

Lichttechnischer Prüfbefund

Familie
Licross® 21 Opal

Bestell-Nr.: 52TE1DDN445G
EAN: 4058352051955

LP-Nummer
59520_89



Ausführung Abdeckung, opal, direkt-/ indirekt strahlend, diffus

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 4500 lm
Systemleistung = 25.8 W
Lichtausbeute = 174.4 lm/W

Seriendokumentation
21.02.2024

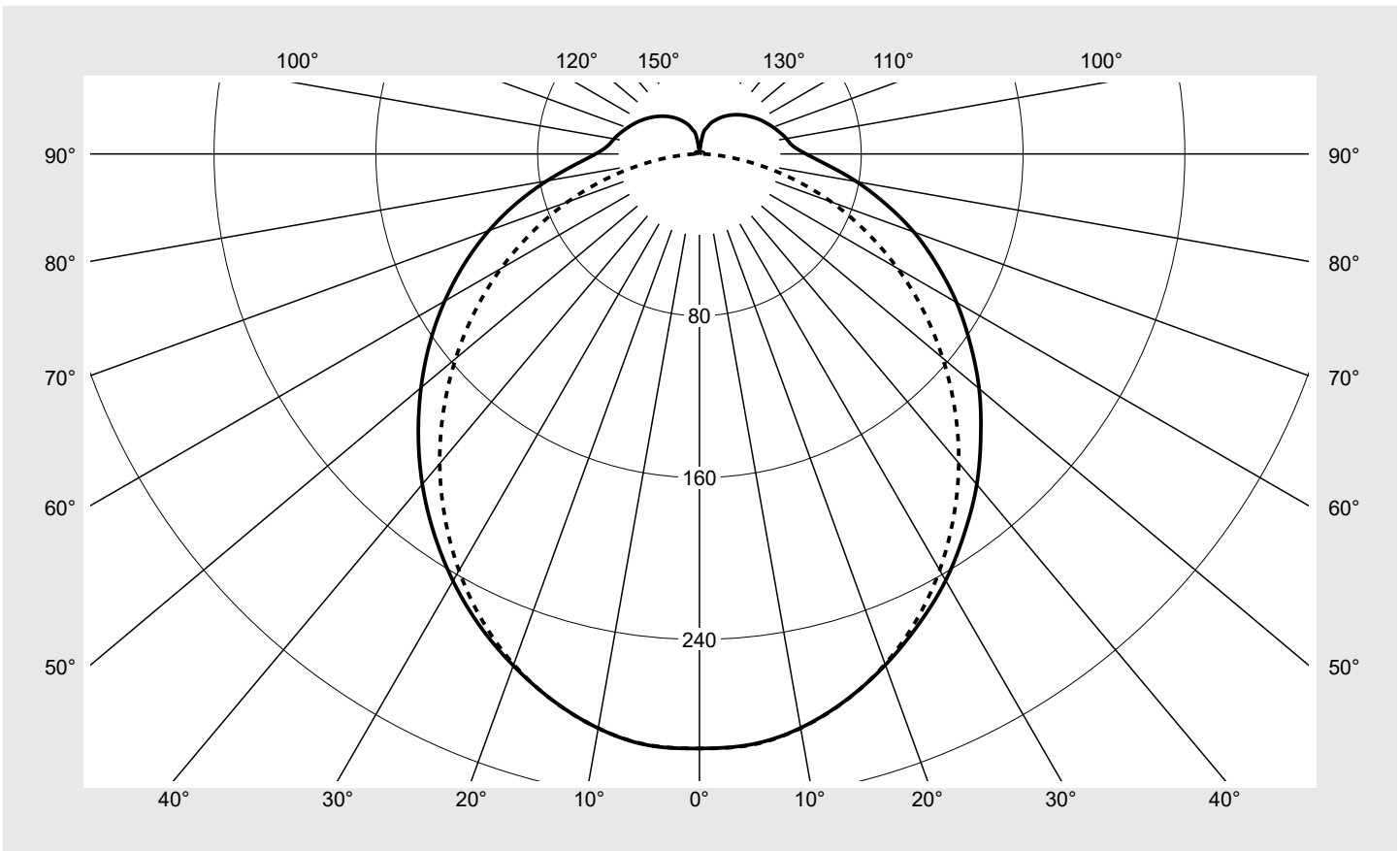
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 294 cd/klm



