



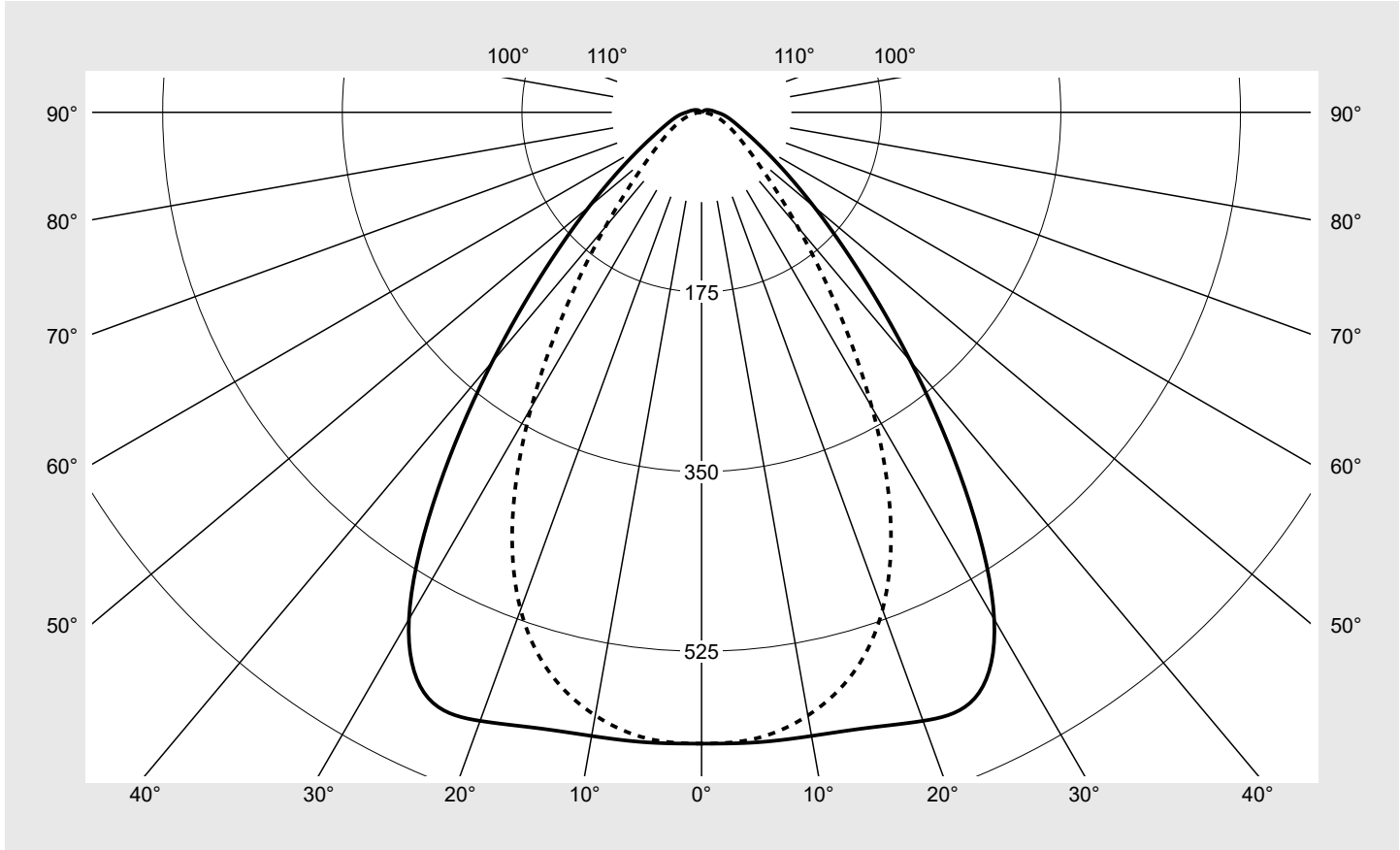
# Photometric test report

<b>Family</b> <b>Licross® 21 Protected</b>	<b>Order number: 52TP12DN4A5G</b> <b>EAN: 4058352903902</b>	<b>LP number</b> <b>58524_229</b>
	<b>Version</b> prismatic cover, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 10700 lm Power consumption = 62.0 W Luminous efficacy = 172.6 lm/W	<b>serial documentation</b> <b>03.08.2023</b>





