

Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX37DB49WB
EAN: 4058352892923

LP-Nummer
59284_76



Ausführung Pendelleuchte, Reflektor, weiß, direkt-/ indirekt strahlend, asymmetrisch strahlend

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 9130 lm
Systemleistung = 55.0 W
Lichtausbeute = 166 lm/W

Seriendokumentation
02.08.2023

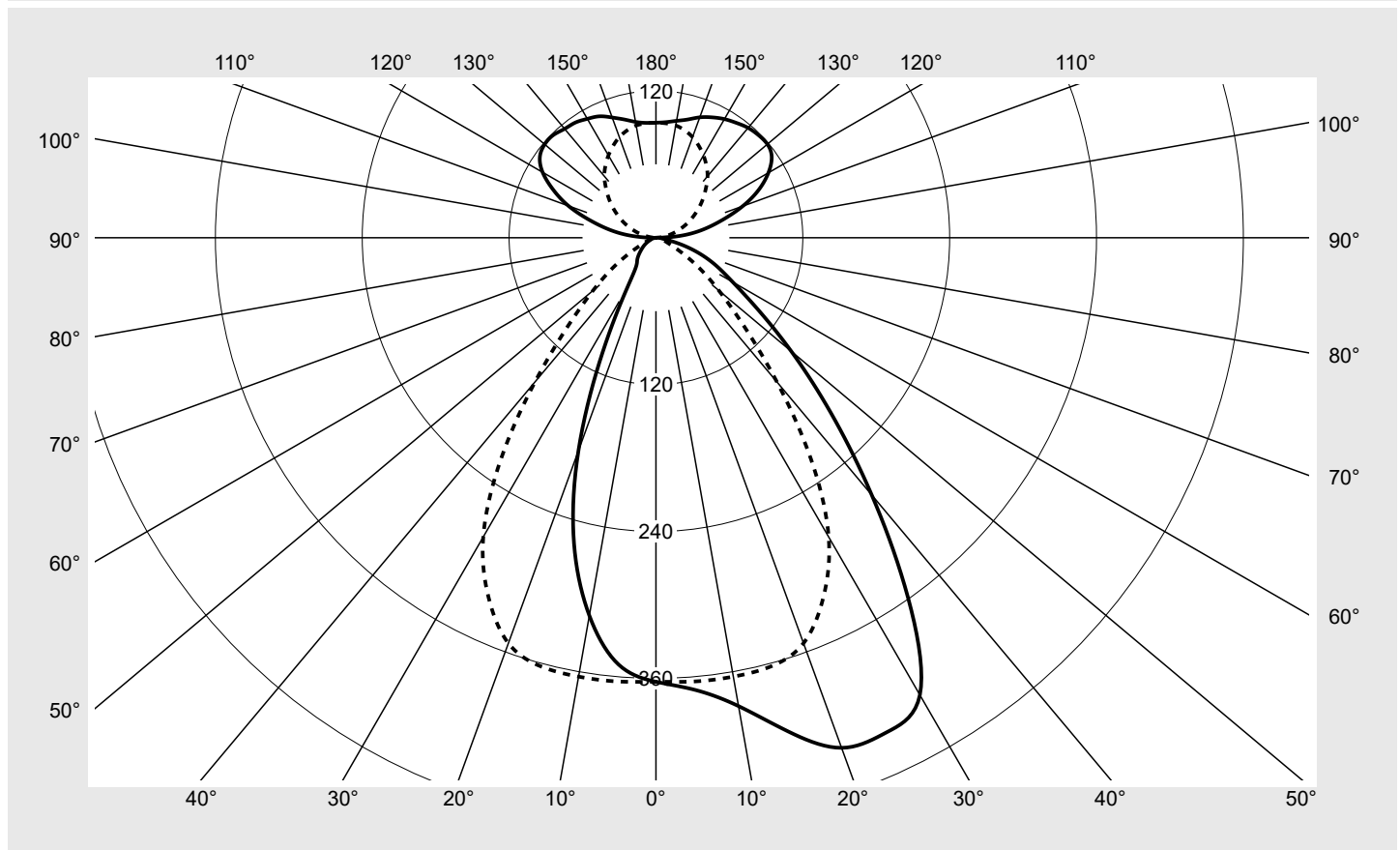
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 452 cd/klm



