
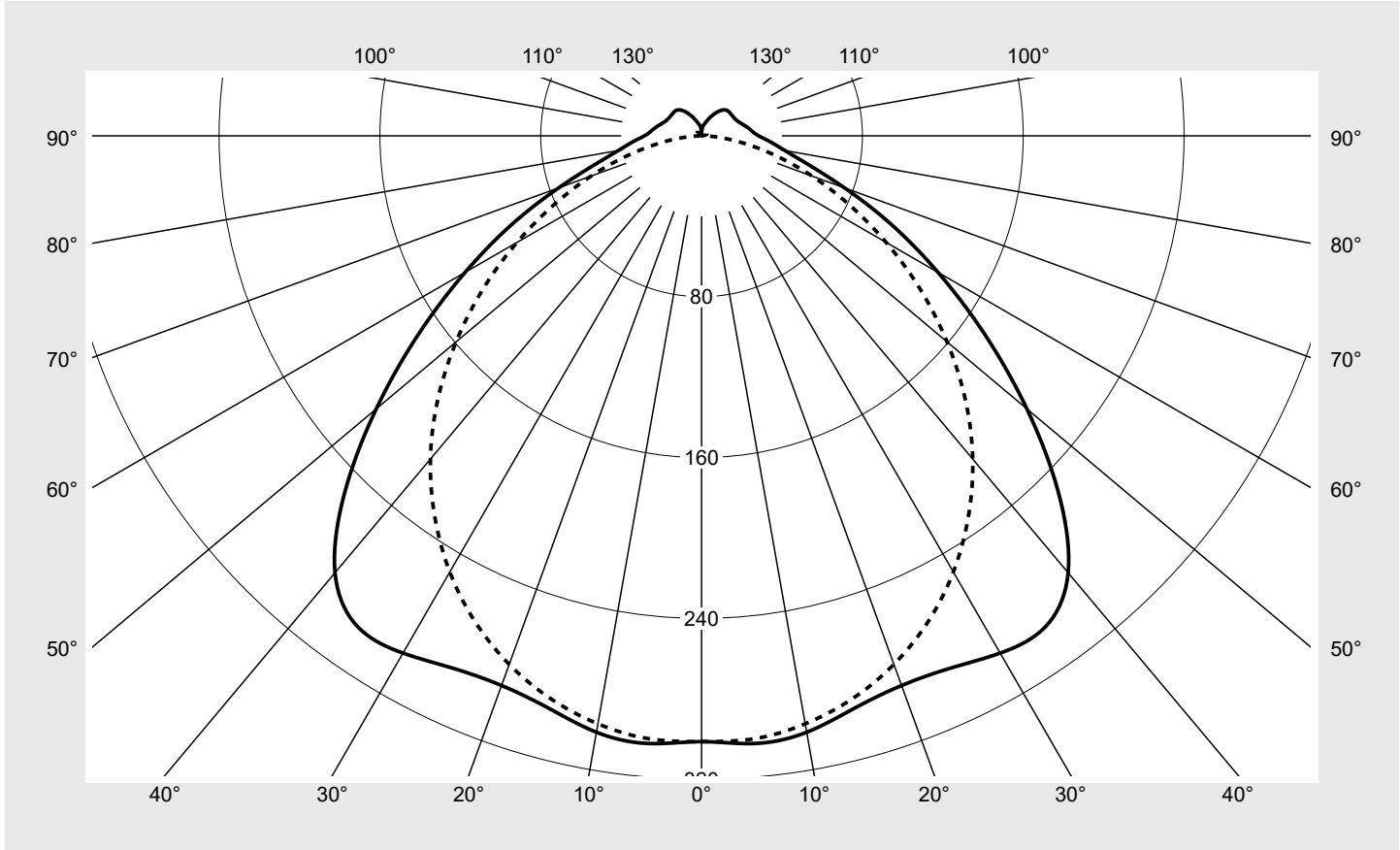


# Photometric test report

<b>Family</b> <b>DUS® 31</b> 	<b>Order number: 53BD812C1V6075</b> <b>EAN: 4058352434475</b>	<b>LP number</b> <b>59062_13</b>
	<b>Version</b> diffuser optic, frosted, wide distribution <b>Lamps</b> LED 6500 K   CRI ≥ 80 <b>Controlgear</b> ECG-Multilumen CLOi <b>Rated values</b> Net luminous flux = 7640 lm Power consumption = 48.9 W Luminous efficacy = 156.2 lm/W	<b>serial documentation</b> <b>29.10.2020</b>

