

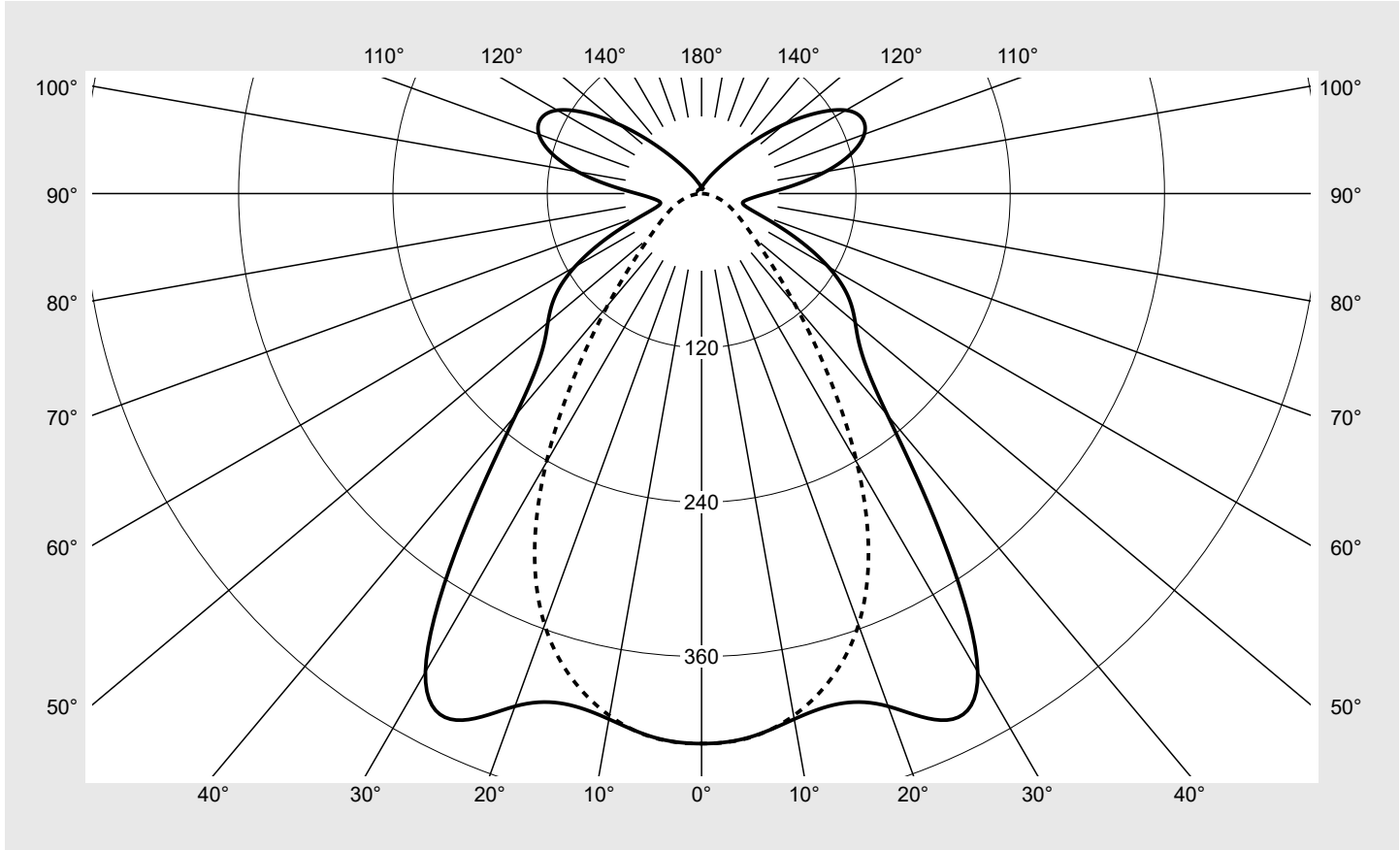


# Photometric test report

<b>Family</b> <b>Licross® 21 Performance</b>	<b>Order number: 52TS16DND75F</b> <b>EAN: 4058352455197</b>	<b>LP number</b> <b>58520_30</b>
	<b>Version</b> cover frosted, direct-/ indirect distribution <b>Lamps</b> LED 4000 K   CRI ≥ 90 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 7810 lm Power consumption = 60.9 W Luminous efficacy = 128.2 lm/W	<b>serial documentation</b> <b>08.12.2020</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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<b>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
		<b>siteco</b>

