

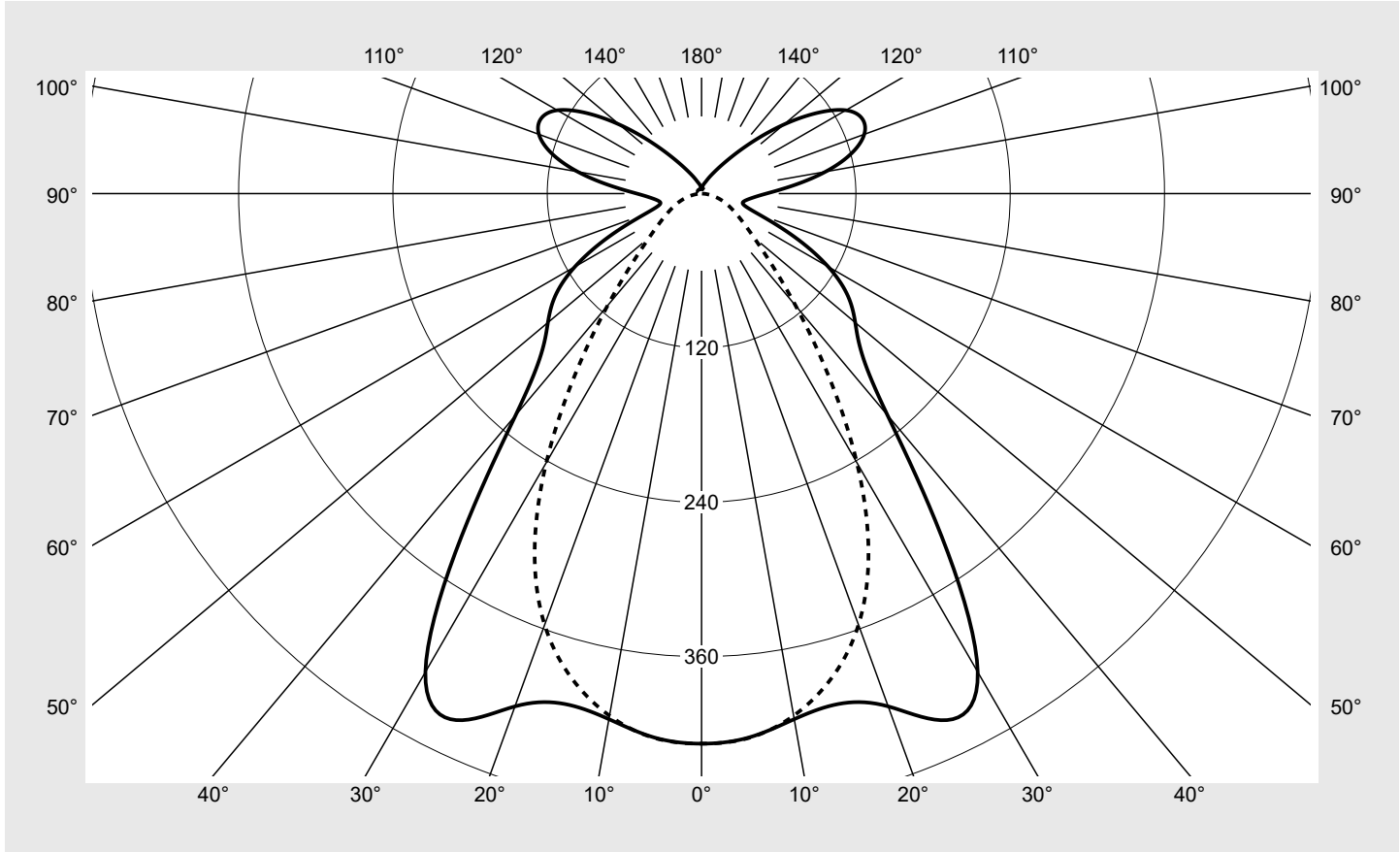


# Photometric test report

<b>Family</b> <b>Licross® 21 Performance</b>	<b>Order number: 52TD16DN66XG</b> <b>EAN: 4069025217530</b>	<b>LP number</b> <b>58520_400</b>
	<b>Version</b> cover frosted, direct-/ indirect distribution <b>Lamps</b> LED 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 6000 lm Power consumption = 33.8 W Luminous efficacy = 177.5 lm/W	<b>serial documentation</b> <b>26.08.2024</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 452 cd/klm**




