

Photometric test report

Family
DUS® 31



Order number: 53BD812CV6C5D2
EAN: 4069025124340

Version

Lamps

Controlgear

Rated values

diffuser optic, frosted, wide distribution

LED 6500 K | CRI ≥ 80

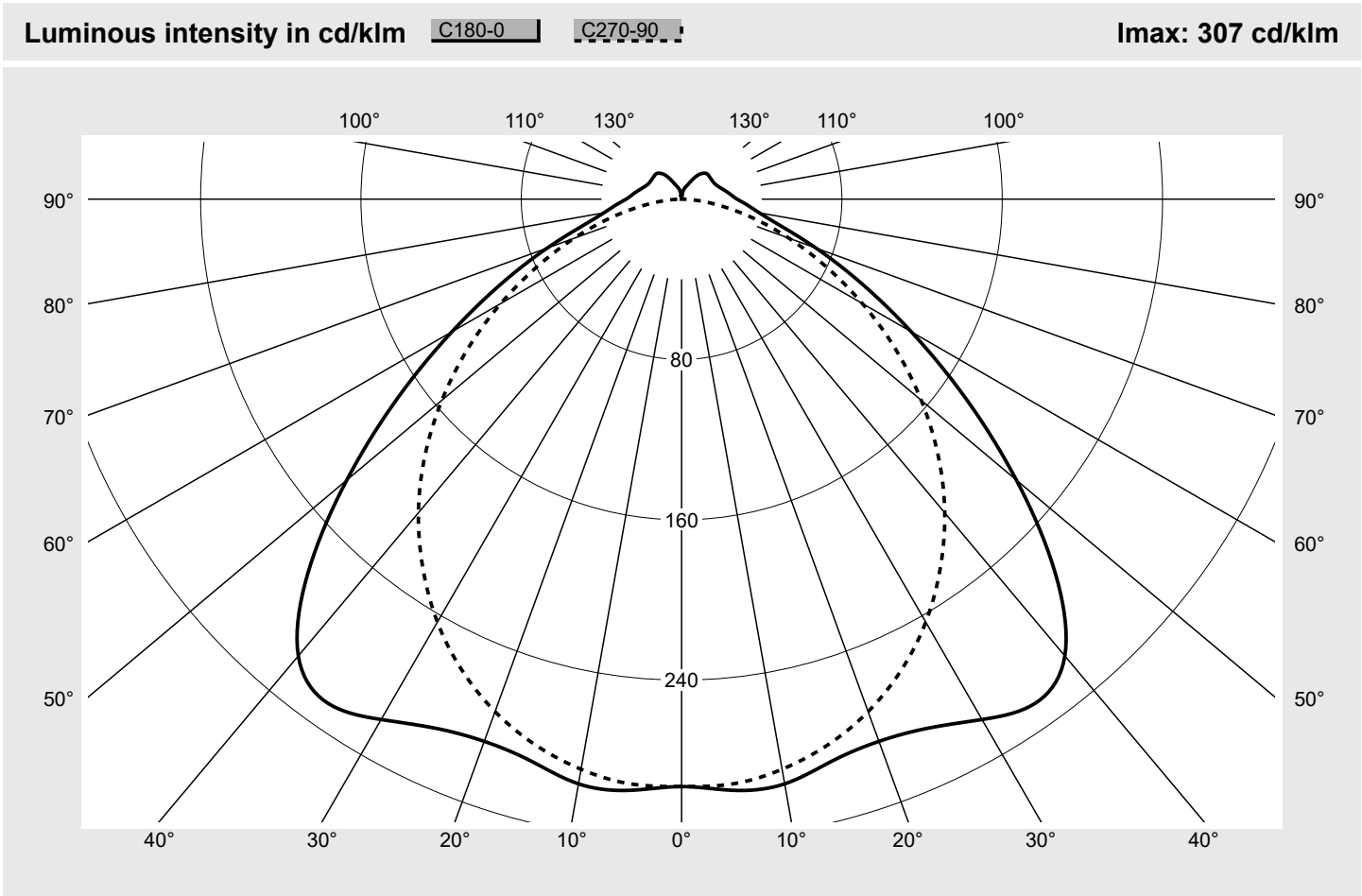
ECG-Multilumen CLOi

Net luminous flux = 12660 lm
Power consumption = 68.5 W
Luminous efficacy = 184.8 lm/W

