

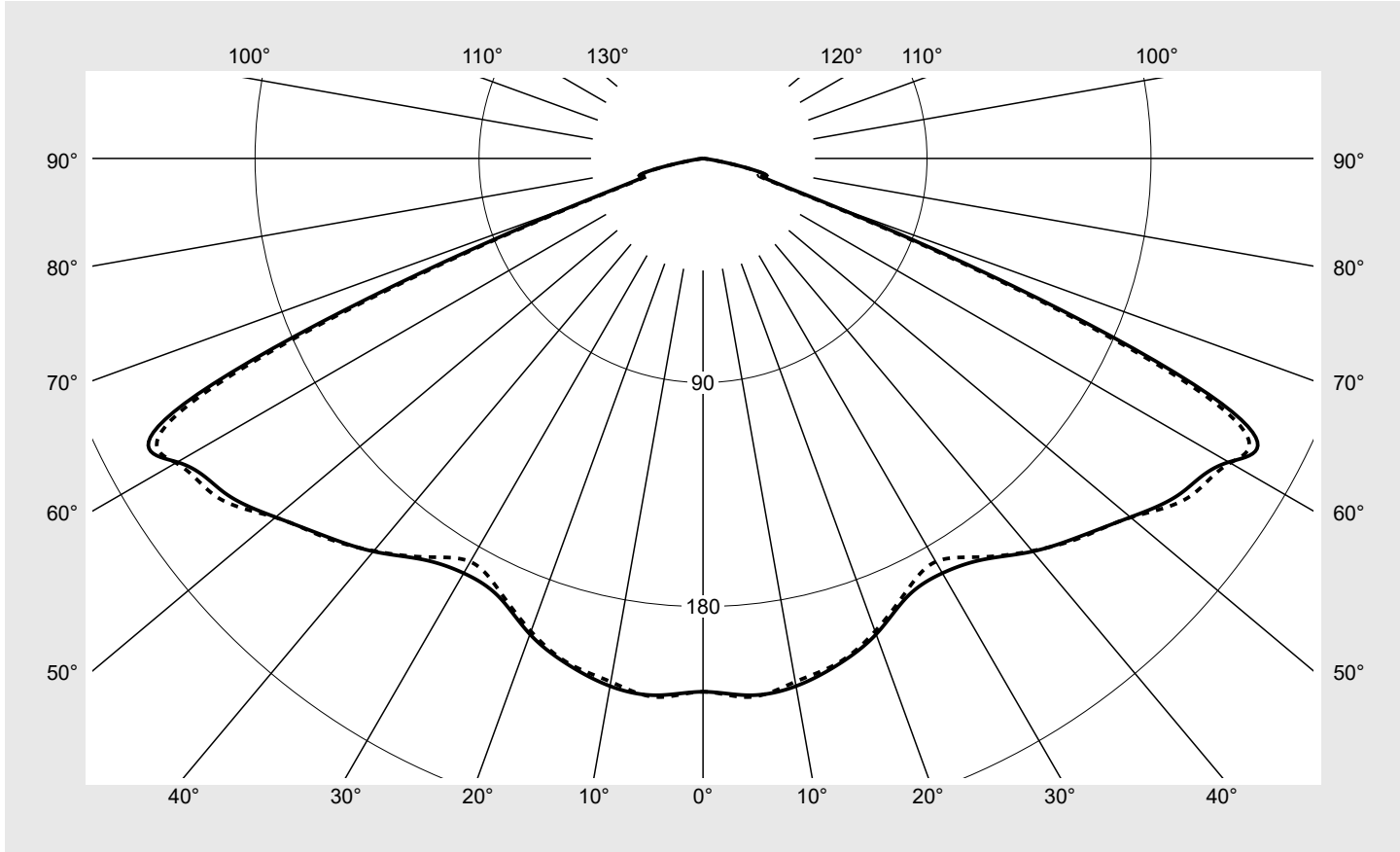


Photometric test report

Family Licross® Recessed	Order number: 56TL157C4X31 EAN: 4058352862582	LP number 59461_1
	Version emergency light operation, symmetric extremely wide distribution, Application: Area	serial documentation 06.07.2023
	Lamps LED 4000 K CRI ≥ 70	
Controlgear ECG	Rated values Net luminous flux = 320 lm	
Power consumption = 3.9 W	Luminous efficacy = 82.1 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 347 cd/klm**



