

Photometric test report

Family
Licross® 21 Recessed

Order number: 52TE14DV4EXG
EAN: 4058352889800

LP number
58683_276

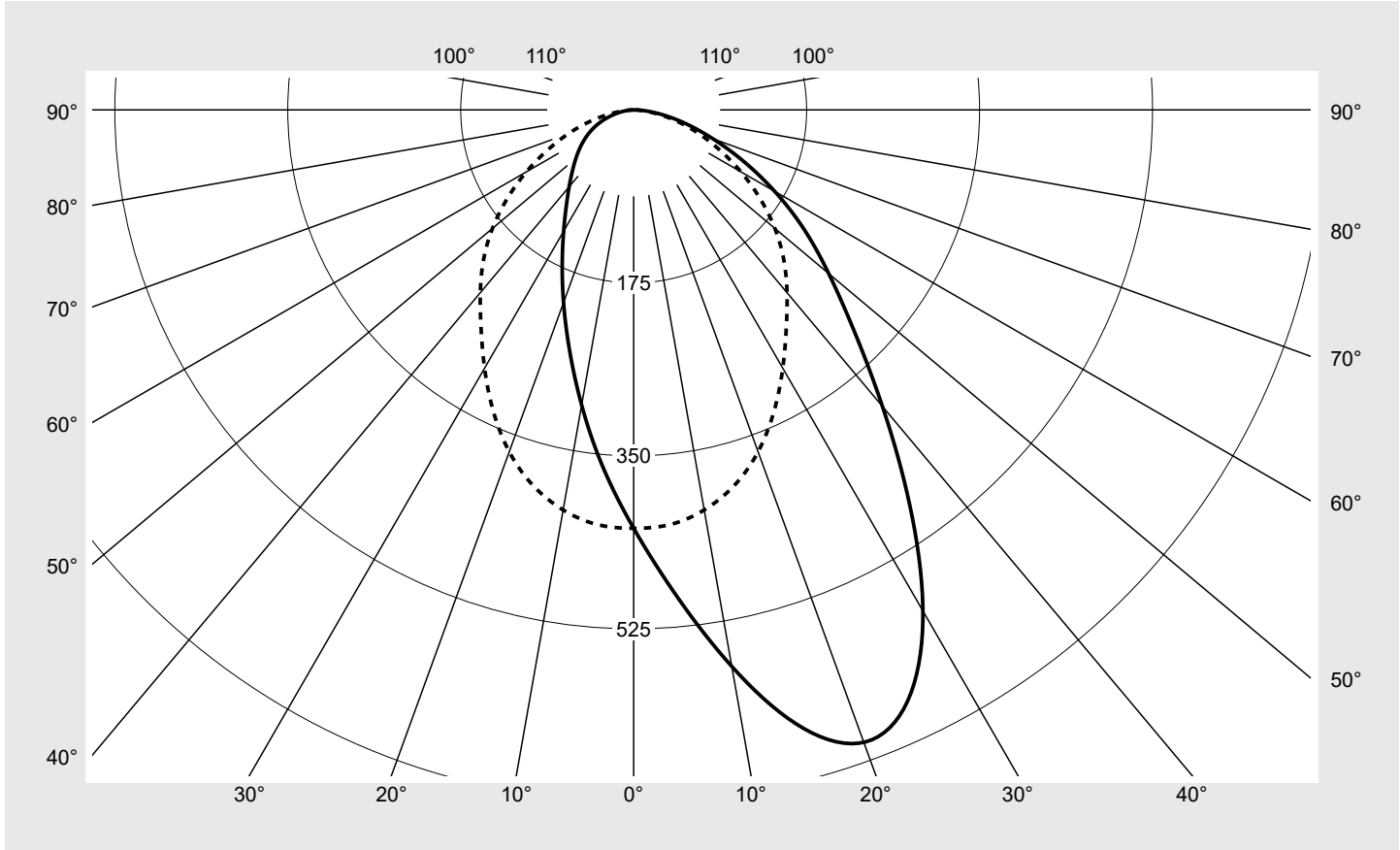


Version cover frosted, asymmetric distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 14200 lm
 Power consumption = 85.3 W
 Luminous efficacy = 166.5 lm/W

