

## Lichttechnischer Prüfbefund

Familie  
Mirrortec® LED



Bestell-Nr.: 5NW14093QA + 5XA7682G3H2AC  
EAN: 4039806568441 + 4058352223734

LP-Nummer  
58022\_12

Seriendokumentation  
16.12.2020

**Ausführung** SMR100A 600x600, 3 St. Einseil-Abhänger,  
FL20 midi power RS5

**Bestückung** LED 5000 K | CRI ≥ 70

**Betriebsgerät** EVG-DALI

**Einstellung** indiv. Einstellung: Abstand Fluter Spiegel =  
1,5m / Spiegelneigung = 5°

**Bemessungswerte** Nettolichtstrom = 34510 lm  
Systemleistung = 305.7 W  
Lichtausbeute = 112.9 lm/W

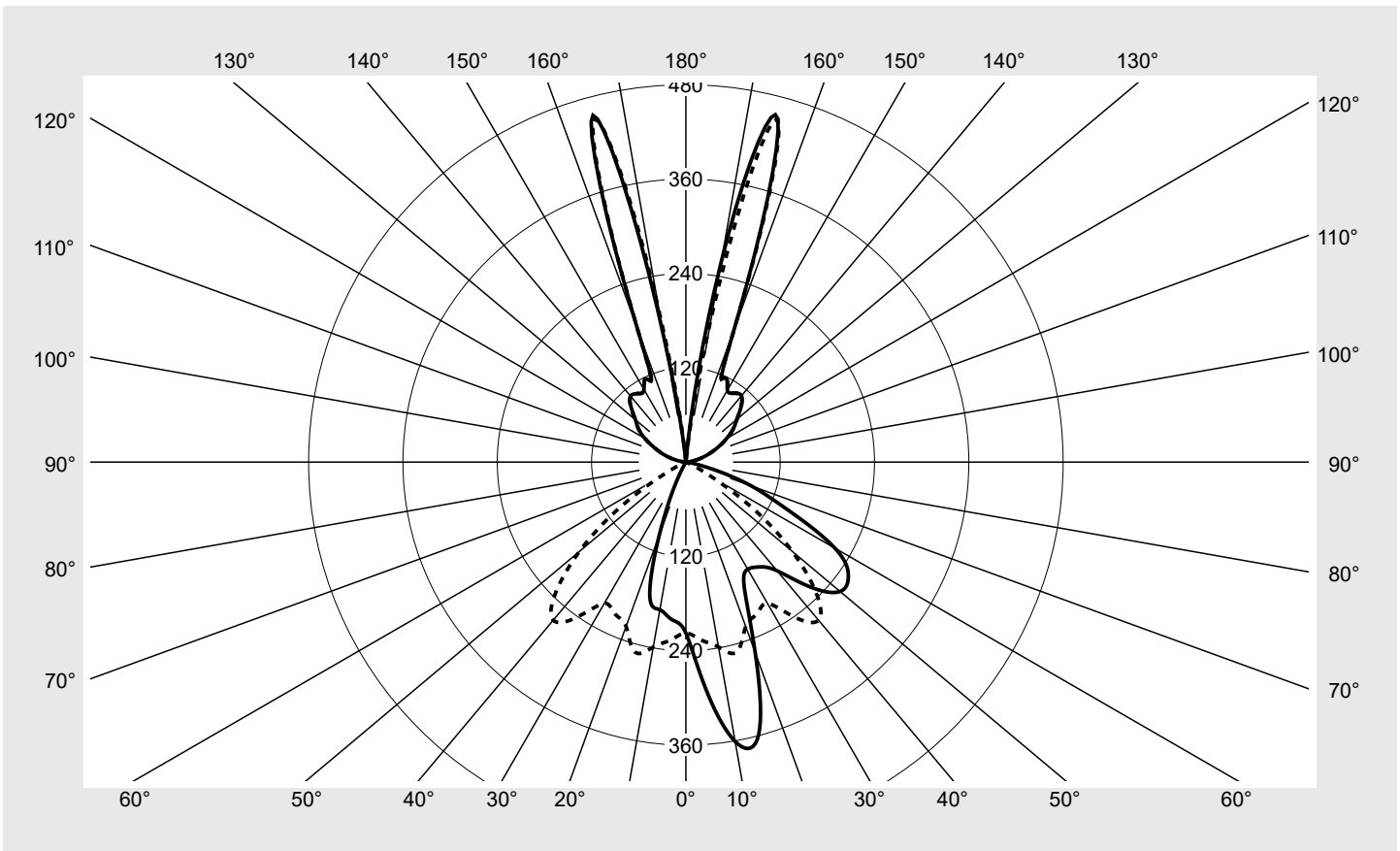
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 457 cd/klm



## Klassifizierungen

DIN 5040 C 4 3  
CIE N1=47 N2=83 N3=98  
N4=58 N5=100

## Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  58,3%  
 $\phi_o$  41,7%

