

Lichttechnischer Prüfbefund

Familie
Licross® 21 Opal



Bestell-Nr.: 52TE1DCN4CXM
EAN: 4058352056714

Ausführung

Bestückung

Betriebsgerät

Bemessungswerte

Abdeckung, opal, direkt-/ indirekt strahlend, diffus

LED 4000 K | CRI ≥ 80

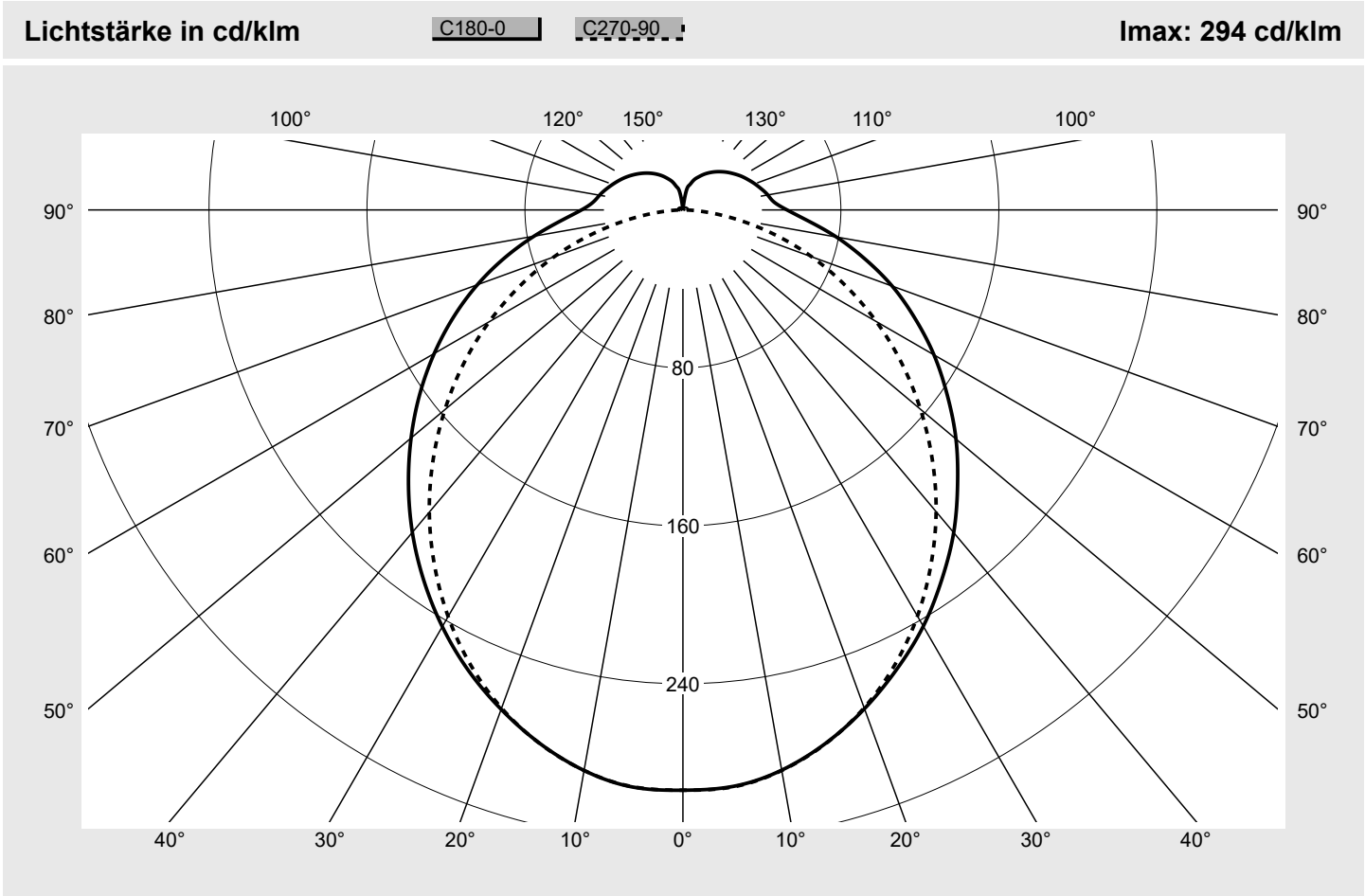
EVG-Multilumen CLOi

Nettolichtstrom = 12300 lm
Systemleistung = 68.4 W
Lichtausbeute = 179.8 lm/W

LP-Nummer
59520_106

Seriendokumentation
29.01.2024

siteco



Klassifizierungen		Leuchtenbetriebswirkungsgrade	
DIN 5040	B 3 1	η_{LB}	100,0%
CIE	N1=44 N2=73 N3=91	ϕ_u	87,4%
	N4=87 N5=100	ϕ_o	12,6%

Messbedingungen
DIN EN 13032 und DIN 5032

Lichttechnischer Prüfbefund

Familie Licross® 21 Opal	Bestell-Nr.: 52TE1DCN4CXM EAN: 4058352056714	LP-Nummer 59520_106
-----------------------------	---	------------------------

Wertetabelle Lichtstärkemessung	Maximale Lichtstärke	siteco
---------------------------------	----------------------	--------

C- Ebenen	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
γ	Lichtstärke in cd/klm												
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9
5°	293.1	292.7	289.9	291.0	293.1	293.0	293.3	293.1	293.1	292.5	291.2	291.6	293.4
10°	288.1	287.8	285.0	286.0	288.1	287.9	288.3	288.0	288.0	287.5	286.2	286.7	288.3
15°	279.6	279.4	276.6	277.6	279.6	279.4	279.8	279.5	279.5	279.0	277.7	278.4	279.8
20°	268.8	268.4	265.5	266.2	268.1	267.8	268.3	268.1	268.0	267.5	266.6	267.8	269.2
25°	256.5	256.4	252.9	252.4	253.9	253.4	254.1	253.8	253.8	253.6	254.0	255.9	257.2
30°	243.5	242.9	239.1	237.4	237.4	236.9	237.6	237.4	237.5	238.5	240.0	242.5	243.7
35°	228.6	228.2	223.9	221.1	219.2	218.5	219.1	218.9	219.7	221.9	224.6	227.5	228.9
40°	213.3	212.5	208.1	204.0	200.4	198.8	199.5	199.5	201.1	204.3	208.6	211.7	213.2
45°	196.7	195.9	191.2	185.9	180.8	177.8	178.6	178.3	181.6	186.0	191.4	194.8	196.6
