

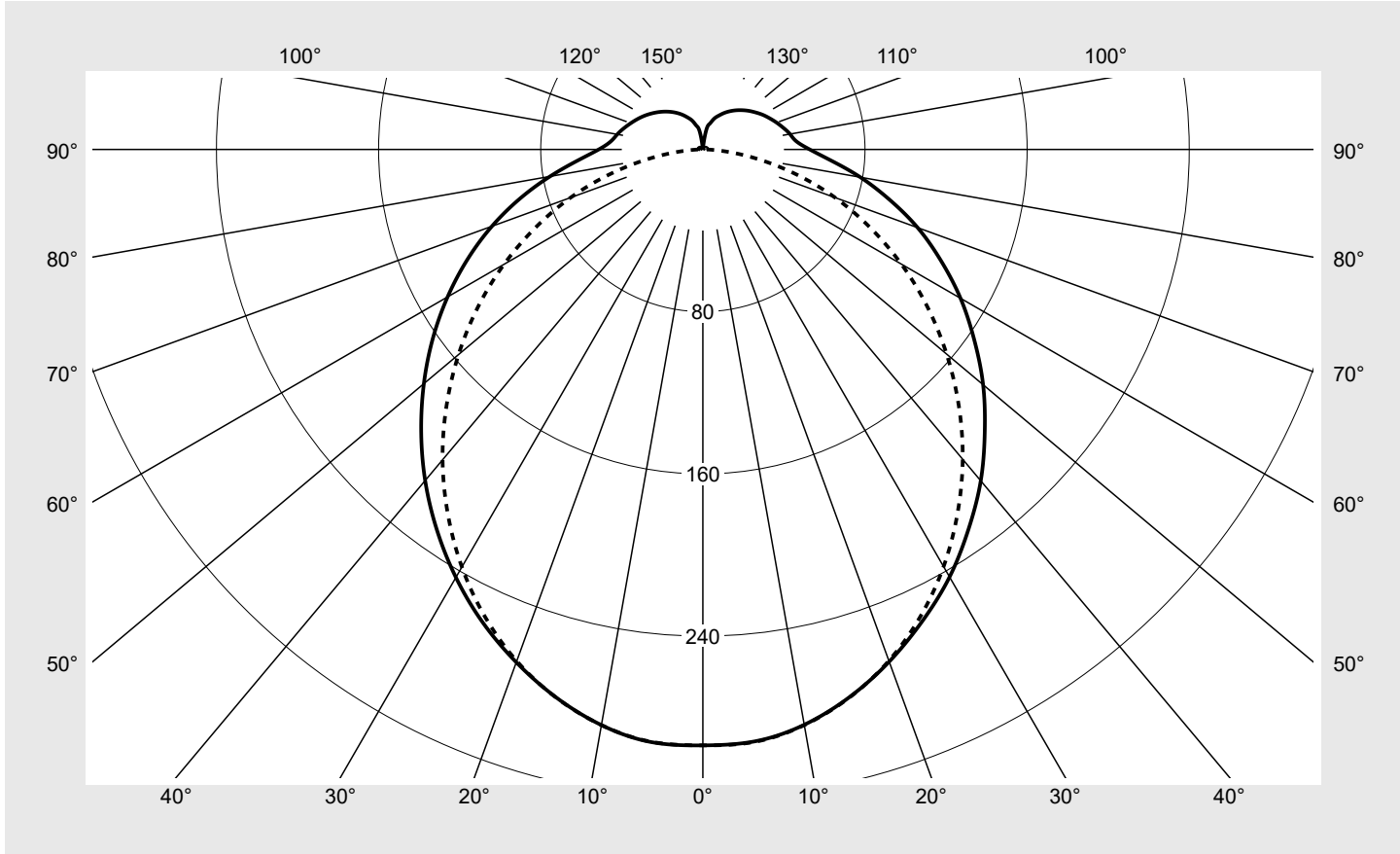


# Photometric test report

<b>Family</b> <b>Licross® 11 Recessed</b>	<b>Order number: 51TL1DDV495G</b> <b>EAN: 4058352054314</b>	<b>LP number</b> <b>59520_110</b>
	<b>Version</b> cover, opal, direct-/ indirect distribution, diffuse <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 9500 lm Power consumption = 52.6 W Luminous efficacy = 180.6 lm/W	<b>serial documentation</b> <b>18.01.2024</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 294 cd/klm**



