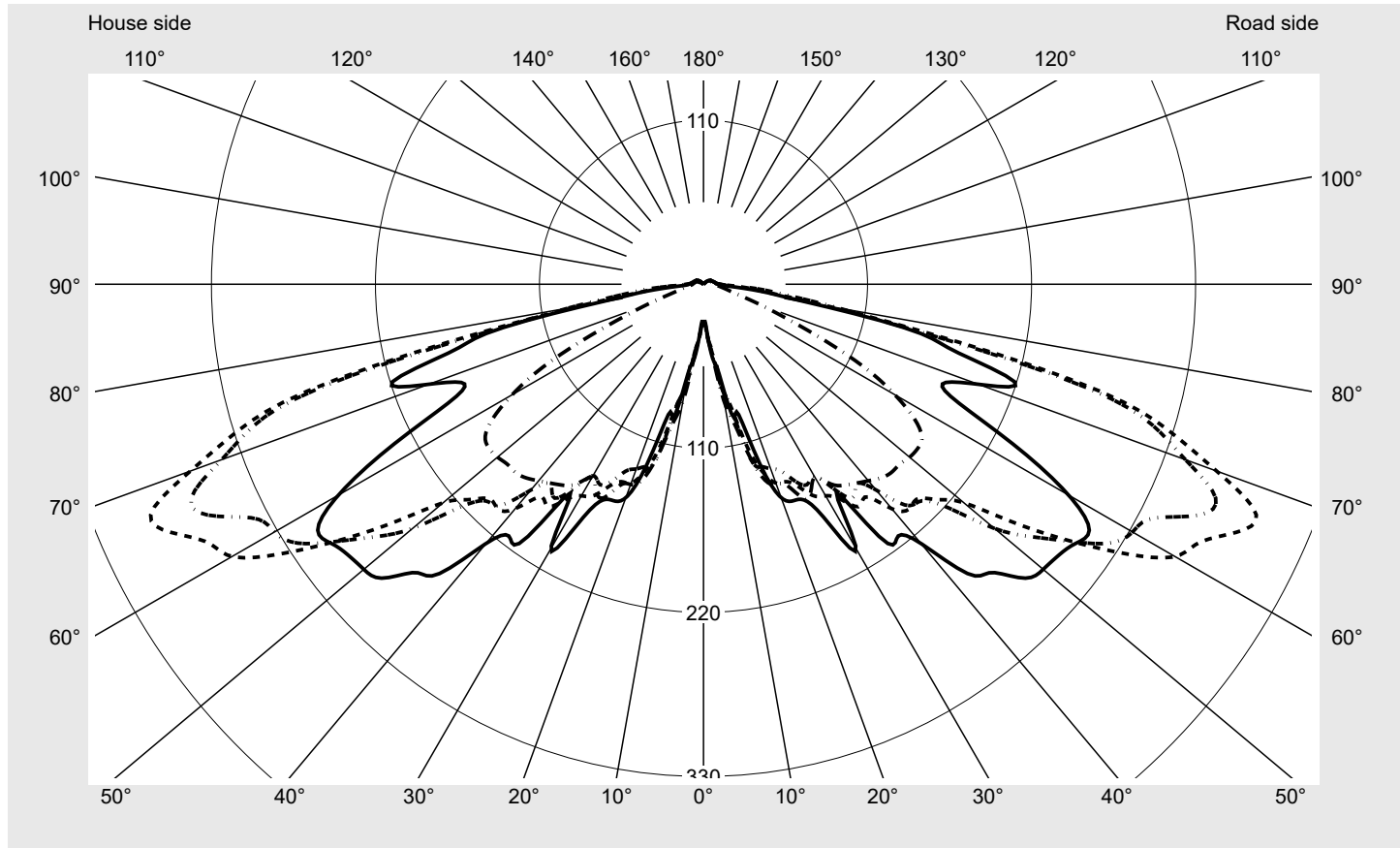
C180-0

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

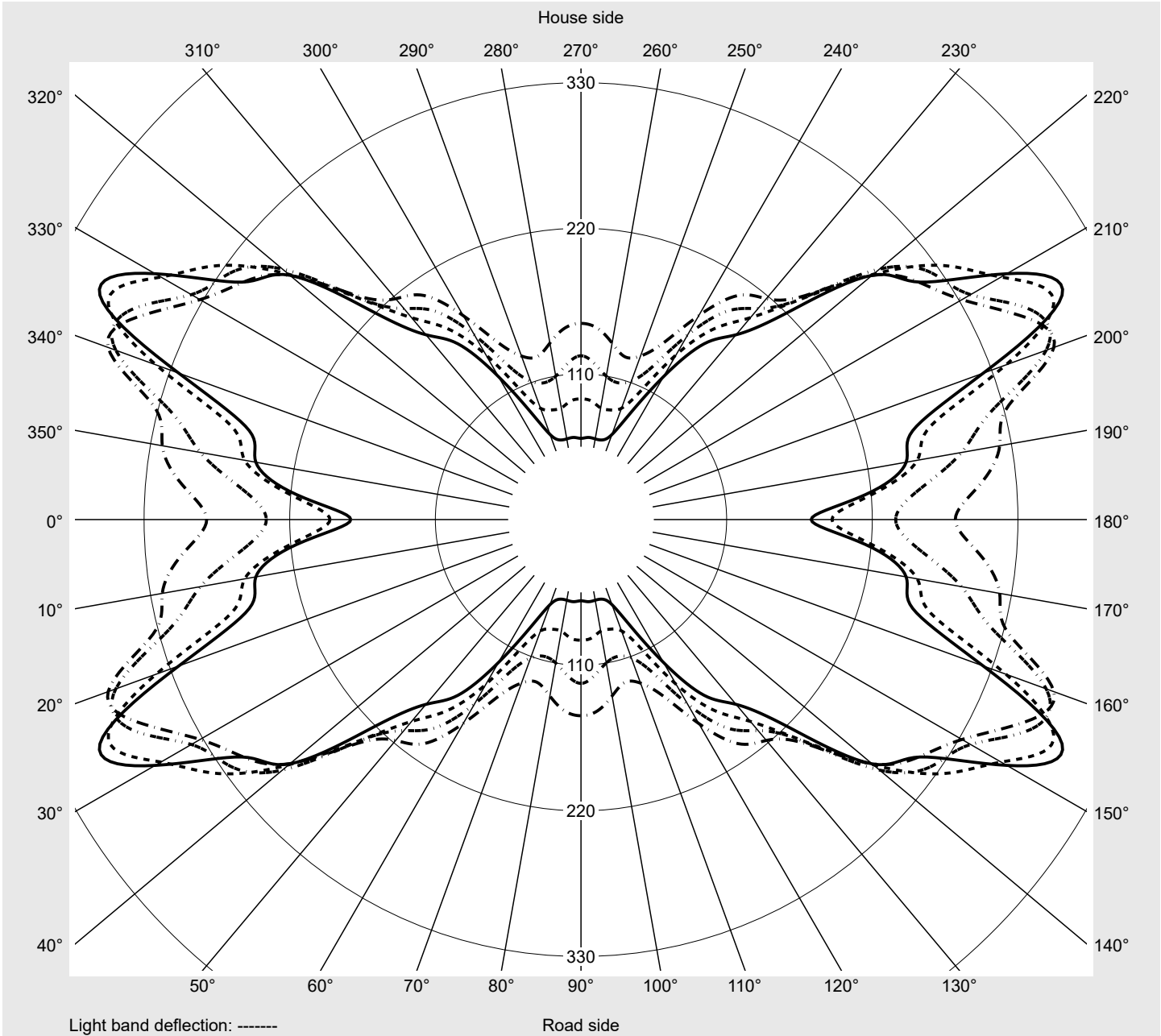
DIN EN 13032 and DIN 5032

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



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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°
γ Luminous intensity in cd/klm										
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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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	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

Photometric test report

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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	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	

Photometric test report

Family MUSHROOM LUMINAIRE LED	Order number: 5XA5235JF14H EAN: 4058352635797	LP number 57120_28
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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	3000	19.3	20.6	20.0
95	241	252	2846	18.3	19.4	18.8
90	229	250	2705	17.3	18.4	17.8
85	216	248	2551	16.3	17.3	16.8
80	203	246	2398	15.2	16.2	15.7
75	190	243	2244	14.2	15.1	14.6
70	178	241	2102	13.3	14.1	13.7
65	165	238	1949	12.4	13.2	12.8
60	152	235	1795	11.4	12.1	11.8
55	140	232	1654	10.5	11.2	10.8
50	127	229	1500	9.6	10.1	9.8
45	114	225	1346	8.7	9.2	9.0
40	102	221	1205	7.9	8.3	8.1
35	89	216	1051	7.1	7.4	7.2
30	76	210	898	6.2	6.5	6.4
25	63	203	744	5.4	5.6	5.5
20	51	195	602	4.6	4.8	4.7
17	44	190	520	4.1	4.3	4.2