## Messbedingungen

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>siteco</b>

C- Ebenen	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
$\gamma$	Lichtstärke in cd/klm						
0°	217.6	217.6	217.6	217.6	217.6	217.6	217.6
5°	289.3	285.2	282.7	271.5	260.1	243.4	227.4
10°	360.8	346.4	332.1	302.6	262.9	258.0	238.8
15°	358.3	332.6	332.9	299.6	260.4	248.3	250.2
20°	257.8	260.9	269.9	249.8	224.4	223.4	222.5
25°	175.8	169.8	187.7	181.8	184.7	196.6	213.2
30°	157.4	169.0	169.6	171.4	181.0	185.2	207.5
35°	162.8	155.9	174.2	184.2	198.5	215.6	240.5
40°	180.5	191.0	196.3	202.6	221.0	242.5	262.6
45°	225.2	226.1	220.8	246.1	262.3	257.5	233.9
50°	256.1	265.6	267.3	288.7	261.1	188.9	176.6
55°	252.4	270.1	317.6	302.8	206.0	131.1	108.7
60°	219.0	235.5	307.1	283.2	153.9	74.7	40.3
65°	141.5	174.5	256.3	216.4	90.1	35.2	10.0
70°	88.5	100.4	175.8	152.6	39.7	5.6	1.9
75°	36.0	46.3	94.1	76.5	18.1	1.3	0.0
80°	9.5	18.6	43.7	43.8	3.9	0.0	0.0
85°	5.8	5.2	19.5	19.4	1.2	0.0	0.0
90°	0.5	2.7	6.8	8.1	0.7	0.2	0.2
95°	2.8	3.0	3.2	3.0	2.8	2.8	2.8
100°	10.2	10.3	10.2	10.1	10.2	10.2	10.2
105°	20.7	20.9	20.7	20.8	20.7	20.7	20.9
110°	32.3	32.3	32.6	32.3	32.3	32.4	32.3
115°	45.5	45.1	45.6	45.5	45.4	45.4	45.3
120°	59.6	59.9	60.3	60.0	60.0	59.5	60.3
125°	73.6	73.0	72.9	73.7	73.5	72.6	73.3
130°	84.8	85.7	85.6	85.4	85.3	85.3	84.7
135°	99.3	98.9	98.4	98.2	98.2	98.2	99.0
140°	110.0	109.1	108.9	108.9	108.7	108.8	109.1
145°	107.2	106.5	106.6	107.1	105.0	106.7	106.8
150°	105.6	107.0	106.8	106.0	106.1	105.8	105.9
155°	118.3	117.5	117.4	118.8	118.1	117.9	118.0
160°	178.8	178.8	180.1	178.8	179.1	178.1	179.1
165°	451.9	452.9	379.8	219.7	371.7	453.0	451.4
170°	257.7	178.1	38.8	0.0	27.2	136.5	189.1
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
		<b>sitEco</b>

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°	217.6	217.6	217.6	217.6	217.6	217.6	1.3	1.3
5°	227.1	217.4	219.3	209.6	202.4	201.3	11.5	12.8
10°	225.3	219.6	223.6	225.7	215.1	190.7	24.8	37.6
15°	246.6	248.5	230.2	203.1	180.0	177.3	36.7	74.3
20°	254.5	243.9	206.8	144.1	120.3	98.8	40.6	114.9
25°	236.1	213.9	144.4	78.5	40.9	35.5	37.7	152.6
30°	220.2	155.2	76.2	23.2	7.5	3.6	37.6	190.2
35°	213.2	107.7	25.1	2.3	0.1	0.0	41.9	232.1
40°	229.5	67.7	11.8	1.4	0.0	0.0	50.4	282.5
45°	182.8	41.4	6.4	2.2	0.9	0.4	57.9	340.4
50°	113.2	16.6	0.8	0.1	0.0	0.5	59.7	400.1
55°	62.7	3.7	0.0	0.0	0.6	0.0	57.2	457.3
60°	22.4	0.7	0.0	0.1	0.0	0.4	48.6	505.9
65°	5.7	0.1	0.0	0.0	0.0	0.0	35.6	541.5
70°	1.1	0.0	0.2	0.1	0.0	0.0	22.4	563.9
75°	0.1	0.0	0.0	0.0	0.0	0.0	11.2	575.1
80°	0.0	0.0	0.0	0.1	0.0	0.0	5.2	580.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	582.4
90°	0.2	0.2	0.2	0.2	0.2	0.2	0.9	583.3
95°	2.8	2.8	2.8	2.8	2.8	2.8	1.6	584.9
100°	10.1	10.2	10.2	10.2	10.3	10.3	5.5	590.4
105°	20.7	20.7	20.7	20.8	20.8	20.7	11.0	601.4
110°	32.6	32.4	32.4	32.4	32.3	32.7	16.7	618.1
115°	45.7	45.1	45.2	45.3	45.5	45.3	22.5	640.7
120°	59.9	60.0	59.8	59.9	60.2	60.2	28.5	669.1
125°	73.5	73.4	73.9	72.9	73.4	73.8	32.9	702.1
130°	85.8	85.4	84.4	85.6	85.1	83.7	35.8	737.8
135°	99.0	98.8	98.7	98.5	98.8	98.5	38.2	776.1
140°	108.4	108.5	108.4	109.0	109.0	109.6	38.4	814.4
145°	106.7	105.9	106.7	106.7	107.5	106.1	33.5	847.9
150°	106.2	106.7	105.5	106.4	106.8	106.7	29.1	877.1
155°	118.4	117.5	118.8	117.7	117.7	116.6	27.3	904.4
160°	178.5	179.5	179.4	179.8	180.0	179.7	33.6	938.0
165°	455.5	348.2	176.9	341.1	448.5	456.5	53.8	991.8
170°	117.5	18.4	0.0	14.6	101.5	161.2	8.2	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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<b>UGR-Tabelle</b>		<b>Standardraum</b>

