

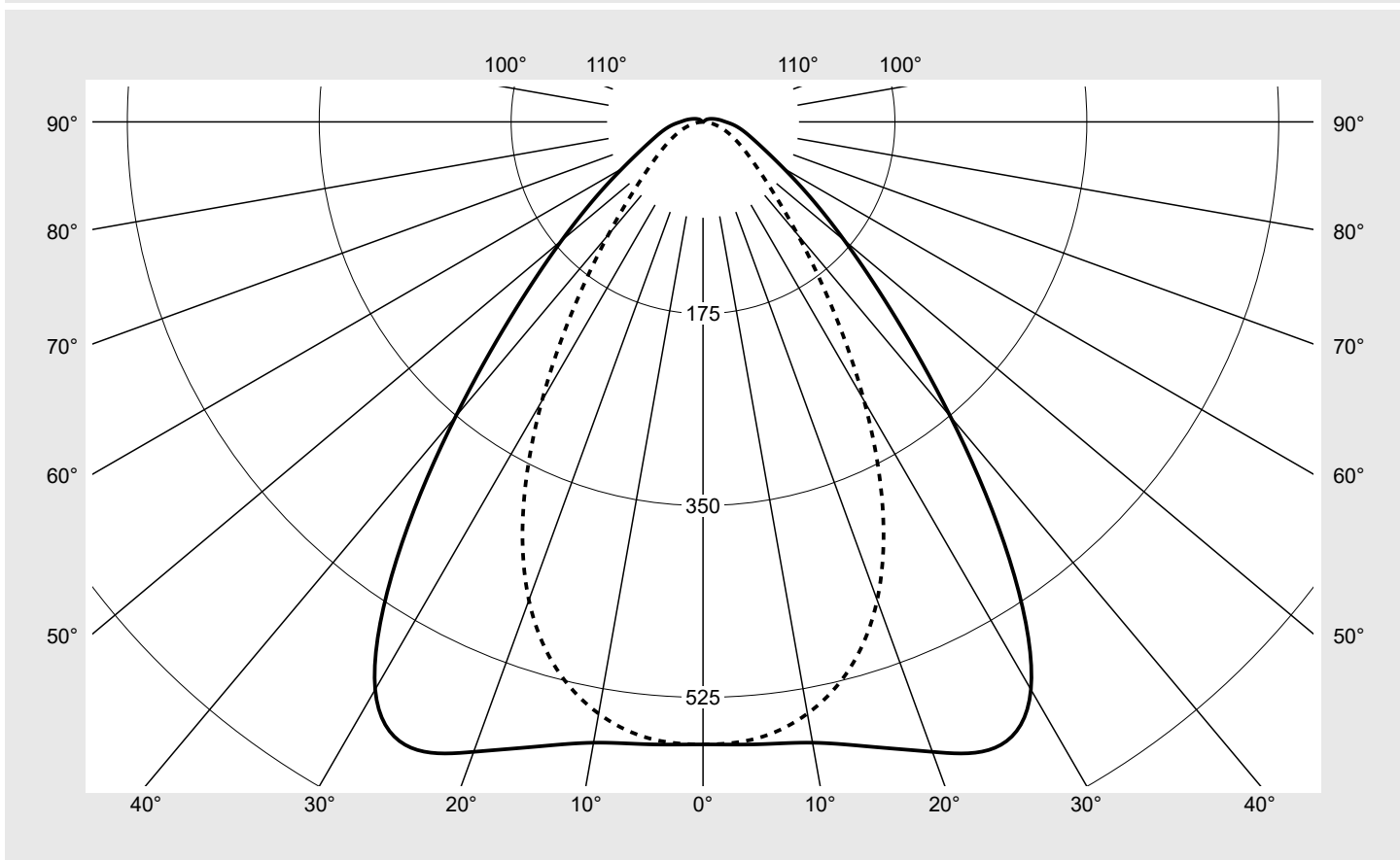


# Photometric test report

<b>Family</b> <b>Licross® 21 Protected</b>	<b>Order number: 52TP12DN4E5M</b> <b>EAN: 4058352904015</b>	<b>LP number</b> <b>58523_168</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 = 14690 lm Power consumption = 84.9 W Luminous efficacy = 173 lm/W	<b>serial documentation</b> <b>03.08.2023</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 630 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=70 N2=91 N3=97 N4=98 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	98.3%
$\phi_o$	1.7%