Classifications	
DIN 5040	B 3 1
CIE	N1=44 N2=73 N3=91 N4=87 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	87.4%
$\phi_o$	12.6%

Measurement conditions
DIN EN 13032 and DIN 5032

## Photometric test report

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<b>Table of values for luminous intensities</b>	<b>Maximum luminous intensity</b>	<b>siteco</b>
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C-planes	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
$\gamma$	Luminous intensity in cd/klm												
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
5°	293.1	292.7	289.9	291.0	293.1	293.0	293.3	293.1	293.1	292.5	291.2	291.6	293.4
10°	288.1	287.8	285.0	286.0	288.1	287.9	288.3	288.0	288.0	287.5	286.2	286.7	288.3
15°	279.6	279.4	276.6	277.6	279.6	279.4	279.8	279.5	279.5	279.0	277.7	278.4	279.8
20°	268.8	268.4	265.5	266.2	268.1	267.8	268.3	268.1	268.0	267.5	266.6	267.8	269.2
25°	256.5	256.4	252.9	252.4	253.9	253.4	254.1	253.8	253.8	253.6	254.0	255.9	257.2
30°	243.5	242.9	239.1	237.4	237.4	236.9	237.6	237.4	237.5	238.5	240.0	242.5	243.7
35°	228.6	228.2	223.9	221.1	219.2	218.5	219.1	218.9	219.7	221.9	224.6	227.5	228.9
40°	213.3	212.5	208.1	204.0	200.4	198.8	199.5	199.5	201.1	204.3	208.6	211.7	213.2
45°	196.7	195.9	191.2	185.9	180.8	177.8	178.6	178.3	181.6	186.0	191.4	194.8	196.6
50°	180.5	179.0	174.4	167.8	161.5	156.5	157.0	156.9	161.7	167.6	173.9	177.7	179.7
55°	163.4	162.0	157.2	149.2	141.7	135.1	135.2	135.5	141.8	149.1	156.1	160.5	162.7
60°	146.8	144.8	139.8	131.0	122.1	114.1	113.1	114.2	121.9	130.6	138.3	143.3	145.4
65°	129.6	127.7	122.3	112.9	103.0	93.4	91.0	93.7	102.6	112.1	120.5	126.2	128.1
70°	112.8	110.6	104.4	95.0	83.9	73.2	69.4	73.2	83.4	93.6	102.3	109.1	110.8
75°	95.2	93.5	86.3	76.8	64.8	53.0	48.0	53.1	64.1	74.9	84.3	91.4	93.3
80°	78.9	76.8	69.4	59.0	47.0	34.5	28.0	34.2	45.8	57.3	67.7	74.1	76.6
85°	63.7	61.7	54.7	44.0	31.4	18.8	11.3	18.6	30.6	42.7	52.6	59.2	61.9
90°	52.7	50.3	47.2	33.6	21.8	9.7	1.7	9.7	21.3	32.8	42.6	49.1	51.4
95°	46.3	44.0	38.4	29.9	19.4	8.9	1.8	8.9	19.3	29.6	38.3	43.8	45.6
100°	43.6	41.6	36.5	28.4	19.0	9.0	2.1	8.7	18.6	27.9	35.8	41.3	42.9
105°	41.1	39.4	34.3	27.0	18.2	9.1	2.1	8.8	17.9	26.7	33.7	38.6	40.4
110°	38.7	36.7	32.3	25.7	17.6	9.2	2.0	8.7	17.0	25.1	31.7	36.0	37.9
115°	36.4	34.4	30.4	24.3	17.0	9.3	1.9	8.8	16.4	23.6	29.8	33.7	35.5
120°	34.1	32.2	28.7	23.1	16.5	9.4	1.8	8.8	15.7	22.3	27.9	31.4	33.2
125°	31.8	30.1	26.8	21.8	15.8	9.4	1.6	8.8	15.0	21.0	26.0	29.2	30.9
130°	29.6	27.9	25.1	20.7	15.3	9.5	1.4	8.7	14.3	19.7	24.1	27.1	28.6
135°	27.4	25.8	23.3	19.5	14.6	8.1	1.3	7.6	13.7	18.5	22.3	24.9	26.4
140°	25.2	23.7	21.6	18.3	13.6	7.0	1.3	6.4	12.7	17.1	20.5	22.8	24.2
145°	23.0	21.6	19.8	16.6	12.1	6.4	1.2	5.9	11.1	15.6	18.8	20.7	21.9
150°	20.7	19.6	18.1	14.3	11.0	6.2	1.3	6.0	9.5	13.3	16.9	18.6	19.6
155°	18.4	17.4	15.6	12.5	8.2	5.5	1.3	5.2	7.5	11.1	14.5	16.4	17.3
160°	16.1	15.3	12.6	10.0	7.9	5.1	1.4	4.6	6.8	7.9	11.7	14.3	14.9
165°	13.1	12.1	8.6	7.8	8.1	5.4	1.4	4.8	6.9	7.0	6.9	11.2	12.1
170°	9.8	7.7	7.3	8.0	6.5	2.9	1.4	2.2	5.4	6.7	6.3	6.6	8.9
175°	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
180°	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

