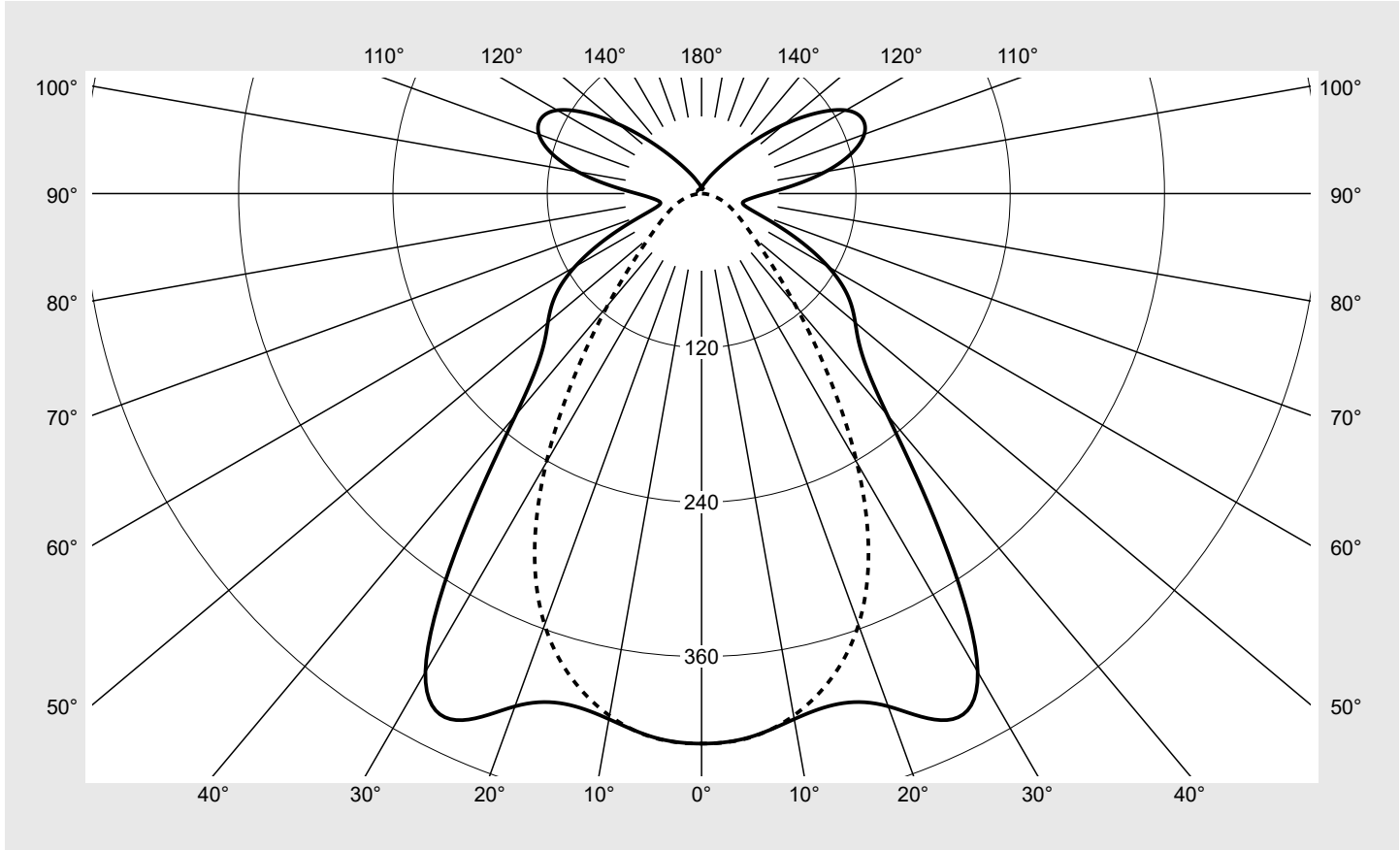


Photometric test report

Family Licross® 21 Performance	Order number: 52TM167N445G EAN: 4058352903360	LP number 58520_394
	Version cover frosted, direct-/ indirect distribution, UGR≤19 (L65≤3000cd/m²) Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Rated values Net luminous flux = 4580 lm Power consumption = 24.7 W Luminous efficacy = 185.4 lm/W	serial documentation 27.02.2024



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 452 cd/klm**



Classifications	
DIN 5040	B 5 1
CIE	N1=65 N2=88 N3=96 N4=79 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	79.3%
ϕ_o	20.7%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Licross® 21 Performance	Order number: 52TM167N445G EAN: 4058352903360	LP number 58520_394
Table of values for luminous intensities		Maximum luminous intensity



