

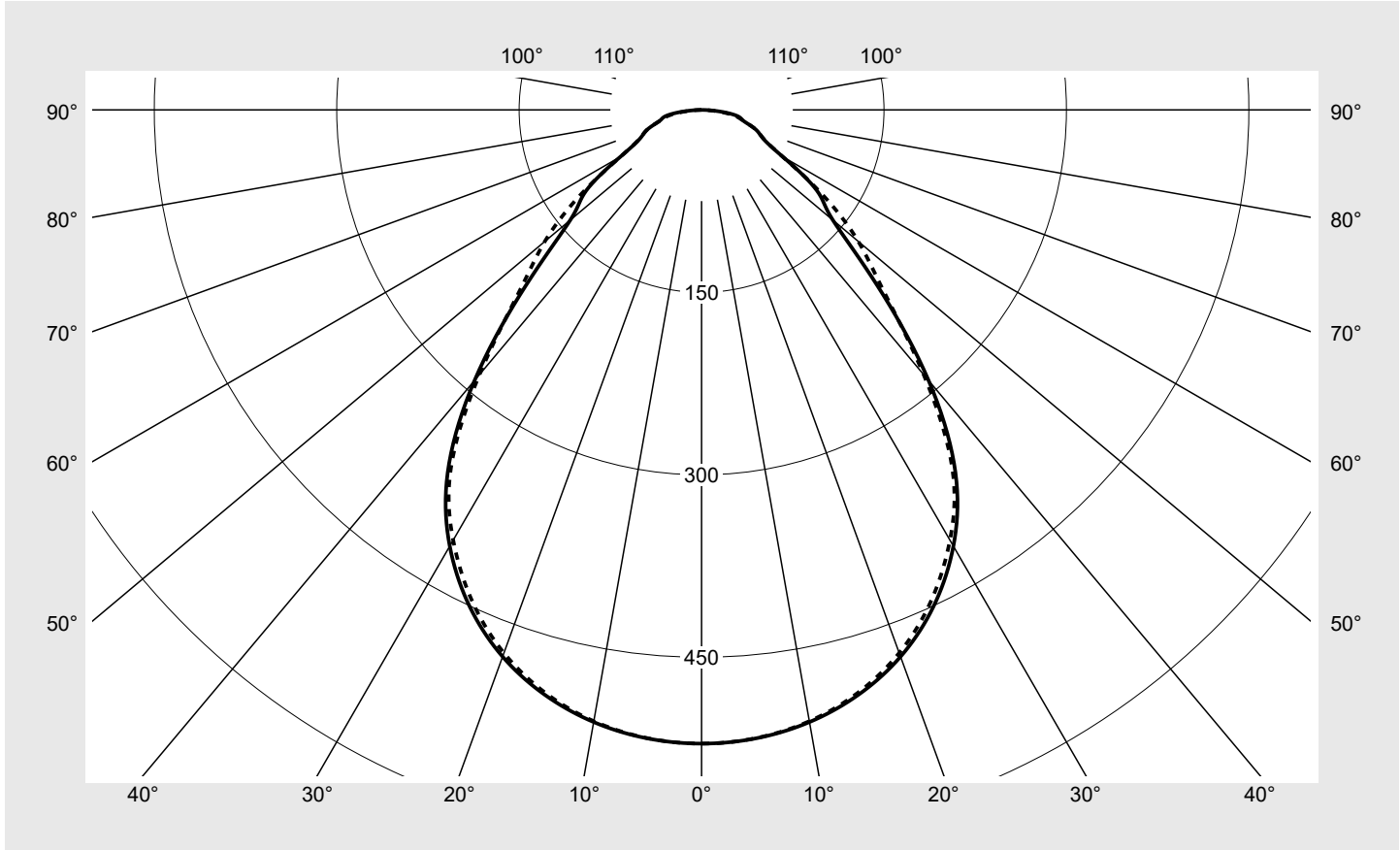


Photometric test report

Family Sport 31	Order number: 51HS12DC4DCA EAN: 4058352501795	LP number 59187_2
	Version CDP microprismatic optics, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 8000 lm Power consumption = 59.4 W Luminous efficacy = 134.7 lm/W	serial documentation 27.07.2021
		

