

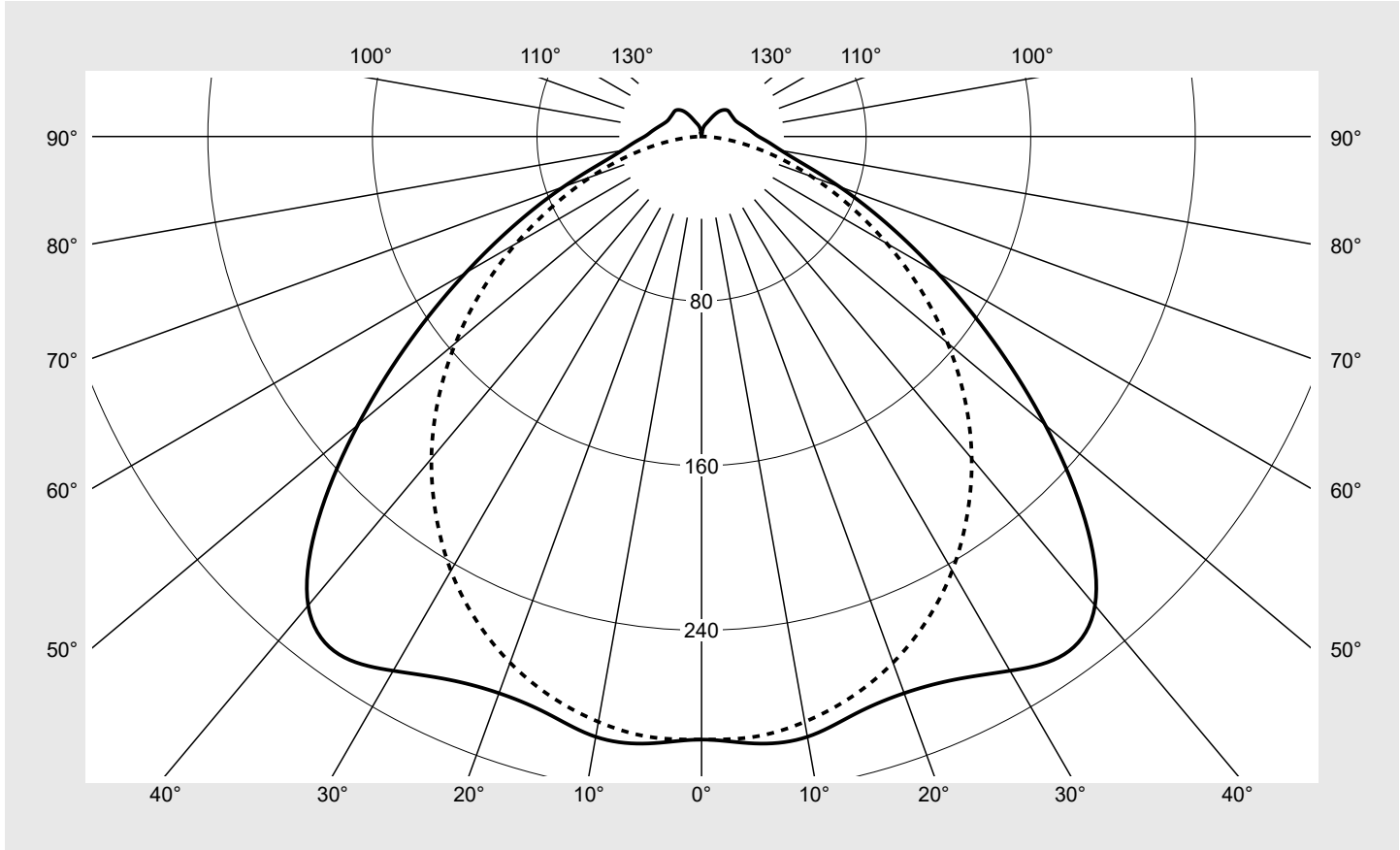


# Photometric test report

<b>Family</b> <b>DUS® 31</b>	<b>Order number: 53BD812MV4CXD2</b> <b>EAN: 4069025185945</b>	<b>LP number</b> <b>59594_87</b>
	<b>Version</b> diffuser optic, frosted, wide distribution <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG Multilumen <b>Rated values</b> Net luminous flux = 12350 lm Power consumption = 64.6 W Luminous efficacy = 191.2 lm/W	<b>serial</b> <b>documentation</b> <b>16.07.2024</b>
		