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°	568.0	568.0	568.0	568.0	568.0	568.0	568.0	3.4	3.4
5°	570.0	568.0	563.9	564.4	565.6	564.2	564.6	27.0	30.4
10°	575.1	572.9	563.4	557.9	553.3	549.0	548.2	53.3	83.7
15°	590.1	586.0	566.8	548.5	532.2	519.9	516.5	78.2	161.9
20°	611.6	603.6	568.7	531.0	496.5	471.9	464.3	100.3	262.2
25°	630.0	617.6	564.2	499.9	441.6	401.0	387.5	117.1	379.3
30°	598.0	589.4	536.5	452.4	368.0	311.9	293.8	123.5	502.8
35°	487.1	490.1	463.2	383.1	284.6	222.1	203.0	114.7	617.4
40°	351.1	360.8	359.1	297.2	205.7	150.3	134.3	94.9	712.3
45°	241.7	250.7	257.1	211.9	140.4	100.6	89.9	72.8	785.1
50°	168.3	174.0	178.9	144.5	94.4	69.8	63.7	54.4	839.5
55°	118.9	121.8	123.3	97.4	64.6	50.4	47.5	40.5	880.0
60°	85.1	85.8	84.4	66.1	45.7	37.4	36.1	30.1	910.0
65°	63.8	62.6	58.2	45.7	33.4	28.1	27.2	22.6	932.7
70°	50.4	47.7	40.8	32.1	24.8	20.7	19.9	17.3	949.9
75°	41.3	37.6	29.5	22.7	17.9	14.5	13.5	13.2	963.2
80°	34.0	30.0	21.9	15.9	12.4	9.4	8.0	10.0	973.1
85°	27.2	23.7	16.4	11.2	8.0	5.3	3.6	7.3	980.4
90°	20.7	17.9	12.0	7.4	4.6	2.2	0.4	5.0	985.4
95°	16.6	14.7	10.2	6.3	3.6	1.3	0.3	4.0	989.4
100°	13.2	11.9	8.5	5.2	2.7	0.8	0.3	3.2	992.6
105°	10.4	9.5	6.9	4.1	1.9	0.4	0.3	2.5	995.1
110°	8.2	7.4	5.5	3.1	1.2	0.3	0.3	1.9	997.0
115°	6.5	5.8	4.2	2.2	0.7	0.4	0.4	1.4	998.4
120°	4.9	4.3	3.0	1.4	0.6	0.5	0.5	1.0	999.4
125°	3.5	3.0	2.0	0.9	0.6	0.5	0.5	0.7	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	23.3	24.8	23.7	25.1	25.4	19.1	20.6	19.5	20.9	21.2
	3H	23.9	25.2	24.3	25.5	25.9	19.6	20.9	19.9	21.2	21.6
	4H	24.3	25.4	24.6	25.8	26.2	19.8	21.0	20.1	21.3	21.7
	6H	24.7	25.7	25.1	26.1	26.5	19.9	21.0	20.3	21.4	21.8
	8H	25.0	25.9	25.4	26.3	26.7	20.0	21.0	20.4	21.4	21.8
	12H	25.2	26.1	25.6	26.4	26.9	20.0	21.0	20.5	21.4	21.8
4H	2H	23.3	24.6	23.7	24.9	25.3	19.8	21.0	20.2	21.3	21.7
	3H	24.1	25.1	24.5	25.5	25.9	20.4	21.4	20.8	21.8	22.2
	4H	24.5	25.4	25.0	25.9	26.3	20.6	21.5	21.1	21.9	22.4
	6H	25.1	25.9	25.6	26.3	26.8	20.8	21.6	21.3	22.1	22.5
	8H	25.4	26.1	25.9	26.6	27.0	20.9	21.7	21.4	22.1	22.6
	12H	25.8	26.4	26.3	26.8	27.3	21.0	21.6	21.5	22.1	22.6
8H	4H	24.5	25.3	25.0	25.7	26.2	20.9	21.6	21.4	22.1	22.6
	6H	25.2	25.8	25.7	26.3	26.8	21.3	21.8	21.8	22.3	22.8
	8H	25.6	26.1	26.1	26.6	27.1	21.4	21.9	21.9	22.4	22.9
	12H	26.1	26.5	26.6	27.0	27.6	21.5	22.0	22.0	22.5	23.0
12H	4H	24.5	25.2	25.0	25.6	26.1	21.1	21.6	21.5	22.1	22.6
	6H	25.2	25.7	25.7	26.2	26.7	21.4	21.9	21.9	22.4	22.9
	8H	25.6	26.1	26.2	26.6	27.1	21.6	22.0	22.1	22.5	23.0

