

## Photometric test report

**Family**  
**Licross® 21 Protected**

**Order number: 52TS12DND7XF**  
**EAN: 4058352455098**

**LP number**  
**58522\_46**



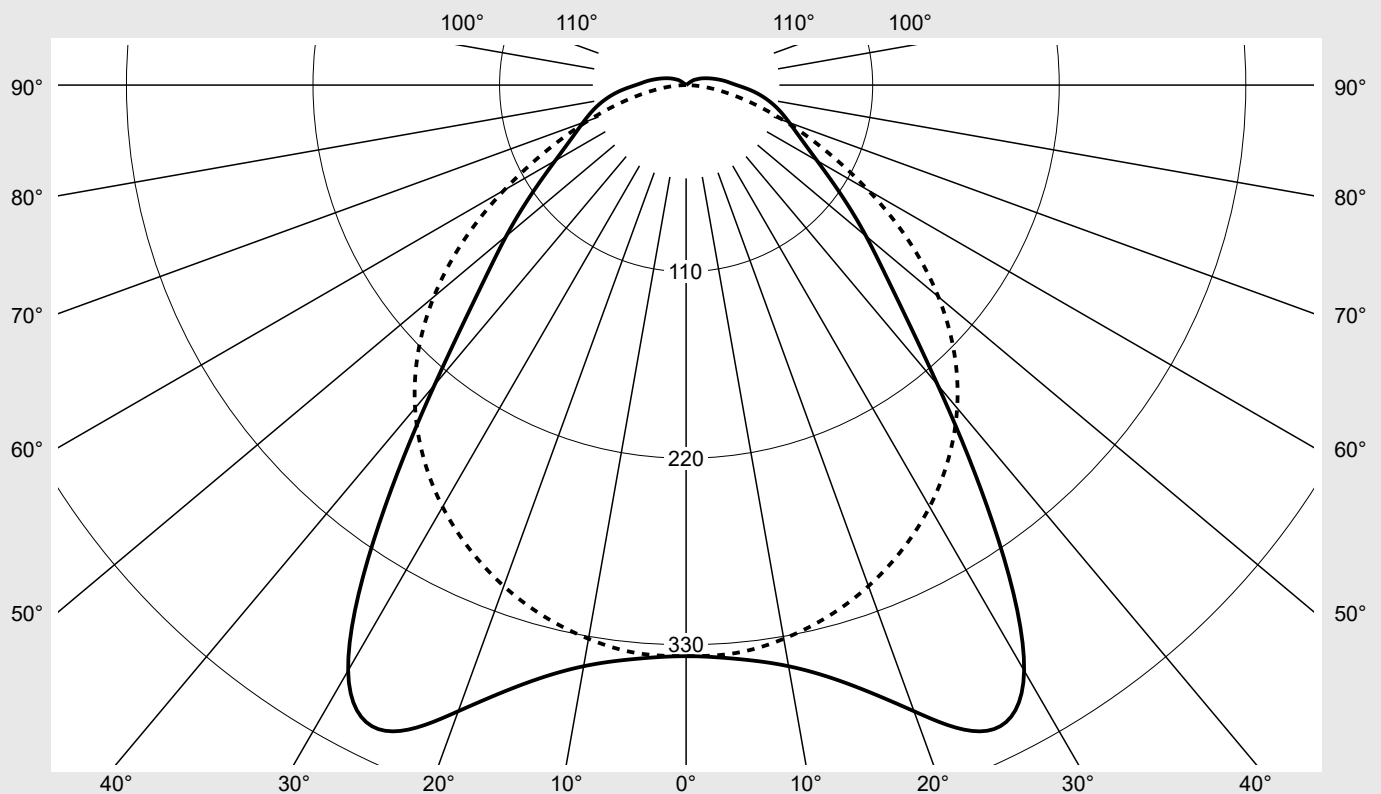
**Version** prismatic cover, frosted, wide distribution  
**Lamps** LED 4000 K | CRI ≥ 90  
**Controlgear** ECG-DALI  
**Rated values** Net luminous flux = 7240 lm  
 Power consumption = 60.9 W  
 Luminous efficacy = 118.9 lm/W

**serial**  
**documentation**  
**08.12.2020**

**siteco**

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

**Imax: 420 cd/klm**



### Classifications

DIN 5040 A 4 1  
 CIE N1=54 N2=82 N3=95  
 N4=97 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  96.8%  
 $\phi_o$  3.2%