**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	
$\eta_{LB}$	100.0%
$\phi_u$	92.6%
$\phi_o$	7.4%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	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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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	23.5	25.2	23.9	25.5	25.9	23.3	25.0	23.7	25.3	25.7
	3H	24.4	25.9	24.8	26.3	26.6	24.4	26.0	24.8	26.3	26.7
	4H	24.7	26.1	25.1	26.5	26.9	24.8	26.3	25.2	26.6	27.0
	6H	25.0	26.3	25.4	26.7	27.1	25.1	26.4	25.5	26.8	27.2
	8H	25.2	26.4	25.6	26.8	27.2	25.2	26.5	25.6	26.8	27.2
	12H	25.3	26.5	25.8	26.9	27.3	25.2	26.4	25.7	26.8	27.2
4H	2H	24.2	25.6	24.6	26.0	26.4	24.1	25.5	24.5	25.9	26.2
	3H	25.2	26.4	25.6	26.8	27.2	25.4	26.6	25.8	27.0	27.4
	4H	25.6	26.7	26.0	27.1	27.5	25.9	27.0	26.3	27.4	27.8
	6H	26.0	26.9	26.4	27.4	27.8	26.3	27.2	26.7	27.7	28.1
	8H	26.2	27.1	26.7	27.5	28.0	26.4	27.3	26.8	27.7	28.2
	12H	26.4	27.2	26.9	27.7	28.2	26.5	27.3	26.9	27.7	28.2
8H	4H	25.9	26.7	26.3	27.2	27.7	26.1	27.0	26.6	27.5	27.9
	6H	26.4	27.1	26.8	27.6	28.1	26.6	27.4	27.1	27.8	28.3
	8H	26.6	27.3	27.1	27.8	28.3	26.8	27.5	27.3	27.9	28.5
	12H	27.0	27.5	27.5	28.0	28.6	26.9	27.5	27.4	28.0	28.5
12H	4H	25.9	26.7	26.4	27.2	27.6	26.2	27.0	26.7	27.4	27.9
	6H	26.4	27.1	26.9	27.6	28.1	26.7	27.3	27.2	27.8	28.3
	8H	26.8	27.3	27.3	27.8	28.4	26.9	27.5	27.4	28.0	28.5

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

C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		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°		30411.8	31210.0	32072.4	31540.4	29246.8	27500.5	27859.0	
50°		26410.0	27327.0	29207.4	30523.2	28917.9	26348.2	26413.5	
55°		22208.7	23024.5	25092.4	27725.8	27730.8	24906.2	24696.9	
60°		18245.5	18888.1	20630.1	23617.0	25215.2	22967.9	22654.6	
65°		14786.2	15259.5	16535.8	19185.2	21717.3	20512.1	20424.7	
70°		11843.5	12245.2	13185.7	15309.0	17934.3	17740.2	18146.1	
75°		9545.5	9849.9	10695.1	12406.6	14480.4	14736.2	15750.1	
80°		8538.0	8670.3	9179.8	10222.0	11442.2	11575.6	13087.4	
85°		8508.3	8569.4	8743.5	8950.0	9036.5	8595.4	10406.3	

