

## Lichttechnischer Prüfbefund

Familie  
Mirrortec® LED



Bestell-Nr.: 5NW14093QB + 5XA7682G3H2AC  
EAN: 4039806568465 + 4058352223734

LP-Nummer  
58028\_12

Seriendokumentation  
16.12.2020

**Ausführung** SMR100A 900x900, 3 St. Einseil-Abhänger,  
FL20 midi power RS5

**Bestückung** LED 5000 K | CRI ≥ 70

**Betriebsgerät** EVG-DALI

**Einstellung** indiv. Einstellung: Abstand Fluter Spiegel =  
2,5m / Spiegelneigung = 5°

**Bemessungswerte** Nettolichtstrom = 34640 lm  
Systemleistung = 305.7 W  
Lichtausbeute = 113.3 lm/W

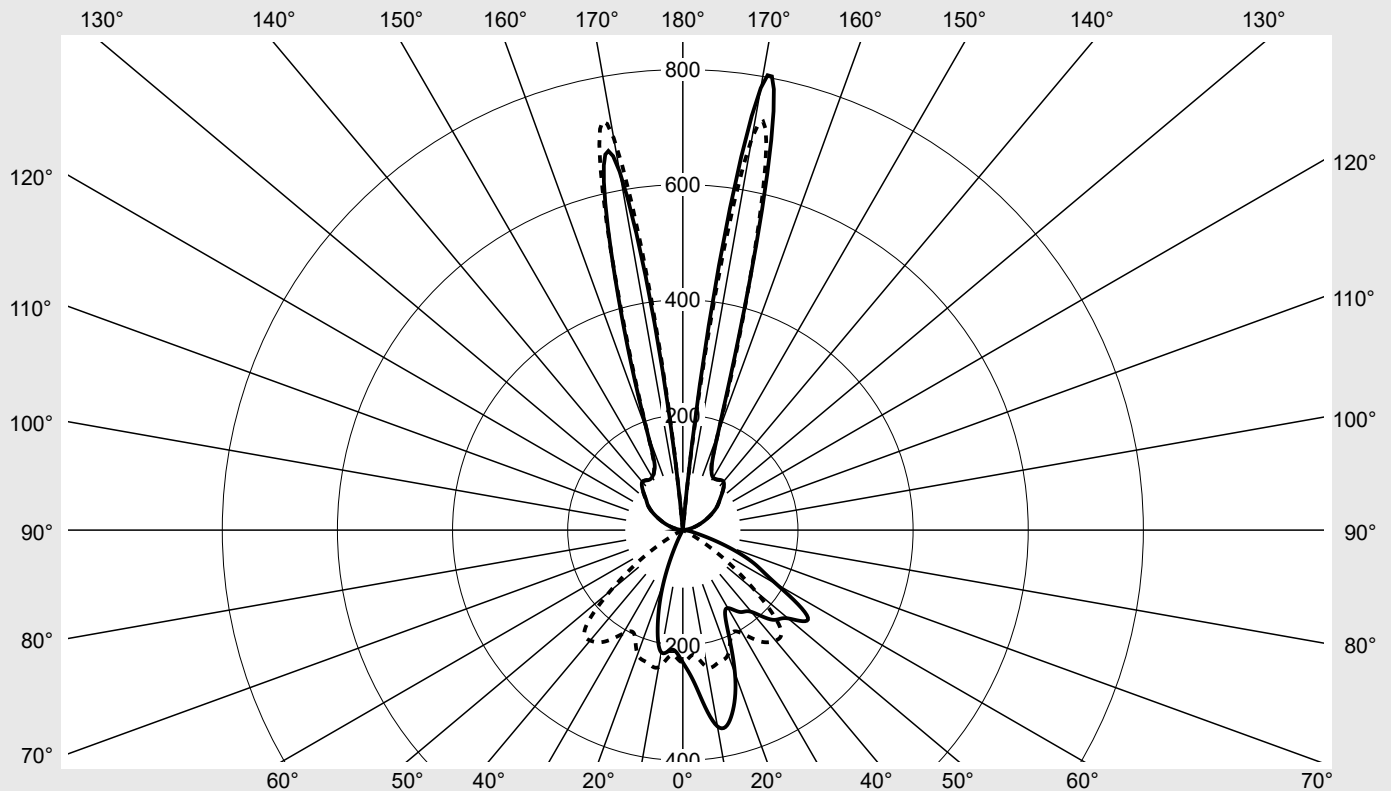
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 780 cd/klm



## Klassifizierungen

DIN 5040 C 4 4  
CIE N1=47 N2=83 N3=98  
N4=55 N5=100

## Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  55,1%  
 $\phi_o$  44,9%