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	17.1	18.6	17.4	18.9	19.2	16.6	18.2	17.0	18.5	18.8
	3H	17.8	19.2	18.2	19.5	19.9	17.5	18.8	17.9	19.2	19.5
	4H	18.2	19.5	18.6	19.9	20.2	18.0	19.2	18.4	19.6	19.9
	6H	18.8	19.9	19.2	20.3	20.7	18.5	19.7	18.9	20.0	20.4
	8H	19.1	20.2	19.5	20.6	21.0	18.8	19.8	19.2	20.2	20.6
	12H	19.3	20.3	19.8	20.7	21.1	18.9	19.9	19.4	20.3	20.8
4H	2H	17.4	18.6	17.7	19.0	19.3	17.0	18.3	17.4	18.6	19.0
	3H	18.3	19.4	18.8	19.8	20.2	18.1	19.2	18.5	19.5	20.0
	4H	18.9	19.9	19.4	20.3	20.7	18.7	19.7	19.2	20.1	20.5
	6H	19.6	20.5	20.1	20.9	21.3	19.4	20.3	19.9	20.7	21.1
	8H	20.0	20.7	20.5	21.2	21.7	19.7	20.5	20.2	20.9	21.4
	12H	20.3	21.0	20.8	21.4	21.9	20.0	20.6	20.5	21.1	21.6
8H	4H	19.2	19.9	19.7	20.4	20.9	19.0	19.8	19.5	20.2	20.7
	6H	20.1	20.7	20.6	21.2	21.7	19.9	20.5	20.4	21.0	21.5
	8H	20.6	21.1	21.1	21.6	22.1	20.3	20.9	20.8	21.4	21.9
	12H	21.0	21.4	21.5	21.9	22.5	20.7	21.1	21.2	21.6	22.1
12H	4H	19.3	19.9	19.7	20.4	20.9	19.1	19.7	19.6	20.2	20.7
	6H	20.2	20.7	20.7	21.2	21.7	20.0	20.6	20.5	21.0	21.6
	8H	20.7	21.2	21.2	21.7	22.2	20.5	20.9	21.0	21.4	22.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1470
			B = 245

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°		6427.6	6856.5	7193.5	6555.3	5978.8	6232.8	6684.7		
50°		4869.7	5940.1	6398.1	5506.3	4395.8	5237.4	5814.4		
55°		4489.8	5252.1	5148.5	4854.1	3978.1	4645.7	4690.3		
60°		3424.6	3466.4	3426.4	3466.4	3427.2	3466.4	3421.0		
65°		2939.1	2967.5	2939.1	2962.8	2939.1	2952.2	2968.0		
70°		3092.3	3022.7	3092.3	3037.0	3092.3	3038.3	3092.3		
75°		3099.4	3011.7	3099.4	3011.7	3099.4	3011.7	3099.4		
80°		3880.2	3415.1	3607.2	3281.8	3566.3	3363.8	3547.1		
85°		3814.3	3954.7	3701.9	3367.5	3158.3	3216.9	3168.5		

