
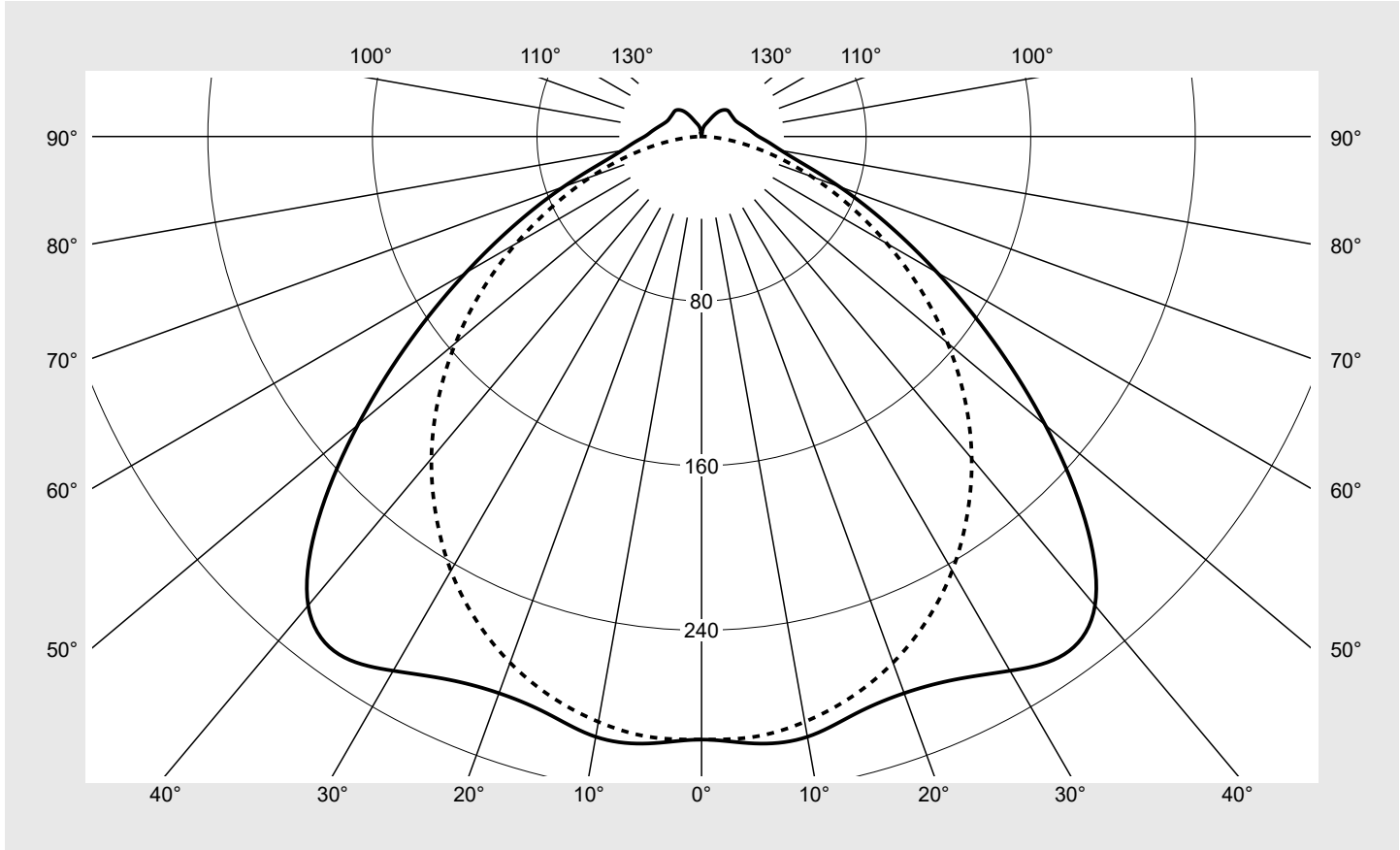


Photometric test report

Family DUS® 31 	Order number: 53BD812DV4A5C23SL3 EAN: 4069025254771	LP number 59594_122
	Version diffuser optic, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode Rated values Net luminous flux = 10860 lm Power consumption = 65.2 W Luminous efficacy = 166.6 lm/W	serial documentation 11.09.2024