serial documentation
02.08.2023



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 681 cd/klm**



Classifications	
DIN 5040	A 4 0
CIE	N1=56 N2=84 N3=97 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	Luminous intensity in cd/klm						
0°	423.3	423.3	423.3	423.3	423.3	423.3	423.3
5°	492.9	491.4	480.7	469.8	456.1	438.7	421.2
10°	571.7	566.6	544.9	518.0	484.6	447.0	411.0
15°	644.7	637.1	605.9	562.5	507.2	447.4	393.4
20°	680.9	674.8	644.8	594.0	519.7	438.2	368.1
25°	657.9	657.6	642.1	600.0	518.2	419.3	336.2
30°	585.4	591.2	594.0	574.0	501.7	394.4	301.7
35°	486.6	496.5	513.6	518.9	472.6	367.8	269.2
40°	391.6	400.9	423.7	447.6	435.3	342.4	241.4
45°	315.0	320.7	340.1	373.0	389.0	312.9	214.9
50°	257.7	259.4	273.6	305.9	334.9	275.1	186.5
55°	210.4	209.0	219.8	247.0	276.4	230.5	156.0
60°	164.7	163.2	172.4	194.6	218.3	183.7	125.4
65°	122.2	121.6	130.0	147.7	165.1	139.3	96.1
70°	85.2	85.7	92.4	106.6	118.3	100.1	70.2
75°	55.7	56.1	61.0	71.1	77.9	65.9	46.5
80°	31.6	31.9	35.4	40.3	43.4	36.3	25.7
85°	13.1	12.9	14.6	16.5	16.2	13.2	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0°	423.3	423.3	423.3	423.3	423.3	423.3	2.5	2.5
5°	404.2	389.5	375.7	365.6	362.1	361.8	20.2	22.8
10°	378.5	351.6	328.9	312.6	305.3	303.2	40.3	63.1
15°	347.6	311.7	283.3	263.5	254.2	251.1	59.8	123.0
20°	312.8	271.7	241.2	220.7	211.0	207.4	77.2	200.1
25°	275.0	232.7	202.9	183.7	174.4	171.0	89.9	290.0
30°	237.7	196.9	169.7	152.6	144.6	141.7	96.4	386.5
35°	204.1	165.0	141.0	127.0	121.0	118.9	96.9	483.4
40°	176.0	138.8	117.2	106.8	102.8	101.6	93.4	576.7
45°	151.3	116.9	98.0	90.5	88.3	87.8	87.1	663.9
50°	128.6	98.3	82.7	77.4	76.2	76.3	79.3	743.1
55°	107.1	82.4	69.7	65.9	65.5	66.0	69.9	813.0
60°	87.0	68.0	58.3	55.3	55.4	56.0	59.0	872.0
65°	68.6	55.0	47.7	45.3	45.4	45.9	47.4	919.5
70°	51.6	42.4	37.2	35.1	35.2	35.4	35.8	955.3
75°	35.3	29.8	26.5	24.5	24.4	24.5	24.7	980.0
80°	20.2	17.6	15.6	14.5	14.4	14.5	14.3	994.3
85°	7.8	7.1	6.7	6.2	6.2	6.3	5.7	1000.0
90°	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	1000.0