**Luminous intensity in cd/klm**    **C180-0**    **C270-90**    **Imax: 303 cd/klm**



Classifications	
DIN 5040	A 4 1
CIE	N1=47 N2=80 N3=95 N4=92 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	92.2%
$\phi_o$	7.8%

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°	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°	301.3	301.3	301.3	301.3	301.3	301.3	301.3	1.8	1.8
5°	303.4	302.1	299.8	300.7	301.4	300.9	301.0	14.4	16.2
10°	301.2	300.2	298.0	298.8	298.8	297.4	296.9	28.4	44.6
15°	294.6	294.0	291.7	292.8	293.3	291.0	289.8	41.5	86.1
20°	290.9	289.9	285.2	284.3	284.4	281.8	279.7	53.5	139.6
25°	292.2	290.5	282.4	276.3	273.3	269.6	266.6	64.5	204.1
30°	297.0	294.4	282.2	270.2	261.0	254.7	250.5	74.7	278.9
35°	298.1	296.1	282.7	264.8	248.2	237.3	231.4	83.5	362.4
40°	283.7	283.9	275.8	257.5	234.7	217.8	209.8	89.0	451.4
45°	251.1	253.7	254.1	243.4	219.0	195.8	185.6	89.4	540.8
50°	211.2	214.3	220.3	219.1	199.3	172.1	159.4	84.7	625.6
55°	171.8	174.4	181.0	185.6	174.0	146.8	132.6	75.9	701.4
60°	135.8	137.5	141.9	147.8	143.1	120.2	106.0	64.2	765.6
65°	104.0	105.0	107.3	111.5	110.8	93.7	80.9	51.4	817.0
70°	75.7	76.6	78.0	80.9	80.7	68.8	58.4	38.8	855.8
75°	54.8	55.1	55.5	57.1	55.6	46.5	38.4	27.9	883.8
80°	42.1	41.7	40.7	39.3	35.7	27.8	21.5	19.5	903.3
85°	34.4	33.7	31.6	27.6	21.5	14.0	8.7	13.6	916.9
90°	28.4	27.8	25.3	20.0	13.0	5.8	0.9	9.7	926.7
95°	25.4	25.0	23.0	18.3	11.9	5.4	1.0	8.8	935.5
100°	23.4	22.9	21.1	17.1	11.7	5.5	1.6	8.2	943.6
105°	21.5	21.0	19.3	16.3	11.6	5.9	2.4	7.6	951.2
110°	19.9	19.3	18.1	15.8	11.8	6.2	2.9	7.1	958.3
115°	18.9	18.3	17.5	15.6	12.1	6.6	3.0	6.7	965.0
120°	18.4	17.9	17.3	15.6	12.2	6.6	2.9	6.4	971.4