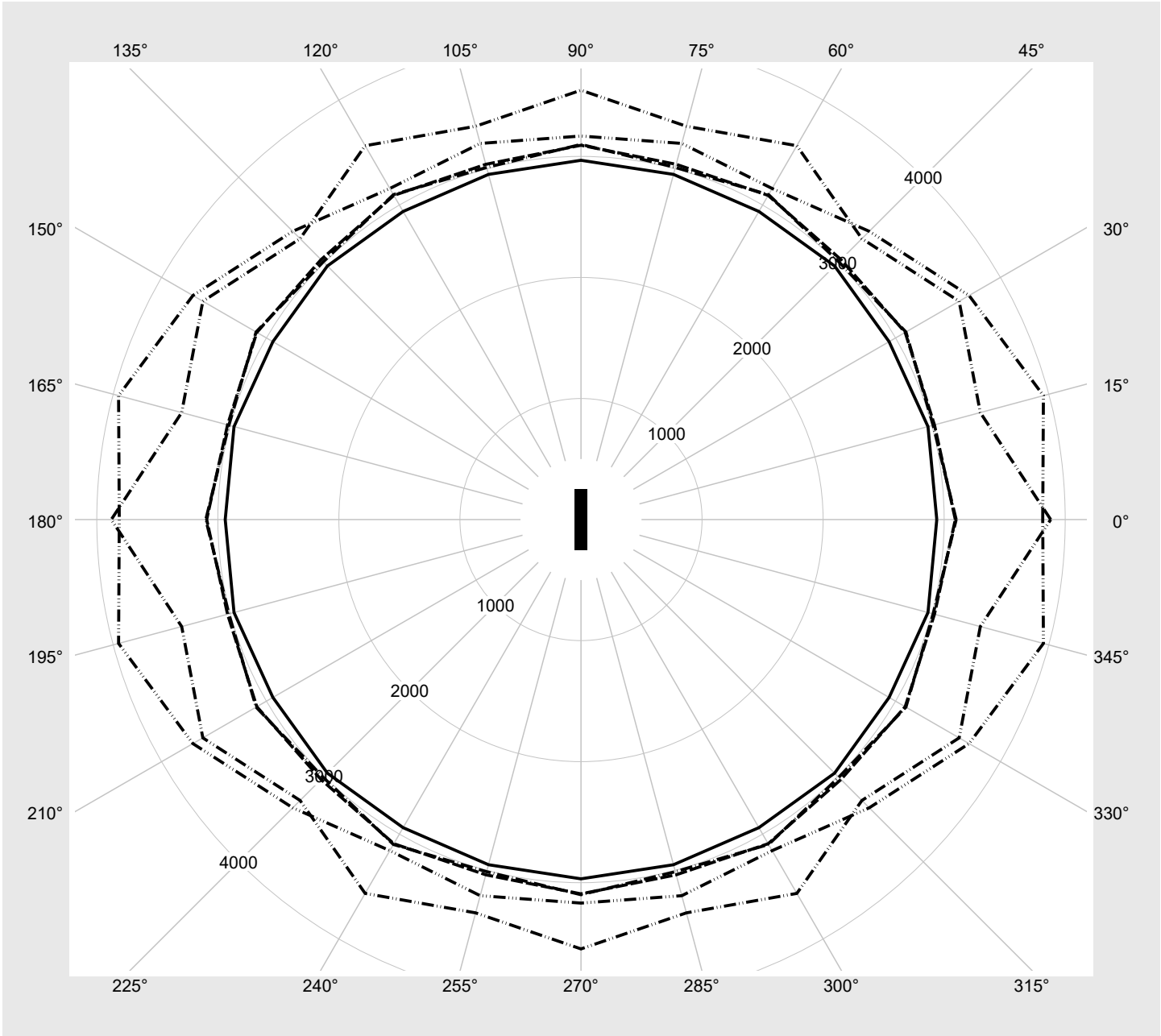
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Luminance values in cd/m²

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	8000	59.4
95	243	252	7597	56.2
90	232	251	7190	53.0
85	222	249	6814	50.3
80	207	247	6393	49.2
75	188	243	5990	50.5
70	171	240	5583	48.8
65	160	237	5212	40.9
60	149	234	4809	35.3
55	139	232	4409	32.8
50	126	228	3998	29.8
45	110	223	3588	26.6
40	98	219	3199	23.9
35	89	216	2815	21.6
30	77	210	2390	18.9
25	62	202	2002	16.2
20	47	192	1599	13.4
15	33	179	1187	10.6
10	20	161	800	8.0
6	11	139	440	4.4