Luminous intensity in cd/klm **C180-0** **C270-90** **Imax: 307 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=80 N3=95 N4=93 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	92.6%
ϕ_o	7.4%

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° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
0°	293.1	293.1	293.1	293.1	293.1	293.1	293.1	1.8	1.8
5°	296.1	295.6	293.1	293.6	293.8	293.0	292.9	14.0	15.8
10°	296.3	296.3	293.6	293.6	292.6	289.9	288.9	27.9	43.7
15°	290.3	290.9	288.4	289.1	288.3	284.2	281.9	40.8	84.5
20°	287.9	288.2	282.8	281.1	280.6	275.9	272.2	52.8	137.3
25°	291.3	290.8	281.6	274.0	270.0	264.7	259.4	64.0	201.2
30°	299.8	298.4	283.7	269.7	258.3	250.5	243.7	74.6	275.8
35°	307.3	306.0	288.6	266.7	246.6	233.7	225.0	84.2	360.1
40°	297.5	299.0	287.4	263.1	235.0	215.2	204.3	91.1	451.1
45°	263.6	268.2	268.7	253.4	221.8	194.2	181.1	92.3	543.4
50°	218.1	223.5	232.0	231.1	204.9	171.7	156.1	87.5	630.9
55°	172.9	177.3	186.9	195.4	181.1	147.5	130.2	77.8	708.7
60°	132.3	135.3	142.3	152.9	149.4	121.4	104.1	64.8	773.5
65°	98.5	100.2	104.0	112.2	114.5	94.5	79.4	50.9	824.4
70°	71.4	72.6	74.4	79.3	82.2	69.0	57.1	37.9	862.3
75°	51.0	51.6	52.9	55.5	55.9	46.4	37.5	27.0	889.4
80°	39.4	39.1	38.7	38.1	35.5	27.5	20.9	18.8	908.2
85°	32.8	32.1	30.1	26.5	21.0	13.7	8.3	13.1	921.3
90°	27.7	27.1	24.5	19.3	12.6	5.6	0.8	9.4	930.7
95°	24.8	24.4	22.4	17.8	11.6	5.3	0.8	8.6	939.3
100°	22.5	22.2	20.5	16.7	11.5	5.5	0.8	7.9	947.2
105°	20.6	20.3	18.7	16.0	11.5	5.9	0.8	7.3	954.6
110°	19.2	18.7	17.6	15.5	11.7	6.3	0.7	6.8	961.4
115°	18.2	17.8	17.0	15.3	12.2	5.8	0.8	6.4	967.8
120°	17.9	17.4	16.9	15.5	12.3	5.3	0.8	6.1	973.9
125°	17.8	17.4	16.9	15.5	11.8	5.2	0.8	5.7	979.6
130°	17.9	17.4	16.8	15.0	10.1	5.0	0.9	5.2	984.7
