

Photometric test report

Family
Licross® 11 Recessed

Order number: 51TE1DDV4M1M
EAN: 4058352055137

LP number
59520_115

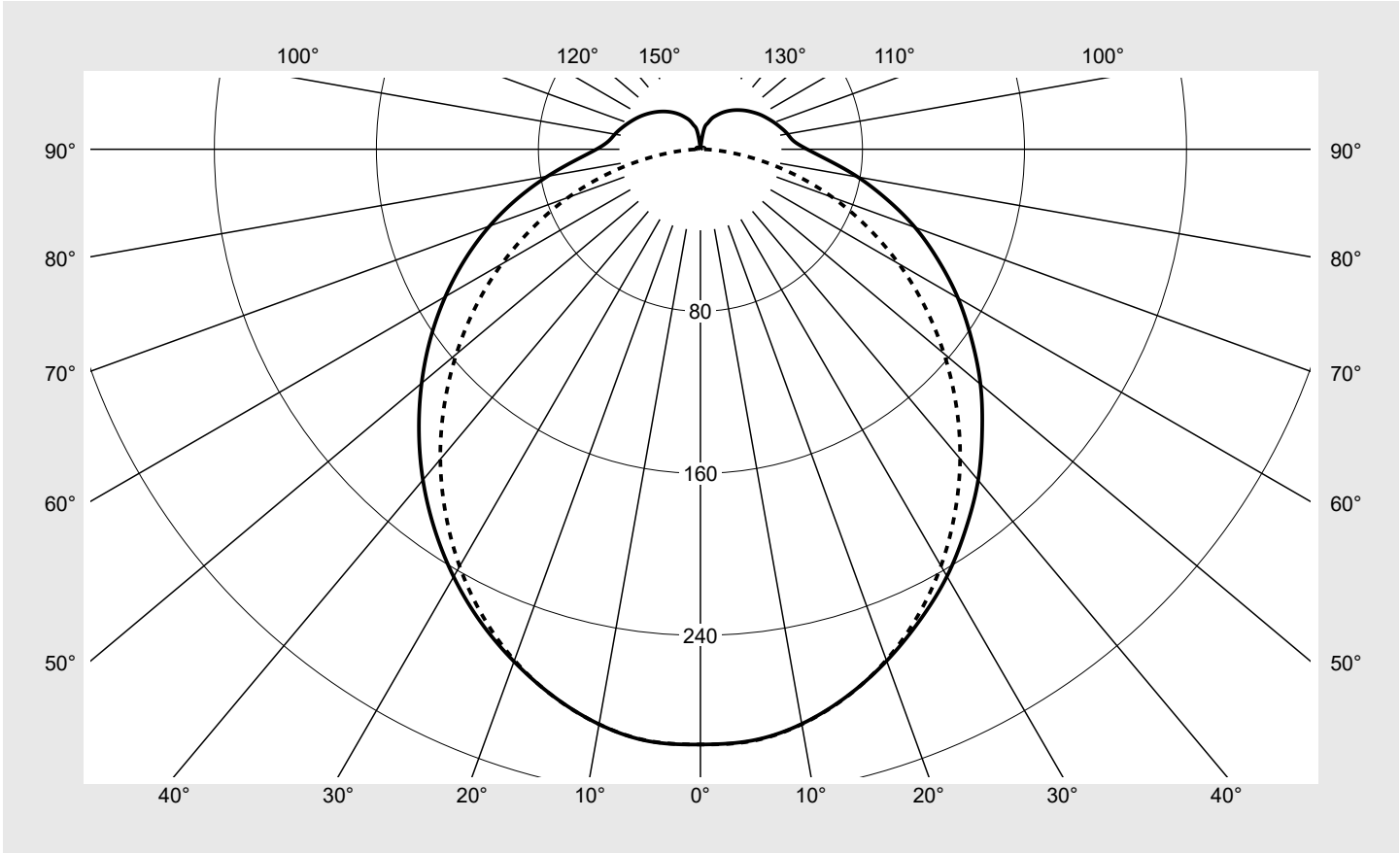


Version cover, opal, direct-/ indirect distribution, diffuse
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 26350 lm
 Power consumption = 150.5 W
 Luminous efficacy = 175.1 lm/W

serial documentation
18.01.2024



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 294 cd/klm**



Classifications

DIN 5040	B 3 1
CIE	N1=44 N2=73 N3=91 N4=87 N5=100

Luminaire light output ratios

η_{LB}	100.0%
ϕ_u	87.4%
ϕ_o	12.6%

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°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
γ	Luminous intensity 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