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°	427.7	427.7	427.7	427.7	427.7	427.7	427.7	2.6	2.6
5°	424.4	422.4	420.2	422.1	424.3	424.4	424.8	20.2	22.8
10°	414.9	412.5	408.9	409.5	411.2	411.6	412.2	39.1	61.9
15°	410.8	406.7	398.1	393.2	390.9	389.7	390.1	56.3	118.2
20°	424.3	415.5	394.5	375.8	364.0	357.7	356.8	71.8	190.0
25°	451.7	439.9	403.9	360.3	329.2	311.6	307.2	85.9	275.8
30°	429.5	430.9	412.5	347.4	284.5	251.0	241.5	94.2	370.0
35°	325.6	344.5	379.3	329.0	231.5	183.8	171.0	89.9	460.0
40°	224.9	238.5	293.1	289.7	177.2	125.7	113.8	76.0	535.9
45°	176.4	174.8	199.5	224.7	128.0	84.3	75.7	60.6	596.5
50°	156.0	144.3	136.6	154.2	90.2	58.9	53.2	48.2	644.7
55°	139.0	122.9	98.4	99.7	63.9	43.4	39.8	38.7	683.4
60°	113.7	99.1	72.2	64.7	46.3	33.0	30.8	30.7	714.1
65°	79.7	70.2	51.6	43.8	34.5	25.6	24.0	23.0	737.1
70°	47.7	43.4	35.6	31.1	26.2	19.7	18.2	16.2	753.3
75°	33.9	31.2	26.1	23.2	19.9	14.4	12.7	12.2	765.5
80°	33.7	30.7	23.7	18.2	15.1	9.9	7.5	10.6	776.1
85°	39.3	35.6	26.3	17.2	11.4	6.2	3.2	10.7	786.9
90°	50.4	45.6	32.3	18.9	10.0	3.9	0.6	12.4	799.3
95°	71.3	63.5	42.3	22.5	11.4	4.6	1.0	16.4	815.7
100°	97.9	84.6	52.5	26.5	12.9	5.3	1.6	20.8	836.6
105°	120.7	101.7	62.6	30.2	14.2	6.1	2.4	24.4	860.9
110°	134.6	112.6	69.4	33.2	15.3	6.7	2.9	26.3	887.2
115°	137.8	115.5	72.0	34.6	16.0	7.2	3.2	26.1	913.3
120°	129.6	108.9	68.7	33.6	15.7	7.4	3.5	23.8	937.1
125°	109.1	92.2	59.5	30.3	14.7	7.4	3.7	19.5	956.6
130°	83.4	71.0	47.4	25.5	13.2	7.2	3.7	14.5	971.2
135°	58.6	50.3	35.1	20.5	11.4	6.8	3.7	10.0	981.2
140°	39.2	34.3	25.3	16.3	9.8	6.3	3.7	6.7	987.9
145°	26.6	23.8	18.6	13.0	8.2	5.4	3.7	4.4	992.3
150°	18.7	17.2	14.2	10.0	6.9	5.0	3.7	2.9	995.2
155°	13.8	12.8	10.8	7.8	6.8	4.4	3.6	2.0	997.2
160°	10.2	9.8	7.9	6.8	5.6	4.6	3.5	1.3	998.5
165°	8.2	7.8	6.5	5.6	5.0	4.1	3.7	0.8	999.3
170°	6.4	5.6	4.7	4.7	5.0	4.1	3.9	0.5	999.8
175°	4.2	3.7	4.1	4.1	4.1	4.2	4.2	0.2	1000.0
180°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	0.0	1000.0

Photometric test report

Family Licross® 21 Performance	Order number: 52TM167N445G EAN: 4058352903360	LP number 58520_394
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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	16.3	17.6	16.9	18.1	18.8	12.5	13.8	13.1	14.4	15.0
	3H	16.9	18.0	17.5	18.6	19.3	12.9	14.1	13.5	14.7	15.3
	4H	17.1	18.1	17.7	18.7	19.4	13.1	14.2	13.7	14.8	15.5
	6H	17.3	18.2	18.0	18.9	19.6	13.3	14.3	13.9	14.9	15.6
	8H	17.6	18.4	18.2	19.0	19.8	13.3	14.2	13.9	14.8	15.6
	12H	17.9	18.6	18.6	19.3	20.1	13.3	14.1	13.9	14.8	15.6
4H	2H	16.3	17.4	16.9	18.0	18.7	13.0	14.0	13.6	14.6	15.4
	3H	17.0	17.9	17.6	18.5	19.3	13.6	14.4	14.2	15.1	15.8
	4H	17.2	18.0	17.9	18.7	19.5	13.9	14.6	14.5	15.3	16.1
	6H	17.7	18.3	18.4	19.0	19.8	14.1	14.7	14.8	15.4	16.3
	8H	18.0	18.6	18.7	19.3	20.2	14.1	14.8	14.8	15.5	16.3
	12H	18.5	19.0	19.3	19.8	20.6	14.2	14.7	14.9	15.4	16.3
8H	4H	17.2	17.8	17.9	18.5	19.4	14.0	14.6	14.7	15.3	16.2
	6H	17.7	18.2	18.5	19.0	19.9	14.4	14.9	15.1	15.6	16.5
	8H	18.2	18.7	19.0	19.4	20.3	14.6	15.0	15.3	15.8	16.6
	12H	19.0	19.3	19.8	20.1	21.0	14.7	15.0	15.4	15.8	16.7
12H	4H	17.1	17.7	17.9	18.4	19.3	14.0	14.5	14.8	15.3	16.2
	6H	17.7	18.2	18.5	18.9	19.8	14.5	14.9	15.3	15.7	16.6
	8H	18.3	18.6	19.0	19.4	20.3	14.7	15.1	15.5	15.9	16.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1480	H(C0) = 38	H(C180) = 38
			B = 115	H(C90) = 0	H(C270) = 0

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°		5046.3	5042.6	5903.2	6931.7	4182.1	2955.8	2879.2	
50°		4685.6	4375.0	4262.8	5049.7	3155.8	2238.9	2225.9	
55°		4430.4	3961.5	3277.7	3508.1	2425.3	1814.4	1866.2	
60°		3891.4	3435.7	2597.0	2479.2	1939.3	1549.2	1657.5	
65°		2971.8	2651.7	2034.8	1858.0	1624.2	1378.9	1530.3	
70°		1966.4	1818.9	1568.2	1492.3	1415.2	1254.2	1434.5	
75°		1580.5	1479.2	1312.7	1288.6	1281.7	1137.6	1321.6	
80°		1818.8	1694.5	1400.2	1211.5	1210.0	1035.1	1163.3	
85°		2538.3	2367.9	1900.5	1447.1	1215.6	969.7	990.5	

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