Klassifizierungen

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

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 87,4%
 ϕ_o 12,6%

Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung	Maximale Lichtstärke	siteco
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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

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Wertetabelle Lichtstärkemessung	Maximale Lichtstärke	siteco
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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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	1000.0

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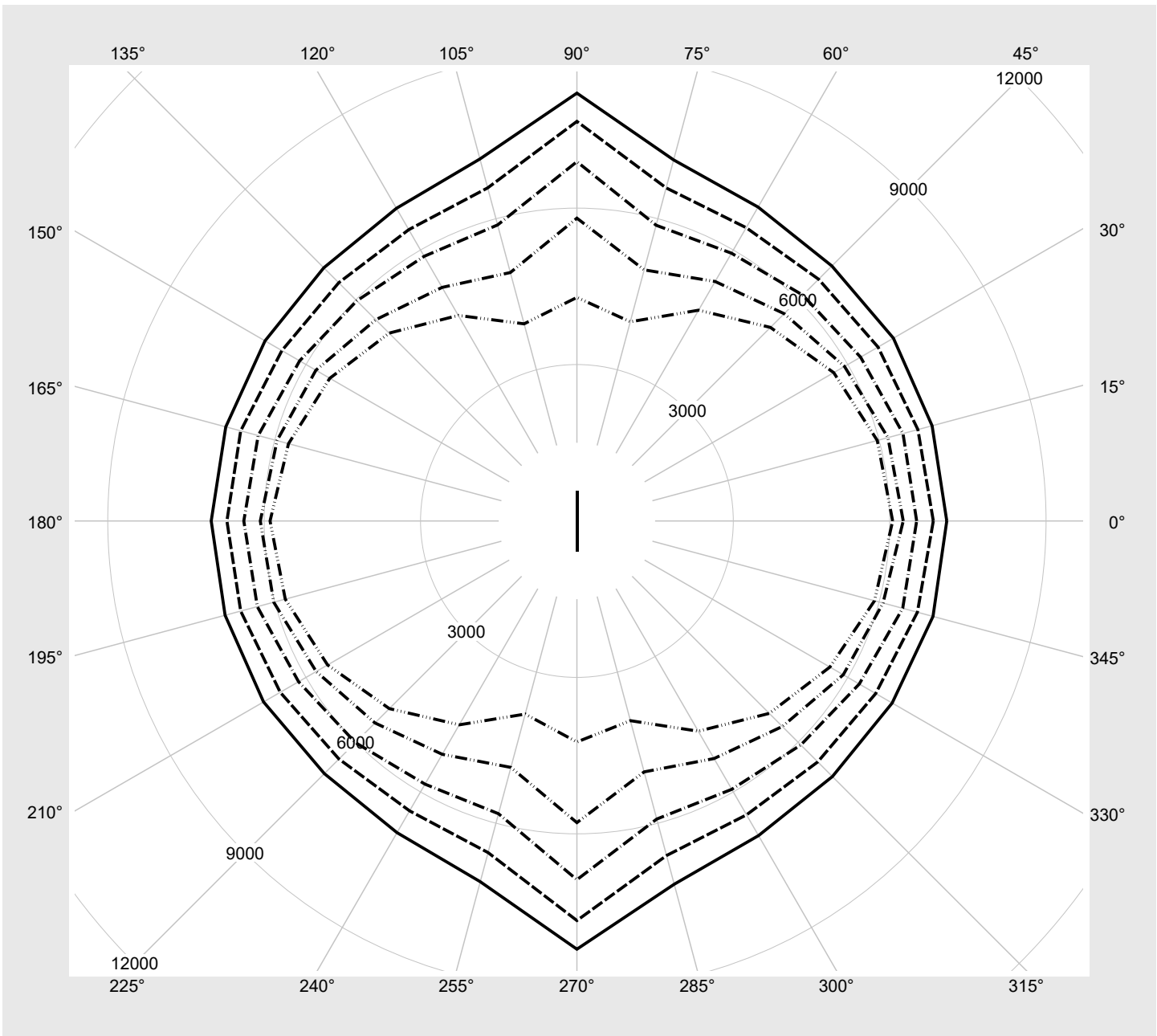
UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	19,0	20,6	19,5	21,0	21,5	18,6	20,2	19,1	20,7	21,2
	3H	20,9	22,4	21,4	22,8	23,3	20,2	21,7	20,7	22,1	22,6
	4H	21,7	23,0	22,2	23,5	24,1	20,7	22,0	21,2	22,6	23,1
	6H	22,5	23,7	23,0	24,2	24,8	21,1	22,3	21,6	22,8	23,4
	8H	22,9	24,0	23,5	24,6	25,2	21,2	22,4	21,8	22,9	23,5
	12H	23,2	24,3	23,8	24,8	25,5	21,3	22,3	21,8	22,9	23,5
4H	2H	19,7	21,0	20,2	21,5	22,1	19,3	20,7	19,9	21,2	21,7
	3H	21,7	22,8	22,3	23,4	24,0	21,0	22,2	21,6	22,7	23,3
	4H	22,7	23,8	23,3	24,3	25,0	21,7	22,8	22,3	23,3	24,0
	6H	23,7	24,5	24,3	25,1	25,8	22,2	23,1	22,8	23,7	24,4
	8H	24,1	25,0	24,8	25,6	26,3	22,4	23,2	23,0	23,8	24,5
	12H	24,5	25,3	25,2	25,9	26,6	22,5	23,2	23,1	23,8	24,6
8H	4H	23,0	23,9	23,6	24,5	25,2	22,1	22,9	22,8	23,6	24,3
	6H	24,2	24,9	24,8	25,5	26,2	22,8	23,5	23,5	24,1	24,9
	8H	24,8	25,4	25,4	26,0	26,8	23,1	23,7	23,7	24,3	25,1
	12H	25,3	25,8	26,0	26,5	27,3	23,2	23,7	23,9	24,4	25,2
12H	4H	23,0	23,8	23,6	24,4	25,1	22,2	22,9	22,8	23,5	24,3
	6H	24,2	24,8	24,9	25,5	26,2	22,9	23,5	23,6	24,2	24,9
	8H	24,9	25,4	25,5	26,1	26,8	23,2	23,8	23,9	24,4	25,2