LP number
59594_85

serial
documentation
07.05.2024

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
		siteco

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	23.6	25.3	24.0	25.6	26.0	23.4	25.1	23.8	25.4	25.7
	3H	24.5	26.0	24.9	26.3	26.7	24.5	26.1	24.9	26.4	26.8
	4H	24.8	26.2	25.2	26.6	26.9	24.9	26.4	25.3	26.7	27.1
	6H	25.1	26.4	25.5	26.8	27.2	25.2	26.5	25.6	26.9	27.3
	8H	25.3	26.5	25.7	26.9	27.3	25.3	26.5	25.7	26.9	27.3
	12H	25.4	26.6	25.9	27.0	27.4	25.3	26.5	25.7	26.9	27.3
4H	2H	24.3	25.7	24.7	26.1	26.4	24.2	25.6	24.6	25.9	26.3
	3H	25.3	26.5	25.7	26.9	27.3	25.5	26.7	25.9	27.1	27.5
	4H	25.7	26.8	26.1	27.2	27.6	26.0	27.1	26.4	27.5	27.9
	6H	26.1	27.0	26.5	27.5	27.9	26.3	27.3	26.8	27.7	28.2
	8H	26.3	27.2	26.7	27.6	28.1	26.5	27.4	26.9	27.8	28.3
	12H	26.5	27.3	27.0	27.8	28.2	26.5	27.3	27.0	27.8	28.3
8H	4H	25.9	26.8	26.4	27.3	27.7	26.2	27.1	26.7	27.6	28.0
	6H	26.5	27.2	26.9	27.7	28.2	26.7	27.5	27.2	27.9	28.4
	8H	26.7	27.4	27.2	27.9	28.4	26.9	27.6	27.4	28.0	28.5
	12H	27.1	27.6	27.6	28.1	28.7	27.0	27.6	27.5	28.1	28.6
12H	4H	26.0	26.8	26.5	27.2	27.7	26.3	27.1	26.8	27.5	28.0
	6H	26.5	27.2	27.0	27.7	28.2	26.8	27.4	27.3	27.9	28.4
	8H	26.9	27.4	27.4	27.9	28.5	27.0	27.6	27.5	28.1	28.6

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° 50° 55° 60°	γ	31175.2	31993.4	32877.5	32332.1	29980.9	28190.8	28558.3
		27072.9	28013.0	29940.6	31289.3	29643.8	27009.5	27076.5
		22766.1	23602.4	25722.3	28421.7	28426.9	25531.4	25316.8
		18703.4	19362.2	21147.9	24209.8	25848.1	23544.4	23223.3
65° 70° 75° 80° 85°	γ	15157.3	15642.6	16950.9	19666.8	22262.4	21027.0	20937.4
		12140.7	12552.6	13516.7	15693.3	18384.5	18185.5	18601.6
		9785.1	10097.1	10963.5	12718.0	14843.9	15106.1	16145.4
		8752.3	8887.9	9410.2	10478.6	11729.4	11866.2	13415.9
		8721.9	8784.5	8963.0	9174.7	9263.3	8811.2	10667.5