## Photometric test report

<b>Family</b> <b>Licross® 11 Recessed</b>	<b>Order number: 51TL1DDV495G</b> <b>EAN: 4058352054314</b>	<b>LP number</b> <b>59520_110</b>
<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

C-planes	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm											Luminous flux in lm/klm	
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	1.8	1.8
5°	292.9	289.8	290.9	292.8	292.8	293.2	292.8	292.9	292.3	291.2	292.0	14.0	15.7
10°	288.0	285.0	285.8	287.9	287.8	288.3	287.9	288.0	287.3	286.3	287.0	27.3	43.1
15°	279.5	276.7	277.5	279.4	279.4	279.9	279.5	279.5	278.9	277.9	279.0	39.6	82.6
20°	268.9	265.7	266.2	268.0	267.9	268.5	268.2	268.1	267.5	266.6	267.7	50.2	132.8
25°	256.9	253.4	252.5	253.8	253.6	254.3	254.0	254.0	253.5	253.8	256.1	58.9	191.7
30°	243.4	239.6	237.7	237.4	237.1	237.8	237.6	237.8	238.3	239.7	242.3	65.6	257.3
35°	228.5	224.4	221.4	219.4	218.7	219.4	219.3	219.8	221.8	224.6	228.0	70.0	327.3
40°	212.7	208.2	204.2	200.7	198.9	199.8	199.8	201.1	204.3	208.6	211.9	72.3	399.6
45°	195.8	191.1	185.9	181.0	177.8	178.9	178.7	181.7	186.2	191.6	195.6	72.3	472.0
50°	178.6	174.0	167.6	161.4	156.5	157.3	157.3	162.0	168.0	174.3	178.3	70.5	542.5
55°	161.2	156.5	148.8	141.5	135.3	135.5	135.8	142.2	149.7	156.9	161.8	66.9	609.4
60°	143.7	138.7	130.1	121.6	114.2	113.3	114.6	122.5	131.3	139.3	144.4	61.7	671.1
65°	126.5	121.0	111.8	102.3	93.3	91.1	94.0	103.2	113.1	121.8	128.0	55.2	726.3
70°	109.1	102.8	93.5	83.0	72.9	69.4	73.6	84.1	94.6	103.5	110.4	47.6	773.9
75°	91.6	84.7	75.4	63.7	52.5	47.9	53.5	65.0	76.2	85.9	93.4	39.0	812.9
80°	74.9	67.7	57.5	45.8	33.9	27.9	34.5	46.6	58.5	69.1	75.6	30.2	843.1
85°	59.9	53.1	42.6	30.4	18.3	11.1	18.9	31.3	43.7	53.8	61.1	22.2	865.3
90°	49.1	42.6	32.8	21.3	9.6	1.7	9.7	21.6	33.2	43.3	50.0	16.9	882.1
95°	43.4	38.0	29.6	19.2	8.8	1.8	8.9	19.4	29.7	38.6	44.5	14.9	897.1
100°	41.0	35.9	27.9	18.7	8.8	2.1	8.9	18.7	28.1	36.1	41.8	14.0	911.1
105°	38.7	33.7	26.5	17.8	8.7	2.1	9.0	18.1	27.0	34.2	39.3	13.1	924.2
110°	35.9	31.6	25.0	17.1	8.8	2.0	9.1	17.4	25.5	32.1	36.6	12.0	936.2
115°	33.6	29.7	23.6	16.4	8.7	1.9	9.3	16.9	24.2	30.4	34.4	11.0	947.2
120°	31.4	27.9	22.4	15.7	8.8	1.8	9.3	16.2	22.9	28.6	32.2	9.9	957.1
125°	29.2	26.0	21.1	15.0	8.7	1.6	9.4	15.7	21.7	26.8	30.1	8.9	966.0
130°	27.0	24.2	19.8	14.4	8.7	1.4	9.4	15.1	20.5	24.9	27.8	7.8	973.7
135°	24.9	22.4	18.6	13.7	7.3	1.3	8.2	14.6	19.3	23.2	25.8	6.7	980.4
140°	22.7	20.6	17.3	12.7	6.4	1.3	7.0	13.5	18.0	21.5	23.6	5.6	986.0
145°	20.6	18.9	15.7	11.3	5.8	1.2	6.5	12.0	15.8	19.8	21.6	4.5	990.5
150°	18.5	17.0	13.4	10.2	6.1	1.3	6.3	10.3	14.2	17.9	19.5	3.5	994.0
155°	16.4	14.6	11.8	7.5	4.9	1.3	5.8	8.1	12.0	15.5	17.4	2.6	996.6
160°	14.2	11.8	9.1	7.1	4.6	1.4	5.2	7.3	8.7	12.7	15.3	1.8	998.3
165°	11.1	8.0	7.1	7.6	4.8	1.4	5.5	7.3	7.6	7.6	12.0	1.1	999.4
170°	6.9	7.3	7.0	5.8	2.1	1.4	3.1	6.1	7.5	6.2	7.2	0.6	1000.0
175°	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
180°	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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<b>Family</b> Licross® 11 Recessed	<b>Order number: 51TL1DDV495G</b> <b>EAN: 4058352054314</b>	<b>LP number</b> 59520_110
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siteco