50°	180.5	179.0	174.4	167.8	161.5	156.5	157.0	156.9	161.7	167.6	173.9	177.7	179.7
55°	163.4	162.0	157.2	149.2	141.7	135.1	135.2	135.5	141.8	149.1	156.1	160.5	162.7
60°	146.8	144.8	139.8	131.0	122.1	114.1	113.1	114.2	121.9	130.6	138.3	143.3	145.4
65°	129.6	127.7	122.3	112.9	103.0	93.4	91.0	93.7	102.6	112.1	120.5	126.2	128.1
70°	112.8	110.6	104.4	95.0	83.9	73.2	69.4	73.2	83.4	93.6	102.3	109.1	110.8
75°	95.2	93.5	86.3	76.8	64.8	53.0	48.0	53.1	64.1	74.9	84.3	91.4	93.3
80°	78.9	76.8	69.4	59.0	47.0	34.5	28.0	34.2	45.8	57.3	67.7	74.1	76.6
85°	63.7	61.7	54.7	44.0	31.4	18.8	11.3	18.6	30.6	42.7	52.6	59.2	61.9
90°	52.7	50.3	47.2	33.6	21.8	9.7	1.7	9.7	21.3	32.8	42.6	49.1	51.4
95°	46.3	44.0	38.4	29.9	19.4	8.9	1.8	8.9	19.3	29.6	38.3	43.8	45.6
100°	43.6	41.6	36.5	28.4	19.0	9.0	2.1	8.7	18.6	27.9	35.8	41.3	42.9
105°	41.1	39.4	34.3	27.0	18.2	9.1	2.1	8.8	17.9	26.7	33.7	38.6	40.4
110°	38.7	36.7	32.3	25.7	17.6	9.2	2.0	8.7	17.0	25.1	31.7	36.0	37.9
115°	36.4	34.4	30.4	24.3	17.0	9.3	1.9	8.8	16.4	23.6	29.8	33.7	35.5
120°	34.1	32.2	28.7	23.1	16.5	9.4	1.8	8.8	15.7	22.3	27.9	31.4	33.2
125°	31.8	30.1	26.8	21.8	15.8	9.4	1.6	8.8	15.0	21.0	26.0	29.2	30.9
130°	29.6	27.9	25.1	20.7	15.3	9.5	1.4	8.7	14.3	19.7	24.1	27.1	28.6
135°	27.4	25.8	23.3	19.5	14.6	8.1	1.3	7.6	13.7	18.5	22.3	24.9	26.4
140°	25.2	23.7	21.6	18.3	13.6	7.0	1.3	6.4	12.7	17.1	20.5	22.8	24.2
145°	23.0	21.6	19.8	16.6	12.1	6.4	1.2	5.9	11.1	15.6	18.8	20.7	21.9
150°	20.7	19.6	18.1	14.3	11.0	6.2	1.3	6.0	9.5	13.3	16.9	18.6	19.6
155°	18.4	17.4	15.6	12.5	8.2	5.5	1.3	5.2	7.5	11.1	14.5	16.4	17.3
160°	16.1	15.3	12.6	10.0	7.9	5.1	1.4	4.6	6.8	7.9	11.7	14.3	14.9
165°	13.1	12.1	8.6	7.8	8.1	5.4	1.4	4.8	6.9	7.0	6.9	11.2	12.1
170°	9.8	7.7	7.3	8.0	6.5	2.9	1.4	2.2	5.4	6.7	6.3	6.6	8.9
175°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0