Klassifizierungen

DIN 5040 C 5 2
CIE N1=71 N2=92 N3=99
N4=59 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 59,0%
 ϕ_o 41,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
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C- Ebenen	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	Lichtstärke in cd/klm						
0°	362.8	362.8	362.8	362.8	362.8	362.8	362.8
5°	370.9	371.6	370.9	369.3	368.9	367.2	363.9
10°	388.6	388.5	387.1	385.7	381.5	371.9	364.1
15°	417.6	422.5	420.8	414.5	399.0	379.0	362.6
20°	443.5	449.9	449.8	438.4	406.1	374.1	352.6
25°	445.9	451.8	444.0	423.3	391.5	349.7	323.9
30°	431.3	429.9	420.1	385.1	347.8	308.2	282.3
35°	359.2	357.5	355.5	331.7	286.9	244.3	220.9
40°	274.3	279.4	286.0	275.4	231.4	180.4	153.7
45°	201.9	208.2	223.0	216.2	179.6	126.4	101.0
50°	144.4	152.7	166.7	164.5	134.4	88.4	67.1
55°	100.9	110.3	125.4	123.1	101.8	61.8	43.4
60°	72.5	78.2	92.0	93.5	77.9	39.9	24.1
65°	54.7	57.3	65.1	70.1	53.6	24.1	12.4
70°	38.2	41.6	47.1	47.8	32.4	14.4	7.5
75°	21.3	25.0	32.7	24.9	16.8	8.6	4.2
80°	7.7	8.6	12.1	11.3	8.4	4.0	2.2
85°	3.8	3.9	4.0	3.3	2.1	1.6	1.4
90°	4.7	4.6	4.9	4.8	2.9	1.0	0.4
95°	22.0	22.5	24.1	22.9	14.6	7.5	3.9
100°	39.5	40.4	40.7	35.9	24.0	13.5	8.9
105°	56.3	57.6	56.5	48.2	33.0	20.4	15.0
110°	75.5	76.2	71.2	59.4	42.4	27.6	21.4
115°	92.7	91.8	84.6	69.6	51.2	34.9	28.6
120°	106.1	104.5	95.4	77.8	59.8	41.9	35.6
125°	115.5	112.5	102.3	85.9	66.7	48.6	43.0
130°	118.9	116.4	105.4	89.8	72.4	55.5	50.4
135°	118.5	116.1	106.5	93.2	76.8	62.2	57.9
140°	117.2	115.0	106.5	95.4	80.4	68.3	65.6
145°	114.6	113.5	107.0	96.5	83.7	73.9	71.9
150°	111.9	111.4	106.1	96.6	86.1	79.3	77.7
155°	108.5	108.5	103.0	95.9	88.2	84.3	82.8
160°	104.7	104.6	99.8	95.1	90.4	87.6	87.5
165°	100.0	99.6	96.8	93.8	91.9	90.5	90.8
170°	97.0	96.1	95.3	93.8	93.1	93.1	93.1
175°	94.8	94.4	93.7	93.5	93.8	93.7	93.8
180°	94.0	94.0	94.0	94.0	94.0	94.0	94.0