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Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm											Luminous flux 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	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

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UGR-Table	Standard room	siteco
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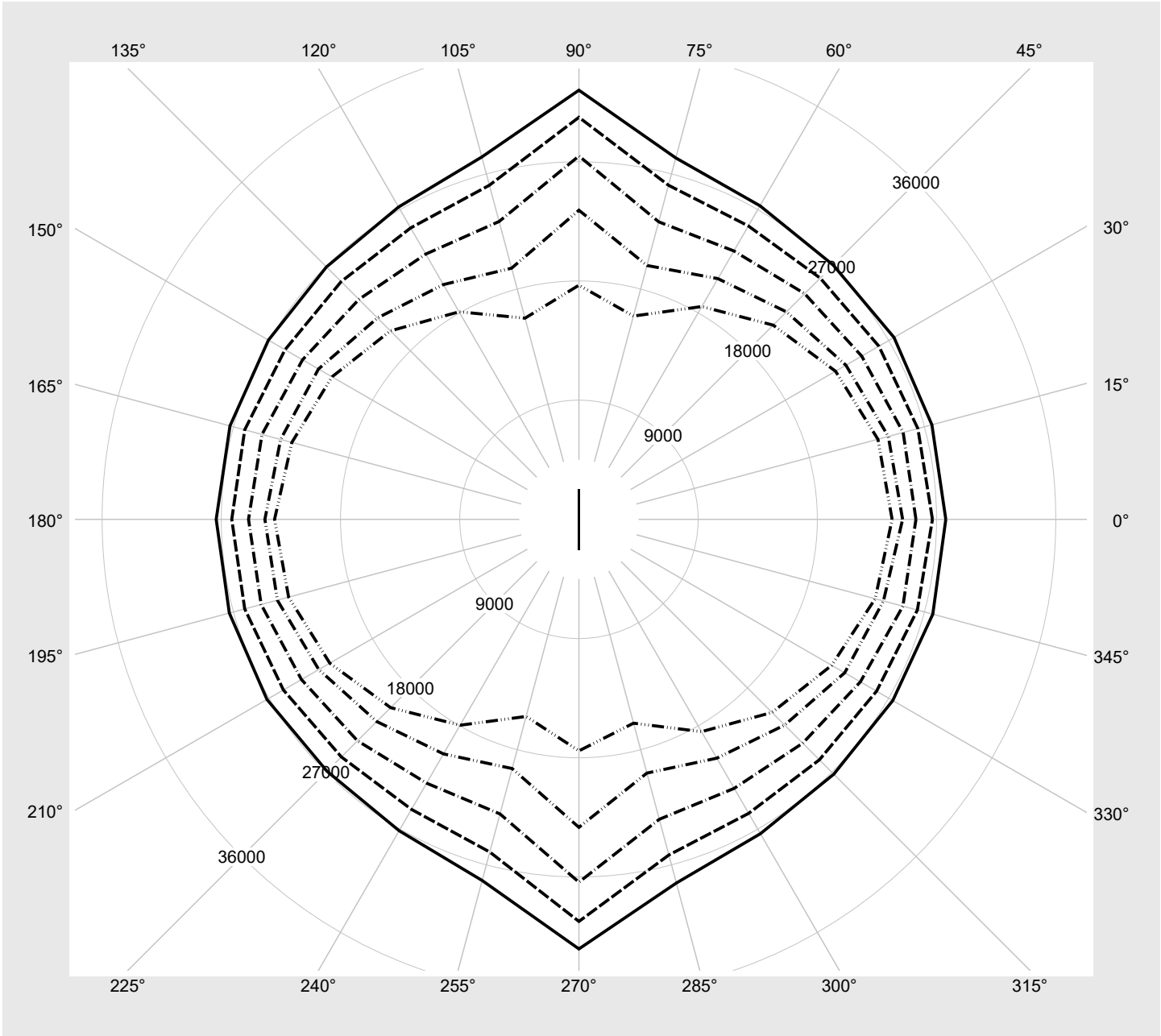
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	23.7	25.3	24.2	25.7	26.2	23.4	25.0	23.9	25.4	25.9
	3H	25.7	27.1	26.2	27.6	28.1	25.0	26.4	25.5	26.9	27.4
	4H	26.5	27.8	27.0	28.3	28.9	25.5	26.8	26.0	27.3	27.9
	6H	27.2	28.4	27.8	29.0	29.6	25.9	27.1	26.4	27.6	28.2
	8H	27.6	28.8	28.2	29.3	29.9	26.0	27.2	26.6	27.7	28.3
	12H	27.9	29.0	28.5	29.6	30.2	26.0	27.1	26.6	27.7	28.3
4H	2H	24.4	25.7	24.9	26.2	26.8	24.1	25.4	24.6	25.9	26.5
	3H	26.5	27.6	27.0	28.1	28.7	25.8	26.9	26.3	27.5	28.1
	4H	27.5	28.5	28.0	29.1	29.7	26.5	27.5	27.1	28.1	28.7
	6H	28.4	29.3	29.0	29.9	30.6	27.0	27.9	27.6	28.5	29.1
	8H	28.9	29.7	29.5	30.3	31.0	27.2	28.0	27.8	28.6	29.3
	12H	29.3	30.0	29.9	30.6	31.4	27.2	28.0	27.9	28.6	29.3
8H	4H	27.8	28.6	28.4	29.2	29.9	26.9	27.7	27.5	28.3	29.0
	6H	28.9	29.6	29.6	30.3	31.0	27.6	28.3	28.2	28.9	29.6
	8H	29.5	30.1	30.2	30.8	31.5	27.8	28.5	28.5	29.1	29.9
	12H	30.1	30.6	30.7	31.2	32.0	28.0	28.5	28.7	29.2	29.9
12H	4H	27.8	28.5	28.4	29.1	29.8	26.9	27.7	27.6	28.3	29.0
	6H	29.0	29.6	29.6	30.2	31.0	27.7	28.3	28.4	29.0	29.7
	8H	29.6	30.1	30.3	30.8	31.6	28.0	28.5	28.7	29.2	30.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:										L = 2250	H(C0) = 25	H(C180) = 25	
