
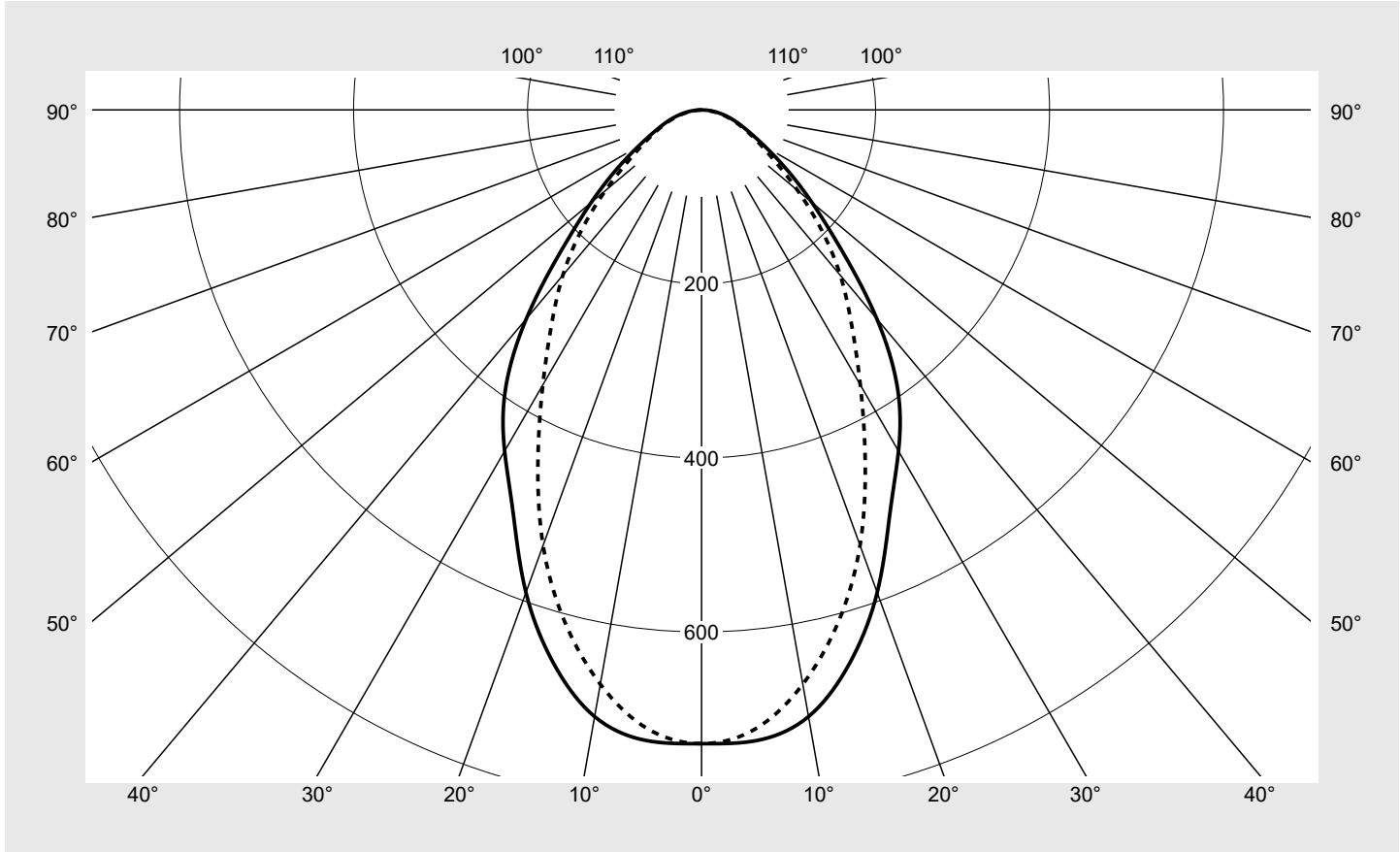


Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DE475M EAN: 4058352890806	LP number 59446_20
	Version cover frosted, wide distribution, high visual comfort Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 7500 lm Power consumption = 44.1 W Luminous efficacy = 170.1 lm/W	serial documentation 02.08.2023



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 728 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=69 N2=91 N3=98 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

Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DE475M EAN: 4058352890806	LP number 59446_20
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

