


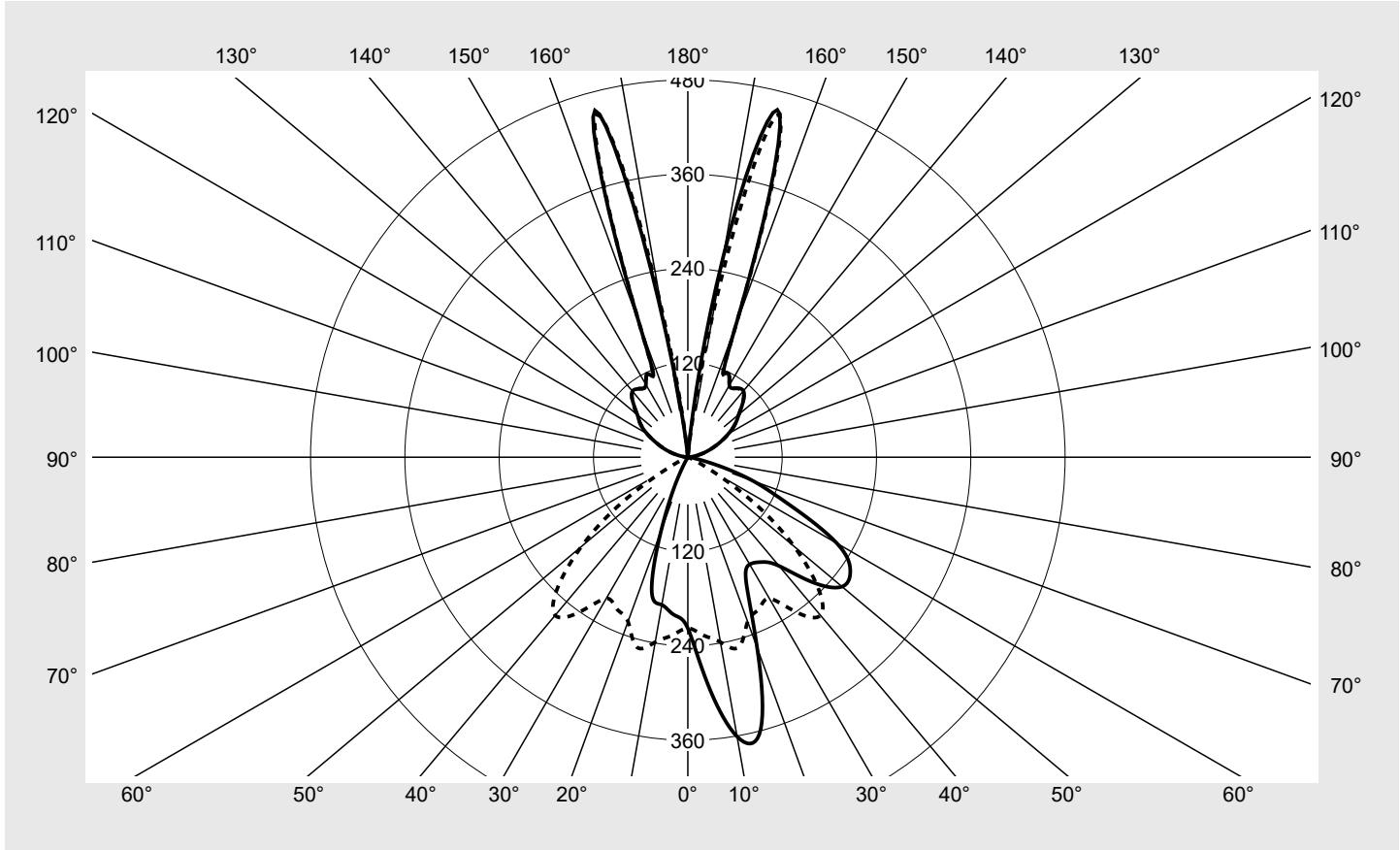


# Photometric test report

<b>Family</b> <b>Mirrortec® LED</b>	<b>Order number: 5NW14091QA + 5XA7682G3H2AC</b> <b>EAN: 4039806588555 + 4058352223734</b>	<b>LP number</b> <b>58022_9</b>
	<b>Version</b> SMR100A 600x600, tubular pendant suspension (342mm), FL20 midi power RS5	<b>serial documentation</b> <b>16.12.2020</b>
	<b>Lamps</b> LED 5000 K   CRI ≥ 70 <b>Controlgear</b> ECG-DALI <b>Setting</b> individual position: distance floodlight mirror = 1,5m / reflector tilt = 5°	
	<b>Rated values</b> Net luminous flux = 34510 lm Power consumption = 305.7 W Luminous efficacy = 112.9 lm/W	

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 457 cd/klm**



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

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	58.3%
$\phi_o$	41.7%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
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C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
$\gamma$	Luminous intensity 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>Table of values for luminous intensities</b>		<b>Maximum luminous intensity</b>
<b>sITeco</b>		

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
$\gamma$	Luminous intensity in cd/klm						Luminous flux 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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UGR-Table		Standard room									
Room dimensions		View crosswise (C0)					View endwise (C90)				
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

Luminance table		Max. for $\gamma \geq 65^\circ$											
		Photometric dimensions in mm: L = 600 B = 600											
C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°
$\gamma$	Luminance in cd/m <sup>2</sup>												
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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**Luminance values in cd/m<sup>2</sup>**

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

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