

Photometric test report

Family
DUS® 31



Order number: 53BD812MV485C2
EAN: 4069025185914

Version

diffuser optic, frosted, wide distribution

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG Multilumen

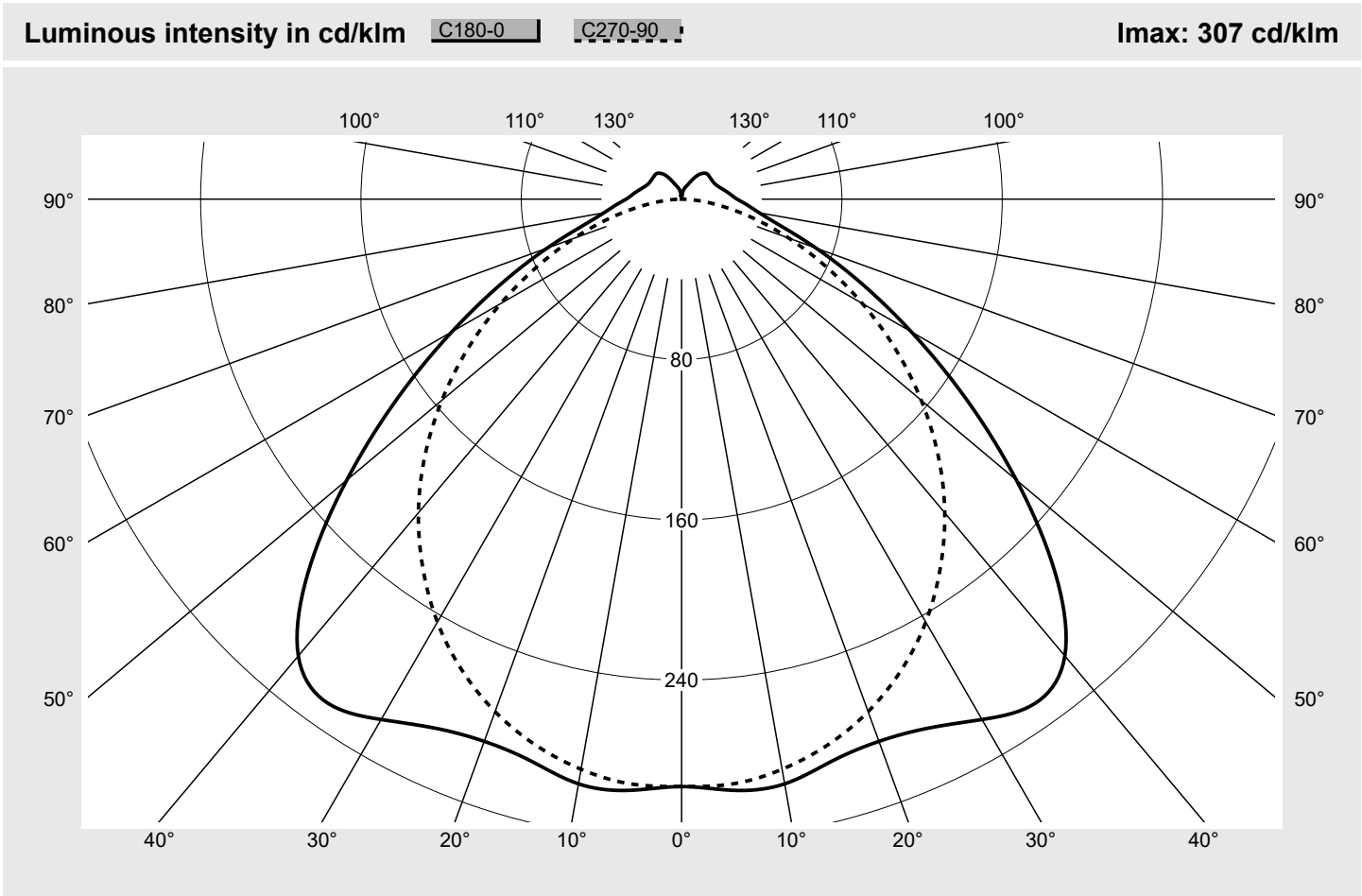
Rated values

Net luminous flux = 8950 lm
Power consumption = 48.2 W
Luminous efficacy = 185.7 lm/W

