

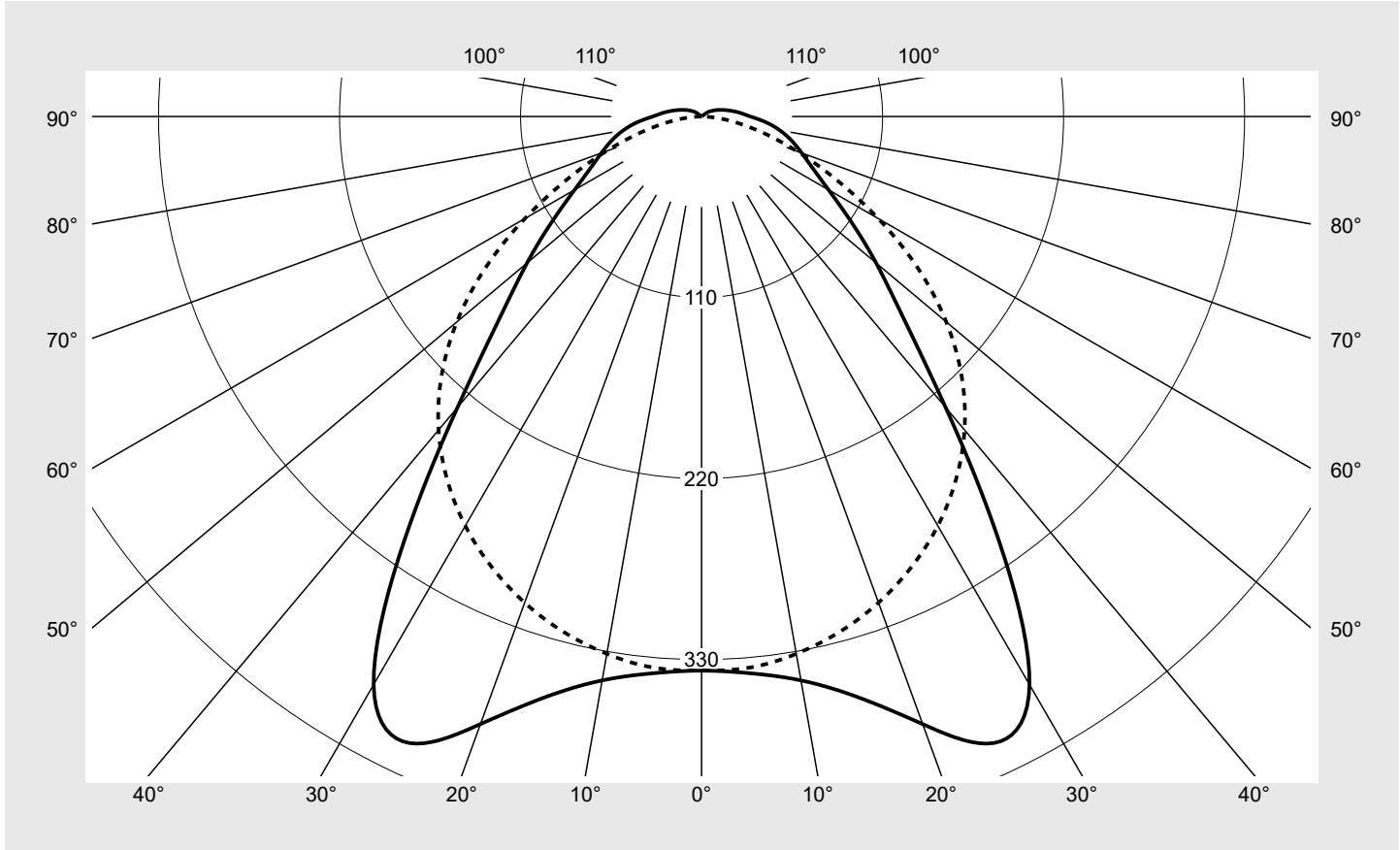


# Photometric test report

<b>Family</b> <b>Licross® 11 Protected</b>	<b>Order number: 51TD1BDN69XG</b> <b>EAN: 4058352059302</b>	<b>LP number</b> <b>58522_263</b>
	<b>Version</b> prismatic cover, frosted, wide distribution <b>Lamps</b> LED 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 9140 lm Power consumption = 57.1 W Luminous efficacy = 160.1 lm/W	<b>serial documentation</b> <b>29.01.2024</b>
		

