

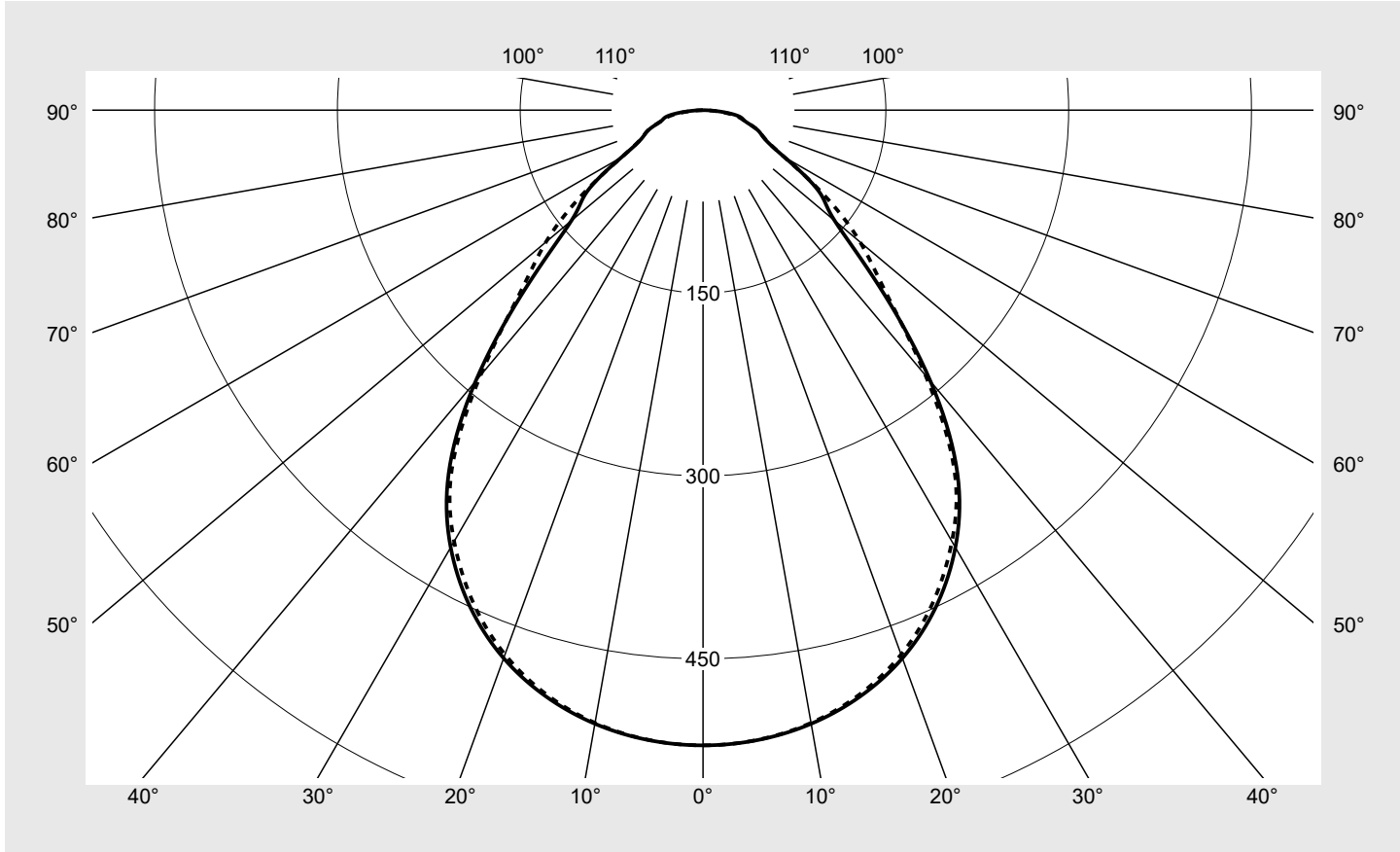


Photometric test report

Family Sport 31	Order number: 51HS12DD4GCA EAN: 4058352501818	LP number 59187_4
	Version CDP microprismatic optics, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI	serial documentation 30.07.2021
	Rated values Net luminous flux = 15290 lm Power consumption = 113.0 W Luminous efficacy = 135.3 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 521 cd/klm**



Classifications	
DIN 5040	A 5 0
CIE	N1=65 N2=89 N3=97 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
		siteco

