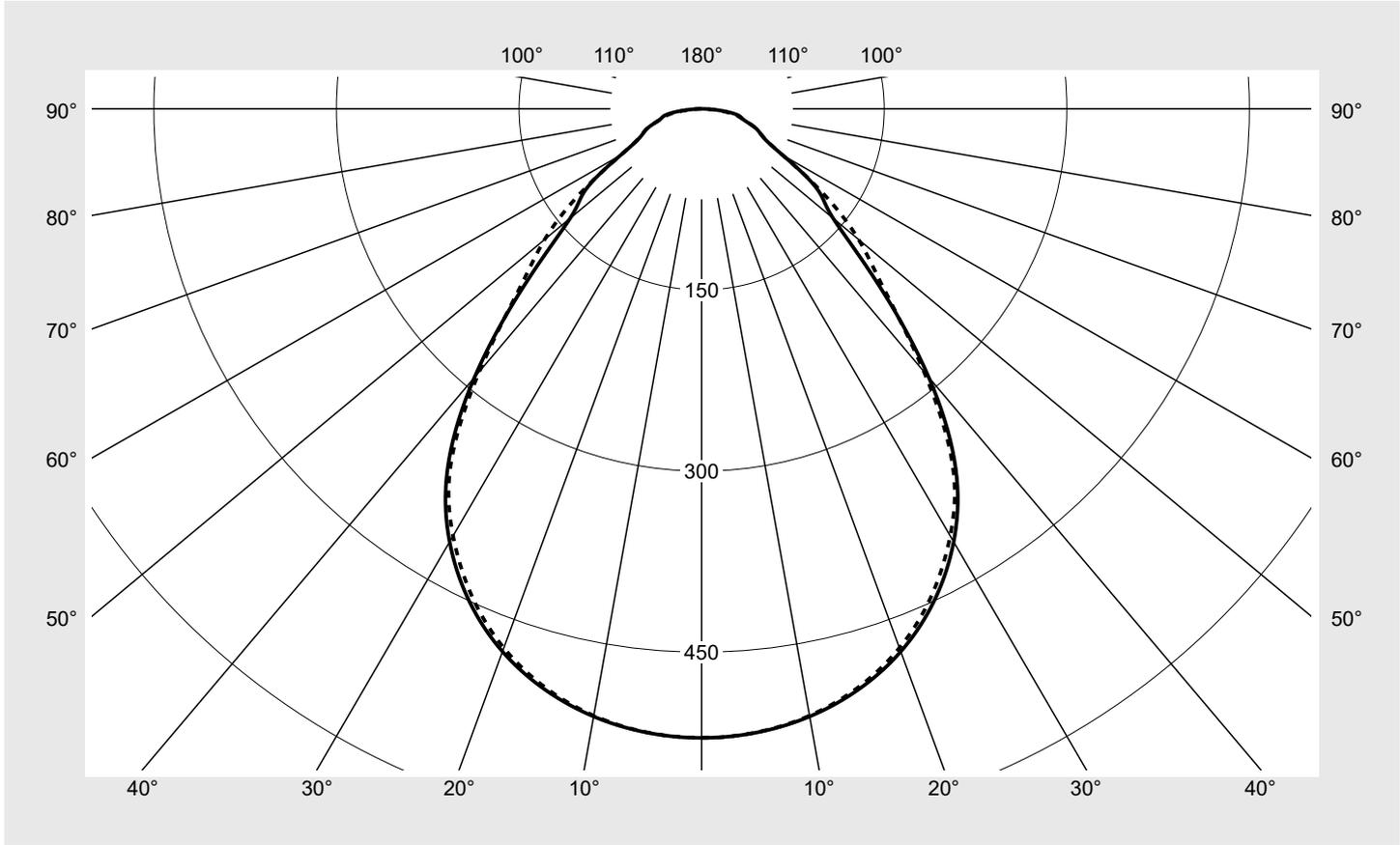


Photometric test report

Family Sport 31	Order number: 51HS12DC3DCA EAN: 4058352501788	LP number 59187_1
	Version CDP microprismatic optics, wide distribution Lamps LED 3000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 7500 lm Power consumption = 55.4 W Luminous efficacy = 135.4 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