Classifications	
DIN 5040	A 3 0
CIE	N1=31 N2=68 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

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Table of values for luminous intensities	Maximum luminous intensity
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C-planes	0° 180°	5°	10°	15°	20°	25°	30°	35°	40°	45°
		175° 185° 355°	170° 190° 350°	165° 195° 345°	160° 200° 340°	155° 205° 335°	150° 210° 330°	145° 215° 325°	140° 220° 320°	135° 225° 315°
Luminous intensity in cd/klm										
γ										
0°	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2
5°	216.4	216.8	217.2	216.4	216.6	217.6	218.9	219.5	218.9	219.1
10°	215.2	214.3	213.9	214.8	214.9	214.4	215.4	216.1	215.7	216.4
15°	210.3	209.5	209.0	209.7	210.2	210.0	209.4	209.5	210.5	211.0
20°	203.4	203.0	203.9	205.5	204.8	203.2	202.9	203.3	203.7	203.9
25°	194.2	194.3	195.8	197.8	197.6	196.1	195.3	194.8	193.5	192.3
30°	192.4	192.5	192.7	192.0	190.2	187.7	185.6	185.3	186.0	185.3
35°	196.6	197.5	198.2	196.4	191.9	187.2	184.8	184.2	182.8	181.3
40°	206.1	207.2	208.0	205.6	202.2	198.9	195.7	192.6	190.5	190.7
45°	214.6	215.1	215.8	214.7	212.7	211.5	211.3	211.8	213.4	214.1
50°	224.2	223.7	224.5	225.1	224.7	226.1	230.5	235.6	238.4	240.1
55°	234.4	234.6	237.7	242.0	244.7	248.1	253.9	259.2	263.6	265.7
60°	243.9	245.9	252.1	260.5	268.5	275.4	283.4	291.0	296.2	298.7
65°	224.1	228.5	242.2	262.4	283.3	300.6	317.9	332.3	343.2	347.1
70°	54.5	55.2	60.5	75.6	113.1	170.8	232.1	275.7	298.8	303.5
75°	26.5	27.0	29.5	34.3	40.7	47.1	53.3	59.7	64.8	65.7
80°	7.5	7.7	8.3	9.2	10.5	12.1	13.9	16.1	17.7	17.9
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

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Table of values for luminous intensities	Maximum luminous intensity	sITeco
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C-planes	50°	55°	60°	65°	70°	75°	80°	85°	90°	Phi-zone	Total Phi-zone	
	130°	125°	120°	115°	110°	105°	100°	95°				
	230°	235°	240°	245°	250°	255°	260°	265°				
	310°	305°	300°	295°	290°	285°	280°	275°				
γ	Luminous intensity in cd/klm										Luminous flux in lm/klm	
0°	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2	1.3	1.3
5°	220.9	221.7	219.7	218.1	218.6	218.2	216.7	216.7	217.1	217.1	10.4	11.7
10°	217.5	218.2	218.2	216.3	213.1	211.8	212.6	213.4	213.5	213.5	20.5	32.2
15°	211.6	212.5	212.1	210.6	209.7	209.5	209.4	209.6	209.8	209.8	29.8	62.0
20°	203.9	203.5	202.9	202.2	201.8	201.8	202.0	202.2	202.1	202.1	38.1	100.1
25°	192.8	193.2	193.4	193.6	193.7	193.3	192.7	192.4	192.4	192.4	45.0	145.1
30°	184.0	183.9	184.3	184.5	184.8	185.3	186.0	186.7	187.0	187.0	51.3	196.3
35°	180.4	180.6	182.4	185.9	189.4	192.4	194.2	195.2	195.4	195.4	59.4	255.7
40°	192.0	193.2	194.8	197.2	199.5	201.8	203.9	205.3	205.8	205.8	70.2	325.9
45°	213.3	212.9	211.9	211.5	211.6	212.1	213.3	214.6	215.2	215.2	82.6	408.5
50°	239.6	236.3	232.3	229.2	227.2	225.7	224.5	224.3	224.3	224.3	96.4	504.9
55°	266.2	264.1	258.6	252.5	247.1	242.4	239.2	238.1	237.7	237.7	112.1	617.0
60°	297.2	292.3	285.3	277.0	267.5	258.9	250.7	245.9	244.6	244.6	129.0	746.0
65°	342.5	330.1	315.9	301.0	280.7	257.2	235.2	221.4	217.1	217.1	142.5	888.5
70°	295.0	271.4	223.3	156.0	91.7	63.4	54.8	50.9	50.1	50.1	81.4	969.8
75°	63.5	58.4	52.0	45.9	39.5	33.6	28.9	26.5	26.0	26.0	23.4	993.3
80°	17.3	15.7	13.5	11.6	10.1	8.7	7.7	7.0	6.8	6.8	6.4	999.6
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	999.9
90°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	1000.1