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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UGR-Table		Standard room									
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	18.2	19.5	18.8	20.0	20.7	14.4	15.7	15.0	16.2	16.9
	3H	18.8	19.9	19.4	20.5	21.2	14.8	15.9	15.4	16.5	17.2
	4H	19.0	20.0	19.6	20.6	21.3	15.0	16.1	15.6	16.7	17.4
	6H	19.2	20.1	19.9	20.8	21.6	15.2	16.1	15.8	16.8	17.5
	8H	19.5	20.3	20.2	21.0	21.8	15.2	16.1	15.8	16.7	17.4
	12H	19.8	20.5	20.5	21.2	22.1	15.2	16.0	15.8	16.7	17.4
4H	2H	18.2	19.3	18.8	19.9	20.6	14.9	15.9	15.5	16.5	17.2
	3H	18.9	19.8	19.6	20.4	21.2	15.5	16.3	16.1	17.0	17.7
	4H	19.2	19.9	19.8	20.6	21.4	15.7	16.5	16.4	17.2	18.0
	6H	19.6	20.2	20.3	20.9	21.8	16.0	16.6	16.7	17.3	18.2
	8H	19.9	20.5	20.7	21.2	22.1	16.0	16.6	16.7	17.4	18.2
	12H	20.5	21.0	21.2	21.7	22.6	16.0	16.6	16.8	17.3	18.2
8H	4H	19.1	19.7	19.8	20.4	21.3	15.9	16.5	16.6	17.2	18.1
	6H	19.7	20.2	20.4	20.9	21.8	16.3	16.8	17.0	17.5	18.4
	8H	20.2	20.6	20.9	21.4	22.3	16.4	16.9	17.2	17.7	18.5
	12H	20.9	21.3	21.7	22.1	23.0	16.6	16.9	17.3	17.7	18.6
12H	4H	19.1	19.6	19.8	20.3	21.2	15.9	16.4	16.7	17.2	18.0
	6H	19.7	20.1	20.4	20.8	21.7	16.4	16.8	17.2	17.6	18.5
	8H	20.2	20.6	21.0	21.4	22.3	16.6	17.0	17.4	17.8	18.7