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°	521.0	521.0	521.0	521.0	521.0	521.0	521.0	3.1	3.1
5°	518.5	518.4	518.3	518.4	518.2	518.1	518.3	24.8	27.9
10°	511.0	510.9	510.6	510.5	510.1	510.0	510.3	48.6	76.5
15°	497.9	497.5	497.3	497.0	496.5	496.2	496.2	70.5	147.0
20°	478.3	478.1	477.4	476.3	475.5	474.9	475.1	89.3	236.3
25°	450.9	450.8	450.2	448.2	446.4	445.5	446.0	103.8	340.1
30°	414.1	414.8	414.4	411.1	407.7	407.5	408.5	112.7	452.8
35°	363.9	366.3	367.3	360.9	355.6	356.6	359.3	113.6	566.4
40°	290.4	294.7	297.0	285.4	277.5	279.3	284.1	101.1	667.5
45°	204.6	218.3	229.0	208.7	190.3	198.4	212.8	81.0	748.5
50°	140.9	171.9	185.1	159.3	127.2	151.6	168.3	66.5	814.9
55°	115.9	135.6	132.9	125.3	102.7	120.0	121.1	55.0	869.9
60°	77.1	78.0	77.1	78.0	77.1	78.0	77.0	36.8	906.8
65°	55.9	56.5	55.9	56.4	55.9	56.2	56.5	27.9	934.7
70°	47.6	46.5	47.6	46.8	47.6	46.8	47.6	24.3	959.0
75°	36.1	35.1	36.1	35.1	36.1	35.1	36.1	18.8	977.8
80°	30.3	26.7	28.2	25.7	27.9	26.3	27.7	14.7	992.5
85°	15.0	15.5	14.5	13.2	12.4	12.6	12.4	7.5	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	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	1000.0

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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	18.1	19.7	18.5	20.0	20.3	17.7	19.2	18.1	19.5	19.8
	3H	18.9	20.2	19.3	20.6	20.9	18.5	19.9	18.9	20.2	20.6
	4H	19.3	20.6	19.7	20.9	21.3	19.0	20.3	19.4	20.6	21.0
	6H	19.9	21.0	20.3	21.4	21.8	19.6	20.7	20.0	21.1	21.5
	8H	20.2	21.2	20.6	21.6	22.0	19.9	20.9	20.3	21.3	21.7
	12H	20.4	21.4	20.8	21.8	22.2	20.0	21.0	20.4	21.4	21.8
4H	2H	18.4	19.7	18.8	20.0	20.4	18.1	19.3	18.5	19.7	20.1
	3H	19.4	20.5	19.8	20.8	21.3	19.2	20.2	19.6	20.6	21.0
	4H	20.0	20.9	20.4	21.3	21.8	19.8	20.7	20.2	21.1	21.6
	6H	20.7	21.5	21.1	21.9	22.4	20.5	21.3	20.9	21.7	22.2
	8H	21.1	21.8	21.5	22.2	22.7	20.8	21.6	21.3	22.0	22.5
	12H	21.4	22.0	21.9	22.5	23.0	21.1	21.7	21.5	22.2	22.7
8H	4H	20.3	21.0	20.7	21.4	21.9	20.1	20.8	20.5	21.3	21.7
	6H	21.2	21.8	21.6	22.2	22.7	21.0	21.6	21.5	22.1	22.6
	8H	21.6	22.2	22.1	22.7	23.2	21.4	21.9	21.9	22.4	22.9
	12H	22.0	22.5	22.6	23.0	23.5	21.7	22.2	22.2	22.7	23.2
12H	4H	20.3	21.0	20.8	21.4	21.9	20.2	20.8	20.6	21.3	21.8
	6H	21.3	21.8	21.8	22.3	22.8	21.1	21.6	21.6	22.1	22.6
	8H	21.8	22.2	22.3	22.7	23.3	21.6	22.0	22.1	22.5	23.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1470
			B = 345

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°		8723.9	9306.0	9763.5	8897.3	8114.8	8459.5	9072.8		
50°		6609.5	8062.3	8683.9	7473.5	5966.2	7108.5	7891.7		
55°		6093.8	7128.5	6987.9	6588.2	5399.3	6305.5	6366.0		
60°		4648.1	4704.9	4650.5	4704.9	4651.7	4704.9	4643.2		
65°		3989.1	4027.7	3989.1	4021.3	3989.1	4006.9	4028.4		
70°		4197.1	4102.6	4197.1	4122.0	4197.1	4123.8	4197.1		
75°		4206.7	4087.6	4206.7	4087.6	4206.7	4087.6	4206.7		
80°		5266.4	4635.1	4895.9	4454.2	4840.4	4565.5	4814.3		
85°		5177.0	5367.6	5024.5	4570.6	4286.6	4366.2	4300.5		