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UGR-Table	Standard room	siteco
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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	26.2	27.8	26.6	28.1	28.4	24.8	26.4	25.2	26.7	27.0
	3H	27.2	28.6	27.5	28.9	29.3	25.9	27.4	26.3	27.7	28.1
	4H	27.5	28.9	27.9	29.2	29.6	26.3	27.7	26.7	28.0	28.4
	6H	27.8	29.0	28.2	29.4	29.8	26.6	27.8	27.0	28.2	28.6
	8H	27.9	29.1	28.3	29.4	29.8	26.7	27.9	27.1	28.2	28.6
	12H	28.0	29.0	28.4	29.4	29.9	26.8	27.8	27.2	28.2	28.6
4H	2H	27.0	28.3	27.3	28.6	29.0	25.4	26.8	25.8	27.1	27.5
	3H	28.1	29.2	28.5	29.6	30.0	26.8	28.0	27.2	28.3	28.8
	4H	28.5	29.5	29.0	30.0	30.4	27.4	28.4	27.8	28.8	29.2
	6H	28.9	29.7	29.3	30.2	30.6	27.7	28.6	28.2	29.1	29.5
	8H	29.0	29.8	29.4	30.2	30.7	27.9	28.7	28.3	29.1	29.6
	12H	29.1	29.8	29.5	30.2	30.7	27.9	28.6	28.4	29.1	29.6
8H	4H	28.9	29.7	29.3	30.1	30.6	27.6	28.4	28.1	28.9	29.3
	6H	29.3	30.0	29.8	30.4	30.9	28.1	28.8	28.6	29.3	29.8
	8H	29.4	30.0	29.9	30.5	31.0	28.3	28.9	28.8	29.4	29.9
	12H	29.6	30.1	30.1	30.6	31.1	28.4	28.9	28.9	29.4	29.9
12H	4H	28.9	29.6	29.4	30.1	30.6	27.6	28.4	28.1	28.8	29.3
	6H	29.4	29.9	29.9	30.4	30.9	28.2	28.7	28.7	29.2	29.8
	8H	29.6	30.0	30.1	30.5	31.1	28.4	28.9	28.9	29.4	29.9

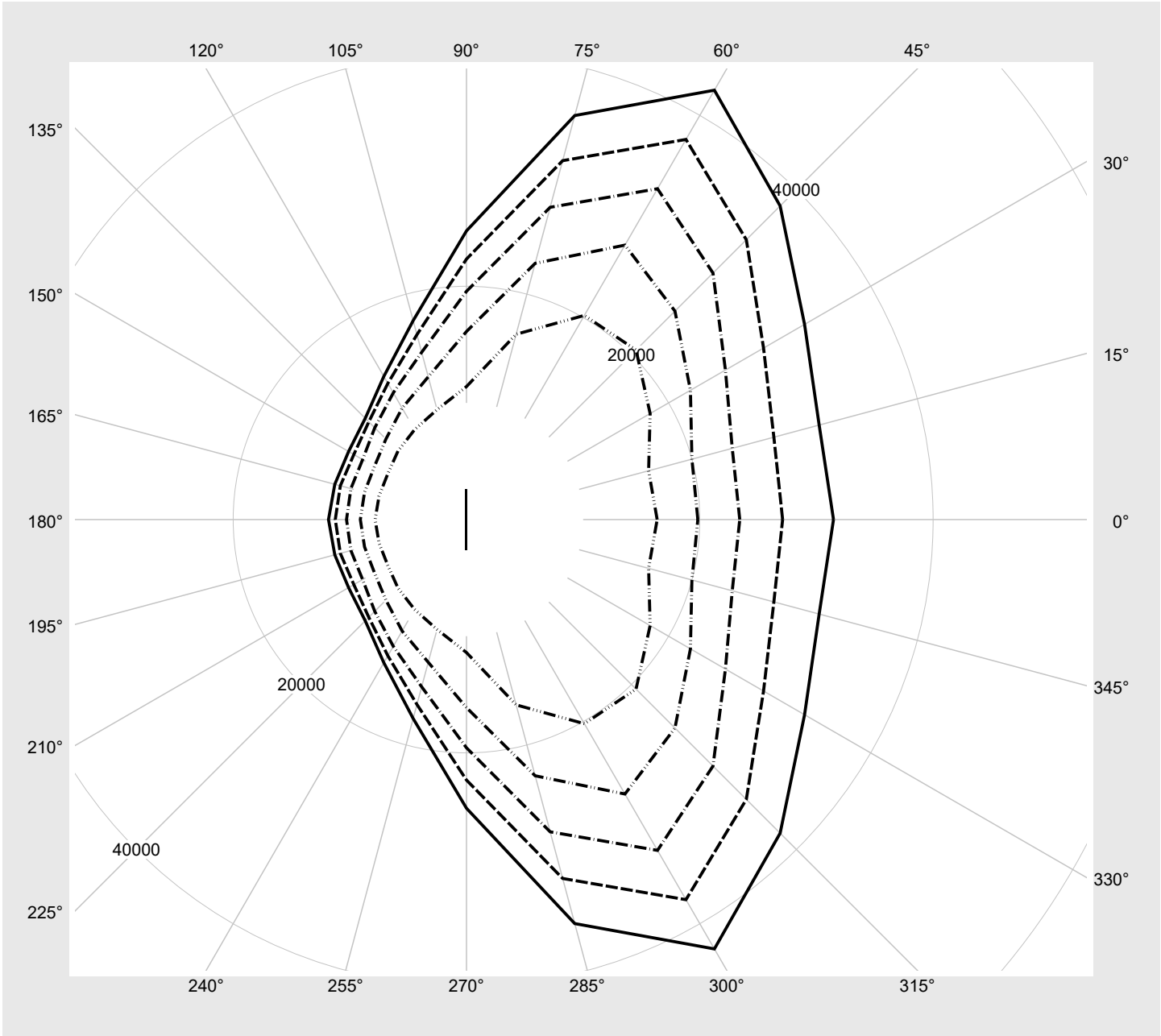
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 2250
			B = 58