### 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°	336.7	336.7	336.7	336.7	336.7	336.7	336.7	2.0	2.0
5°	339.6	338.6	335.9	336.3	336.9	336.0	336.1	16.1	18.1
10°	347.9	347.0	341.3	338.0	335.2	332.1	331.5	32.3	50.4
15°	365.1	363.4	352.6	343.0	333.9	326.3	324.2	48.8	99.2
20°	392.9	389.6	370.2	350.5	332.5	318.7	314.4	66.1	165.3
25°	420.1	417.2	393.2	361.7	330.8	309.3	301.9	83.9	249.2
30°	398.6	403.0	395.6	369.9	329.0	297.6	287.2	97.7	346.8
35°	315.4	327.2	346.9	353.5	322.7	283.2	269.5	100.9	447.7
40°	230.7	242.3	270.7	302.4	300.6	265.5	248.6	95.2	542.9
45°	173.9	182.1	205.6	239.8	258.3	240.0	223.6	85.6	628.5
50°	138.5	144.5	161.6	188.3	208.7	204.6	194.1	75.2	703.7
55°	110.6	115.5	130.2	150.3	164.6	163.9	160.4	64.4	768.0
60°	89.1	92.4	103.6	120.9	128.5	124.9	123.9	53.5	821.6
65°	74.6	76.3	82.5	95.4	99.4	91.8	89.8	43.7	865.3
70°	64.8	65.1	66.4	73.4	75.2	65.0	61.7	35.1	900.3
75°	56.7	56.1	54.1	55.3	54.0	43.4	39.3	27.4	927.8
80°	48.3	47.2	43.9	40.6	36.4	26.8	21.9	20.7	948.5
85°	39.1	38.0	34.5	29.4	22.9	14.4	9.1	14.9	963.3
90°	29.8	28.8	25.7	20.2	13.1	5.8	0.8	9.9	973.3
95°	24.0	23.5	21.4	16.6	9.9	3.5	0.7	7.9	981.2
100°	19.2	18.8	17.3	13.3	7.4	1.9	0.6	6.2	987.4
105°	15.1	14.8	13.6	10.2	5.0	0.8	0.6	4.6	992.0
110°	11.8	11.3	10.2	7.3	2.9	0.6	0.6	3.3	995.3
115°	9.0	8.5	7.3	4.7	1.4	0.7	0.7	2.3	997.6
120°	6.6	6.1	4.9	2.7	0.8	0.7	0.7	1.5	999.1
125°	4.4	4.0	2.9	1.3	0.7	0.8	0.8	0.9	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	20.0	21.7	20.4	22.0	22.3	21.9	23.6	22.3	23.9	24.2
	3H	21.2	22.7	21.6	23.0	23.4	22.9	24.4	23.3	24.7	25.1
	4H	21.9	23.3	22.3	23.6	24.0	23.3	24.7	23.7	25.0	25.4
	6H	22.7	23.9	23.1	24.3	24.7	23.5	24.8	24.0	25.2	25.6
	8H	23.1	24.3	23.5	24.7	25.1	23.7	24.8	24.1	25.2	25.6
	12H	23.5	24.6	23.9	25.0	25.4	23.7	24.8	24.1	25.2	25.6
4H	2H	20.9	22.3	21.3	22.6	23.0	22.4	23.8	22.8	24.1	24.5
	3H	22.2	23.4	22.7	23.8	24.2	23.6	24.8	24.1	25.2	25.6
	4H	23.1	24.1	23.5	24.5	25.0	24.1	25.2	24.6	25.6	26.0
	6H	24.0	24.9	24.4	25.3	25.8	24.5	25.4	25.0	25.9	26.3
	8H	24.4	25.3	24.9	25.7	26.2	24.6	25.5	25.1	25.9	26.4
	12H	24.9	25.7	25.4	26.1	26.6	24.7	25.5	25.2	25.9	26.4
8H	4H	23.5	24.3	23.9	24.8	25.2	24.4	25.3	24.9	25.7	26.2
	6H	24.5	25.3	25.0	25.7	26.2	24.9	25.7	25.4	26.1	26.6
	8H	25.1	25.8	25.6	26.3	26.8	25.1	25.8	25.6	26.3	26.8
	12H	25.8	26.3	26.3	26.8	27.4	25.3	25.9	25.8	26.4	26.9
12H	4H	23.5	24.3	24.0	24.8	25.2	24.5	25.2	25.0	25.7	26.2
	6H	24.7	25.3	25.2	25.8	26.3	25.1	25.7	25.6	26.2	26.7
	8H	25.3	25.9	25.8	26.4	26.9	25.3	25.9	25.8	26.4	26.9