125°	18.2	17.7	17.1	15.5	11.8	6.5	2.7	5.9	977.3
130°	18.1	17.6	16.9	14.9	10.9	6.2	2.5	5.4	982.7
135°	17.9	17.2	16.1	13.6	9.8	5.6	2.4	4.7	987.4
140°	16.8	15.9	14.5	11.9	8.4	5.0	2.1	3.8	991.2
145°	14.9	14.0	12.6	10.1	6.8	4.5	2.0	3.0	994.1
150°	12.5	11.8	10.5	7.9	5.6	4.1	1.8	2.2	996.3
155°	10.2	9.6	8.3	6.3	5.0	3.7	1.7	1.5	997.8
160°	8.1	7.6	6.2	5.1	4.6	3.6	1.5	1.0	998.8
165°	6.4	6.1	4.7	4.5	4.0	4.8	1.5	0.7	999.5
170°	5.3	4.3	3.8	4.0	3.9	3.9	1.5	0.4	999.8
175°	3.8	3.2	4.6	4.9	4.0	2.2	1.5	0.2	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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	21.8	23.5	22.1	23.8	24.1	21.6	23.3	21.9	23.6	23.9
	3H	22.7	24.3	23.1	24.6	25.0	22.7	24.3	23.1	24.6	25.0
	4H	23.1	24.5	23.5	24.9	25.3	23.1	24.6	23.5	24.9	25.3
	6H	23.4	24.8	23.8	25.1	25.5	23.4	24.8	23.8	25.1	25.5
	8H	23.6	24.9	24.1	25.2	25.6	23.5	24.8	23.9	25.2	25.6
	12H	23.8	25.0	24.2	25.4	25.8	23.6	24.8	24.0	25.2	25.6
4H	2H	22.4	23.9	22.8	24.2	24.6	22.3	23.7	22.7	24.1	24.5
	3H	23.5	24.8	24.0	25.2	25.6	23.7	24.9	24.1	25.3	25.7
	4H	24.0	25.1	24.4	25.5	26.0	24.2	25.3	24.6	25.7	26.1
	6H	24.5	25.4	24.9	25.8	26.3	24.6	25.5	25.0	26.0	26.4
	8H	24.7	25.6	25.1	26.0	26.5	24.7	25.6	25.1	26.0	26.5
	12H	24.9	25.7	25.4	26.2	26.7	24.8	25.6	25.2	26.0	26.5
8H	4H	24.3	25.2	24.7	25.6	26.1	24.5	25.3	24.9	25.8	26.3
	6H	24.8	25.6	25.3	26.1	26.6	25.0	25.7	25.4	26.2	26.7
	8H	25.2	25.8	25.6	26.3	26.8	25.1	25.8	25.6	26.3	26.8
	12H	25.5	26.1	26.0	26.6	27.1	25.3	25.8	25.8	26.3	26.9
12H	4H	24.3	25.1	24.8	25.6	26.1	24.5	25.3	25.0	25.7	26.2
	6H	24.9	25.6	25.4	26.1	26.6	25.0	25.7	25.5	26.2	26.7
	8H	25.3	25.8	25.8	26.3	26.9	25.3	25.8	25.8	26.3	26.9