Lichttechnischer Prüfbefund

Familie Licross® 21 Opal				Bestell-Nr.: 52TE1DCN4CXM EAN: 4058352056714								LP-Nummer 59520_106	
Wertetabelle Lichtstärkemessung												siteco	
C- Ebenen	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-Zone	Summe Phi-Zone
γ	Lichtstärke in cd/klm											Lichtstrom in lm/klm	
0°	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	293.9	1.8	1.8
5°	292.9	289.8	290.9	292.8	292.8	293.2	292.8	292.9	292.3	291.2	292.0	14.0	15.7
10°	288.0	285.0	285.8	287.9	287.8	288.3	287.9	288.0	287.3	286.3	287.0	27.3	43.1
15°	279.5	276.7	277.5	279.4	279.4	279.9	279.5	279.5	278.9	277.9	279.0	39.6	82.6
20°	268.9	265.7	266.2	268.0	267.9	268.5	268.2	268.1	267.5	266.6	267.7	50.2	132.8
25°	256.9	253.4	252.5	253.8	253.6	254.3	254.0	254.0	253.5	253.8	256.1	58.9	191.7
30°	243.4	239.6	237.7	237.4	237.1	237.8	237.6	237.8	238.3	239.7	242.3	65.6	257.3
35°	228.5	224.4	221.4	219.4	218.7	219.4	219.3	219.8	221.8	224.6	228.0	70.0	327.3
40°	212.7	208.2	204.2	200.7	198.9	199.8	199.8	201.1	204.3	208.6	211.9	72.3	399.6
45°	195.8	191.1	185.9	181.0	177.8	178.9	178.7	181.7	186.2	191.6	195.6	72.3	472.0
50°	178.6	174.0	167.6	161.4	156.5	157.3	157.3	162.0	168.0	174.3	178.3	70.5	542.5
55°	161.2	156.5	148.8	141.5	135.3	135.5	135.8	142.2	149.7	156.9	161.8	66.9	609.4
60°	143.7	138.7	130.1	121.6	114.2	113.3	114.6	122.5	131.3	139.3	144.4	61.7	671.1
65°	126.5	121.0	111.8	102.3	93.3	91.1	94.0	103.2	113.1	121.8	128.0	55.2	726.3
70°	109.1	102.8	93.5	83.0	72.9	69.4	73.6	84.1	94.6	103.5	110.4	47.6	773.9
75°	91.6	84.7	75.4	63.7	52.5	47.9	53.5	65.0	76.2	85.9	93.4	39.0	812.9
80°	74.9	67.7	57.5	45.8	33.9	27.9	34.5	46.6	58.5	69.1	75.6	30.2	843.1
85°	59.9	53.1	42.6	30.4	18.3	11.1	18.9	31.3	43.7	53.8	61.1	22.2	865.3
90°	49.1	42.6	32.8	21.3	9.6	1.7	9.7	21.6	33.2	43.3	50.0	16.9	882.1
95°	43.4	38.0	29.6	19.2	8.8	1.8	8.9	19.4	29.7	38.6	44.5	14.9	897.1
100°	41.0	35.9	27.9	18.7	8.8	2.1	8.9	18.7	28.1	36.1	41.8	14.0	911.1
105°	38.7	33.7	26.5	17.8	8.7	2.1	9.0	18.1	27.0	34.2	39.3	13.1	924.2
110°	35.9	31.6	25.0	17.1	8.8	2.0	9.1	17.4	25.5	32.1	36.6	12.0	936.2
115°	33.6	29.7	23.6	16.4	8.7	1.9	9.3	16.9	24.2	30.4	34.4	11.0	947.2
120°	31.4	27.9	22.4	15.7	8.8	1.8	9.3	16.2	22.9	28.6	32.2	9.9	957.1
125°	29.2	26.0	21.1	15.0	8.7	1.6	9.4	15.7	21.7	26.8	30.1	8.9	966.0
130°	27.0	24.2	19.8	14.4	8.7	1.4	9.4	15.1	20.5	24.9	27.8	7.8	973.7
135°	24.9	22.4	18.6	13.7	7.3	1.3	8.2	14.6	19.3	23.2	25.8	6.7	980.4
140°	22.7	20.6	17.3	12.7	6.4	1.3	7.0	13.5	18.0	21.5	23.6	5.6	986.0
145°	20.6	18.9	15.7	11.3	5.8	1.2	6.5	12.0	15.8	19.8	21.6	4.5	990.5
150°	18.5	17.0	13.4	10.2	6.1	1.3	6.3	10.3	14.2	17.9	19.5	3.5	994.0
155°	16.4	14.6	11.8	7.5	4.9	1.3	5.8	8.1	12.0	15.5	17.4	2.6	996.6
160°	14.2	11.8	9.1	7.1	4.6	1.4	5.2	7.3	8.7	12.7	15.3	1.8	998.3
165°	11.1	8.0	7.1	7.6	4.8	1.4	5.5	7.3	7.6	7.6	12.0	1.1	999.4
170°	6.9	7.3	7.0	5.8	2.1	1.4	3.1	6.1	7.5	6.2	7.2	0.6	1000.0
175°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	1000.0