135°	17.9	17.3	16.2	13.6	8.1	4.3	1.0	4.5	989.2
140°	16.9	16.0	14.5	11.2	6.7	3.5	1.1	3.6	992.8
145°	14.9	14.0	12.0	8.5	5.5	2.8	1.2	2.7	995.4
150°	11.8	10.8	9.0	6.5	4.7	2.2	1.4	1.8	997.3
155°	8.6	8.1	7.0	5.2	4.0	1.7	1.5	1.2	998.5
160°	6.8	6.5	5.3	4.3	3.2	1.5	1.5	0.8	999.2
165°	5.5	5.3	3.9	3.4	2.1	1.6	1.6	0.5	999.7
170°	3.8	3.1	2.5	2.0	1.6	1.6	1.6	0.2	999.9
175°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.1	1000.0
180°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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	23.1	24.8	23.5	25.1	25.4	22.9	24.6	23.2	24.9	25.2
	3H	23.9	25.5	24.3	25.8	26.2	24.0	25.5	24.4	25.9	26.2
	4H	24.3	25.7	24.7	26.0	26.4	24.4	25.8	24.8	26.2	26.6
	6H	24.6	25.9	25.0	26.2	26.6	24.7	26.0	25.1	26.4	26.8
	8H	24.7	26.0	25.2	26.3	26.7	24.7	26.0	25.2	26.4	26.8
	12H	24.9	26.1	25.3	26.4	26.9	24.8	26.0	25.2	26.4	26.8
4H	2H	23.7	25.2	24.1	25.5	25.9	23.6	25.1	24.0	25.4	25.8
	3H	24.7	26.0	25.2	26.3	26.8	25.0	26.2	25.4	26.6	27.0
	4H	25.1	26.2	25.6	26.7	27.1	25.5	26.6	25.9	27.0	27.4
	6H	25.5	26.5	26.0	26.9	27.4	25.8	26.8	26.3	27.2	27.7
	8H	25.7	26.6	26.2	27.1	27.5	25.9	26.8	26.4	27.3	27.7
	12H	26.0	26.8	26.5	27.2	27.7	26.0	26.8	26.5	27.3	27.7
8H	4H	25.4	26.3	25.9	26.7	27.2	25.7	26.6	26.2	27.0	27.5
	6H	25.9	26.7	26.4	27.1	27.6	26.2	26.9	26.7	27.4	27.9
	8H	26.2	26.9	26.7	27.3	27.9	26.4	27.0	26.9	27.5	28.0
	12H	26.5	27.1	27.0	27.6	28.1	26.5	27.1	27.0	27.6	28.1
12H	4H	25.4	26.2	25.9	26.7	27.2	25.7	26.5	26.2	27.0	27.5
	6H	26.0	26.6	26.5	27.1	27.6	26.3	26.9	26.8	27.4	27.9
	8H	26.3	26.9	26.8	27.4	27.9	26.5	27.0	27.0	27.5	28.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1514	H(C0) = 25	H(C180) = 25
			B = 75	H(C90) = 0	H(C270) = 0