Classifications	
DIN 5040	B 5 1
CIE	N1=65 N2=88 N3=96 N4=79 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	79.3%
$\phi_o$	20.7%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		
Maximum luminous intensity		

C-planes $\gamma$	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°	427.7	427.7	427.7	427.7	427.7	427.7	427.7	2.6	2.6
5°	424.4	422.4	420.2	422.1	424.3	424.4	424.8	20.2	22.8
10°	414.9	412.5	408.9	409.5	411.2	411.6	412.2	39.1	61.9
15°	410.8	406.7	398.1	393.2	390.9	389.7	390.1	56.3	118.2
20°	424.3	415.5	394.5	375.8	364.0	357.7	356.8	71.8	190.0
25°	451.7	439.9	403.9	360.3	329.2	311.6	307.2	85.9	275.8
30°	429.5	430.9	412.5	347.4	284.5	251.0	241.5	94.2	370.0
35°	325.6	344.5	379.3	329.0	231.5	183.8	171.0	89.9	460.0
40°	224.9	238.5	293.1	289.7	177.2	125.7	113.8	76.0	535.9
45°	176.4	174.8	199.5	224.7	128.0	84.3	75.7	60.6	596.5
50°	156.0	144.3	136.6	154.2	90.2	58.9	53.2	48.2	644.7
55°	139.0	122.9	98.4	99.7	63.9	43.4	39.8	38.7	683.4
60°	113.7	99.1	72.2	64.7	46.3	33.0	30.8	30.7	714.1
65°	79.7	70.2	51.6	43.8	34.5	25.6	24.0	23.0	737.1
70°	47.7	43.4	35.6	31.1	26.2	19.7	18.2	16.2	753.3
75°	33.9	31.2	26.1	23.2	19.9	14.4	12.7	12.2	765.5
80°	33.7	30.7	23.7	18.2	15.1	9.9	7.5	10.6	776.1
85°	39.3	35.6	26.3	17.2	11.4	6.2	3.2	10.7	786.9
90°	50.4	45.6	32.3	18.9	10.0	3.9	0.6	12.4	799.3
95°	71.3	63.5	42.3	22.5	11.4	4.6	1.0	16.4	815.7
100°	97.9	84.6	52.5	26.5	12.9	5.3	1.6	20.8	836.6
105°	120.7	101.7	62.6	30.2	14.2	6.1	2.4	24.4	860.9
110°	134.6	112.6	69.4	33.2	15.3	6.7	2.9	26.3	887.2
115°	137.8	115.5	72.0	34.6	16.0	7.2	3.2	26.1	913.3
120°	129.6	108.9	68.7	33.6	15.7	7.4	3.5	23.8	937.1