## Messbedingungen

DIN EN 13032 und DIN 5032

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<b>Wertetabelle Lichtstärkemessung</b>		<b>Maximale Lichtstärke</b>
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C- Ebenen	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
$\gamma$	Lichtstärke in cd/klm						
0°	229.8	229.8	229.8	229.8	229.8	229.8	229.8
5°	274.9	272.6	266.1	258.8	249.6	231.4	217.5
10°	346.2	343.2	312.5	290.1	259.7	247.7	241.6
15°	330.4	317.8	312.7	271.0	262.2	247.9	238.3
20°	264.7	245.2	241.5	236.1	209.8	214.5	229.8
25°	179.2	190.6	190.6	186.9	185.5	189.1	199.5
30°	156.3	161.6	151.6	160.1	173.5	174.5	207.6
35°	173.7	163.7	169.7	179.7	185.2	204.7	236.4
40°	185.4	170.5	179.3	193.4	220.1	224.1	250.4
45°	220.3	204.7	207.2	230.8	253.1	243.1	239.0
50°	238.6	248.3	255.6	270.0	225.5	191.2	164.2
55°	265.3	255.0	293.4	299.0	194.2	134.1	90.2
60°	188.0	229.4	301.8	282.9	138.6	64.0	31.7
65°	136.2	163.5	235.7	198.8	73.3	21.2	5.3
70°	78.9	83.8	170.2	137.9	32.3	3.5	0.0
75°	32.3	47.8	82.7	74.4	10.1	0.0	0.0
80°	15.2	15.2	46.3	40.4	2.7	0.0	0.0
85°	3.6	5.5	18.4	15.5	0.5	0.0	0.0
90°	0.2	1.8	5.3	7.4	0.2	0.2	0.2
95°	2.8	3.0	3.5	3.1	2.8	2.8	2.8
100°	10.2	10.3	10.1	10.1	10.2	10.2	10.2
105°	20.7	20.8	20.6	20.7	20.7	20.7	20.9
110°	32.2	32.2	32.5	32.2	32.3	32.3	32.3
115°	45.4	45.0	45.5	45.4	45.3	45.3	45.2
120°	59.4	59.8	60.1	59.9	59.9	59.3	60.1
125°	73.4	72.9	72.7	73.5	73.4	72.5	73.1
130°	84.6	85.5	85.4	85.2	85.1	85.1	84.5
135°	99.1	98.7	98.2	98.0	98.0	97.9	98.8
140°	109.8	108.9	108.6	108.7	108.5	108.5	108.8
145°	107.0	106.3	106.3	106.9	104.8	106.5	106.5
150°	105.4	106.7	106.6	105.7	105.9	105.6	105.6
155°	118.0	117.2	117.2	118.5	117.9	117.7	117.7
160°	178.4	178.4	179.7	178.4	178.6	177.7	178.7
165°	450.8	451.8	446.8	377.6	445.8	451.9	450.3
170°	779.8	611.6	221.5	24.1	186.1	538.0	691.6
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
$\gamma$	Lichtstärke in cd/klm						Lichtstrom in lm/klm	
0°	229.8	229.8	229.8	229.8	229.8	229.8	1.4	1.4
5°	208.4	201.7	194.1	195.5	204.7	208.3	10.9	12.3
10°	231.2	227.0	222.1	217.2	218.9	215.6	24.5	36.8
15°	239.4	249.2	231.3	198.6	180.4	168.0	35.4	72.3
20°	248.3	233.3	200.2	142.4	100.1	99.3	38.8	111.1
25°	218.9	206.8	132.5	62.1	35.0	31.6	36.7	147.8
30°	210.2	151.9	64.2	16.9	3.2	1.3	35.5	183.3
35°	205.5	99.0	21.7	0.6	0.0	0.0	40.7	224.0
40°	202.2	62.7	7.8	0.8	0.0	0.0	47.1	271.1
45°	165.4	32.2	3.7	1.7	0.4	0.0	54.6	325.7
50°	101.1	9.8	0.0	0.2	0.3	0.0	55.5	381.2
55°	52.5	2.1	0.0	0.3	0.0	0.6	54.4	435.6
60°	18.5	0.3	0.0	0.0	0.1	0.1	45.9	481.5
65°	4.0	0.0	0.0	0.0	0.0	0.0	31.9	513.4
70°	0.1	0.0	0.0	0.3	0.0	0.0	20.1	533.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	10.2	543.6
80°	0.0	0.0	0.0	0.0	0.1	0.0	5.0	548.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	550.6
90°	0.2	0.2	0.2	0.2	0.2	0.2	0.7	551.3
95°	2.8	2.8	2.8	2.8	2.8	2.8	1.6	552.9
100°	10.0	10.2	10.2	10.2	10.3	10.3	5.5	558.4
105°	20.7	20.7	20.7	20.7	20.7	20.6	11.0	569.4
110°	32.6	32.3	32.4	32.3	32.3	32.6	16.7	586.0
115°	45.6	45.0	45.1	45.2	45.4	45.2	22.5	608.5
120°	59.8	59.9	59.7	59.8	60.0	60.1	28.4	636.9
125°	73.3	73.2	73.8	72.7	73.2	73.7	32.8	669.8
130°	85.6	85.2	84.2	85.4	84.9	83.5	35.7	705.5
135°	98.8	98.6	98.5	98.3	98.6	98.3	38.1	743.6
140°	108.2	108.3	108.2	108.8	108.8	109.3	38.3	781.9
145°	106.5	105.7	106.4	106.4	107.2	105.8	33.4	815.3
150°	105.9	106.5	105.2	106.2	106.6	106.4	29.1	844.4
155°	118.1	117.2	118.5	117.4	117.4	116.3	27.3	871.6
160°	178.1	179.1	179.0	179.4	179.6	179.3	33.5	905.1
165°	454.4	438.2	335.9	432.5	447.4	455.5	61.3	966.5
170°	493.7	148.0	7.5	140.1	464.9	632.5	33.6	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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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	22,9	23,8	23,7	24,7	25,9	17,0	17,9	17,8	18,8	20,0
	3H	24,8	25,8	25,6	26,6	27,5	17,9	18,9	18,6	19,7	20,6
	4H	23,8	24,6	24,7	25,5	26,7	16,6	17,4	17,6	18,4	19,6
	6H	24,1	24,9	25,0	25,8	26,9	16,9	17,7	17,8	18,6	19,7
	8H	23,6	24,3	24,6	25,3	26,5	16,4	17,1	17,4	18,1	19,3
	12H	24,0	24,6	24,9	25,6	26,7	16,8	17,4	17,7	18,4	19,5
4H	2H	23,7	24,5	24,6	25,4	26,6	19,0	19,7	19,9	20,7	21,9
	3H	25,0	25,7	25,9	26,6	27,8	18,9	19,6	19,9	20,5	21,8
	4H	25,2	25,8	26,2	26,8	28,0	18,8	19,4	19,8	20,4	21,6
	6H	25,6	26,2	26,5	27,1	28,3	19,1	19,7	20,0	20,6	21,8
	8H	25,1	25,6	26,1	26,6	27,8	18,6	19,1	19,6	20,0	21,3
	12H	25,5	25,9	26,4	26,9	28,1	18,9	19,4	19,9	20,3	21,6
8H	4H	25,2	25,7	26,2	26,7	28,0	19,5	19,9	20,4	20,9	22,2
	6H	25,4	25,8	26,4	26,8	28,1	19,4	19,8	20,4	20,8	22,1
	8H	25,4	25,8	26,4	26,8	28,1	19,3	19,7	20,3	20,7	22,0
	12H	25,8	26,1	26,8	27,1	28,3	19,7	20,0	20,7	21,0	22,2
12H	4H	25,6	26,1	26,6	27,0	28,2	19,9	20,4	20,9	21,3	22,6
	6H	25,8	26,2	26,8	27,1	28,4	19,9	20,3	20,9	21,3	22,5
	8H	25,9	26,2	26,8	27,2	28,4	19,9	20,2	20,9	21,2	22,4