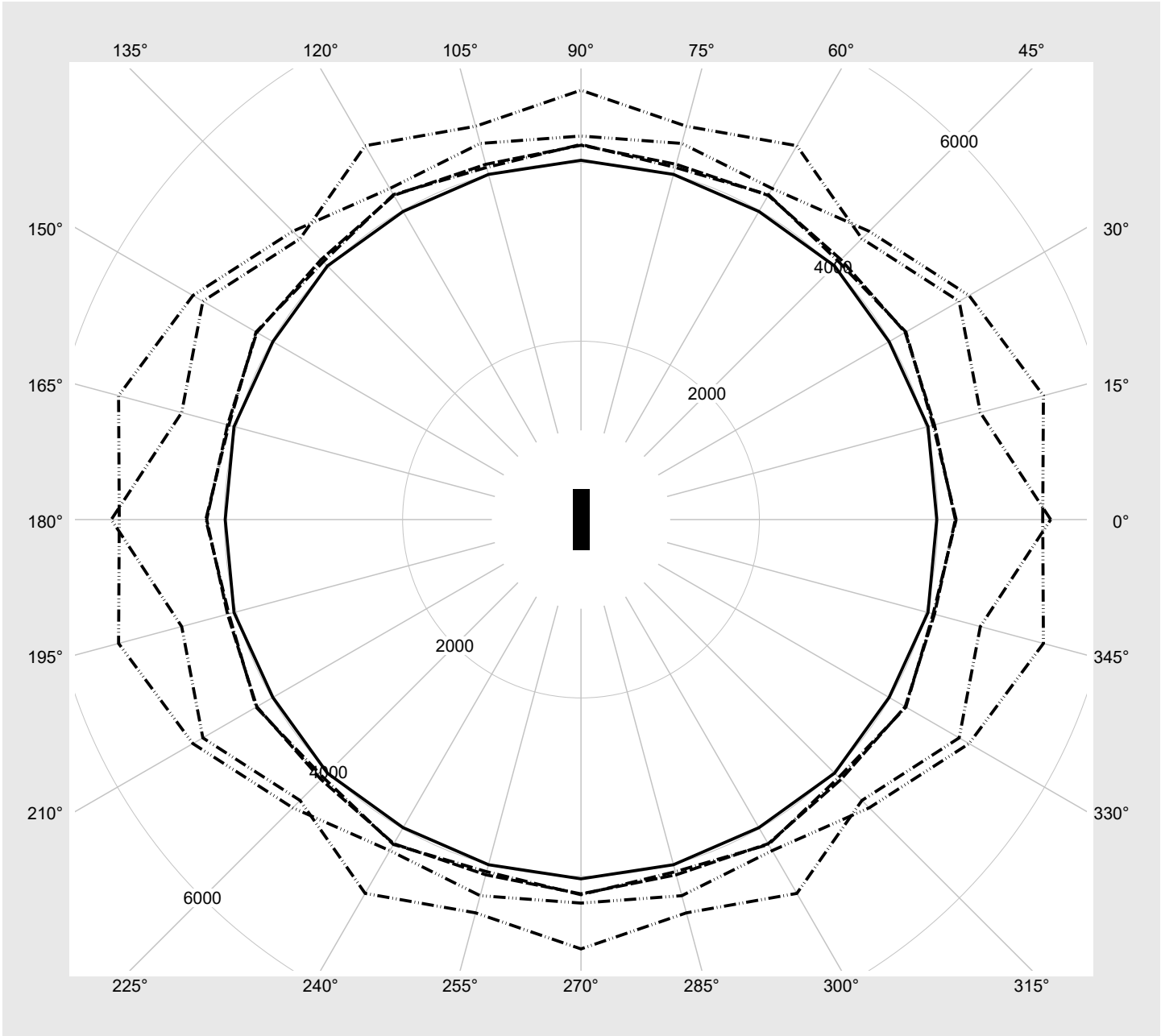
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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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	15290	113.0
95	238	252	14545	106.6
90	225	250	13750	100.2
85	213	248	13007	94.4
80	197	245	12212	88.1
75	182	242	11466	82.1
70	169	239	10732	76.6
65	156	236	9951	70.9
60	144	233	9186	65.4
55	132	230	8416	59.8
50	120	227	7663	54.3
45	108	223	6910	48.9
40	95	218	6118	43.6
35	82	213	5334	38.4
30	70	207	4609	33.3
25	57	199	3822	27.7
20	44	190	3031	22.4
15	32	178	2297	17.6
10	20	161	1522	12.2
6	12	142	913	7.4