125°	109.1	92.2	59.5	30.3	14.7	7.4	3.7	19.5	956.6
130°	83.4	71.0	47.4	25.5	13.2	7.2	3.7	14.5	971.2
135°	58.6	50.3	35.1	20.5	11.4	6.8	3.7	10.0	981.2
140°	39.2	34.3	25.3	16.3	9.8	6.3	3.7	6.7	987.9
145°	26.6	23.8	18.6	13.0	8.2	5.4	3.7	4.4	992.3
150°	18.7	17.2	14.2	10.0	6.9	5.0	3.7	2.9	995.2
155°	13.8	12.8	10.8	7.8	6.8	4.4	3.6	2.0	997.2
160°	10.2	9.8	7.9	6.8	5.6	4.6	3.5	1.3	998.5
165°	8.2	7.8	6.5	5.6	5.0	4.1	3.7	0.8	999.3
170°	6.4	5.6	4.7	4.7	5.0	4.1	3.9	0.5	999.8
175°	4.2	3.7	4.1	4.1	4.1	4.2	4.2	0.2	1000.0
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	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	17.3	18.6	17.9	19.1	19.8	13.5	14.8	14.1	15.3	16.0
	3H	17.9	19.0	18.5	19.6	20.3	13.9	15.0	14.5	15.6	16.3
	4H	18.1	19.1	18.7	19.7	20.4	14.1	15.2	14.7	15.8	16.5
	6H	18.3	19.2	19.0	19.9	20.6	14.3	15.2	14.9	15.8	16.6
	8H	18.6	19.4	19.3	20.0	20.8	14.2	15.1	14.9	15.8	16.5
	12H	18.9	19.6	19.6	20.3	21.1	14.3	15.1	14.9	15.8	16.5
4H	2H	17.3	18.4	17.9	19.0	19.6	14.0	15.0	14.6	15.6	16.3
	3H	18.0	18.8	18.6	19.5	20.3	14.5	15.4	15.2	16.0	16.8
	4H	18.2	19.0	18.9	19.7	20.5	14.8	15.6	15.5	16.3	17.1
	6H	18.7	19.3	19.4	20.0	20.9	15.0	15.7	15.7	16.4	17.2
	8H	19.0	19.6	19.7	20.3	21.2	15.1	15.7	15.8	16.4	17.3
	12H	19.5	20.0	20.3	20.8	21.7	15.1	15.7	15.9	16.4	17.3
8H	4H	18.2	18.8	18.9	19.5	20.4	15.0	15.6	15.7	16.3	17.1
	6H	18.8	19.3	19.5	20.0	20.9	15.4	15.8	16.1	16.6	17.5
	8H	19.3	19.7	20.0	20.5	21.3	15.5	16.0	16.3	16.7	17.6
	12H	20.0	20.4	20.8	21.2	22.1	15.6	16.0	16.4	16.8	17.7
12H	4H	18.1	18.7	18.9	19.4	20.3	15.0	15.5	15.8	16.2	17.1
	6H	18.7	19.2	19.5	19.9	20.8	15.5	15.9	16.2	16.6	17.6
	8H	19.3	19.7	20.1	20.4	21.4	15.7	16.1	16.5	16.8	17.8