Leuchtdichten-Tabelle		Max. für $\gamma \geq 65^\circ$											
		Lichttechnische Abmessungen in mm: L = 1500 B = 76 H(C0) = 25 H(C180) = 25 H(C90) = 25 H(C270) = 25											
C-Ebenen	γ	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
		Leuchtdichte in cd/m ²											
45°		8263.6	8254.1	8563.3	9805.3	8597.8	8261.1	8256.8	8250.6	8571.0	9823.1	8601.7	8271.6
50°		7963.7	7934.8	8173.6	9454.9	8186.0	7912.7	7927.9	7916.4	8169.5	9474.4	8198.3	7931.1
55°		7652.0	7624.6	7767.7	9089.9	7772.1	7573.5	7617.8	7589.2	7758.8	9106.3	7794.3	7612.8
60°		7383.6	7317.7	7359.1	8679.0	7349.4	7241.3	7314.3	7262.5	7329.8	8691.4	7383.5	7292.2
65°		7095.4	7011.1	6951.5	8205.3	6924.1	6908.9	7015.5	6941.4	6902.3	8212.6	6967.9	6983.3
70°		6837.3	6670.5	6495.1	7662.9	6451.2	6535.8	6714.5	6572.1	6419.9	7662.9	6507.6	6618.7
75°		6517.9	6284.0	5930.0	6890.6	5861.1	6142.3	6390.3	6165.9	5828.5	6880.1	5942.6	6254.5
80°		6260.3	5927.5	5303.3	5807.2	5172.6	5782.3	6073.9	5775.4	5167.1	5785.2	5261.2	5899.8
85°		6057.2	5689.0	4667.5	4287.5	4551.8	5474.0	5886.9	5522.9	4514.5	4238.4	4655.5	5603.8

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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°



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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	sITeco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	4500	25.8
95	241	252	4275	24.6
90	228	250	4053	23.4
85	215	248	3825	22.2
80	202	246	3600	20.9
75	189	243	3374	19.7
70	176	241	3145	18.4
65	163	238	2918	17.2
60	151	235	2704	16.0
55	138	232	2475	14.7
50	125	228	2242	13.4
45	113	224	2030	12.1
40	100	220	1796	11.4
35	88	215	1582	10.4
30	75	209	1349	9.2
25	63	203	1131	8.0
20	50	194	897	6.7
18	44	190	789	6.2