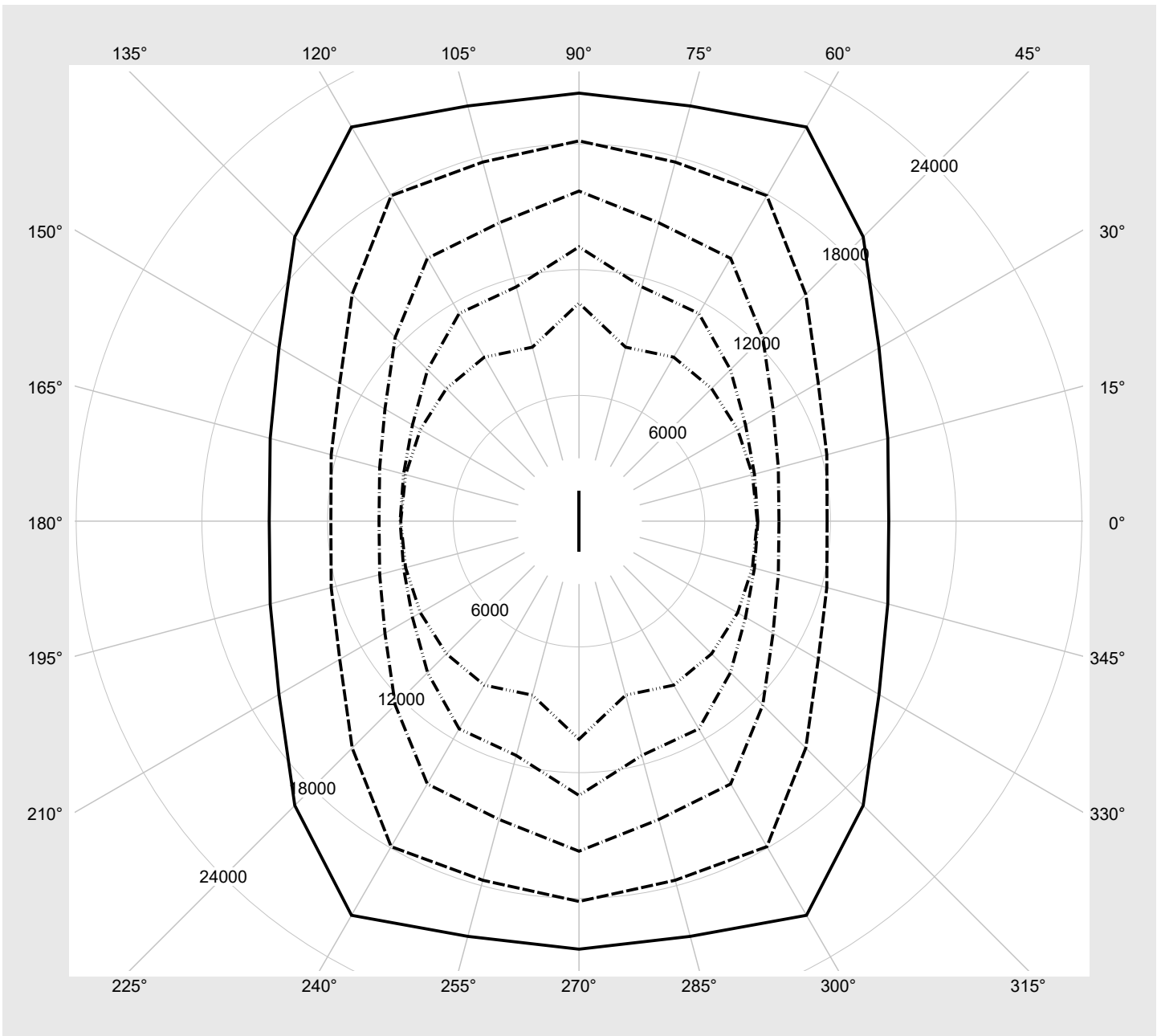
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**LP number**  
59594\_87

**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**



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<b>Multilumen Table</b>	environmental temperature: 25°C	<b>sITeco</b>
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	12350	64.6
2	A	C	F	11030	57.3
3	A	D	E	10100	52.2
4	A	D	F	9070	46.7
5	B	C	E	8030	41.2
6	B	C	F	7060	36.2
7	B	D	E	6000	30.9
8	B	D	F	5100	26.3