

Photometric test report

Family LARGE BELL LED



Order number: 5XA1565E1F308
EAN: 4069025073792

LP number
59564_5

Version suspended mounting at curved mast extension
or wall bracket

Optic asymmetric, wide distribution (ST1.2a)

Cover flat glass

Lamps LED 3000 K | CRI ≥ 70

Controlgear ECG SITECO iQ

Rated values Net luminous flux = 4750 lm
Power consumption = 34.3 W
Luminous efficacy = 138.5 lm/W

serial
documentation
04.03.2024

siteco

Luminous intensity in cd/klm

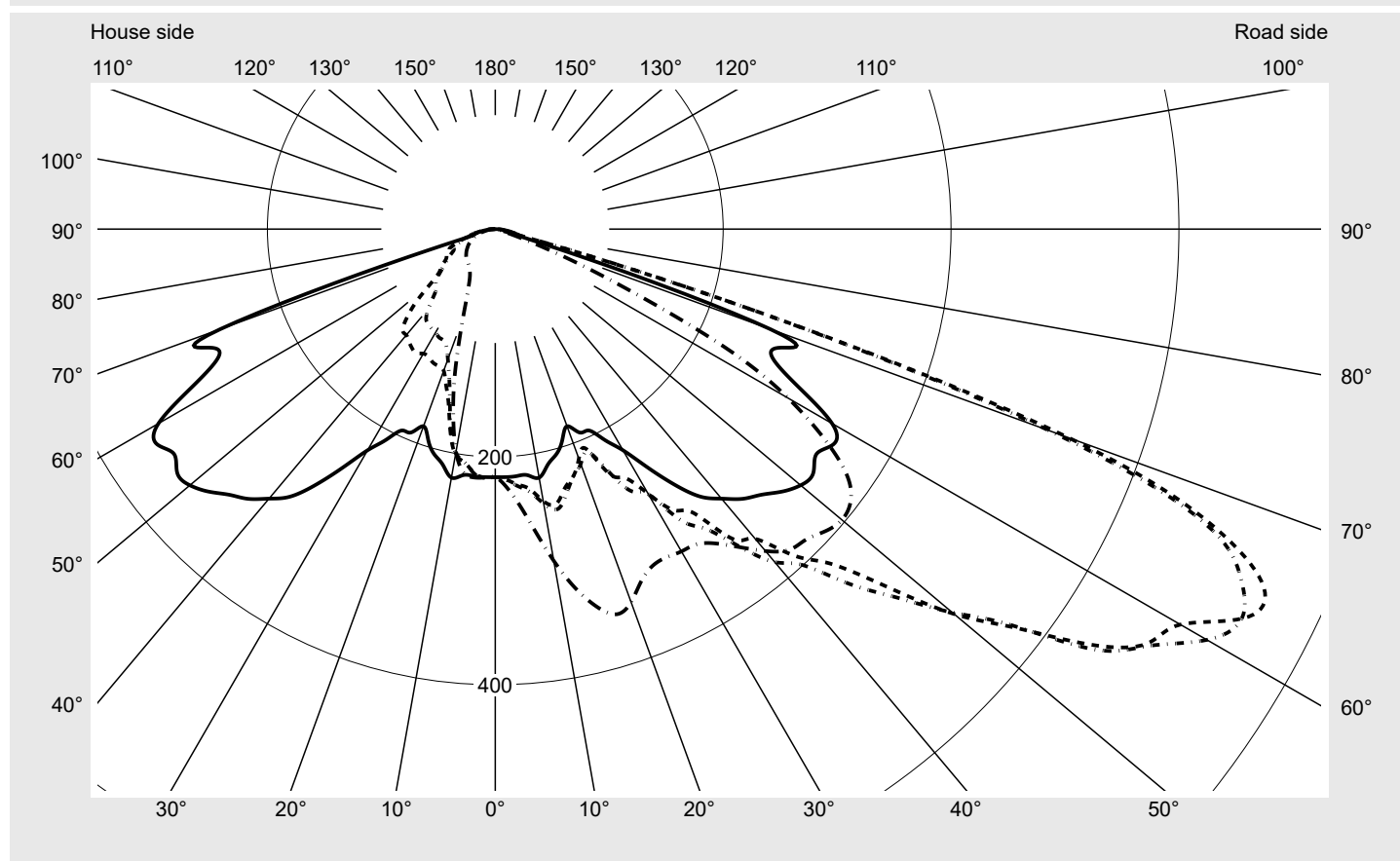
C180-0

C205-25

C210-30

C270-90

Imax: 744 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°	535.6
Imax 80°	15.9
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