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Reflexionsgrad Decke	0,7	0,7	0,5	0,5	0,3	0,7	0,7	0,5	0,5	0,3	
Reflexionsgrad Wände	0,5	0,3	0,5	0,3	0,3	0,5	0,3	0,5	0,3	0,3	
Reflexionsgrad Boden	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	
<b>Raumabmessungen</b>	<b>Blickrichtung quer zur Leuchte (C0)</b>					<b>Blickrichtung längs zur Leuchte (C90)</b>					
x	y										
2H	2H	26,2	27,3	27,1	28,1	29,2	20,5	21,6	21,4	22,4	23,5
	3H	27,9	29,0	28,7	29,7	30,7	21,1	22,2	21,9	22,9	23,9
	4H	27,2	28,1	28,1	29,0	30,1	20,2	21,1	21,1	22,0	23,1
	6H	27,3	28,1	28,1	28,9	30,1	20,2	21,0	21,1	21,9	23,0
	8H	27,1	27,8	28,0	28,7	29,9	20,0	20,7	20,9	21,6	22,8
	12H	27,1	27,8	28,0	28,7	29,9	20,1	20,7	21,0	21,6	22,8
4H	2H	27,1	28,0	28,0	28,8	30,0	22,5	23,3	23,3	24,2	25,3
	3H	28,5	29,2	29,4	30,1	31,2	22,5	23,2	23,4	24,1	25,2
	4H	28,7	29,3	29,6	30,2	31,4	22,4	23,0	23,3	23,9	25,1
	6H	28,8	29,3	29,7	30,2	31,4	22,4	22,9	23,3	23,8	25,0
	8H	28,6	29,1	29,5	30,0	31,2	22,2	22,7	23,1	23,6	24,8
	12H	28,6	29,1	29,6	30,0	31,2	22,2	22,7	23,2	23,6	24,8
8H	4H	28,7	29,2	29,7	30,2	31,4	23,0	23,5	24,0	24,5	25,7
	6H	28,9	29,3	29,8	30,2	31,5	22,9	23,4	23,9	24,3	25,5
	8H	28,9	29,2	29,8	30,2	31,4	22,9	23,2	23,9	24,2	25,5
	12H	28,9	29,2	29,9	30,2	31,4	22,9	23,3	23,9	24,2	25,5
12H	4H	28,8	29,2	29,7	30,2	31,4	23,2	23,6	24,1	24,6	25,8
	6H	29,0	29,3	29,9	30,3	31,5	23,2	23,5	24,1	24,5	25,7
	8H	29,0	29,3	30,0	30,3	31,5	23,2	23,5	24,1	24,4	25,7

<b>Leuchtdichten-Tabelle</b>		<b>Max. für <math>\gamma \geq 65^\circ</math></b>											
		<b>Lichttechnische Abmessungen in mm: L = 600 B = 600</b>											
<b>C-Ebenen</b>	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
$\gamma$	<b>Leuchtdichte in cd/m²</b>												
45°	30531.4	30651.4	29927.2	33368.5	35561.9	34915.0	31709.9	24777.5	5619.2	872.2	300.4	125.4	55.3
50°	38193.5	39612.8	39860.5	43055.7	38934.3	28178.2	26329.8	16883.7	2474.0	116.3	13.9	1.8	75.5
55°	42175.4	45147.3	53078.4	50610.8	34420.3	21906.1	18162.5	10479.1	624.1	0.0	0.0	95.6	0.0
60°	41978.9	45156.1	58885.0	54289.4	29499.0	14327.6	7733.3	4301.9	127.5	0.0	14.0	0.0	71.9
65°	32088.7	39586.9	58125.9	49085.5	20442.5	7973.4	2272.1	1299.3	12.5	0.0	0.0	0.0	0.0
70°	24815.1	28150.7	49259.1	42765.3	11124.6	1562.0	543.2	296.3	0.0	46.0	20.5	0.0	0.0
75°	13331.8	17131.5	34834.1	28316.9	6703.9	474.1	0.0	35.6	0.0	0.0	0.0	0.0	0.0
80°	5238.9	10291.2	24127.6	24202.1	2137.5	0.0	0.0	0.0	0.0	0.0	40.3	0.0	0.0
85°	6429.9	5729.3	21454.3	21361.9	1349.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**Leuchtdichten in cd/m²**

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