<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°	17920.3	18258.9	18763.3	18739.2	17860.5	17149.9	17657.5	
	50°	15824.6	16214.7	17155.9	17903.9	17403.2	16331.5	16683.6	
	55°	13655.7	14013.7	15032.5	16292.9	16482.6	15330.0	15558.3	
	60°	11584.9	11874.5	12733.5	14125.4	14943.3	14070.7	14261.5	
	65°	9656.4	9893.2	10548.7	11791.6	12995.6	12587.6	12885.8	
	70°	7768.4	7995.8	8557.6	9660.2	10895.7	10940.2	11497.5	
	75°	6346.5	6504.6	6950.6	7890.2	8917.0	9138.8	9994.8	
	80°	5639.7	5715.3	5987.1	6508.8	7119.7	7233.8	8347.6	
	85°	5513.0	5558.7	5670.9	5757.4	5711.4	5450.7	6728.6	

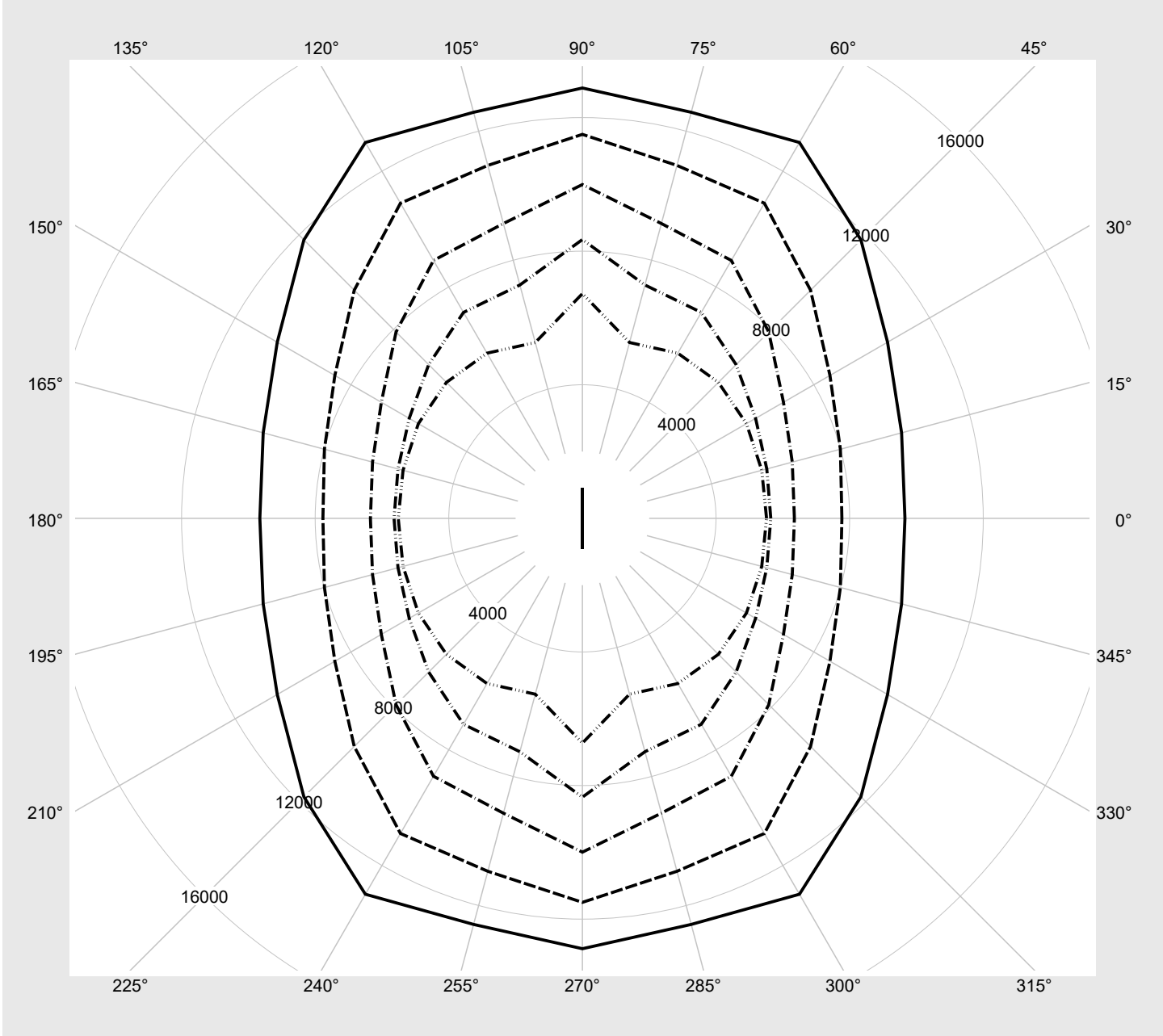
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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



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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]	Power consumption	Power consumption
	1	2	3			[W] end of lifetime	[W] average
1	A	C	E	7640	48.9	55.7	52.3
2	A	C	F	7060	44.6	50.8	47.7
3	A	D	E	6540	40.9	46.5	43.7
4	A	D	F	6070	37.6	42.7	40.2
5	B	C	E	5530	33.9	38.1	36.0
6	B	C	F	5040	30.7	34.4	32.6
7	B	D	E	4550	27.6	30.7	29.2
8	B	D	F	4050	24.5	27.6	26.0