Photometric test report

Family Sport 31	Order number: 51HS12DC3DCA EAN: 4058352501788	LP number 59187_1
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Table of values for luminous intensities	Maximum luminous intensity
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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

Photometric test report

Family Sport 31	Order number: 51HS12DC3DCA EAN: 4058352501788	LP number 59187_1
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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	16.9	18.4	17.2	18.7	19.0	16.4	17.9	16.8	18.2	18.6
	3H	17.6	18.9	18.0	19.3	19.6	17.3	18.6	17.6	18.9	19.3
	4H	18.0	19.3	18.4	19.6	20.0	17.7	19.0	18.1	19.4	19.7
	6H	18.6	19.7	19.0	20.1	20.5	18.3	19.4	18.7	19.8	20.2
	8H	18.9	20.0	19.3	20.3	20.7	18.6	19.6	19.0	20.0	20.4
	12H	19.1	20.1	19.5	20.5	20.9	18.7	19.7	19.2	20.1	20.5
4H	2H	17.1	18.4	17.5	18.7	19.1	16.8	18.0	17.2	18.4	18.8
	3H	18.1	19.2	18.5	19.6	20.0	17.9	18.9	18.3	19.3	19.7
	4H	18.7	19.6	19.1	20.1	20.5	18.5	19.5	18.9	19.9	20.3
	6H	19.4	20.2	19.9	20.7	21.1	19.2	20.0	19.7	20.5	20.9
	8H	19.8	20.5	20.2	21.0	21.4	19.5	20.3	20.0	20.7	21.2
	12H	20.1	20.7	20.6	21.2	21.7	19.8	20.4	20.3	20.9	21.4
8H	4H	19.0	19.7	19.4	20.2	20.6	18.8	19.5	19.3	20.0	20.5
	6H	19.9	20.5	20.4	21.0	21.5	19.7	20.3	20.2	20.8	21.3
	8H	20.3	20.9	20.8	21.4	21.9	20.1	20.7	20.6	21.1	21.7
	12H	20.8	21.2	21.3	21.7	22.3	20.4	20.9	20.9	21.4	21.9
12H	4H	19.0	19.7	19.5	20.1	20.6	18.9	19.5	19.4	20.0	20.5
	6H	20.0	20.5	20.5	21.0	21.5	19.8	20.3	20.3	20.8	21.3
	8H	20.5	20.9	21.0	21.4	22.0	20.3	20.7	20.8	21.2	21.8

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°		6025.8	6427.9	6743.9	6145.6	5605.1	5843.2	6266.9	
50°		4565.3	5568.8	5998.2	5162.2	4121.0	4910.0	5451.0	
55°		4209.1	4923.8	4826.7	4550.7	3729.4	4355.3	4397.2	
60°		3210.5	3249.8	3212.2	3249.8	3213.0	3249.8	3207.2	
65°		2755.4	2782.0	2755.4	2777.6	2755.4	2767.7	2782.5	
70°		2899.0	2833.8	2899.0	2847.2	2899.0	2848.4	2899.0	
75°		2905.7	2823.4	2905.7	2823.4	2905.7	2823.4	2905.7	
80°		3637.7	3201.6	3381.7	3076.7	3343.4	3153.5	3325.4	
85°		3575.9	3707.6	3470.5	3157.1	2960.9	3015.9	2970.5	