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		sITeco

C- Ebenen	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-Zone	Summe Phi-Zone
γ	Lichtstärke in cd/klm						Lichtstrom in lm/klm	
0°	362.8	362.8	362.8	362.8	362.8	362.8	2.2	2.2
5°	361.1	357.7	355.2	351.7	350.7	350.1	17.3	19.5
10°	354.6	345.8	334.7	324.3	315.6	313.4	34.1	53.6
15°	349.2	329.3	304.2	278.4	262.9	258.7	50.4	104.0
20°	331.4	301.7	258.1	215.5	192.6	185.2	63.8	167.8
25°	301.5	254.0	195.2	148.3	115.3	102.8	70.9	238.7
30°	250.8	197.1	132.9	80.9	53.4	46.2	71.4	310.1
35°	183.1	132.2	77.3	40.6	29.9	28.0	64.3	374.4
40°	120.2	80.2	41.8	27.0	24.2	23.8	54.3	428.7
45°	76.8	47.8	25.9	22.0	20.4	20.0	43.9	472.6
50°	49.9	29.0	19.6	18.1	16.6	16.0	34.5	507.1
55°	31.7	19.0	15.4	14.5	13.2	12.7	26.8	533.9
60°	17.1	12.8	11.6	11.2	10.2	9.6	20.2	554.1
65°	9.9	8.8	8.5	8.3	7.4	6.6	14.7	568.8
70°	6.3	5.9	5.8	5.6	5.0	4.4	10.3	579.1
75°	3.7	3.5	3.4	3.5	3.3	3.0	6.3	585.4
80°	2.1	2.0	2.0	2.1	2.0	2.0	2.8	588.2
85°	1.4	1.3	1.4	1.4	1.4	1.4	1.2	589.3
90°	1.0	2.9	4.8	4.8	4.6	4.7	1.9	591.2
95°	7.5	14.6	22.8	24.1	22.5	22.0	9.5	600.7
100°	13.5	23.9	35.5	40.7	40.4	39.1	16.0	616.8
105°	20.5	32.9	48.2	56.4	57.6	56.5	22.2	638.9
110°	27.6	42.2	59.3	71.4	75.9	76.1	27.9	666.9
115°	34.9	51.3	69.7	84.7	91.8	92.6	32.5	699.4
120°	42.0	59.5	78.1	95.7	105.1	106.9	35.7	735.1
125°	48.7	66.8	85.3	102.0	112.4	115.8	37.0	772.1
130°	55.5	71.9	90.3	105.2	115.9	118.7	36.7	808.7
135°	61.7	76.2	93.0	106.5	116.2	118.6	35.0	843.8
140°	67.8	79.8	95.1	107.1	114.8	116.1	32.7	876.4
145°	73.5	83.2	96.5	106.6	113.5	114.9	29.7	906.2
150°	78.9	86.2	96.2	105.0	111.8	112.2	26.2	932.4
155°	83.7	88.3	96.1	102.8	108.8	109.4	22.2	954.6
160°	87.9	89.8	95.3	99.8	104.2	104.5	17.9	972.5
165°	90.9	92.1	94.4	97.4	99.3	100.0	13.4	986.0
170°	93.1	93.4	94.5	95.5	96.0	96.1	9.0	994.9
175°	93.9	93.7	94.0	94.2	94.4	94.2	4.5	999.4
180°	94.0	94.0	94.0	94.0	94.0	94.0	0.6	1000.0