<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>

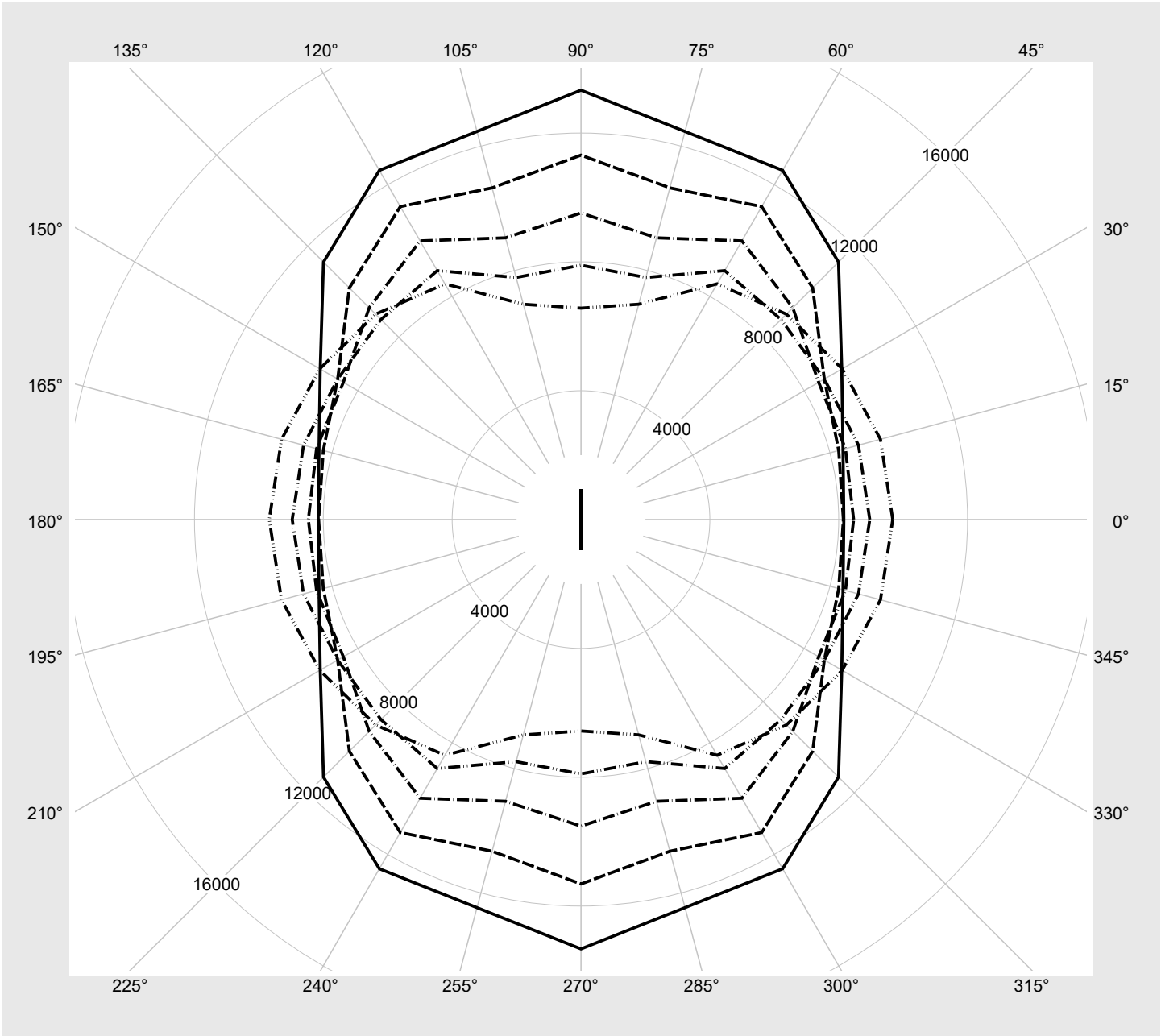
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
	45°	13218.4	13912.6	15934.4	19026.3	21143.7	20404.6	19833.7	
	50°	11272.2	11826.6	13454.5	16111.0	18522.1	18990.8	18940.5	
	55°	9764.9	10267.2	11806.6	14067.2	16086.3	16881.1	17535.3	
	60°	8675.6	9063.8	10395.8	12591.1	14085.5	14575.6	15546.4	
	65°	8159.3	8420.2	9347.7	11305.7	12518.7	12473.8	13329.9	
	70°	8144.8	8282.3	8723.0	10170.4	11218.9	10660.1	11313.4	
	75°	8464.1	8499.2	8519.6	9299.1	9989.7	9054.2	9518.5	
	80°	8964.4	8917.8	8722.7	8783.3	8923.3	7780.9	7896.3	
	85°	9677.4	9625.0	9362.5	9017.9	8449.7	6920.5	6564.1	

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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	7240	60.9
95	239	252	6866	57.2
90	225	250	6510	53.8
85	211	247	6147	50.4
80	198	245	5805	47.2
75	184	242	5431	43.8
70	171	240	5074	40.6
65	158	237	4716	37.5
60	145	233	4350	34.4
55	132	230	3980	31.4
50	119	226	3606	28.4
45	107	222	3257	25.6
40	95	218	2903	22.8
35	83	213	2547	20.2
30	71	207	2185	17.4
25	59	201	1820	14.8
20	47	192	1453	12.1
15	35	181	1081	9.4
10	24	168	737	6.9
5	12	142	358	4.4
1	4	102	103	2.6