**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 $\gamma$	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	20.9	22.5	21.2	22.8	23.1	22.7	24.4	23.1	24.7	25.0
	3H	22.0	23.5	22.4	23.8	24.2	23.8	25.2	24.1	25.6	25.9
	4H	22.7	24.1	23.1	24.5	24.8	24.1	25.5	24.5	25.8	26.2
	6H	23.5	24.8	23.9	25.1	25.5	24.4	25.6	24.8	26.0	26.4
	8H	23.9	25.1	24.3	25.5	25.9	24.5	25.7	24.9	26.0	26.4
	12H	24.3	25.4	24.7	25.8	26.2	24.5	25.6	24.9	26.0	26.4
4H	2H	21.7	23.1	22.1	23.4	23.8	23.2	24.6	23.6	24.9	25.3
	3H	23.1	24.2	23.5	24.6	25.0	24.5	25.6	24.9	26.0	26.4
	4H	23.9	24.9	24.3	25.3	25.8	25.0	26.0	25.4	26.4	26.9
	6H	24.8	25.7	25.2	26.1	26.6	25.3	26.2	25.8	26.7	27.1
	8H	25.2	26.1	25.7	26.5	27.0	25.4	26.3	25.9	26.7	27.2
	12H	25.7	26.5	26.2	26.9	27.4	25.5	26.3	26.0	26.7	27.2
8H	4H	24.3	25.1	24.7	25.6	26.0	25.2	26.1	25.7	26.5	27.0
	6H	25.4	26.1	25.8	26.5	27.0	25.8	26.5	26.2	26.9	27.4
	8H	25.9	26.6	26.4	27.1	27.6	26.0	26.6	26.5	27.1	27.6
	12H	26.6	27.1	27.1	27.6	28.2	26.1	26.7	26.6	27.2	27.7
12H	4H	24.4	25.1	24.8	25.6	26.1	25.3	26.1	25.8	26.5	27.0
	6H	25.5	26.1	26.0	26.6	27.1	25.9	26.5	26.4	27.0	27.5
	8H	26.1	26.7	26.7	27.2	27.7	26.1	26.7	26.7	27.2	27.7