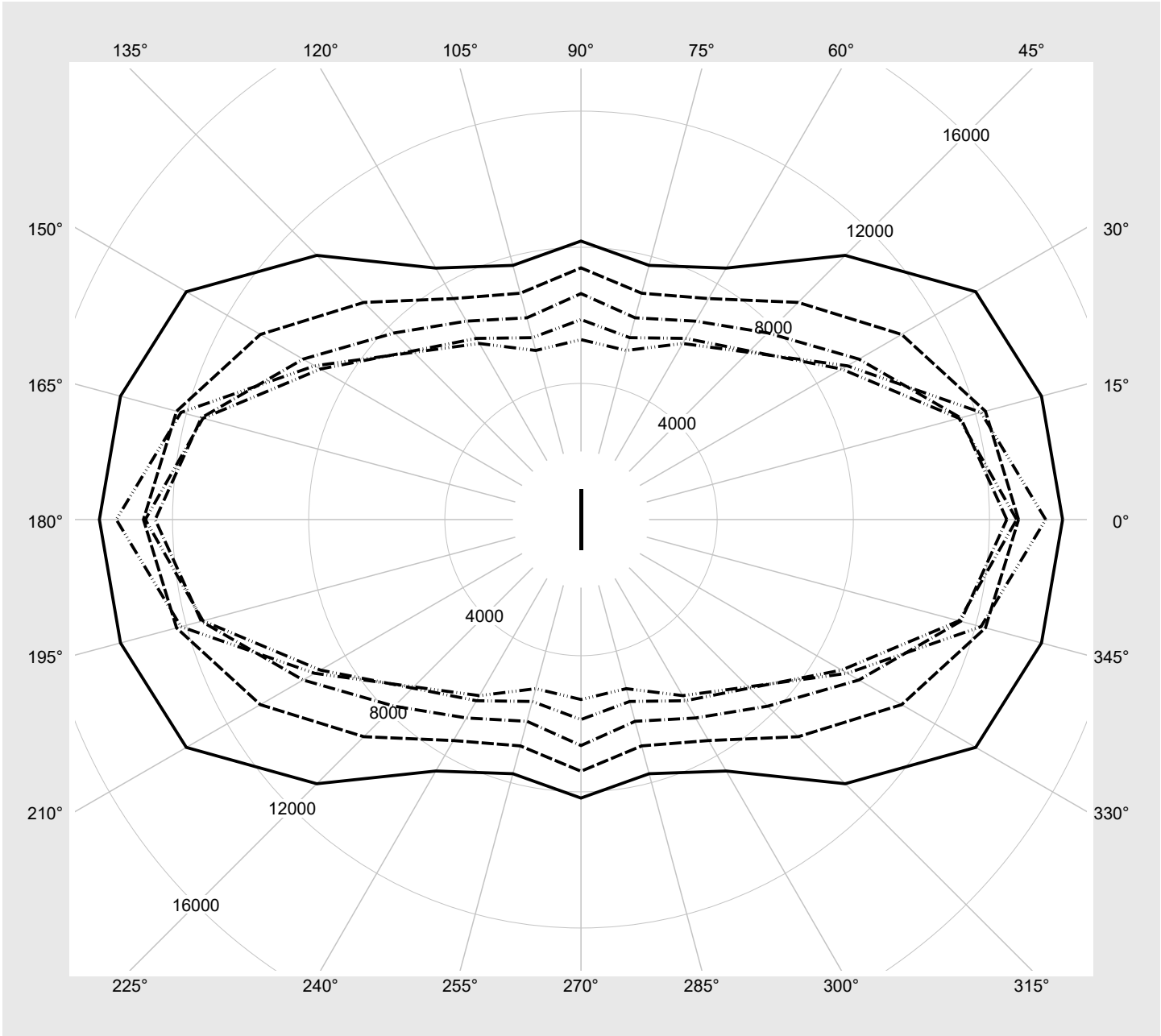
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		37284.5	38854.0	40438.1	34107.6	23321.4	17356.4	16184.7	
50°		27798.9	28905.2	30226.8	25083.2	16996.9	13133.6	12614.0	
55°		21303.3	21978.8	22688.0	18492.7	12805.1	10526.7	10543.6	
60°		16805.3	17083.8	17179.5	13975.4	10160.7	8852.0	9177.9	
65°		14149.1	14006.1	13388.8	10976.9	8531.1	7731.4	8182.5	
70°		12854.7	12300.6	10877.6	9022.5	7497.2	6884.6	7394.7	
75°		12509.2	11548.6	9428.0	7754.9	6731.0	6136.8	6639.4	
80°		12799.7	11498.2	8843.8	7001.5	6146.3	5532.7	5875.7	
85°		13652.6	12164.8	9034.3	6949.9	5973.3	5143.8	5286.9	

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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	14690	84.9
95	240	252	13945	80.1
90	227	250	13245	75.8
85	213	248	12484	71.1
80	200	245	11771	66.8
75	186	243	10993	62.2
70	173	240	10264	58.0
65	160	237	9527	53.7
60	148	234	8841	49.8
55	135	231	8094	45.5
50	122	227	7340	41.4
45	110	223	6637	37.5
40	97	219	5869	33.3
35	85	214	5155	29.5
30	72	208	4378	25.5
25	60	201	3654	21.6
20	48	193	2925	17.9
15	36	182	2191	14.1
10	24	168	1457	10.3
5	12	142	715	6.6
1	4	102	217	4.3