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°	728.4	728.4	728.4	728.4	728.4	728.4	728.4	4.4	4.4
5°	727.5	724.8	717.6	716.9	716.5	714.4	713.9	34.3	38.7
10°	708.0	704.6	693.5	687.1	680.0	672.5	670.2	65.5	104.1
15°	658.1	653.2	637.7	629.5	623.7	612.7	608.6	89.6	193.8
20°	590.3	582.5	562.9	551.9	546.6	538.5	532.6	104.5	298.2
25°	512.2	499.8	475.2	461.5	453.8	449.4	445.1	108.8	407.1
30°	452.8	433.7	396.2	371.8	363.4	365.0	364.9	106.8	513.9
35°	393.4	374.1	335.3	295.7	285.6	295.2	300.5	101.3	615.2
40°	313.5	300.8	276.8	238.3	224.4	239.2	248.1	91.6	706.8
45°	227.2	217.7	208.5	191.4	176.2	187.2	194.9	77.0	783.8
50°	165.8	151.3	143.3	147.8	138.9	142.4	144.5	61.5	845.3
55°	119.7	105.2	93.7	108.9	109.4	104.2	103.2	47.4	892.7
60°	84.3	73.0	63.0	78.5	83.8	75.4	76.1	35.9	928.6
65°	60.6	51.5	43.5	55.3	61.5	55.5	56.9	27.0	955.6
70°	44.8	36.9	29.5	37.3	40.5	40.0	42.0	19.5	975.1
75°	31.9	25.4	19.2	23.6	27.6	27.0	29.3	13.5	988.6
80°	20.2	15.5	11.1	12.8	15.3	15.6	17.2	8.0	996.7
85°	9.4	7.2	4.9	5.0	5.8	6.0	6.3	3.3	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DE475M EAN: 4058352890806	LP number 59446_20
---------------------------------------	--	------------------------------

UGR-Table	Standard room	siteco
------------------	----------------------	---------------

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	23.7	25.2	24.1	25.5	25.8	23.3	24.8	23.7	25.1	25.4
	3H	24.4	25.7	24.8	26.0	26.4	24.1	25.4	24.5	25.8	26.1
	4H	24.8	26.0	25.2	26.3	26.7	24.5	25.7	24.9	26.1	26.4
	6H	25.1	26.2	25.5	26.5	26.9	24.8	25.9	25.2	26.3	26.6
	8H	25.3	26.3	25.7	26.6	27.0	24.9	25.9	25.4	26.3	26.7
	12H	25.4	26.3	25.8	26.7	27.1	25.0	25.9	25.4	26.3	26.7
4H	2H	24.0	25.2	24.4	25.6	25.9	23.7	24.9	24.1	25.3	25.6
	3H	24.8	25.8	25.2	26.2	26.6	24.7	25.7	25.1	26.1	26.5
	4H	25.2	26.1	25.6	26.5	26.9	25.2	26.1	25.6	26.5	26.9
	6H	25.6	26.3	26.0	26.8	27.2	25.5	26.3	26.0	26.7	27.2
	8H	25.7	26.4	26.2	26.9	27.4	25.7	26.3	26.1	26.8	27.3
	12H	25.9	26.5	26.4	27.0	27.5	25.7	26.3	26.2	26.8	27.3
8H	4H	25.3	26.0	25.7	26.4	26.9	25.3	26.0	25.7	26.4	26.9
	6H	25.7	26.3	26.2	26.7	27.3	25.7	26.3	26.2	26.8	27.3
	8H	25.9	26.4	26.4	26.9	27.4	25.9	26.4	26.4	26.9	27.4
	12H	26.1	26.5	26.6	27.0	27.6	26.0	26.4	26.5	26.9	27.5
12H	4H	25.3	25.9	25.8	26.4	26.8	25.3	25.9	25.8	26.3	26.8
	6H	25.7	26.2	26.2	26.7	27.2	25.8	26.2	26.3	26.7	27.2
	8H	25.9	26.4	26.5	26.9	27.4	25.9	26.3	26.4	26.8	27.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 750 B = 58
------------------------	---	--------------------------------------	---------------------------------