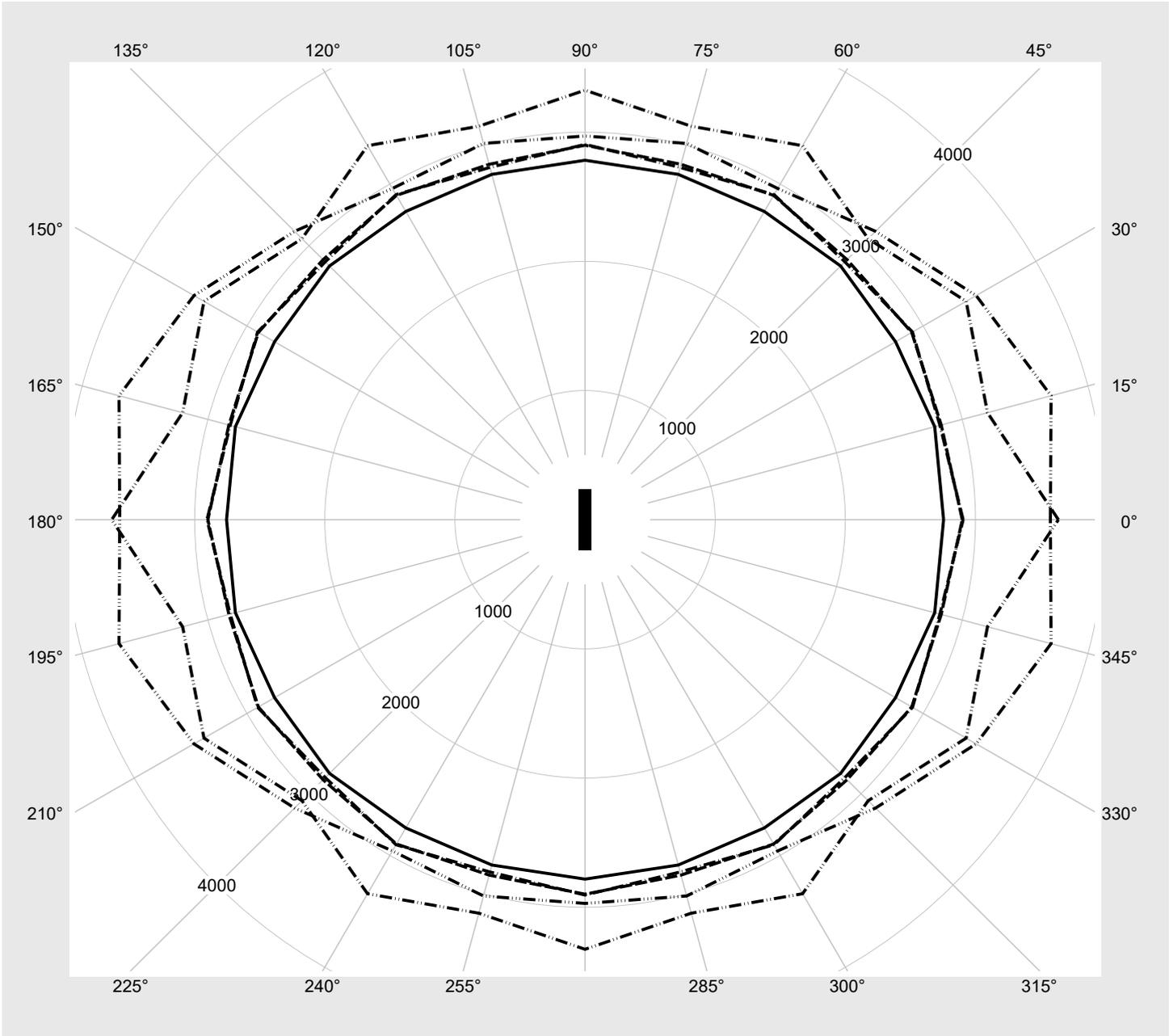
Photometric test report

Family Sport 31	Order number: 51HS12DC3DCA EAN: 4058352501788	LP number 59187_1
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



Photometric test report

Family Sport 31	Order number: 51HS12DC3DCA EAN: 4058352501788	LP number 59187_1
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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	7500	55.4
95	243	252	7112	52.5
90	233	251	6756	49.9
85	218	248	6378	49.2
80	199	245	5996	50.5
75	182	242	5624	49.7
70	170	239	5241	41.5
65	159	237	4867	35.7
60	149	234	4489	33.3
55	138	232	4115	30.8
50	123	227	3751	27.8
45	108	223	3378	25.0
40	99	219	3015	22.8
35	89	216	2611	20.3
30	76	210	2259	17.9
25	60	201	1867	15.2
20	46	191	1497	12.7
15	33	179	1135	10.3
10	20	161	757	7.6
6	11	139	416	4.2