

Photometric test report

Family
Sport 31

Order number: **51HS12DC4ECA**
EAN: **4058352501801**

LP number
59187_3



Version CDP microprismatic optics, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 11990 lm
Power consumption = 89.4 W
Luminous efficacy = 134.1 lm/W

serial
documentation
27.07.2021

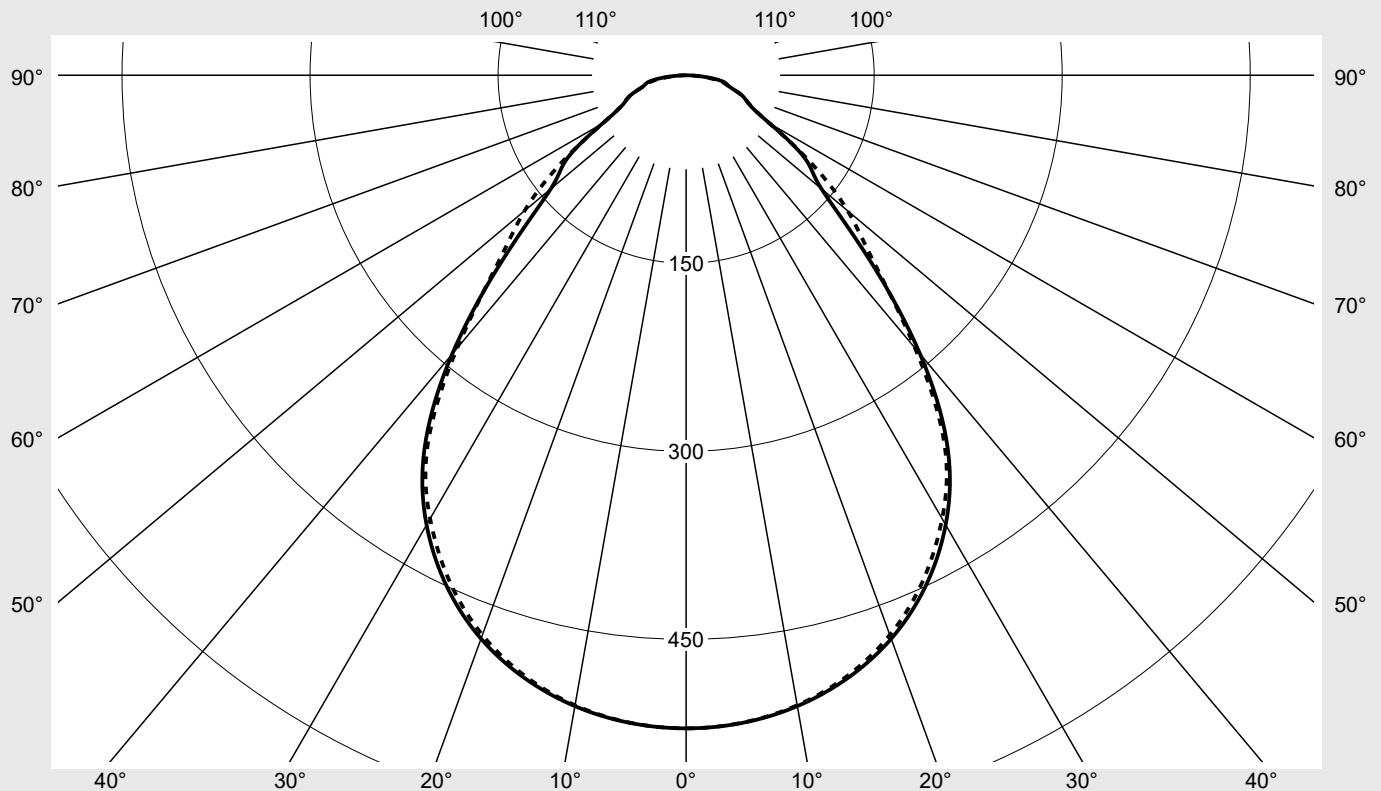
siteco

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
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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