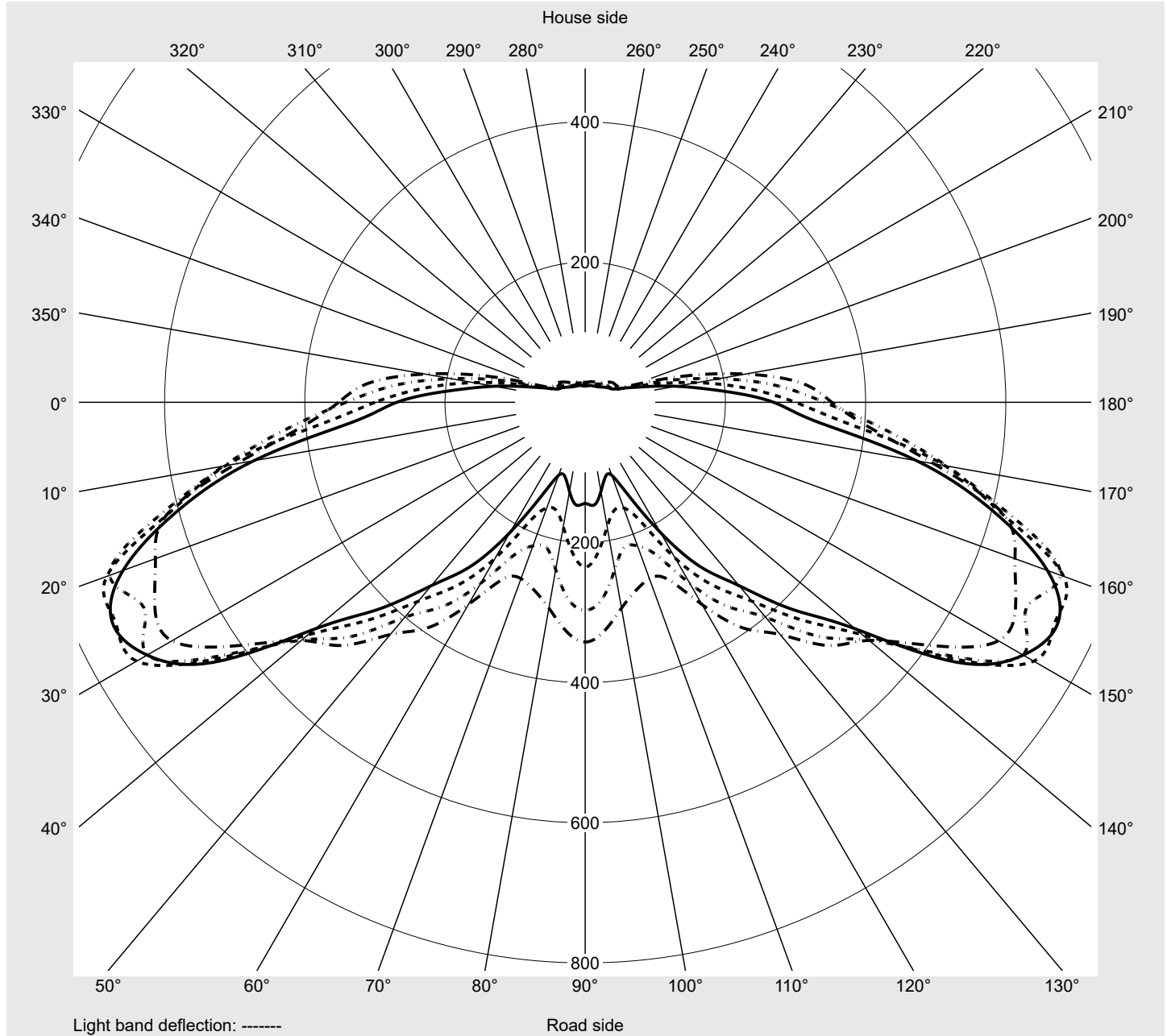
KMK 65°

KMK 62.5°

KMK 60°

KMK 57.5°

siteco



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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°	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8
2,5°	217.9	218.3	218.9	219.7	220.0	220.1	220.5	221.1	221.9	222.6	223.1	223.4	223.3
5,0°	217.6	219.1	221.0	222.6	224.0	225.1	226.4	227.8	229.6	231.4	233.2	234.2	235.4
7,5°	217.9	220.7	223.4	225.7	227.9	230.1	232.7	235.7	239.2	243.1	246.8	250.0	253.3
10,0°	221.6	227.6	232.2	236.1	239.2	242.4	244.7	247.4	250.9	255.2	260.4	266.4	273.0
12,5°	212.1	219.3	226.5	233.6	241.4	247.0	251.9	256.4	260.1	263.3	267.1	273.7	283.6
15,0°	205.3	213.4	220.7	226.4	231.3	235.6	240.9	246.6	252.0	256.8	261.1	267.9	279.3
17,5°	195.0	204.7	213.2	220.4	225.5	227.6	228.0	226.9	228.6	234.5	243.8	253.5	266.8
20,0°	184.2	188.8	195.0	202.5	208.8	214.5	219.3	221.4	219.2	219.7	228.7	244.8	260.0
22,5°	193.3	199.9	204.7	209.0	210.5	209.0	211.4	217.8	223.5	224.6	228.4	244.8	263.9
25,0°	195.1	200.2	210.0	223.6	233.7	237.3	234.5	226.9	226.1	236.8	245.2	254.9	273.3
27,5°	209.0	218.1	226.9	231.2	235.6	246.2	259.5	262.0	251.0	249.4	267.2	278.0	288.8
30,0°	224.2	239.6	249.3	260.7	266.9	268.1	268.8	281.2	291.5	283.3	287.4	305.3	308.8
32,5°	247.5	260.1	266.1	267.3	276.2	292.8	303.0	301.8	313.5	329.4	320.0	326.2	336.1
35,0°	273.6	290.5	300.6	305.1	304.7	304.7	321.0	344.9	345.7	353.4	365.5	349.1	360.5
37,5°	296.1	308.9	310.1	311.5	324.0	343.1	350.8	360.0	386.5	381.5	388.8	385.7	378.6
40,0°	308.9	319.9	324.4	335.7	340.7	354.9	381.6	399.1	400.7	422.6	410.3	415.3	402.7