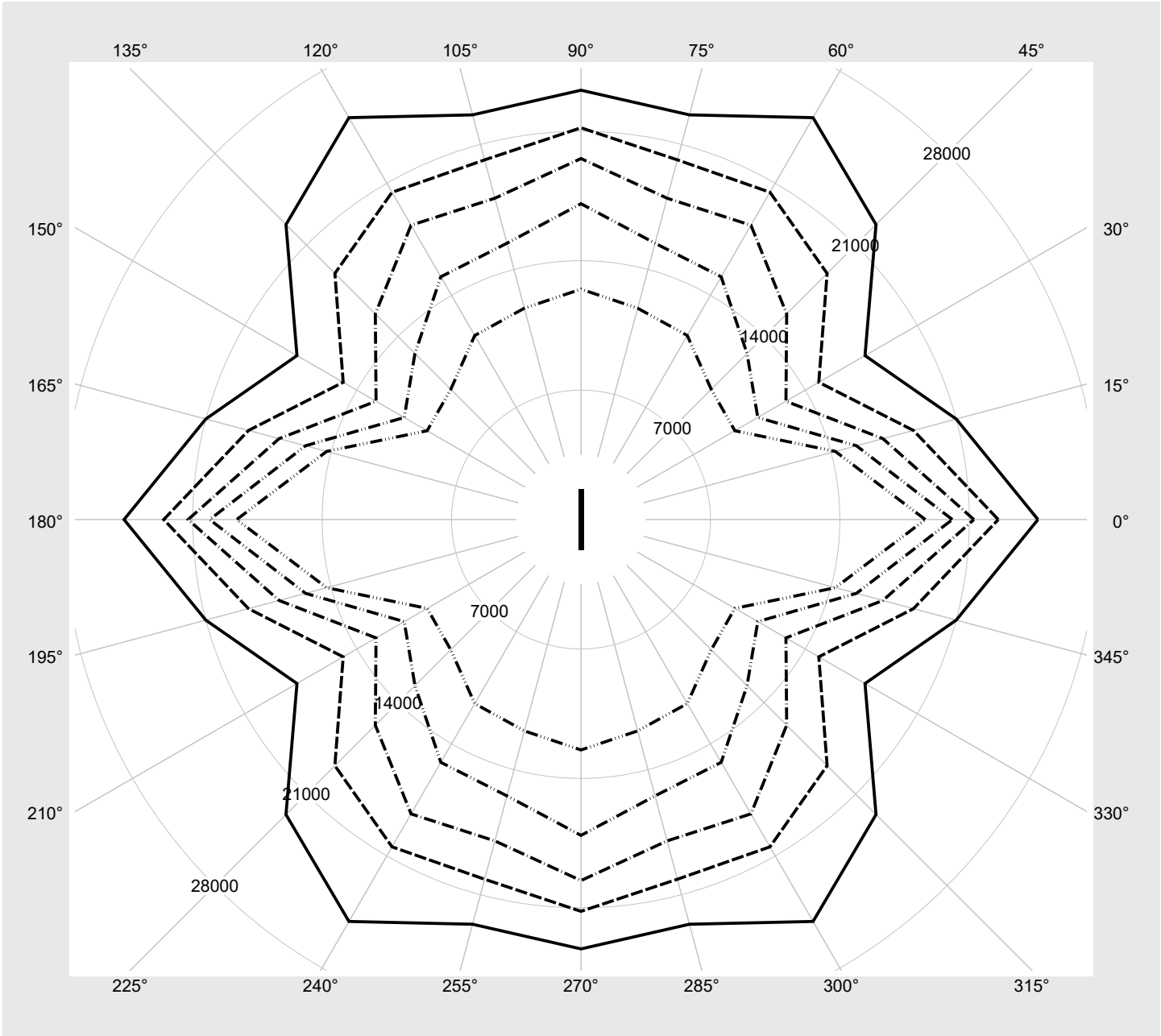
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°	45°	55409.9	53079.1	50839.0	46676.1	42966.5	45633.5	47514.6	
50°	50°	44481.6	40579.4	38435.2	39631.8	37267.4	38189.8	38746.6	
55°	55°	35989.6	31635.1	28170.5	32738.9	32897.3	31318.6	31025.2	
60°	60°	29083.8	25162.4	21716.6	27064.1	28885.9	26001.0	26252.1	
65°	65°	24713.3	21009.4	17735.9	22564.2	25098.9	22659.2	23221.4	
70°	70°	22567.7	18616.6	14850.4	18824.3	20439.4	20139.5	21188.5	
75°	75°	21247.7	16905.0	12798.9	15730.6	18381.2	17992.9	19524.4	
80°	80°	20083.2	15422.6	11039.0	12700.1	15161.5	15472.2	17080.7	
85°	85°	18621.0	14239.3	9608.2	9960.4	11495.5	11833.8	12460.8	

Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DE475M EAN: 4058352890806	LP number 59446_20
--	--	-------------------------------------

Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



Photometric test report

Family Licross® 21 Recessed	Order number: 52TL12DE475M EAN: 4058352890806	LP number 59446_20
---------------------------------------	--	-------------------------------------

Dimming levels table	environmental temperature: 25°C	sITeco
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	7500	44.1
95	240	252	7123	41.8
90	226	250	6742	39.4
85	213	248	6384	37.3
80	199	245	5995	34.9
75	186	243	5626	32.7
70	173	240	5256	30.5
65	160	237	4880	28.2
60	147	234	4503	26.0
55	134	231	4121	23.7
50	122	227	3764	21.5
45	109	223	3375	19.3
40	97	219	3014	17.6
35	84	213	2616	15.9
30	72	208	2248	14.2
25	60	201	1878	12.4
20	48	193	1503	10.3
15	36	182	1127	7.6
10	24	168	749	4.4
5	12	142	367	1.5
1	4	102	112	0.3