**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 631 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=73 N2=92 N3=98 N4=99 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	98.6%
$\phi_o$	1.4%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	615.0	615.0	615.0	615.0	615.0	615.0	615.0	3.7	3.7
5°	616.1	614.1	609.7	611.1	612.9	611.9	612.2	29.3	32.9
10°	616.9	615.1	606.4	602.8	600.3	597.0	596.6	57.6	90.5
15°	620.9	617.8	600.9	587.5	576.7	568.6	566.8	83.8	174.3
20°	630.8	623.5	591.7	561.2	536.7	520.1	515.5	106.4	280.7
25°	629.8	620.7	576.3	523.2	476.9	445.6	435.5	122.6	403.3
30°	570.2	568.9	534.3	469.6	398.0	348.4	331.9	126.5	529.9
35°	447.2	456.9	450.2	394.1	307.5	246.5	227.0	114.9	644.8
40°	317.0	331.0	344.1	303.2	220.2	163.1	146.0	93.6	738.3
45°	213.9	226.3	244.1	214.7	147.7	105.6	94.0	70.6	808.9
50°	143.1	152.0	166.9	144.8	97.7	70.8	64.1	51.5	860.4
55°	96.6	102.1	111.9	95.1	64.8	49.7	46.3	37.0	897.4
60°	67.0	69.6	74.2	63.4	44.8	36.0	34.5	26.8	924.2
65°	49.0	49.5	50.0	42.8	32.0	26.6	25.7	19.7	943.9
70°	37.9	37.0	34.4	29.4	23.3	19.5	18.8	14.8	958.7
75°	30.5	28.7	24.6	20.4	16.6	13.6	12.7	11.1	969.8
80°	24.8	22.7	18.1	14.1	11.2	8.8	7.6	8.2	978.0
85°	19.7	17.8	13.4	9.8	7.1	4.8	3.4	5.9	983.8
90°	14.9	13.4	9.7	6.4	4.0	1.9	0.4	3.9	987.8
95°	12.2	11.1	8.2	5.4	3.1	1.2	0.3	3.2	991.0
100°	10.0	9.2	6.9	4.5	2.4	0.7	0.3	2.6	993.6
105°	8.2	7.6	5.7	3.6	1.7	0.4	0.3	2.1	995.6
110°	6.8	6.2	4.6	2.7	1.1	0.3	0.3	1.6	997.2
115°	5.5	5.0	3.7	2.0	0.7	0.4	0.4	1.2	998.4
120°	4.3	3.8	2.7	1.4	0.6	0.5	0.5	0.9	999.3
125°	3.1	2.7	1.8	0.9	0.6	0.6	0.6	0.6	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	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	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	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	1000.0

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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	21.5	22.9	21.9	23.2	23.6	18.2	19.7	18.6	20.0	20.3
	3H	21.9	23.2	22.3	23.5	23.9	18.6	19.9	19.0	20.2	20.6
	4H	22.2	23.3	22.6	23.7	24.0	18.8	20.0	19.1	20.3	20.7
	6H	22.5	23.5	22.9	23.9	24.3	18.9	20.0	19.3	20.4	20.7
	8H	22.7	23.6	23.1	24.0	24.4	19.0	20.0	19.4	20.4	20.8
	12H	22.9	23.7	23.3	24.1	24.5	19.0	19.9	19.4	20.3	20.7
4H	2H	21.6	22.8	22.0	23.1	23.5	18.8	19.9	19.2	20.3	20.7
	3H	22.1	23.1	22.5	23.5	23.9	19.3	20.2	19.7	20.6	21.0
	4H	22.4	23.3	22.9	23.7	24.2	19.5	20.4	19.9	20.8	21.2
	6H	22.9	23.6	23.3	24.0	24.5	19.7	20.4	20.1	20.9	21.3
	8H	23.1	23.8	23.6	24.2	24.7	19.7	20.4	20.2	20.9	21.4
	12H	23.4	23.9	23.9	24.4	24.9	19.8	20.4	20.3	20.9	21.4
8H	4H	22.5	23.2	22.9	23.6	24.1	19.7	20.4	20.2	20.8	21.3
	6H	23.0	23.5	23.4	24.0	24.5	20.0	20.5	20.5	21.0	21.5
	8H	23.3	23.8	23.8	24.3	24.8	20.1	20.6	20.6	21.1	21.6
	12H	23.7	24.1	24.2	24.6	25.1	20.2	20.6	20.7	21.1	21.7
12H	4H	22.5	23.1	22.9	23.5	24.0	19.8	20.3	20.3	20.8	21.3
	6H	23.0	23.5	23.5	23.9	24.5	20.1	20.5	20.6	21.0	21.6
	8H	23.3	23.7	23.8	24.2	24.8	20.2	20.6	20.8	21.1	21.7