42,5°	321.2	319.8	329.6	347.1	367.1	389.0	400.3	416.6	443.4	440.1	448.7	429.8	424.6
45,0°	329.9	327.9	353.6	383.1	412.5	415.1	441.0	441.4	459.5	477.4	465.1	452.8	433.2
47,5°	341.1	346.9	374.4	415.1	440.1	463.3	479.1	461.7	477.2	486.1	480.7	465.6	434.9
50,0°	349.9	363.9	407.8	436.6	463.6	525.7	523.7	486.8	490.7	500.3	483.1	454.5	421.3
52,5°	351.8	372.8	431.8	503.0	531.7	574.7	571.2	527.6	510.3	508.5	475.4	437.9	398.0
55,0°	344.2	389.5	450.1	547.0	574.8	635.4	643.8	559.6	525.8	508.0	456.8	415.9	360.5
57,5°	351.8	406.4	505.1	617.6	652.5	677.6	680.8	605.4	528.6	490.8	432.6	393.3	333.1
60,0°	341.3	425.5	524.0	631.2	721.7	694.3	721.2	628.8	528.0	472.9	400.6	356.2	298.2
62,5°	299.9	384.7	521.0	616.2	726.5	740.0	739.0	636.5	516.2	440.3	370.9	319.4	257.0
65,0°	268.8	335.9	480.1	603.5	701.6	744.2	721.5	646.7	503.0	418.0	341.6	286.5	214.3
67,5°	271.9	314.6	419.3	541.5	610.0	682.7	673.5	611.8	472.9	382.4	304.7	243.0	172.8
70,0°	257.0	311.0	372.9	460.6	502.0	535.6	517.8	469.9	348.6	291.2	221.9	175.9	135.0
72,5°	62.6	101.4	133.6	190.5	216.0	244.1	242.7	228.6	178.4	149.4	111.8	86.8	66.8
75,0°	21.0	20.3	19.9	19.8	21.0	26.8	33.2	36.8	34.3	34.5	34.6	35.7	37.5
77,5°	17.8	17.5	16.7	16.2	15.7	14.8	13.7	12.3	10.6	9.5	8.6	8.1	7.9
80,0°	14.3	13.6	13.0	12.4	11.8	10.9	9.7	8.8	7.6	6.9	6.0	5.5	5.0
82,5°	10.2	9.8	9.3	8.9	8.4	7.8	7.0	6.3	5.7	5.0	4.6	4.1	3.7
85,0°	6.9	6.6	6.2	5.8	5.5	5.1	4.7	4.2	3.9	3.4	3.0	2.7	2.5
87,5°	4.2	4.1	3.9	3.7	3.3	3.1	2.9	2.6	2.4	2.1	1.9	1.7	1.6
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