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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	34.3	36.1	34.6	36.4	36.7	34.3	36.1	34.6	36.4	36.8
	3H	35.7	37.4	36.1	37.7	38.1	35.6	37.3	36.0	37.6	38.0
	4H	35.7	37.3	36.1	37.7	38.0	35.6	37.2	36.0	37.6	37.9
	6H	35.7	37.2	36.1	37.6	38.0	35.6	37.1	36.0	37.4	37.8
	8H	35.7	37.1	36.1	37.5	37.9	35.6	37.0	36.0	37.4	37.8
	12H	35.7	37.0	36.1	37.4	37.8	35.6	36.9	36.0	37.3	37.7
4H	2H	36.2	37.8	36.6	38.2	38.5	36.2	37.8	36.6	38.2	38.5
	3H	37.9	39.2	38.3	39.6	40.0	37.8	39.1	38.2	39.5	39.9
	4H	38.0	39.2	38.4	39.6	40.0	37.8	39.0	38.3	39.4	39.9
	6H	38.0	39.0	38.4	39.4	39.9	37.8	38.9	38.3	39.3	39.8
	8H	37.9	38.9	38.4	39.4	39.8	37.8	38.8	38.3	39.2	39.7
	12H	38.0	38.8	38.4	39.3	39.8	37.8	38.7	38.3	39.2	39.6
8H	4H	38.2	39.2	38.7	39.6	40.1	38.1	39.1	38.6	39.5	40.0
	6H	38.2	39.0	38.7	39.5	40.0	38.1	38.9	38.6	39.4	39.9
	8H	38.2	38.9	38.7	39.4	39.9	38.1	38.8	38.6	39.3	39.8
	12H	38.2	38.8	38.7	39.3	39.8	38.1	38.7	38.6	39.2	39.7
12H	4H	38.2	39.1	38.7	39.6	40.0	38.1	39.0	38.6	39.5	39.9
	6H	38.2	38.9	38.7	39.4	39.9	38.1	38.8	38.6	39.3	39.8
	8H	38.2	38.8	38.7	39.3	39.8	38.1	38.7	38.6	39.2	39.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 20	B = 20
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C-planes	γ	10°	20°	30°	40°	50°	60°	70°	80°	90°	
		170° 190° 350°	160° 200° 340°	150° 210° 330°	140° 220° 320°	130° 230° 310°	120° 240° 300°	110° 250° 290°	100° 260° 280°	270°	
	45°	242758.2	244104.6	240665.2	239047.3	241411.9	241264.8	239703.5	239375.4	241332.7	243437.1
	50°	278997.3	279358.2	279694.3	286900.4	296657.9	298163.8	289090.8	282755.9	279457.8	279184.0
	55°	326973.0	331519.9	341339.0	354170.8	367602.3	371228.6	360740.1	344602.7	333612.0	331547.8
	60°	390288.0	403408.0	429632.0	453440.0	473952.0	475440.0	456480.0	428016.0	401168.0	391296.0
	65°	424250.5	458437.4	536332.7	601772.4	649740.0	648263.5	598005.4	531429.9	445300.2	410924.0
	70°	127454.5	141465.4	264545.8	542775.0	698789.3	690111.4	522285.0	214466.9	128086.0	117069.1
	75°	81941.4	91121.6	125802.2	164748.3	200139.8	196121.6	160699.1	122154.8	89297.9	80241.4
	80°	34460.5	38007.9	48465.8	63853.2	81406.0	79839.6	62010.4	46346.6	35658.3	31419.9
	85°	5140.2	5140.2	5415.6	5691.0	5874.5	5874.5	5599.2	5323.8	5140.2	5140.2

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

