

## Photometric test report

Family  
Licross® Protected

Order number: 51TS12DN58XF  
EAN: 4058352375600

LP number  
58522\_28



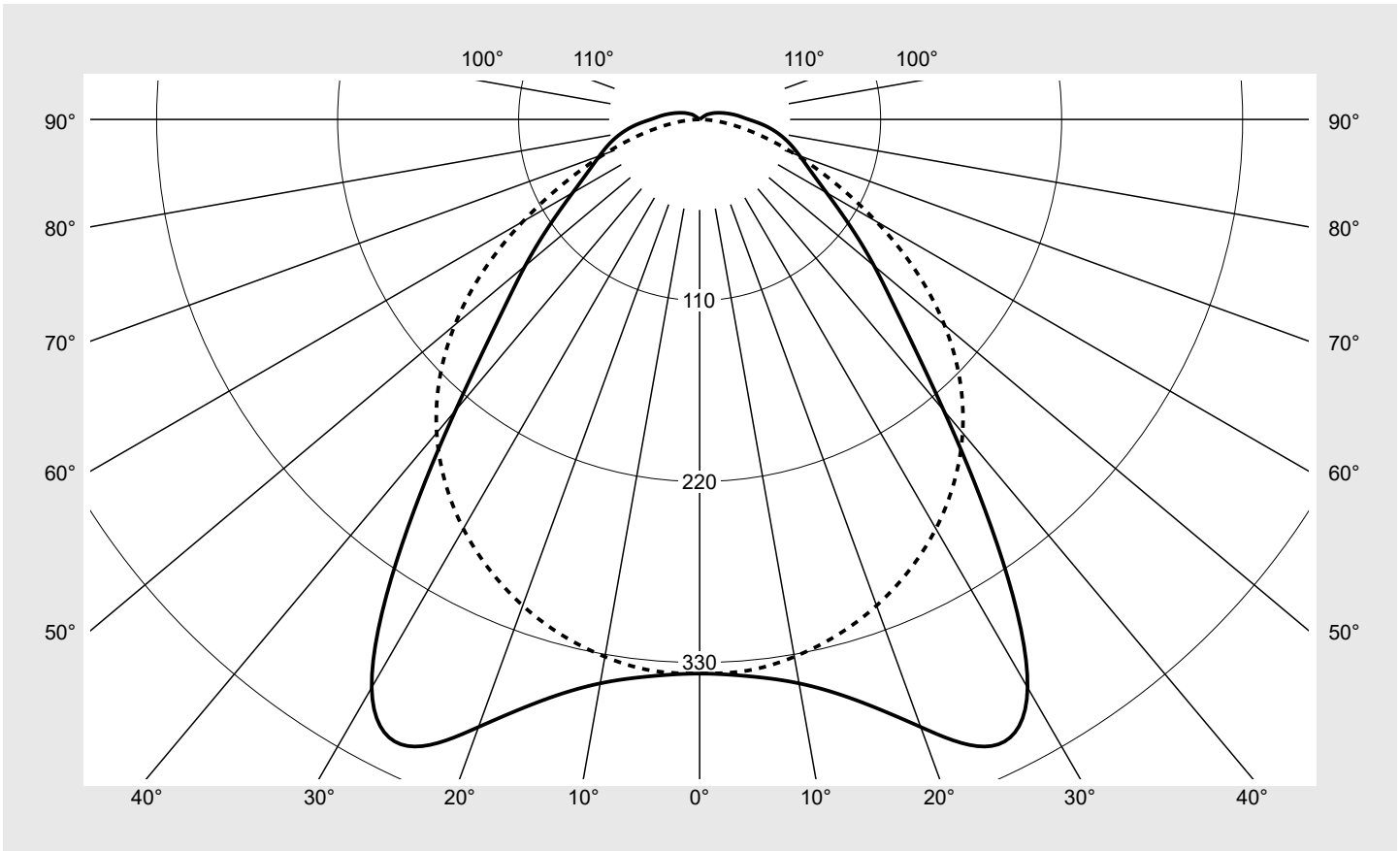
**Version** prismatic cover, frosted, wide distribution  
**Lamps** LED 5000 K | CRI ≥ 80  
**Controlgear** ECG-DALI  
**Rated values** Net luminous flux = 8480 lm  
 Power consumption = 56.2 W  
 Luminous efficacy = 150.9 lm/W