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
γ	Luminance in cd/m ²												
45°	48467.7	49343.6	52341.1	57402.0	59854.6	48156.2	33070.9	23289.7	17985.6	15073.7	13931.1	13591.3	13504.7
50°	43617.5	43906.6	46315.5	51775.7	56700.6	46561.8	31572.9	21776.6	16647.2	13993.2	13095.0	12905.4	12918.2
55°	39905.9	39654.0	41693.7	46853.0	52444.1	43721.5	29587.5	20325.0	15627.6	13222.1	12506.9	12427.8	12528.5
60°	35840.8	35524.4	37520.0	42351.0	47512.4	39970.0	27279.9	18926.6	14793.2	12679.2	12044.6	12048.8	12194.8
65°	31460.5	31297.8	33463.3	38022.9	42501.1	35857.3	24748.4	17660.0	14172.0	12274.7	11669.1	11686.9	11828.8
70°	27099.3	27278.5	29403.3	33924.5	37626.8	31852.1	22332.6	16410.9	13483.3	11845.5	11151.3	11195.5	11247.7
75°	23425.3	23585.0	25629.5	29884.2	32747.6	27714.4	19567.1	14845.0	12547.8	11122.6	10282.2	10258.2	10284.7
80°	19831.4	20005.6	22165.6	25273.0	27167.3	22740.2	16121.8	12666.0	11033.6	9765.3	9111.1	9047.8	9099.2
85°	16345.1	16162.8	18176.6	20553.7	20206.7	16447.5	11402.4	9751.9	8899.2	8306.1	7801.8	7761.8	7833.0

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14200	85.3
95	240	252	13486	80.7
90	226	250	12762	76.1
85	213	248	12081	71.7
80	199	245	11342	67.0
75	186	243	10644	62.7
70	173	240	9943	58.3
65	160	237	9237	54.0
60	147	234	8523	49.7
55	134	231	7801	45.4
50	122	227	7127	41.4
45	109	223	6391	37.3
40	97	219	5708	33.4
35	84	213	4960	29.2
30	72	208	4262	25.3
25	60	201	3560	21.5
20	48	193	2853	17.4
15	36	182	2141	13.3
10	24	168	1425	9.0
5	12	142	703	4.4
2	4	102	217	1.4