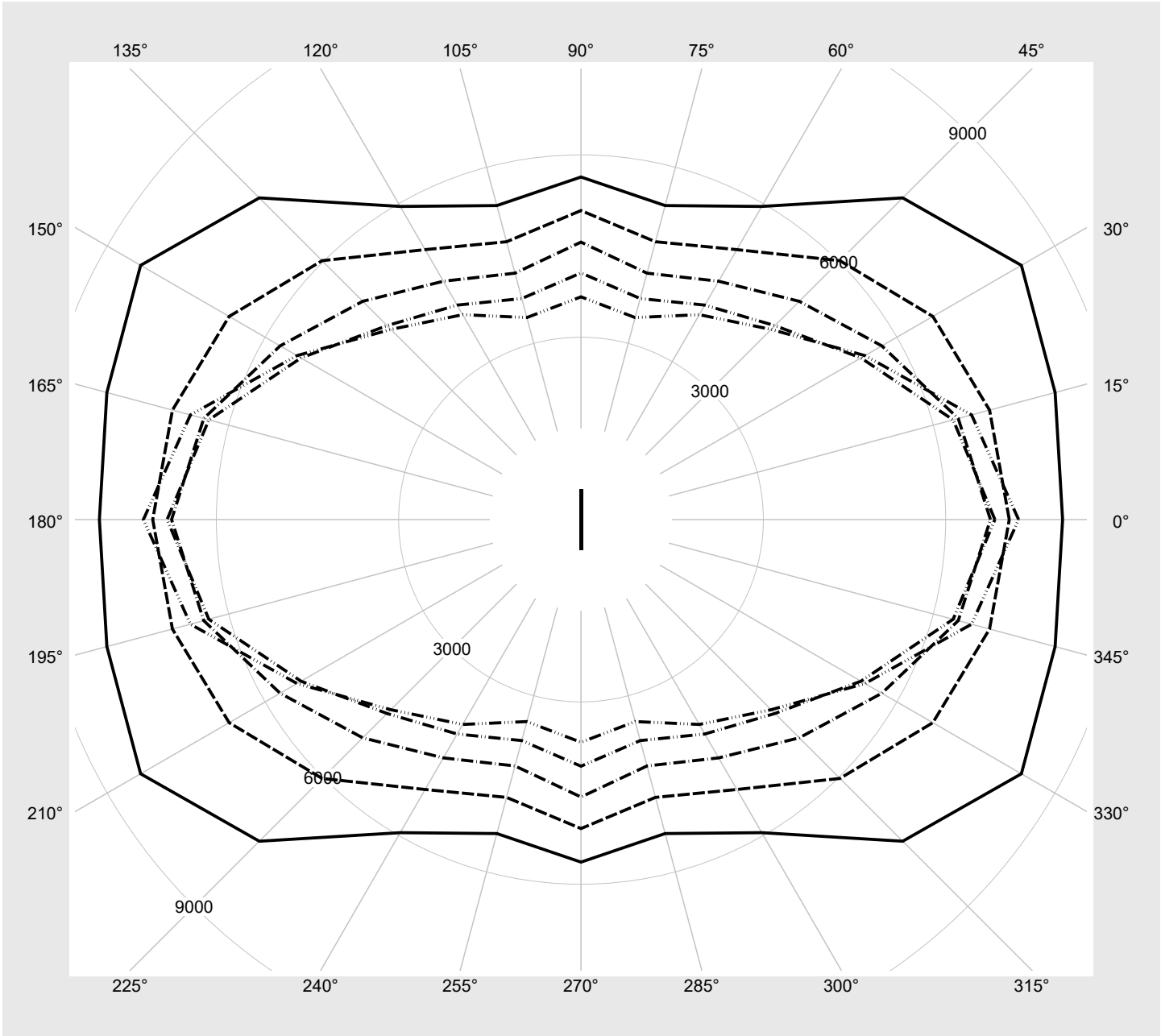
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
	45°	24036.6	25546.1	27960.5	25173.6	17868.7	13272.2	12326.4	
	50°	17210.8	18390.7	20539.7	18313.4	12816.2	9706.5	9237.2	
	55°	12603.7	13410.2	14988.2	13153.6	9358.6	7559.9	7483.1	
	60°	9643.9	10088.0	11007.4	9757.5	7249.8	6216.2	6388.3	
	65°	7923.8	8075.9	8366.3	7485.3	5949.0	5348.6	5636.3	
	70°	7046.3	6959.3	6684.5	6024.2	5128.5	4732.6	5084.3	
	75°	6736.3	6425.9	5715.8	5078.7	4528.3	4197.3	4565.0	
	80°	6809.9	6338.9	5319.0	4512.7	4074.5	3764.9	4058.3	
	85°	7199.8	6652.9	5395.3	4424.7	3892.8	3441.1	3664.8	

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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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	----	----	----	----
100	253	254	10662	61.8
95	240	252	10162	58.6
90	226	250	9618	55.1
85	213	248	9106	51.9
80	199	245	8548	48.5
75	186	243	8024	45.5
70	173	240	7495	42.3
65	160	237	6962	39.2
60	147	234	6424	36.1
55	134	231	5880	33.0
50	121	227	5331	29.9
45	109	223	4821	27.1
40	96	218	4261	24.1
35	84	213	3740	21.4
30	72	208	3214	18.6
25	60	201	2684	15.9
20	48	193	2151	13.0
15	36	182	1616	10.2
10	24	168	1076	7.5
5	12	142	532	4.9
2	4	102	166	3.1