Leuchtdichten-Tabelle		Lichttechnische Abmessungen in mm: L = 900, B = 900											
Max. für $\gamma \geq 65^\circ$													
C-Ebenen	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
$\gamma$	Leuchtdichte in cd/m²												
45°	13321.7	12382.7	12531.5	13956.1	15304.4	14700.3	14456.6	10001.5	1947.6	221.5	102.4	22.3	0.0
50°	15871.7	16520.3	17003.6	17960.4	15001.2	12720.2	10925.8	6726.4	654.5	0.0	10.9	16.8	0.0
55°	19784.2	19010.6	21879.0	22293.1	14481.5	10001.5	6721.7	3916.2	158.7	0.0	18.8	0.0	47.4
60°	16083.9	19623.0	25813.2	24194.5	11858.0	5474.1	2713.1	1583.1	21.5	0.0	0.0	6.2	7.9
65°	13777.6	16548.7	23855.0	20112.8	7419.6	2141.5	535.0	407.0	0.0	0.0	0.0	0.0	0.0
70°	9871.4	10475.7	21283.9	17236.7	4036.2	431.5	0.0	10.1	1.3	0.0	31.5	0.0	0.0
75°	5339.3	7904.9	13658.0	12289.0	1667.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3735.8	3750.0	11392.7	9948.1	657.8	0.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0
85°	1778.7	2675.7	9019.6	7599.6	251.2	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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