LP number
59594_86

serial
documentation
16.07.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=47 N2=80 N3=95	ϕ_u	92.6%
	N4=93 N5=100	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
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C- planes	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
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
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	
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	22.4	24.1	22.8	24.4	24.8	22.2	23.9	22.6	24.2	24.5	
	3H	23.3	24.8	23.7	25.1	25.5	23.3	24.9	23.7	25.2	25.6	
	4H	23.6	25.0	24.0	25.4	25.7	23.7	25.2	24.1	25.5	25.9	
	6H	23.9	25.2	24.3	25.6	26.0	24.0	25.3	24.4	25.7	26.1	
	8H	24.1	25.3	24.5	25.7	26.1	24.1	25.3	24.5	25.7	26.1	
	12H	24.2	25.4	24.6	25.8	26.2	24.1	25.3	24.5	25.7	26.1	
4H	2H	23.1	24.5	23.5	24.9	25.2	23.0	24.4	23.3	24.7	25.1	
	3H	24.1	25.3	24.5	25.7	26.1	24.3	25.5	24.7	25.9	26.3	
	4H	24.5	25.6	24.9	26.0	26.4	24.8	25.9	25.2	26.3	26.7	
	6H	24.9	25.8	25.3	26.3	26.7	25.1	26.1	25.6	26.5	27.0	
	8H	25.1	26.0	25.5	26.4	26.9	25.3	26.1	25.7	26.6	27.1	
	12H	25.3	26.1	25.8	26.5	27.0	25.3	26.1	25.8	26.6	27.1	
8H	4H	24.7	25.6	25.2	26.1	26.5	25.0	25.9	25.5	26.4	26.8	
	6H	25.2	26.0	25.7	26.5	27.0	25.5	26.3	26.0	26.7	27.2	
	8H	25.5	26.2	26.0	26.7	27.2	25.7	26.3	26.2	26.8	27.3	
	12H	25.9	26.4	26.4	26.9	27.5	25.8	26.4	26.3	26.9	27.4	
12H	4H	24.8	25.6	25.3	26.0	26.5	25.1	25.9	25.6	26.3	26.8	
	6H	25.3	26.0	25.8	26.5	27.0	25.6	26.2	26.1	26.7	27.2	
	8H	25.7	26.2	26.2	26.7	27.2	25.8	26.4	26.3	26.9	27.4	

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 1514 B = 75	H(C0) = 25 H(C90) = 0	H(C180) = 25 H(C270) = 0
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°
		Luminance in cd/m²						
45°		22039.3	22617.8	23242.8	22857.2	21195.0	19929.5	20189.3
50°		19139.2	19803.8	21166.5	22120.0	20956.7	19094.4	19141.8
55°		16094.5	16685.8	18184.4	20092.8	20096.4	18049.4	17897.8
60°		13222.4	13688.2	14950.6	17115.1	18273.3	16644.7	16417.7
65°		10715.5	11058.5	11983.4	13903.4	15738.4	14865.1	14801.7
70°		8582.9	8874.1	9555.6	11094.4	12996.9	12856.3	13150.4
75°		6917.6	7138.2	7750.7	8991.0	10493.9	10679.3	11414.0
80°		6187.4	6283.3	6652.6	7407.8	8292.1	8388.8	9484.4
85°		6166.0	6210.2	6336.4	6486.0	6548.7	6229.1	7541.4

