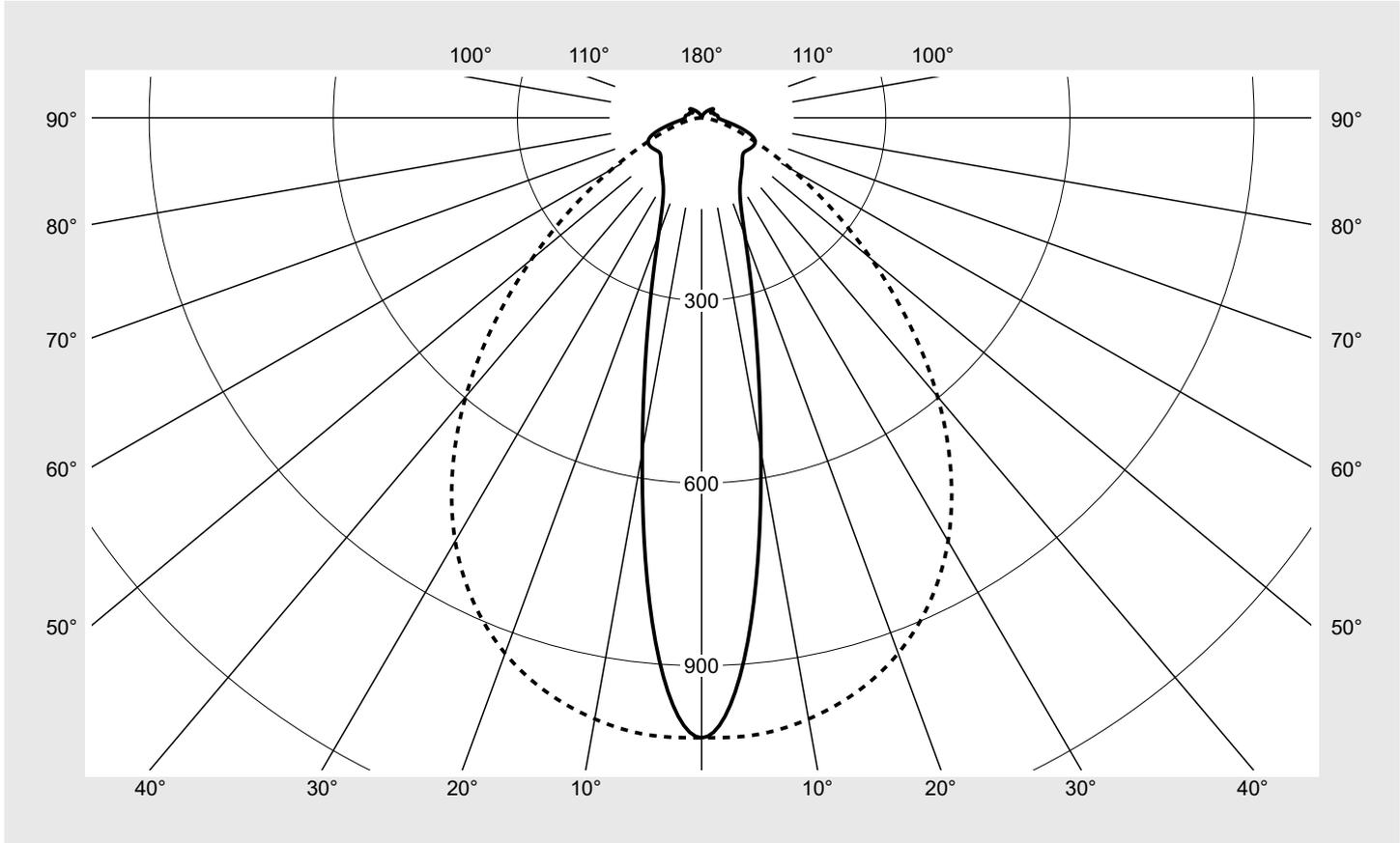


Photometric test report

Family Modario® 31	Order number: 53BM813DV4DXD2D EAN: 4069025180063	LP number 59591_19
	Version diffuser optic, frosted, extremely narrow distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting DC mode (central or group accumulator) initial emergency light level	serial documentation 06.05.2024
	Rated values Net luminous flux = 2080 lm Power consumption = 13.3 W Luminous efficacy = 156.4 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 Imax: 1018 cd/klm



Classifications	
DIN 5040	A 5 1
CIE	N1=62 N2=83 N3=95 N4=93 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	92.8%
ϕ_o	7.2%