serial  
documentation  
12.12.2019

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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Table of values for luminous intensities		Maximum luminous intensity
		<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°	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	20.6	22.2	21.0	22.5	22.9	22.5	24.1	22.8	24.4	24.7
	3H	21.8	23.2	22.1	23.6	23.9	23.5	25.0	23.9	25.3	25.7
	4H	22.5	23.8	22.8	24.2	24.6	23.9	25.2	24.2	25.6	26.0
	6H	23.2	24.5	23.6	24.9	25.3	24.1	25.4	24.5	25.7	26.1
	8H	23.6	24.8	24.1	25.2	25.6	24.2	25.4	24.6	25.8	26.2
	12H	24.0	25.1	24.4	25.5	26.0	24.3	25.4	24.7	25.8	26.2
4H	2H	21.4	22.8	21.8	23.2	23.5	22.9	24.3	23.3	24.7	25.0
	3H	22.8	24.0	23.2	24.4	24.8	24.2	25.4	24.6	25.8	26.2
	4H	23.6	24.7	24.0	25.1	25.5	24.7	25.8	25.1	26.2	26.6
	6H	24.5	25.4	25.0	25.9	26.3	25.1	26.0	25.5	26.4	26.9
	8H	25.0	25.8	25.4	26.3	26.7	25.2	26.0	25.6	26.5	26.9
	12H	25.5	26.2	25.9	26.7	27.2	25.3	26.0	25.8	26.5	27.0
8H	4H	24.0	24.9	24.5	25.3	25.8	25.0	25.8	25.4	26.3	26.7
	6H	25.1	25.8	25.6	26.3	26.8	25.5	26.2	26.0	26.7	27.2
	8H	25.7	26.3	26.2	26.8	27.3	25.7	26.3	26.2	26.8	27.3
	12H	26.3	26.9	26.8	27.4	27.9	25.9	26.4	26.4	26.9	27.4
12H	4H	24.1	24.8	24.6	25.3	25.8	25.0	25.8	25.5	26.2	26.7
	6H	25.2	25.8	25.7	26.3	26.8	25.6	26.2	26.1	26.7	27.2
	8H	25.9	26.4	26.4	26.9	27.5	25.9	26.4	26.4	26.9	27.5