Lichttechnischer Prüfbefund

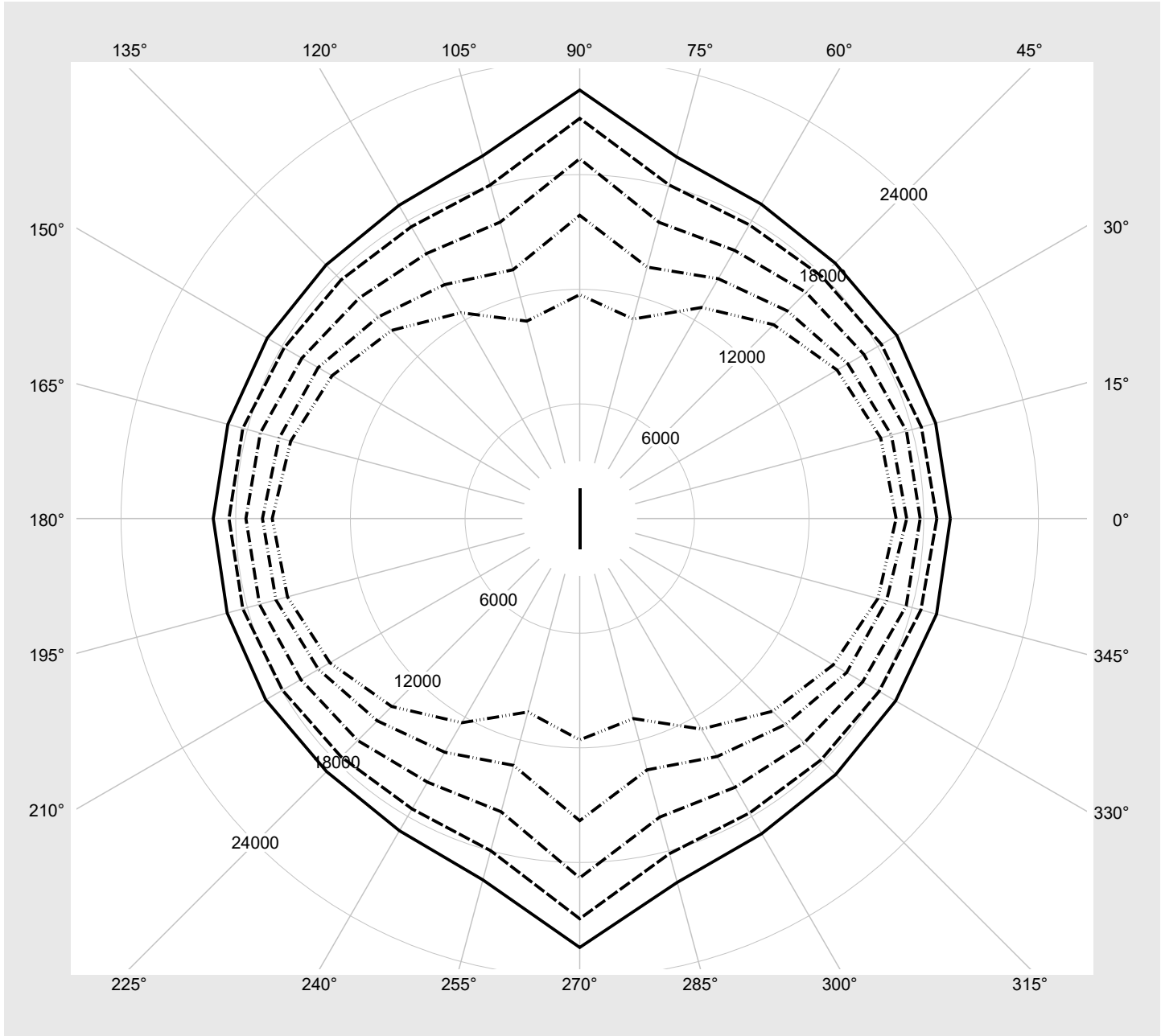
Familie Licross® 21 Opal			Bestell-Nr.: 52TE1DCN4CXM EAN: 4058352056714						LP-Nummer 59520_106		
UGR-Tabelle			Standardraum						siteco		
Reflexionsgrad Decke		0,7	0,7	0,5	0,5	0,3	0,7	0,7	0,5	0,5	0,3
Reflexionsgrad Wände		0,5	0,3	0,5	0,3	0,3	0,5	0,3	0,5	0,3	0,3
Reflexionsgrad Boden		0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	22,5	24,0	23,0	24,5	25,0	22,1	23,7	22,6	24,1	24,6
	3H	24,4	25,8	24,9	26,3	26,8	23,7	25,1	24,2	25,6	26,1
	4H	25,2	26,5	25,7	27,0	27,6	24,2	25,5	24,7	26,0	26,6
	6H	26,0	27,2	26,5	27,7	28,3	24,6	25,8	25,1	26,3	26,9
	8H	26,4	27,5	26,9	28,1	28,7	24,7	25,9	25,3	26,4	27,0
	12H	26,7	27,7	27,3	28,3	29,0	24,7	25,8	25,3	26,4	27,0