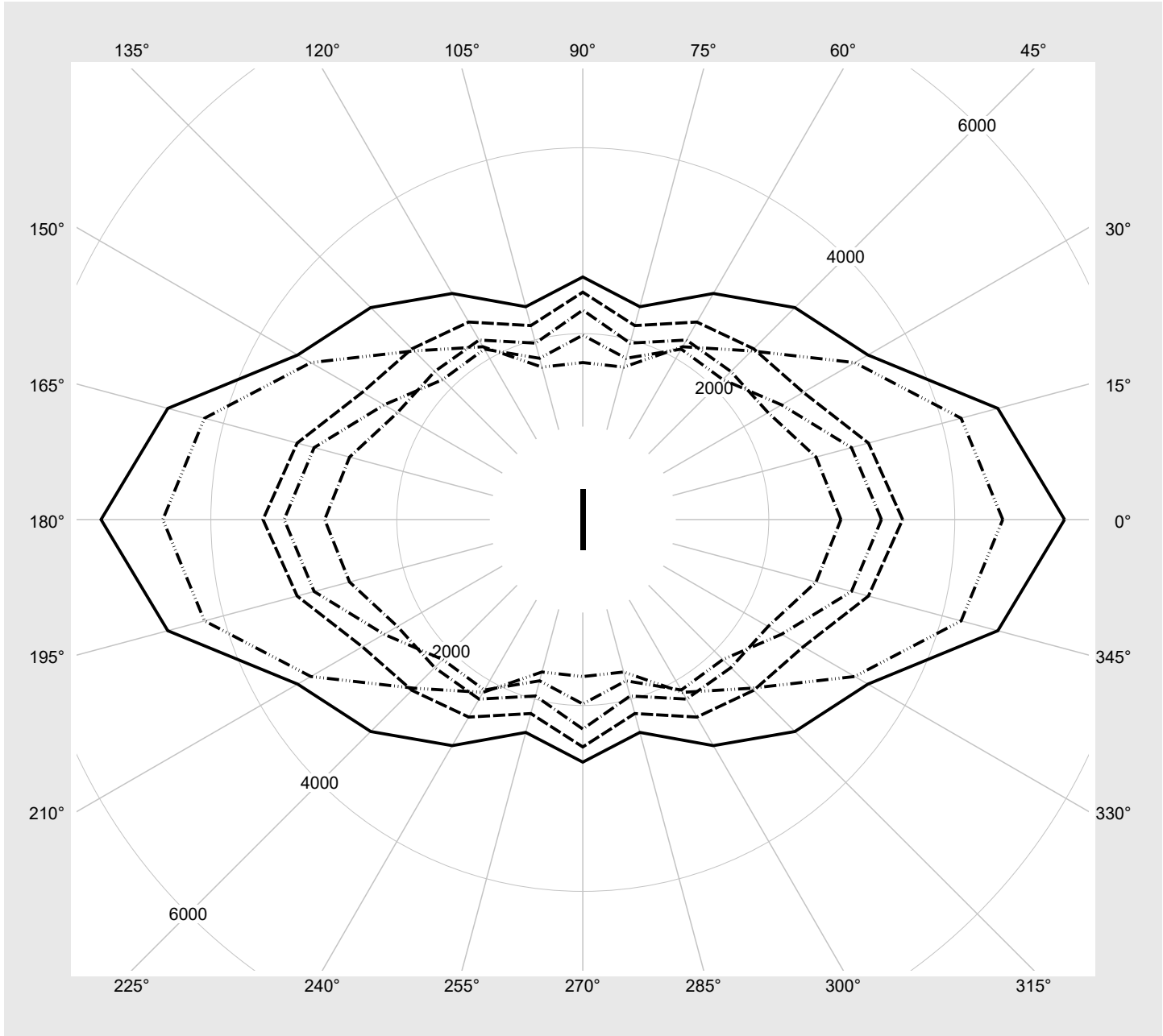
Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1480	H(C0) = 36	H(C180) = 36
						B = 115	H(C90) = 0	H(C270) = 0
C-planes	$\gamma$	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	270°
		195°	195°	210°	225°	240°	255°	
		345°	345°	330°	315°	300°	285°	
Luminance in cd/m <sup>2</sup>								
45°		8719.1	8709.8	10185.7	11939.2	7185.0	5061.4	4909.8
50°		8110.8	7570.3	7367.7	8710.9	5428.4	3836.6	3795.7
55°		7684.5	6868.5	5676.0	6061.9	4177.8	3111.8	3182.2
60°		6765.5	5970.5	4507.1	4292.6	3346.2	2659.8	2826.4
65°		5180.8	4620.6	3540.7	3225.0	2808.4	2370.6	2609.6
70°		3439.2	3179.8	2737.5	2598.3	2453.7	2160.4	2446.2
75°		2775.7	2596.8	2301.0	2252.6	2230.3	1964.9	2253.6
80°		3211.7	2990.9	2468.0	2129.7	2117.3	1795.9	1983.8
85°		4516.3	4211.8	3376.9	2565.9	2146.7	1697.8	1689.0

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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	7810	60.9
95	239	252	7406	57.3
90	225	250	7023	53.8
85	211	247	6631	50.4
80	198	245	6262	47.2
75	184	242	5858	43.8
70	171	240	5473	40.7
65	158	237	5088	37.5
60	145	233	4693	34.4
55	132	230	4294	31.5
50	119	226	3890	28.4
45	107	222	3514	25.6
40	95	218	3132	22.8
35	83	213	2747	20.2
30	71	207	2358	17.4
25	59	201	1964	14.8
20	47	192	1568	12.1
15	35	181	1166	9.4
10	24	168	795	6.9
5	12	142	386	4.4
1	4	102	111	2.6