UGR-Table		Standard room									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	20.2	21.7	20.7	22.2	22.7	19.9	21.4	20.3	21.9	22.4
	3H	22.1	23.5	22.6	24.0	24.5	21.4	22.9	21.9	23.3	23.8
	4H	22.9	24.2	23.4	24.7	25.3	21.9	23.3	22.5	23.8	24.3
	6H	23.7	24.9	24.2	25.4	26.0	22.3	23.5	22.8	24.1	24.7
	8H	24.1	25.2	24.6	25.8	26.4	22.5	23.6	23.0	24.2	24.8
	12H	24.4	25.4	25.0	26.0	26.7	22.5	23.6	23.1	24.1	24.8
4H	2H	20.9	22.2	21.4	22.7	23.3	20.6	21.9	21.1	22.4	22.9
	3H	22.9	24.0	23.5	24.6	25.2	22.2	23.4	22.8	23.9	24.5
	4H	23.9	25.0	24.5	25.5	26.2	23.0	24.0	23.5	24.5	25.2
	6H	24.9	25.7	25.5	26.3	27.0	23.4	24.3	24.0	24.9	25.6
	8H	25.3	26.2	26.0	26.8	27.5	23.6	24.5	24.2	25.1	25.8
	12H	25.7	26.4	26.4	27.1	27.8	23.7	24.4	24.3	25.1	25.8
8H	4H	24.2	25.1	24.8	25.7	26.4	23.4	24.2	24.0	24.8	25.5
	6H	25.4	26.1	26.0	26.7	27.4	24.0	24.7	24.7	25.4	26.1
	8H	26.0	26.6	26.6	27.2	28.0	24.3	24.9	24.9	25.6	26.3
	12H	26.5	27.0	27.2	27.7	28.5	24.4	25.0	25.1	25.6	26.4
12H	4H	24.2	25.0	24.8	25.6	26.3	23.4	24.1	24.0	24.7	25.5
	6H	25.4	26.0	26.1	26.7	27.4	24.2	24.7	24.8	25.4	26.2
	8H	26.1	26.6	26.7	27.3	28.0	24.5	25.0	25.1	25.7	26.4