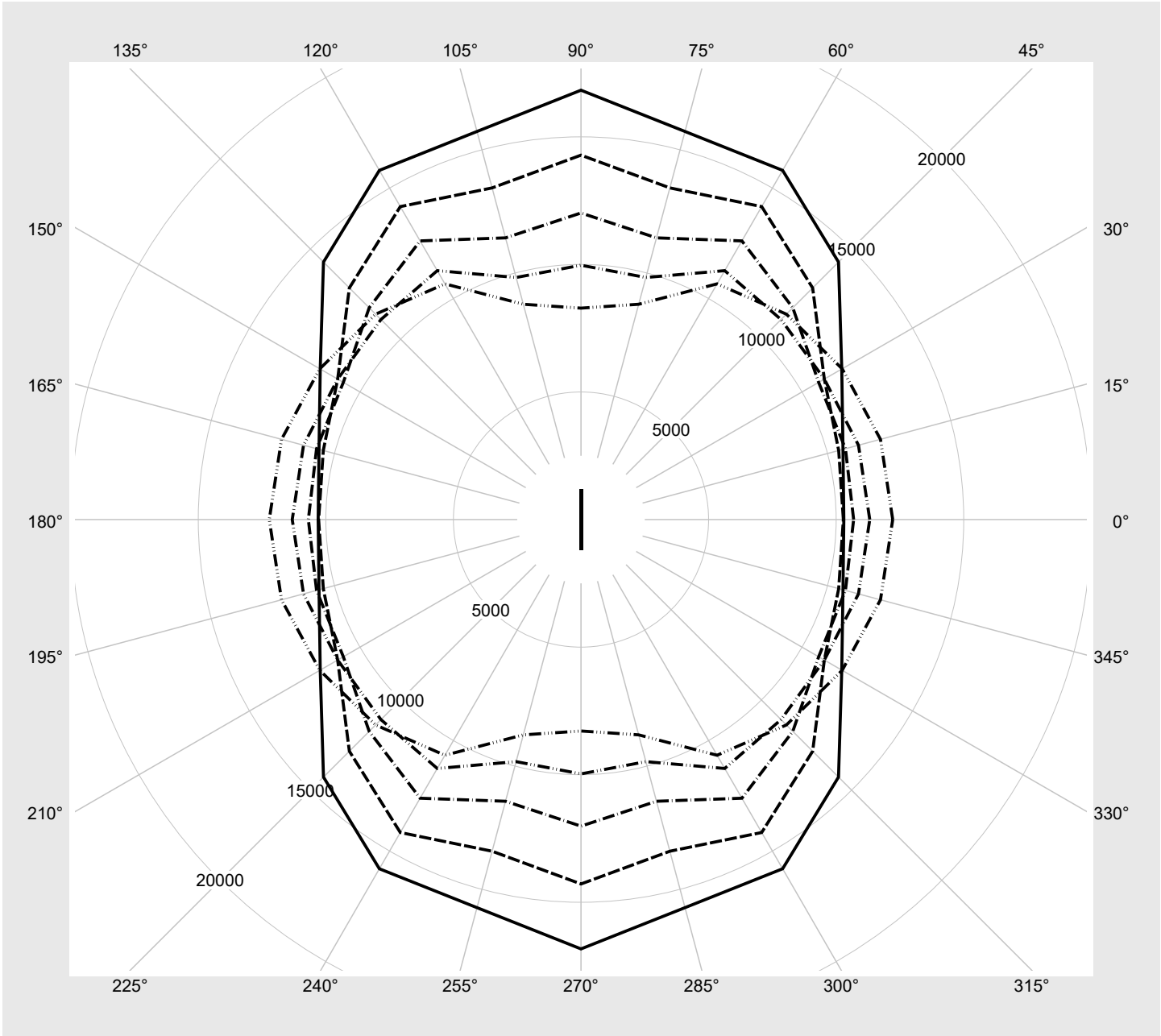
<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 1480</b>	<b>H(C0) = 13</b>	<b>H(C180) = 13</b>
			<b>B = 78</b>	<b>H(C90) = 0</b>	<b>H(C270) = 0</b>

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°		16687.3	17563.7	20116.1	24019.3	26692.4	25759.4	25038.7	
50°		14230.4	14930.2	16985.4	20339.1	23382.9	23974.5	23911.1	
55°		12327.5	12961.7	14905.1	17758.8	20307.9	21311.3	22137.1	
60°		10952.3	11442.4	13124.0	15895.4	17781.9	18400.7	19626.3	
65°		10300.5	10630.0	11800.8	14272.6	15803.9	15747.3	16828.1	
70°		10282.2	10455.9	11012.2	12839.4	14163.0	13457.7	14282.4	
75°		10685.3	10729.7	10755.4	11739.4	12611.3	11430.2	12016.4	
80°		11316.9	11258.2	11011.8	11088.3	11265.0	9822.9	9968.5	
85°		12217.1	12150.9	11819.5	11384.4	10667.2	8736.6	8286.7	

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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	9140	57.1
95	240	252	8676	53.8
90	227	250	8241	50.9
85	213	248	7766	47.7
80	200	245	7322	44.8
75	186	243	6841	41.7
70	173	240	6388	38.7
65	160	237	5932	35.9
60	147	234	5474	33.0
55	134	231	5011	30.1
50	122	227	4578	27.5
45	109	223	4107	24.7
40	97	219	3669	22.2
35	84	213	3191	19.5
30	72	208	2743	17.0
25	60	201	2294	14.5
20	48	193	1842	11.9
15	36	182	1385	9.4
10	24	168	925	6.9
5	12	142	459	4.5
2	4	102	148	3.0