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°		26742.7	27444.6	28203.0	27735.1	25718.2	24182.6	24497.9	
50°		23223.7	24030.1	25683.6	26840.6	25429.0	23169.3	23226.8	
55°		19529.2	20246.6	22065.1	24380.7	24385.1	21901.3	21717.3	
60°		16044.2	16609.3	18141.1	20767.6	22173.0	20196.9	19921.4	
65°		13002.2	13418.5	14540.8	16870.5	19097.1	18037.4	17960.5	
70°		10414.6	10767.9	11594.9	13462.0	15770.6	15599.9	15956.8	
75°		8393.8	8661.5	9404.7	10909.8	12733.4	12958.3	13849.9	
80°		7507.9	7624.3	8072.3	8988.7	10061.8	10179.1	11508.4	
85°		7481.8	7535.6	7688.6	7870.2	7946.3	7558.4	9150.8	

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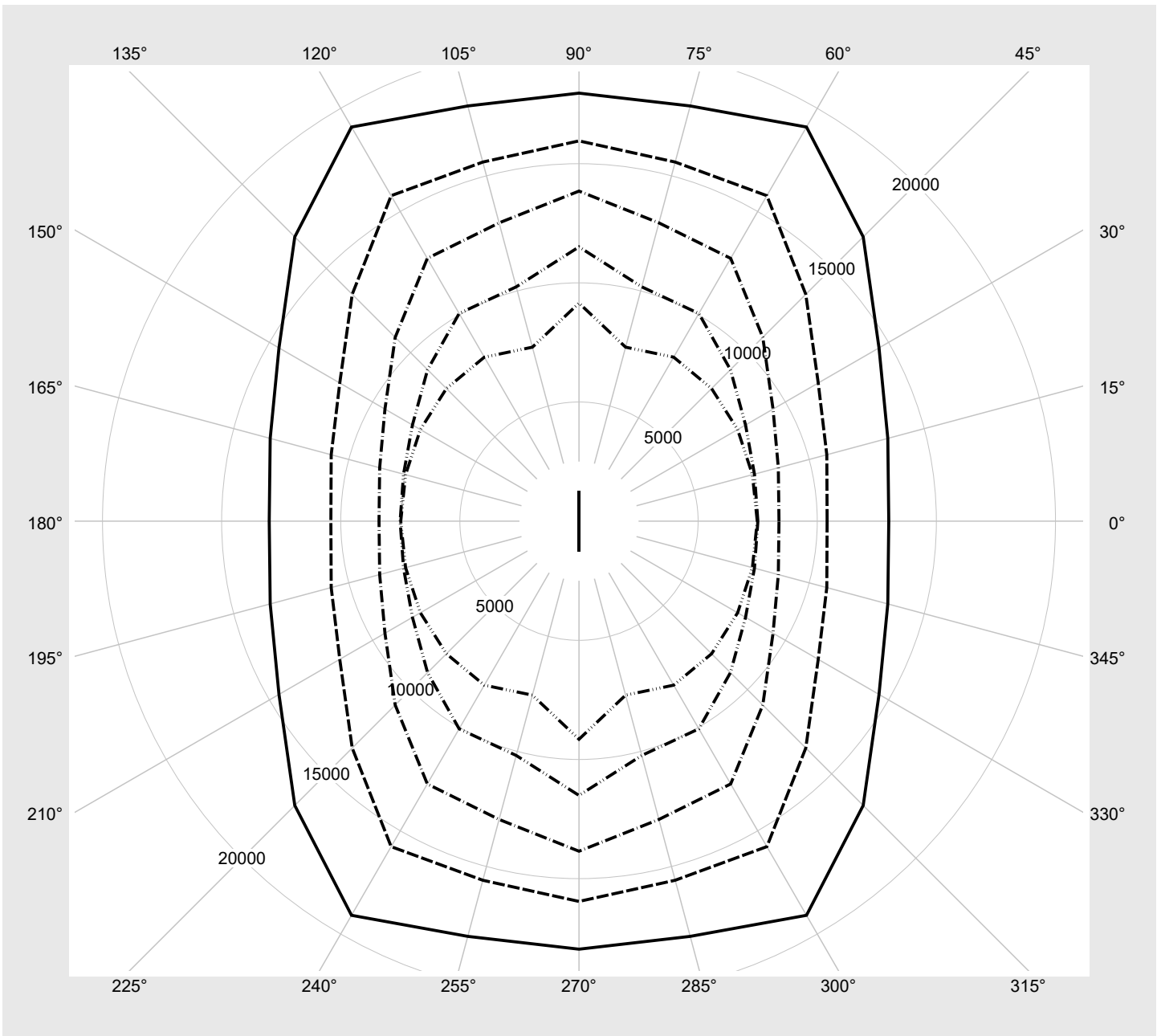
Family
DUS® 31

Order number: 53BD812DV4A5C23SL3
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LP number
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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	10860	65.2
95	240	252	10320	61.7
90	226	250	9772	58.3
85	212	247	9218	54.8
80	199	245	8697	51.7
75	185	242	8126	48.4
70	172	240	7591	45.2
65	159	237	7051	42.1
60	146	234	6504	39.1
55	134	231	5994	36.3
50	121	227	5436	33.2
45	108	223	4872	30.1
40	96	218	4347	27.4
35	84	213	3817	24.6
30	71	207	3237	21.7
25	59	201	2695	19.1
20	47	192	2151	16.4
15	36	182	1649	13.8
10	24	168	1098	10.8
5	12	142	543	8.0
2	4	102	170	6.2