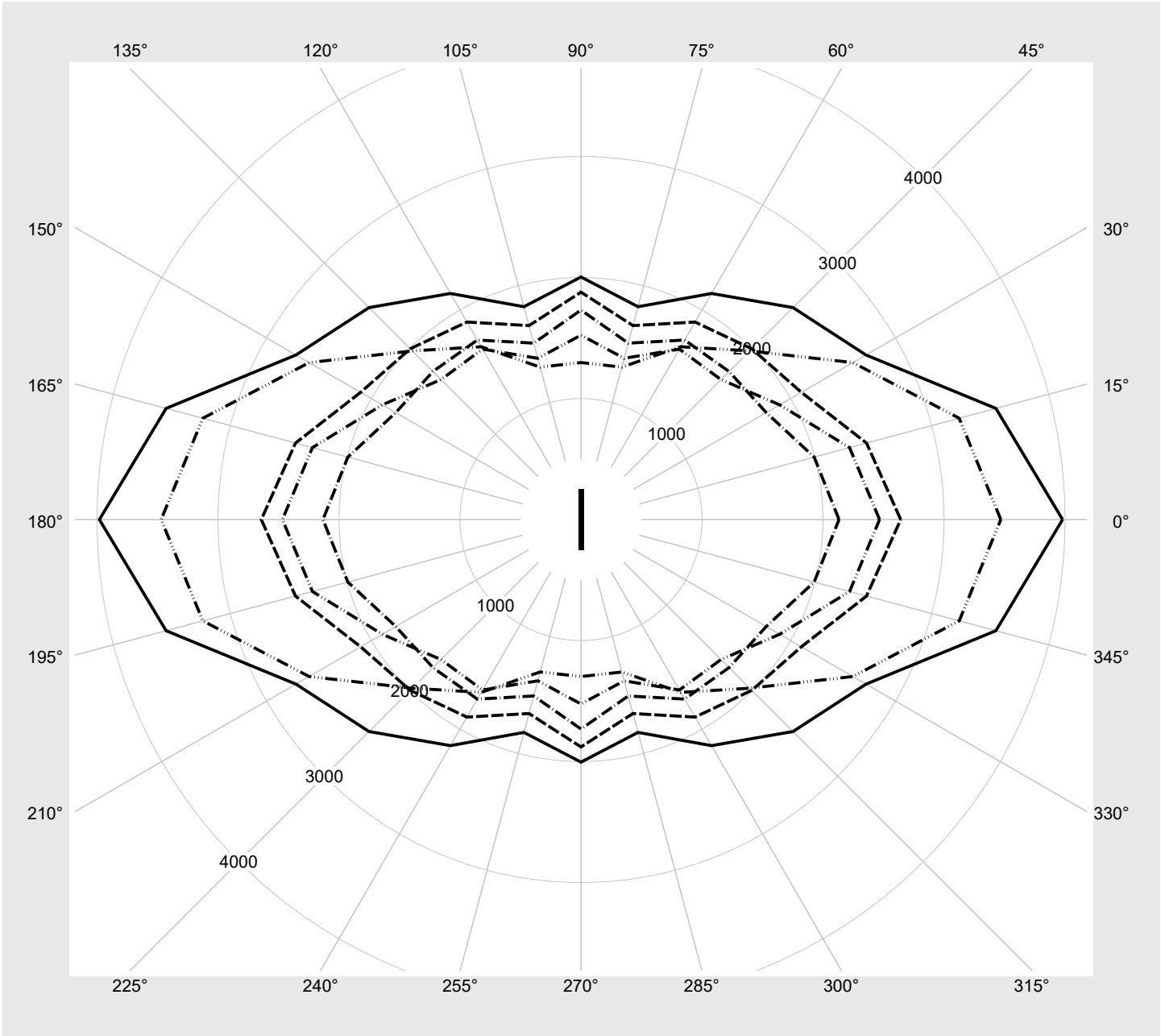
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 36</b>	<b>H(C180) = 36</b>
			<b>B = 115</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>								
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°		
	45°	6698.4	6691.2	7825.1	9172.2	5519.9	3888.4	3771.9		
	50°	6231.1	5815.8	5660.2	6692.1	4170.4	2947.4	2916.0		
	55°	5903.6	5276.7	4360.6	4657.0	3209.5	2390.6	2444.7		
	60°	5197.5	4586.8	3462.6	3297.8	2570.7	2043.4	2171.4		
	65°	3980.1	3549.7	2720.2	2477.6	2157.5	1821.2	2004.8		
	70°	2642.2	2442.9	2103.1	1996.1	1885.0	1659.7	1879.3		
	75°	2132.4	1994.9	1767.8	1730.5	1713.4	1509.5	1731.3		
	80°	2467.4	2297.8	1896.0	1636.2	1626.6	1379.7	1524.0		
	85°	3469.6	3235.7	2594.3	1971.2	1649.2	1304.3	1297.6		

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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	254	254	6000	33.8
95	241	252	5706	32.1
90	228	250	5410	30.4
85	214	248	5089	28.6
80	201	245	4792	27.0
75	188	243	4489	25.5
70	176	241	4211	24.0
65	163	238	3906	22.4
60	150	235	3601	20.7
55	137	231	3294	19.1
50	125	228	3010	17.5
45	112	224	2699	15.8
40	99	219	2390	14.1
35	87	215	2101	12.4
30	74	209	1789	10.7
25	62	202	1498	9.2
20	50	194	1208	7.7
15	37	183	890	5.9
13	33	179	793	5.4