4H	2H	23,2	24,5	23,7	25,0	25,5	22,8	24,1	23,4	24,7	25,2
	3H	25,2	26,3	25,8	26,9	27,5	24,5	25,6	25,1	26,2	26,8
	4H	26,2	27,2	26,8	27,8	28,5	25,2	26,2	25,8	26,8	27,5
	6H	27,2	28,0	27,8	28,6	29,3	25,7	26,6	26,3	27,2	27,9
	8H	27,6	28,4	28,3	29,1	29,8	25,9	26,7	26,5	27,3	28,0
	12H	28,0	28,7	28,7	29,4	30,1	26,0	26,7	26,6	27,3	28,0
8H	4H	26,5	27,4	27,1	28,0	28,6	25,6	26,4	26,2	27,1	27,8
	6H	27,7	28,4	28,3	29,0	29,7	26,3	27,0	27,0	27,6	28,4
	8H	28,3	28,9	28,9	29,5	30,3	26,6	27,2	27,2	27,8	28,6
	12H	28,8	29,3	29,5	30,0	30,8	26,7	27,2	27,4	27,9	28,7
12H	4H	26,5	27,3	27,1	27,9	28,6	25,7	26,4	26,3	27,0	27,8
	6H	27,7	28,3	28,4	29,0	29,7	26,4	27,0	27,1	27,7	28,4
	8H	28,4	28,9	29,0	29,6	30,3	26,7	27,3	27,4	27,9	28,7