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

Family Modario® 31	Order number: 53BM813DV4DXD2D EAN: 4069025180063	LP number 59591_19
Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes γ	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°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	6.1	6.1
5°	863.5	865.5	885.2	926.9	972.5	1004.2	1017.2	44.5	50.6
10°	557.0	571.1	621.3	716.9	841.6	954.3	1002.7	71.2	121.8
15°	330.4	345.0	393.6	498.9	672.6	875.0	976.4	81.3	203.1
20°	206.3	216.3	249.8	333.3	506.8	775.2	936.2	82.9	286.0
25°	149.5	154.3	171.2	225.2	368.7	662.8	878.7	80.9	366.9
30°	125.5	127.4	133.4	162.0	266.2	549.9	803.0	77.8	444.7
35°	112.6	113.0	113.6	126.4	194.4	443.6	707.7	73.4	518.1
40°	102.7	102.5	100.9	105.0	146.7	352.3	598.2	68.0	586.1
45°	93.9	93.4	90.8	90.4	114.5	275.3	478.6	61.4	647.5
50°	89.5	88.3	84.1	80.2	92.6	211.5	361.2	54.7	702.3
55°	91.9	90.0	83.1	75.6	78.1	158.7	256.1	49.4	751.6
60°	95.5	93.6	85.8	74.7	67.8	115.2	168.7	45.0	796.7
65°	96.1	94.0	85.1	70.0	57.9	81.0	104.2	40.4	837.1
70°	87.7	84.6	73.6	58.2	46.6	54.7	61.7	33.7	870.8
75°	66.6	64.7	55.8	44.2	34.3	34.3	34.9	25.1	895.8
80°	45.0	43.9	38.9	31.0	22.7	19.3	17.8	16.8	912.7
85°	31.6	30.7	28.4	21.9	13.8	9.4	6.9	11.2	923.9
90°	27.2	26.2	22.9	14.6	8.5	3.8	0.6	8.2	932.1
95°	26.6	25.3	20.3	12.9	8.9	4.2	0.7	7.8	939.9
100°	25.2	23.4	18.5	13.8	10.2	5.1	0.7	7.5	947.4
105°	21.7	20.9	18.5	15.3	11.2	5.6	0.7	7.3	954.7
110°	21.5	20.8	18.3	14.7	13.6	5.3	0.7	7.2	961.9
115°	18.6	17.5	16.2	18.7	13.7	4.5	0.8	6.6	968.5
120°	17.4	17.9	21.4	21.9	11.5	3.8	0.8	6.8	975.3
125°	23.0	23.5	23.9	18.0	9.5	3.5	0.9	6.8	982.1
130°	22.8	21.9	19.4	14.0	7.3	3.3	1.1	5.5	987.5
135°	18.6	17.4	15.0	10.9	5.5	3.1	1.2	4.0	991.5
140°	14.9	13.8	11.8	8.1	4.5	2.9	1.3	2.9	994.4
145°	11.8	10.9	8.9	6.0	4.0	2.6	1.4	2.0	996.4
150°	8.7	8.0	6.5	4.8	3.6	2.2	1.4	1.4	997.8
155°	6.2	5.8	5.2	4.1	3.2	1.8	1.4	0.9	998.7
160°	5.1	4.8	4.0	3.4	2.7	1.6	1.4	0.6	999.3
165°	4.0	3.9	3.1	2.8	2.0	1.5	1.4	0.4	999.7
170°	3.1	2.7	2.2	1.9	1.6	1.5	1.4	0.2	999.9
175°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.1	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1000.0

Photometric test report

Family Modario® 31	Order number: 53BM813DV4DXD2D EAN: 4069025180063	LP number 59591_19
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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	13.3	14.8	13.7	15.1	15.5	18.3	19.8	18.6	20.1	20.4
	3H	16.1	17.5	16.5	17.8	18.2	19.1	20.4	19.5	20.8	21.1
	4H	17.1	18.4	17.5	18.7	19.1	19.3	20.6	19.7	20.9	21.3
	6H	17.7	19.0	18.1	19.3	19.7	19.5	20.6	19.9	21.0	21.4
	8H	18.0	19.2	18.5	19.5	20.0	19.5	20.6	20.0	21.0	21.4
	12H	18.2	19.3	18.6	19.7	20.1	19.6	20.5	20.0	20.9	21.3
4H	2H	14.2	15.4	14.6	15.8	16.1	18.3	19.6	18.7	20.0	20.3
	3H	17.0	18.1	17.5	18.5	18.9	19.2	20.3	19.6	20.7	21.1
	4H	18.1	19.1	18.6	19.5	20.0	19.5	20.5	19.9	20.9	21.3
	6H	18.9	19.8	19.4	20.2	20.7	19.7	20.6	20.2	21.0	21.5
	8H	19.3	20.0	19.7	20.5	21.0	19.8	20.6	20.3	21.0	21.5
	12H	19.5	20.2	20.0	20.7	21.2	19.8	20.5	20.3	21.0	21.5
8H	4H	18.4	19.2	18.9	19.6	20.1	19.6	20.4	20.1	20.9	21.3
	6H	19.4	20.0	19.9	20.5	21.0	19.9	20.6	20.4	21.0	21.5
	8H	19.7	20.3	20.2	20.8	21.3	20.0	20.6	20.5	21.1	21.6
	12H	20.1	20.6	20.6	21.1	21.7	20.1	20.6	20.6	21.1	21.6
12H	4H	18.4	19.1	18.9	19.6	20.0	19.6	20.4	20.1	20.8	21.3
	6H	19.4	20.0	19.9	20.4	21.0	19.9	20.5	20.4	21.0	21.5
	8H	19.8	20.3	20.3	20.8	21.4	20.1	20.6	20.6	21.1	21.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1476	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°		1871.7	1877.8	1872.9	1943.8	2608.4	6735.0	12717.8	
50°		1871.8	1865.5	1829.7	1829.8	2259.4	5606.8	10556.9	
55°		2040.0	2018.9	1927.2	1853.2	2066.0	4629.8	8388.4	
60°		2275.7	2258.5	2149.8	1993.9	1976.9	3767.5	6341.3	
65°		2491.5	2471.7	2336.8	2068.1	1894.8	3040.6	4634.3	
70°		2515.3	2464.8	2255.4	1939.1	1756.7	2430.1	3391.0	
75°		2155.4	2132.6	1951.6	1706.2	1535.0	1882.9	2534.7	
80°		1683.8	1679.0	1597.1	1437.0	1263.3	1404.0	1920.8	
85°		1417.7	1413.9	1423.7	1277.4	1023.7	1018.6	1488.0	

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