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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	22,2	23,1	23,0	23,9	25,0	17,9	18,9	18,8	19,7	20,8
	3H	22,7	23,5	23,5	24,3	25,4	17,9	18,7	18,8	19,6	20,7
	4H	22,8	23,5	23,7	24,4	25,5	17,8	18,6	18,7	19,5	20,6
	6H	22,7	23,4	23,6	24,3	25,4	17,7	18,4	18,6	19,3	20,4
	8H	22,6	23,3	23,6	24,2	25,4	17,6	18,3	18,5	19,2	20,3
	12H	22,6	23,1	23,5	24,1	25,2	17,5	18,1	18,5	19,0	20,2
4H	2H	22,4	23,2	23,3	24,0	25,1	18,5	19,3	19,4	20,2	21,3
	3H	23,2	23,8	24,1	24,7	25,8	18,7	19,4	19,7	20,3	21,4
	4H	23,4	24,0	24,3	24,9	26,1	18,7	19,3	19,6	20,2	21,4
	6H	23,4	23,9	24,3	24,8	26,0	18,6	19,1	19,6	20,0	21,2
	8H	23,3	23,8	24,3	24,7	25,9	18,6	19,0	19,5	19,9	21,2
	12H	23,3	23,6	24,2	24,6	25,8	18,5	18,9	19,4	19,8	21,0
8H	4H	23,4	23,8	24,3	24,8	26,0	18,9	19,3	19,8	20,2	21,4
	6H	23,4	23,8	24,4	24,8	26,0	18,8	19,2	19,8	20,2	21,4
	8H	23,4	23,7	24,4	24,7	25,9	18,8	19,1	19,8	20,1	21,3
	12H	23,4	23,6	24,4	24,6	25,9	18,7	19,0	19,7	20,0	21,3
12H	4H	23,3	23,7	24,2	24,6	25,8	18,8	19,2	19,8	20,1	21,4
	6H	23,4	23,7	24,4	24,7	25,9	18,8	19,1	19,8	20,1	21,3
	8H	23,4	23,6	24,4	24,6	25,9	18,8	19,0	19,8	20,0	21,3

Leuchtdichten-Tabelle		Lichttechnische Abmessungen in mm: L = 1470 B = 49												
Max. für $\gamma \geq 65^\circ$		0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
C-Ebenen	γ	Leuchtdichte in cd/m ²												
45°	45°	36187.4	37318.7	39976.8	38762.6	32200.7	22658.8	18111.1	13770.2	8562.0	4645.9	3951.9	3663.3	3578.3
50°	50°	28471.6	30102.6	32872.7	32431.6	26502.8	17436.9	13224.9	9839.9	5726.5	3868.3	3566.0	3266.7	3145.2
55°	55°	22300.2	24376.6	27714.4	27196.8	22491.8	13662.7	9582.9	7005.3	4202.9	3395.7	3205.2	2913.3	2797.9
60°	60°	18385.0	19832.0	23325.5	23694.1	19738.2	10126.3	6102.6	4343.3	3252.2	2934.6	2835.5	2579.2	2426.6
65°	65°	16393.5	17185.6	19519.0	21020.7	16072.8	7221.2	3727.4	2956.6	2636.3	2552.6	2492.4	2220.3	1983.4
70°	70°	14151.7	15414.0	17439.7	17696.2	12021.9	5334.4	2778.4	2317.4	2173.9	2138.7	2083.5	1848.6	1619.9
75°	75°	10415.7	12259.0	16004.5	12188.0	8227.5	4197.5	2048.1	1811.5	1729.3	1682.2	1697.9	1604.9	1490.8
80°	80°	5595.7	6268.7	8838.8	8277.5	6108.1	2904.4	1627.8	1508.8	1459.1	1485.4	1524.8	1482.5	1424.1
85°	85°	5561.3	5612.2	5866.7	4845.8	3105.0	2268.7	2009.9	1983.7	1927.0	2005.5	2094.2	2059.3	2018.6