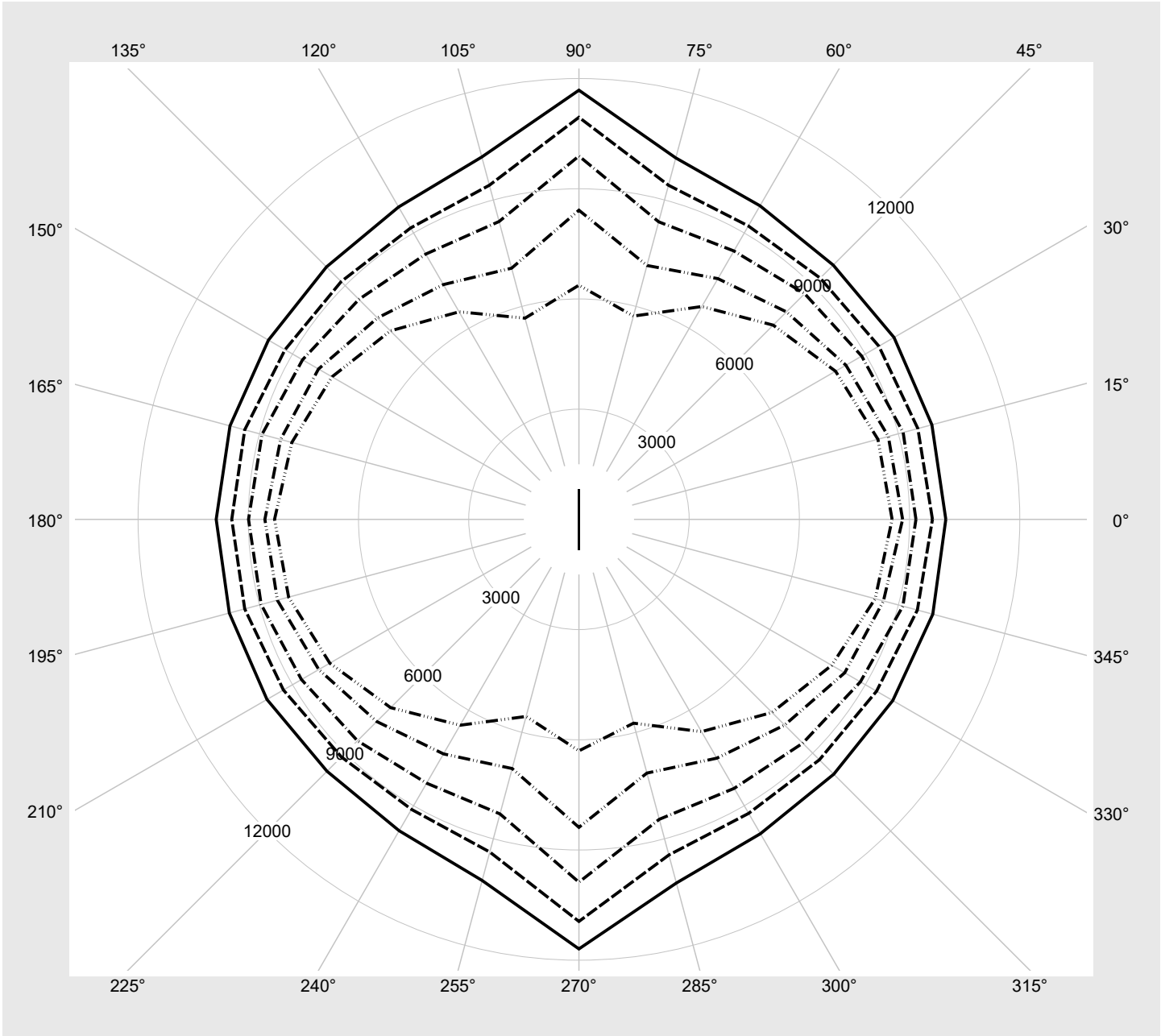
Luminance table		Max. for $\gamma \geq 65^\circ$										Photometric dimensions in mm:		L = 2250	H(C0) = 25	H(C180) = 25
												B = 76	H(C90) = 25	H(C270) = 25		
C-planes	$\gamma$	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°			
		Luminance in cd/m <sup>2</sup>														
45°		11630.2	11641.9	12101.5	13875.8	12150.3	11651.8	11620.6	11637.0	12112.3	13901.0	12155.7	11666.6			
50°		11208.1	11194.9	11558.2	13393.8	11575.7	11163.7	11157.9	11168.9	11552.4	13421.5	11593.1	11189.7			
55°		10769.4	10761.0	10992.5	12893.1	10998.7	10688.9	10721.4	10711.1	10979.9	12916.3	11030.2	10744.4			
60°		10391.7	10331.9	10423.6	12330.2	10409.8	10224.1	10294.3	10254.0	10382.1	12347.8	10458.2	10295.9			
65°		9986.2	9903.8	9857.0	11682.5	9818.3	9759.3	9873.7	9805.3	9787.3	11692.9	9880.3	9864.4			
70°		9622.9	9428.0	9222.9	10944.6	9160.6	9237.6	9450.1	9288.8	9116.1	10944.6	9240.7	9354.8			
75°		9173.3	8888.1	8436.7	9890.9	8338.7	8687.7	8993.8	8721.1	8292.3	9875.9	8454.7	8846.4			
80°		8810.8	8392.0	7566.4	8415.3	7379.8	8186.5	8548.4	8176.7	7372.1	8383.4	7506.4	8352.9			
85°		8525.0	8065.6	6690.0	6374.3	6524.1	7760.7	8285.3	7830.1	6470.6	6301.3	6672.7	7944.7			

**Photometric test report**

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**Luminance values in cd/m<sup>2</sup>**

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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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]
100	254	254	9500	52.6
95	241	252	9039	50.0
90	227	250	8537	47.2
85	214	248	8071	44.6
80	201	245	7602	42.0
75	188	243	7131	39.4
70	175	240	6656	36.8
65	162	238	6176	34.2
60	149	234	5697	31.6
55	136	231	5215	28.9
50	124	228	4766	26.4
45	111	224	4279	23.7
40	98	219	3785	21.0
35	86	214	3329	18.7
30	73	208	2833	16.4
25	61	202	2372	14.4
20	49	194	1909	12.3
15	37	183	1443	9.6
10	24	168	931	5.8
6	14	148	539	2.8