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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°	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8
2,5°	223.7	224.5	225.3	226.1	226.5	226.7	217.1	216.7	216.9	217.5	218.3	218.7	218.6
5,0°	236.8	238.5	240.2	241.8	242.7	243.0	216.0	214.7	213.8	214.0	214.7	215.2	215.6
7,5°	257.1	260.6	263.5	266.0	267.0	267.1	214.7	211.6	209.0	207.3	206.6	206.4	206.2
10,0°	279.5	285.0	289.5	292.8	294.8	295.7	215.9	210.8	206.6	203.2	201.0	199.8	199.1
12,5°	294.3	303.4	311.2	317.4	321.3	322.3	204.5	197.3	190.9	185.4	182.0	180.3	180.4
15,0°	295.0	310.9	324.7	335.4	341.4	343.0	195.8	186.4	175.8	166.0	158.4	153.9	152.5
17,5°	284.7	306.4	326.3	341.7	350.7	354.5	186.6	177.4	168.1	156.3	143.6	134.8	129.5
20,0°	276.8	299.3	319.7	335.0	345.2	348.4	177.3	166.1	155.8	146.1	132.3	121.6	115.3
22,5°	278.3	295.0	313.0	325.2	331.9	334.6	184.8	175.7	160.3	146.5	130.0	111.9	104.6
25,0°	288.9	298.7	310.4	318.8	323.6	326.3	184.6	174.0	161.5	144.3	129.3	107.7	97.3
27,5°	305.2	310.8	315.5	319.6	323.0	324.9	199.8	182.5	165.8	145.4	126.7	107.1	92.9
30,0°	319.3	323.3	319.6	323.9	326.4	326.7	208.8	195.0	171.8	153.1	126.3	104.7	89.6
32,5°	333.5	332.5	324.8	328.9	330.8	328.2	226.5	207.5	181.5	157.0	129.0	103.6	87.1
35,0°	353.1	341.7	334.6	337.3	339.4	336.9	246.2	225.3	193.1	163.3	127.5	101.9	80.6
37,5°	378.2	354.9	347.8	349.0	352.1	351.9	265.2	238.8	199.3	169.5	124.4	99.7	71.9
40,0°	396.3	367.2	360.7	362.3	366.4	368.9	274.9	247.8	204.4	166.0	121.5	91.3	66.6
42,5°	399.7	373.5	370.0	375.0	380.0	381.9	284.7	256.8	207.2	160.2	120.4	80.2	67.7
45,0°	402.4	374.0	376.0	385.7	388.0	385.6	294.8	261.7	213.3	149.6	109.4	72.6	69.1
47,5°	402.4	372.1	377.7	389.5	395.1	392.7	303.3	259.6	211.2	142.5	93.3	70.7	67.8
50,0°	391.1	365.4	367.3	383.0	396.9	397.1	305.3	254.5	199.6	129.8	72.9	66.3	63.0
52,5°	363.3	349.0	348.9	363.8	386.7	393.1	305.3	253.8	187.7	118.0	61.8	59.9	57.4
55,0°	319.2	319.1	321.4	336.0	360.4	376.8	305.2	248.5	172.5	101.6	58.0	54.5	52.3
57,5°	278.7	267.8	278.4	298.2	326.3	342.2	310.7	232.0	143.4	70.8	52.5	49.9	48.5