<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>

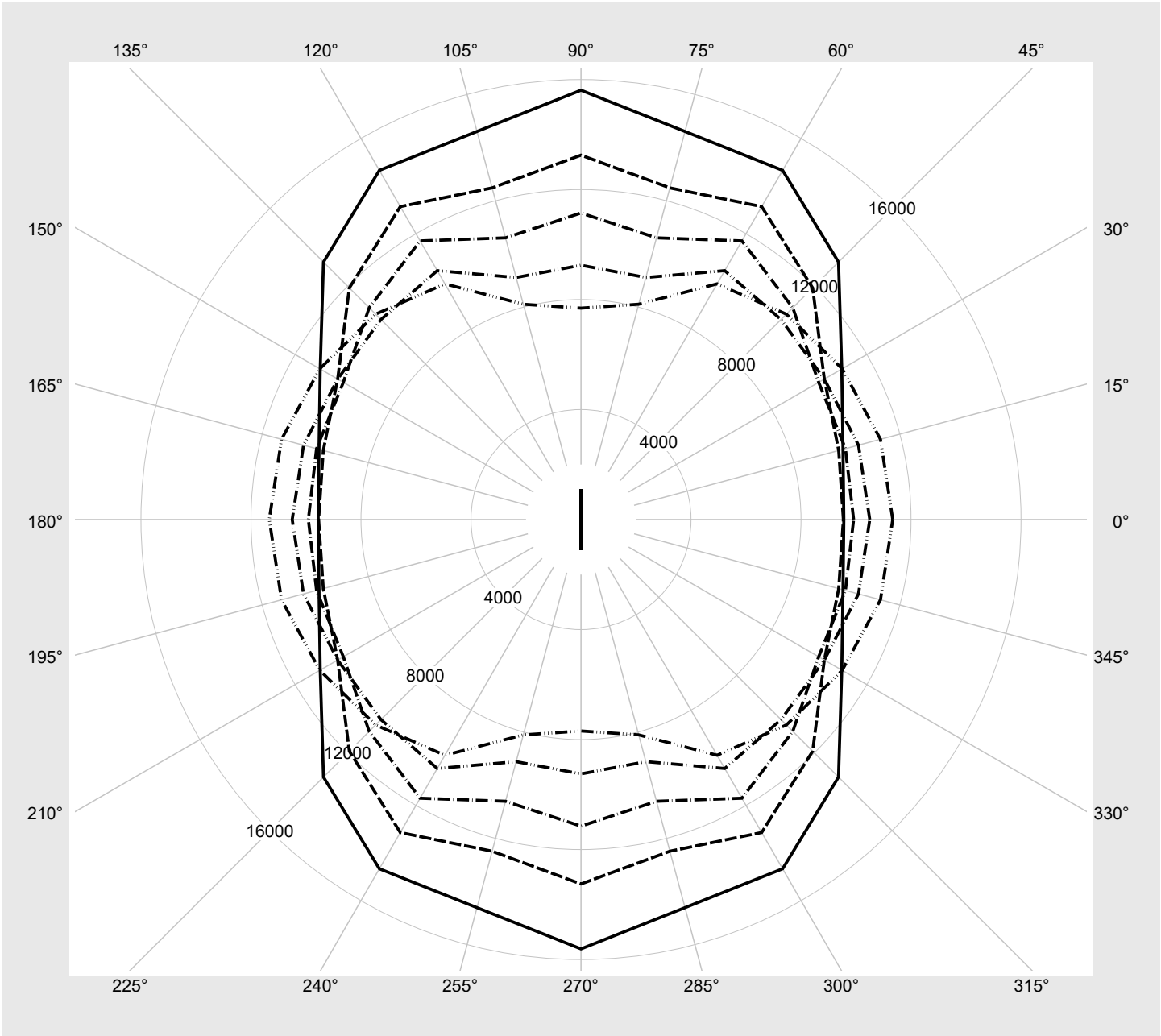
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		15482.3	16295.4	18663.5	22284.9	24765.0	23899.3	23230.6	
50°		13202.8	13852.1	15758.9	18870.4	21694.4	22243.3	22184.5	
55°		11437.3	12025.7	13828.8	16476.5	18841.5	19772.4	20538.6	
60°		10161.4	10616.2	12176.3	14747.6	16497.9	17072.0	18209.1	
65°		9556.7	9862.4	10948.6	13242.0	14662.7	14610.2	15612.9	
70°		9539.7	9700.9	10217.0	11912.3	13140.3	12485.9	13251.1	
75°		9913.7	9954.9	9978.8	10891.7	11700.7	10604.9	11148.7	
80°		10499.7	10445.2	10216.7	10287.6	10451.6	9113.5	9248.7	
85°		11334.9	11273.4	10966.0	10562.4	9896.9	8105.7	7688.4	

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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	8480	56.2
95	240	252	8053	53.2
90	227	250	7629	50.2
85	213	248	7205	47.3
80	200	245	6782	44.3
75	187	243	6358	41.5
70	174	240	5934	38.6
65	161	238	5510	35.8
60	148	234	5086	33.0
55	135	231	4662	30.2
50	122	227	4239	27.5
45	109	224	3815	24.9
40	97	219	3391	22.2
35	84	214	2967	19.7
30	72	208	2543	17.0
25	60	201	2119	14.5
20	48	194	1695	12.0
15	36	183	1272	9.6
10	24	169	848	7.2
5	12	143	424	4.6