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Luminance values in cd/m²

γ 65°

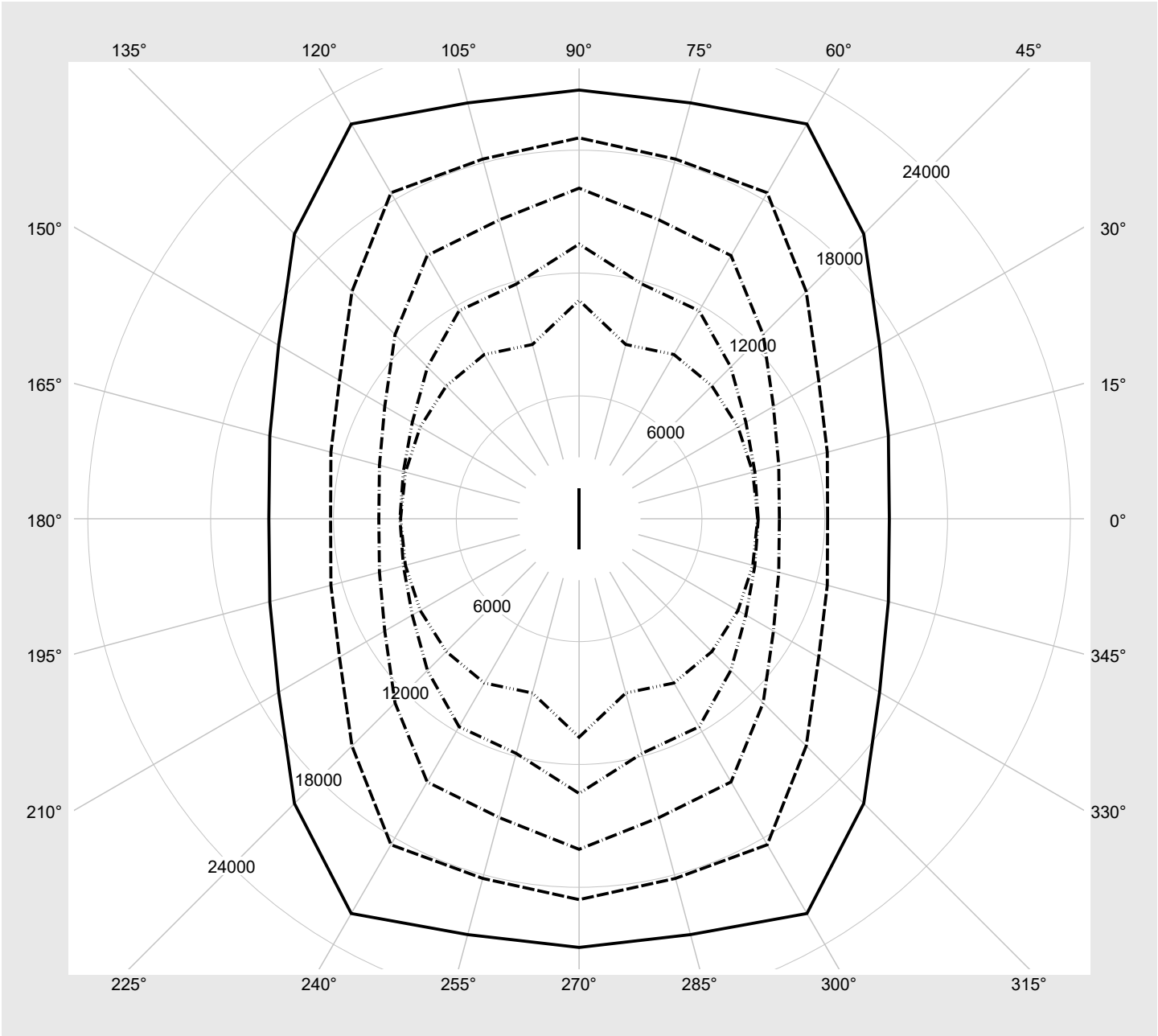
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Family DUS® 31	Order number: 53BD812CV6C5D2 EAN: 4069025124340	LP number 59594_85
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]	Power consumption [W]	Power consumption [W]
	1	2	3			end of lifetime	average
1	A	C	E	12660	68.5	82.3	75.4
2	A	C	F	11840	63.8	76.3	70.0
3	A	D	E	11090	59.5	71.1	65.3
4	A	D	F	10330	55.2	65.9	60.6
5	B	C	E	9570	51.0	60.7	55.8
6	B	C	F	8800	46.7	55.6	51.2
7	B	D	E	8020	42.4	50.5	46.4
8	B	D	F	7320	38.7	45.8	42.2