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Luminance values in cd/m²

γ 65°

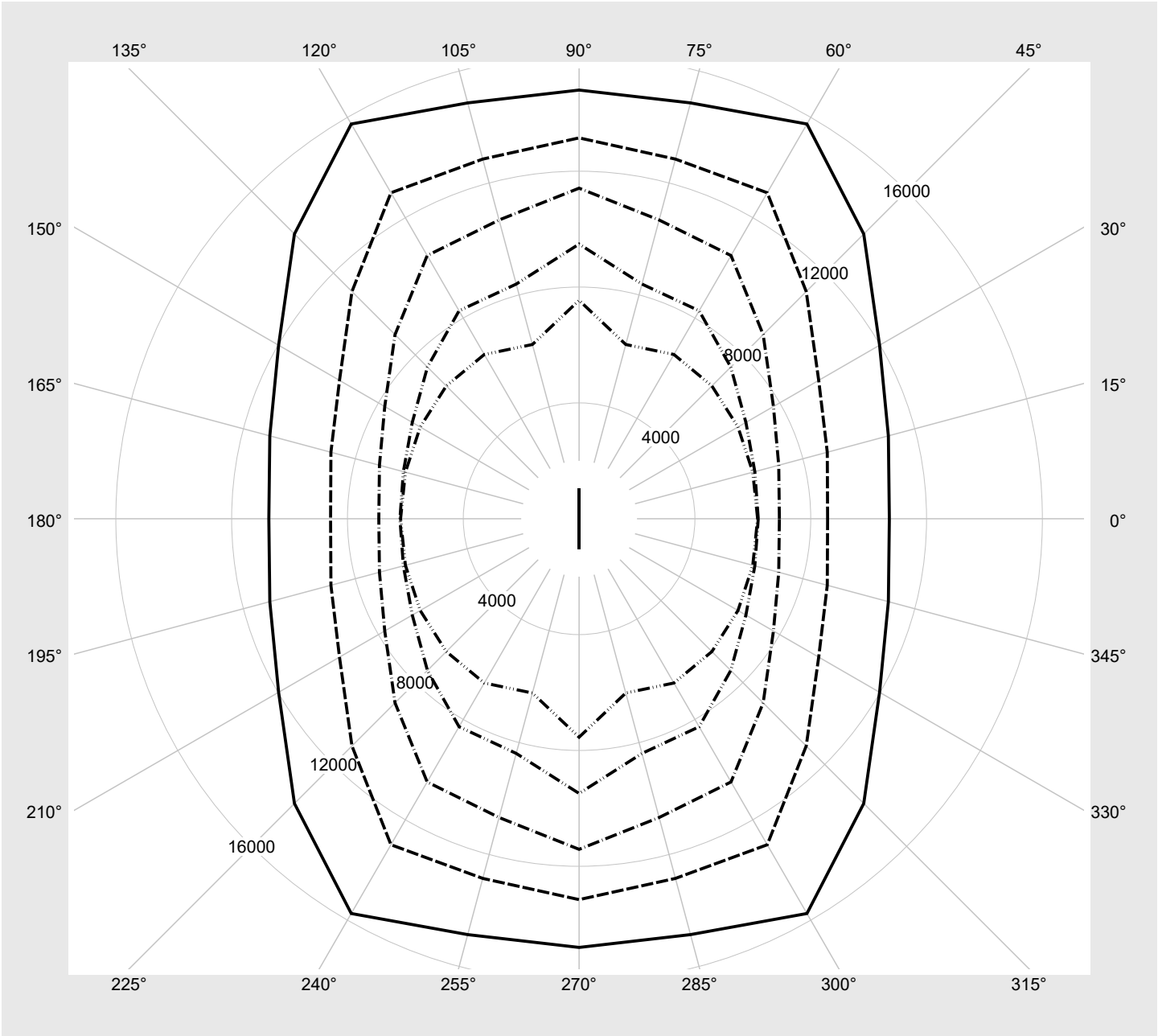
γ 70°

γ 75°

γ 80°

γ 85°

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Family DUS® 31	Order number: 53BD812MV485C2 EAN: 4069025185914	LP number 59594_86
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	8950	48.2
2	A	C	F	8060	43.0
3	A	D	E	7530	40.1
4	A	D	F	7070	37.5
5	B	C	E	6530	34.5
6	B	C	F	6060	32.0
7	B	D	E	5510	29.0
8	B	D	F	5040	26.5