60,0°	240.6	218.1	214.4	242.4	281.3	296.7	273.9	194.0	117.9	58.1	49.4	45.6	44.7
62,5°	187.8	160.5	159.7	180.4	214.4	235.1	230.8	161.6	99.3	58.9	47.9	41.5	40.0
65,0°	147.2	110.9	110.5	129.1	147.1	144.4	192.0	131.8	85.3	59.7	44.7	40.3	36.9
67,5°	111.0	73.8	66.9	73.6	78.4	77.9	185.5	120.4	79.4	55.1	42.9	39.5	34.6
70,0°	80.4	49.6	35.5	29.2	29.0	32.9	157.7	92.3	61.0	43.8	36.1	32.5	29.8
72,5°	39.0	26.5	16.9	11.6	10.7	11.0	48.9	39.8	36.5	32.3	29.9	28.2	26.1
75,0°	22.0	13.4	9.6	7.4	6.8	6.7	21.3	22.0	22.6	23.3	23.6	23.2	23.5
77,5°	7.3	6.7	5.5	5.0	4.9	4.7	18.9	19.6	20.1	20.8	20.8	21.0	20.4
80,0°	4.6	4.2	4.0	3.8	3.5	3.4	14.7	15.3	15.9	15.8	15.7	15.2	14.8
82,5°	3.3	3.0	2.8	2.7	2.6	2.6	10.6	11.1	11.4	11.4	11.1	10.9	10.5
85,0°	2.2	2.0	1.9	1.8	1.8	1.8	7.1	7.3	7.4	7.3	7.3	7.1	6.9
87,5°	1.4	1.3	1.2	1.1	1.0	1.0	4.3	4.4	4.5	4.4	4.4	4.3	4.2
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°	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	217.8	0.3	0.3
2,5°	218.6	218.7	218.7	218.9	218.9	218.6	218.3	218.1	218.1	218.1	218.2	2.6	3.0
5,0°	215.9	216.6	217.2	218.0	218.7	219.0	219.1	219.1	218.9	218.9	218.8	5.4	8.3
7,5°	206.2	206.7	207.9	209.5	211.2	213.0	214.1	214.6	215.1	215.2	215.2	8.1	16.4
10,0°	198.2	197.0	196.0	195.4	195.6	197.0	198.4	198.8	198.6	198.4	198.4	11.0	27.4
12,5°	180.9	180.4	178.3	175.0	172.7	172.3	172.5	172.2	171.4	170.5	170.2	13.3	40.8
15,0°	153.2	154.2	152.7	147.7	143.1	141.7	141.7	141.3	140.5	139.7	139.5	15.0	55.8
17,5°	127.0	127.5	125.4	118.3	112.8	111.2	110.6	109.7	108.6	107.7	107.5	16.2	72.0
20,0°	110.3	108.7	104.0	94.9	90.4	89.0	87.7	85.8	84.3	83.2	82.7	17.1	89.0
22,5°	98.8	94.9	86.6	77.7	74.7	72.9	71.1	69.1	67.2	65.9	65.5	18.6	107.6
25,0°	91.0	84.6	73.2	67.2	65.1	63.0	60.5	58.2	56.6	55.6	55.2	20.6	128.2
27,5°	85.2	74.4	64.1	61.5	58.9	56.2	53.4	51.2	49.6	48.8	48.5	23.2	151.4
30,0°	79.4	65.6	60.1	57.8	54.8	51.5	48.9	47.0	45.5	44.8	44.4	26.4	177.9
32,5°	71.1	60.4	58.0	55.2	51.5	48.2	45.8	44.1	43.0	42.2	42.0	29.8	207.7
35,0°	63.0	59.2	56.3	52.8	49.1	45.7	43.6	42.1	41.0	40.3	40.2	33.8	241.5
37,5°	62.3	58.9	54.9	51.1	47.3	44.2	42.0	40.7	39.7	38.9	38.7	37.8	279.3