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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	18.5	20.0	18.8	20.3	20.6	18.0	19.6	18.4	19.9	20.2
	3H	19.2	20.6	19.6	20.9	21.3	18.9	20.2	19.3	20.6	20.9
	4H	19.7	20.9	20.0	21.3	21.6	19.4	20.6	19.8	21.0	21.4
	6H	20.2	21.4	20.6	21.7	22.1	19.9	21.1	20.3	21.4	21.8
	8H	20.5	21.6	21.0	22.0	22.4	20.2	21.3	20.6	21.6	22.0
	12H	20.7	21.7	21.2	22.1	22.5	20.4	21.3	20.8	21.7	22.2
4H	2H	18.8	20.0	19.2	20.4	20.7	18.4	19.7	18.8	20.0	20.4
	3H	19.7	20.8	20.2	21.2	21.6	19.5	20.6	19.9	20.9	21.4
	4H	20.3	21.3	20.8	21.7	22.1	20.1	21.1	20.6	21.5	21.9
	6H	21.0	21.9	21.5	22.3	22.8	20.8	21.7	21.3	22.1	22.6
	8H	21.4	22.1	21.9	22.6	23.1	21.2	21.9	21.6	22.3	22.8
	12H	21.7	22.4	22.2	22.8	23.3	21.4	22.0	21.9	22.5	23.0
8H	4H	20.6	21.3	21.1	21.8	22.3	20.4	21.2	20.9	21.6	22.1
	6H	21.5	22.1	22.0	22.6	23.1	21.3	21.9	21.8	22.4	22.9
	8H	22.0	22.5	22.5	23.0	23.5	21.7	22.3	22.2	22.8	23.3
	12H	22.4	22.8	22.9	23.3	23.9	22.1	22.5	22.6	23.0	23.6
12H	4H	20.7	21.3	21.2	21.8	22.3	20.5	21.1	21.0	21.6	22.1
	6H	21.6	22.1	22.1	22.6	23.1	21.4	22.0	21.9	22.5	23.0
	8H	22.1	22.6	22.6	23.1	23.6	21.9	22.4	22.4	22.9	23.4

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°	45°	9633.3	10276.1	10781.3	9824.8	8960.7	9341.4	10018.6	
50°	50°	7298.5	8902.7	9589.1	8252.6	6588.2	7849.5	8714.4	
55°	55°	6729.0	7871.6	7716.3	7275.0	5962.1	6962.8	7029.6	
60°	60°	5132.6	5195.3	5135.2	5195.3	5136.6	5195.3	5127.3	
65°	65°	4404.9	4447.5	4404.9	4440.5	4404.9	4424.6	4448.3	
70°	70°	4634.6	4530.3	4634.6	4551.7	4634.6	4553.7	4634.6	
75°	75°	4645.2	4513.7	4645.2	4513.7	4645.2	4513.7	4645.2	
80°	80°	5815.4	5118.3	5406.3	4918.6	5344.9	5041.4	5316.2	
85°	85°	5716.7	5927.2	5548.2	5047.1	4733.5	4821.3	4748.8	