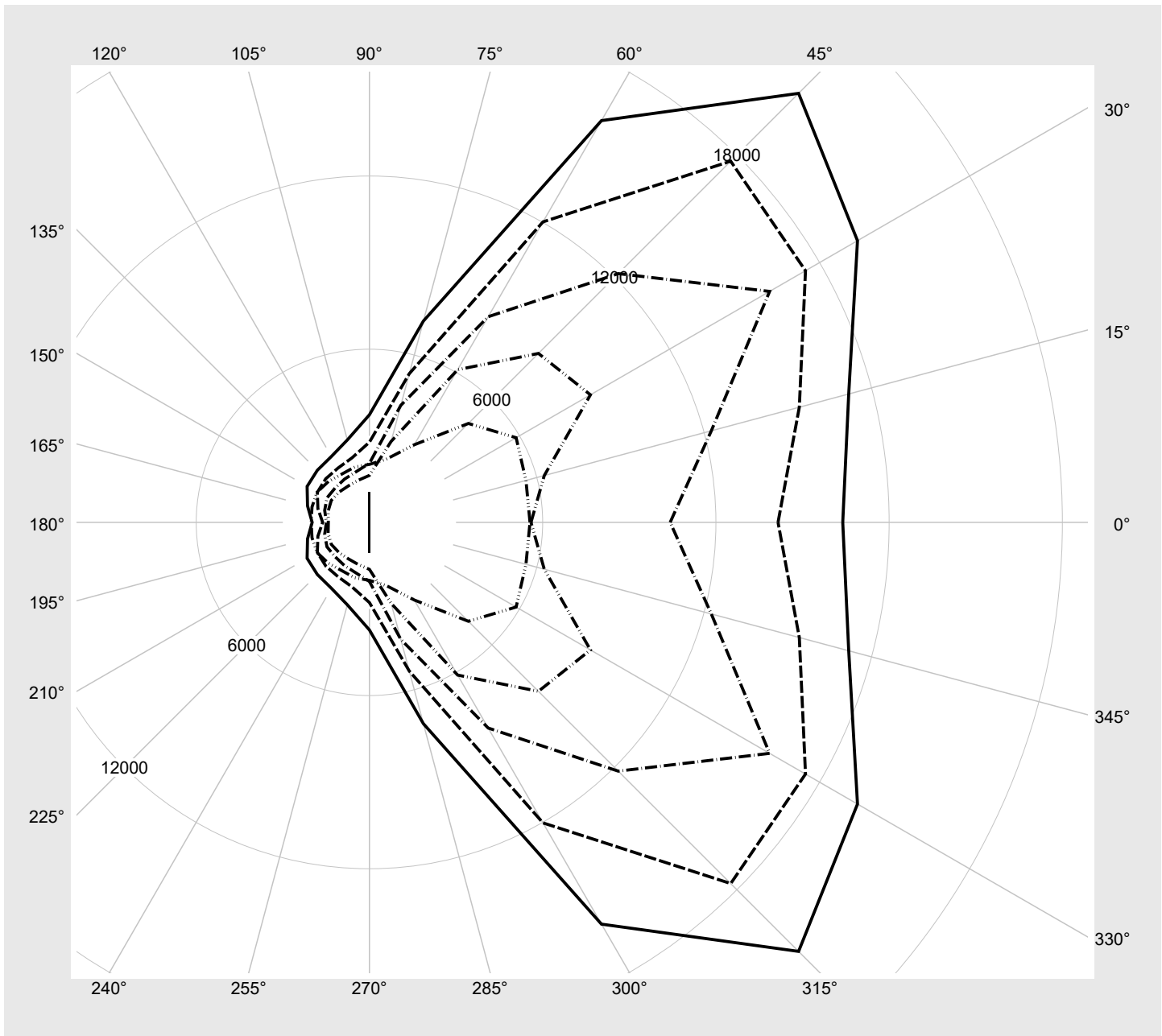
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Leuchtdichten in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	sITeco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	9130	55.0
95	241	252	8688	52.3
90	227	250	8208	49.2
85	214	248	7760	46.4
80	201	245	7307	43.8
75	188	243	6853	41.0
70	175	240	6396	38.3
65	162	238	5936	35.6
60	149	234	5473	32.8
55	136	231	5007	30.2
50	124	228	4575	27.7
45	111	224	4105	25.0
40	99	219	3667	22.5
35	86	214	3191	19.8
30	74	209	2749	17.4
25	61	202	2267	14.7
20	49	194	1820	12.1
15	37	183	1373	9.7
10	25	169	923	7.3
5	13	145	472	5.1
2	6	117	207	4.2