40,0°	63.1	57.9	53.2	49.2	45.6	42.8	40.8	39.4	38.5	38.0	37.7	41.7	321.0
42,5°	64.0	57.6	51.8	47.4	44.1	41.7	39.8	38.4	37.6	37.0	36.9	45.4	366.4
45,0°	64.0	56.4	49.9	45.6	42.5	40.3	38.6	37.4	36.6	36.0	35.9	49.3	415.6
47,5°	62.1	54.5	47.9	43.7	41.0	38.9	37.5	36.4	35.6	34.9	34.7	52.8	468.4
50,0°	57.5	50.9	45.1	41.6	39.1	37.5	36.3	35.2	34.3	33.6	33.3	55.6	524.0
52,5°	52.9	47.5	42.6	39.3	37.2	36.0	34.8	33.8	32.8	32.0	31.8	58.3	582.3
55,0°	48.7	44.2	40.0	37.0	35.2	34.1	33.2	32.1	31.1	30.4	30.2	60.1	642.3
57,5°	44.8	41.0	37.1	34.5	33.0	31.9	31.2	30.5	29.5	28.8	28.6	61.4	703.7
60,0°	41.0	37.2	33.9	31.8	30.7	30.0	29.4	28.7	27.7	27.1	27.0	60.7	764.4
62,5°	37.0	33.8	31.0	29.5	28.6	27.9	27.4	26.8	25.9	25.3	24.9	57.9	822.3
65,0°	33.7	30.9	28.8	27.5	26.6	25.9	25.5	24.8	23.9	23.4	23.1	54.2	876.5
67,5°	31.1	28.8	26.9	25.5	24.4	23.6	23.1	22.5	21.8	21.3	21.1	49.0	925.5
70,0°	28.0	26.2	24.4	23.1	22.1	21.2	20.6	20.1	19.4	19.1	18.9	39.5	965.1
72,5°	24.6	23.1	21.9	20.6	19.4	18.5	17.6	17.1	16.6	16.3	16.2	18.7	983.7
75,0°	23.8	22.6	20.3	18.8	16.9	15.8	15.0	14.5	14.1	13.8	13.8	5.7	989.5
77,5°	19.8	18.7	17.0	15.8	14.1	12.9	12.0	11.5	11.2	11.0	11.0	3.7	993.1
80,0°	14.1	13.6	12.7	11.8	10.6	9.8	9.3	8.8	8.4	8.3	8.3	2.7	995.9
82,5°	10.1	9.7	9.1	8.3	7.7	7.2	6.9	6.5	6.2	6.1	6.1	2.0	997.9
85,0°	6.6	6.3	6.0	5.6	5.2	4.9	4.7	4.4	4.2	4.1	4.1	1.3	999.2
87,5°	4.1	3.9	3.7	3.4	3.1	3.0	2.8	2.6	2.5	2.5	2.4	0.8	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 LARGE BELL LED	Order number: 5XA1565E1F308 EAN: 4069025073792	LP number 59564_5
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	4750	34.3	37.7	36.0
95	241	252	4507	32.1	35.2	33.7
90	229	250	4282	30.2	33.0	31.6
85	216	248	4039	28.1	30.8	29.4
80	203	246	3796	26.1	28.6	27.4
75	190	243	3553	24.2	26.5	25.4
70	178	241	3329	22.5	24.6	23.6
65	165	238	3086	20.6	22.6	21.6
60	152	235	2843	18.9	20.6	19.8
55	140	232	2618	17.2	18.8	18.0
50	127	229	2375	15.5	17.0	16.2
45	114	225	2132	13.9	15.1	14.5
40	102	221	1907	12.4	13.6	13.0
35	89	216	1664	10.8	11.8	11.3
30	76	210	1421	9.2	10.1	9.6
25	63	203	1178	7.7	8.4	8.0
20	51	195	954	6.4	6.9	6.6
15	38	184	711	4.9	5.3	5.1
11	29	175	542	3.8	4.1	4.0