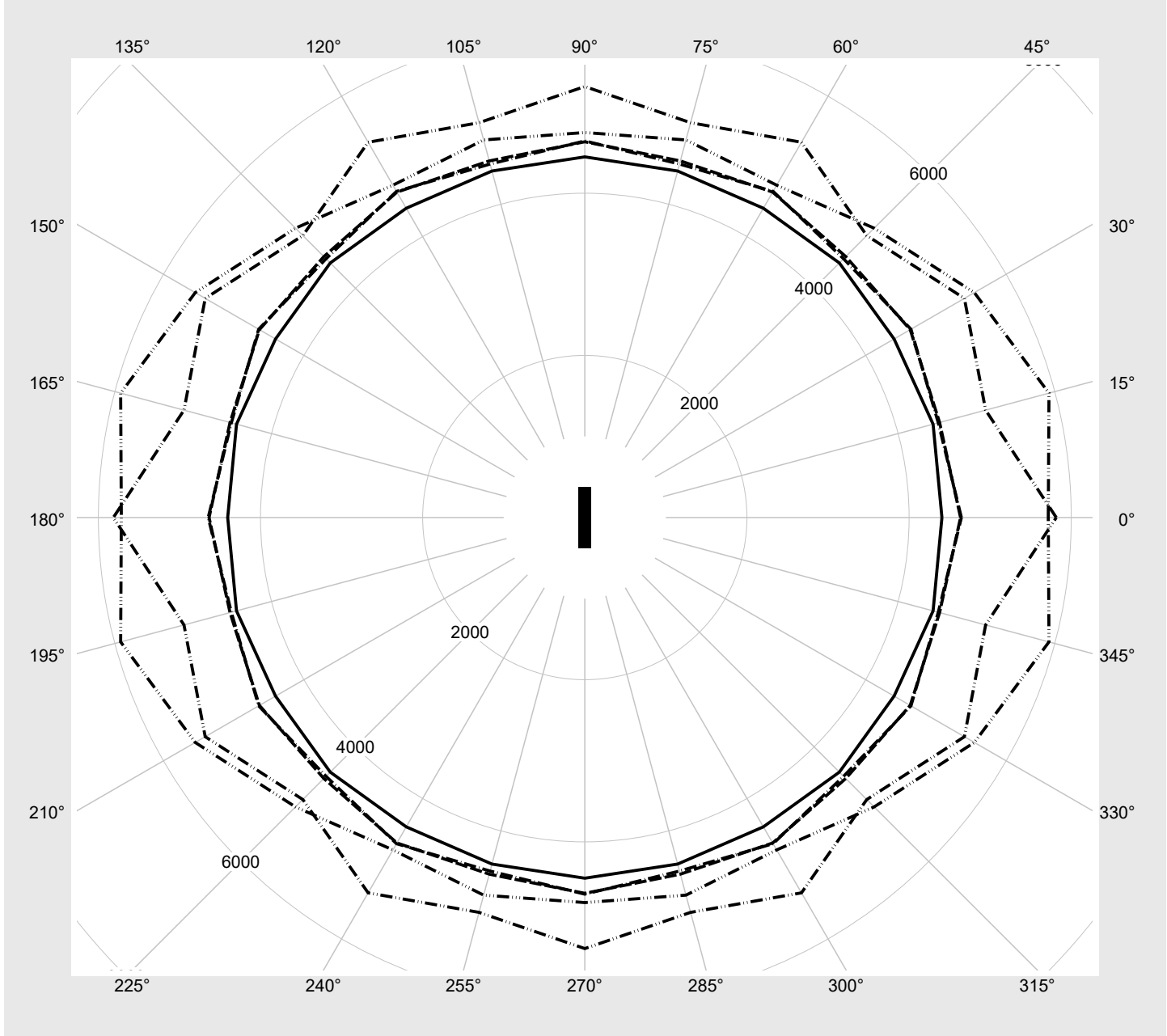
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Luminance values in cd/m²

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	11990	89.4
95	240	252	11407	84.6
90	226	250	10808	79.8
85	215	248	10208	75.3
80	202	246	9574	70.5
75	187	243	8973	65.7
70	173	240	8403	61.1
65	161	237	7788	56.6
60	149	234	7215	52.5
55	134	231	6577	48.2
50	121	227	5999	44.0
45	108	223	5393	39.4
40	95	218	4789	35.1
35	82	213	4189	31.3
30	69	206	3586	27.4
25	56	199	2983	23.3
20	44	190	2373	19.2
15	35	181	1787	15.5
10	26	171	1214	11.9
5	14	148	653	6.4