												B = 76	H(C90) = 25	H(C270) = 25	
C-planes	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°			
γ	Luminance in cd/m²														
45°	32258.5	32291.0	33565.7	38487.2	33701.0	32318.4	32232.0	32277.3	33595.7	38557.0	33716.0	32359.4			
50°	31087.9	31051.2	32058.8	37150.2	32107.3	30964.7	30948.4	30979.1	32042.8	37226.9	32155.5	31036.8			
55°	29871.0	29847.6	30489.6	35761.5	30507.0	29647.7	29737.8	29709.2	30454.8	35825.8	30594.2	29801.5			
60°	28823.4	28657.5	28911.8	34199.9	28873.4	28358.3	28553.0	28441.4	28796.7	34248.9	29007.7	28557.6			
65°	27698.5	27469.9	27340.3	32403.6	27232.8	27069.3	27386.6	27196.7	27146.8	32432.5	27404.8	27360.7			
70°	26690.7	26150.2	25581.5	30356.9	25408.7	25622.2	26211.5	25764.3	25285.3	30356.9	25630.9	25947.2			
75°	25443.9	24652.7	23400.8	27434.3	23129.0	24097.1	24946.0	24189.6	23000.2	27392.5	23450.6	24537.0			
80°	24438.3	23276.9	20986.9	23341.5	20469.3	22706.7	23710.6	22679.5	20447.9	23253.0	20820.3	23168.3			
85°	23645.7	22371.4	18555.8	17680.2	18095.8	21525.8	22980.8	21718.2	17947.4	17477.9	18507.9	22036.2			

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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	26350	150.5
95	240	252	25009	141.7
90	226	250	23706	133.0
85	212	247	22367	124.4
80	199	245	21105	116.4
75	185	242	19728	107.9
70	172	240	18435	100.2
65	159	237	17127	92.6
60	146	234	15805	85.0
55	133	230	14473	77.5
50	120	227	13128	70.1
45	108	223	11874	63.2
40	95	218	10500	55.8
35	83	213	9215	49.0
30	71	207	7916	42.2
25	59	201	6604	35.3
20	47	192	5282	28.6
15	35	181	3945	21.7
10	23	166	2595	14.6
5	12	142	1349	7.9
2	4	102	432	2.8