Leuchtdichten-Tabelle		Max. für $\gamma \geq 65^\circ$		Lichttechnische Abmessungen in mm:		L = 1500 B = 76		H(C0) = 25 H(C90) = 25		H(C180) = 25 H(C270) = 25		
C- Ebenen	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
γ	Leuchtdichte in cd/m²											
45°	22587.1	22561.3	23406.4	26801.1	23500.8	22580.4	22568.5	22551.7	23427.4	26849.7	23511.3	22609.1
50°	21767.4	21688.4	22341.2	25843.4	22374.9	21628.0	21669.7	21638.0	22330.0	25896.7	22408.6	21678.3
55°	20915.4	20840.6	21231.7	24845.8	21243.8	20700.9	20822.1	20743.9	21207.4	24890.4	21304.5	20808.3
60°	20181.8	20001.7	20115.0	23722.5	20088.3	19792.9	19992.5	19850.8	20034.9	23756.5	20181.7	19932.0
65°	19394.2	19163.8	19000.7	22427.7	18925.9	18884.3	19175.8	18973.2	18866.2	22447.7	19045.5	19087.6
70°	18688.6	18232.7	17753.2	20945.4	17633.3	17864.6	18353.0	17963.7	17547.6	20945.4	17787.4	18091.2
75°	17815.5	17176.1	16208.6	18834.2	16020.3	16789.0	17466.9	16853.5	15931.1	18805.6	16243.1	17095.5
80°	17111.4	16201.8	14495.8	15873.0	14138.3	15804.9	16601.9	15786.0	14123.5	15812.8	14380.7	16126.2
85°	16556.5	15549.9	12758.0	11719.2	12441.6	14962.2	16090.9	15095.9	12339.6	11585.1	12725.0	15316.9

Lichttechnischer Prüfbefund

Familie Licross® 21 Opal	Bestell-Nr.: 52TE1DCN4CXM EAN: 4058352056714	LP-Nummer 59520_106
Leuchtdichten in cd/m²		
γ 65° γ 70° γ 75° γ 80° γ 85°		

siteco



Lichttechnischer Prüfbefund

Familie Licross® 21 Opal	Bestell-Nr.: 52TE1DCN4CXM EAN: 4058352056714	LP-Nummer 59520_106
Multilumen-Tabelle	Umgebungstemperatur: 25°C	siteco

DIP-Stufe	Schalterstellung			Lichtstrom [lm]	Systemleistung [W]	Systemleistung [W] Lebensdauerende	Systemleistung [W] Durchschnitt
1	A	C	E	12300	68.4	83.1	75.8
2	A	C	F	11800	65.4	79.7	72.6
3	A	D	E	10800	59.4	71.9	65.6
4	A	D	F	9850	53.9	64.9	59.4
5	B	C	E	8820	47.9	57.7	52.8
6	B	C	F	7840	42.4	50.9	46.6
7	B	D	E	6860	37.1	44.2	40.7
8	B	D	F	5850	31.6	37.5	34.6