


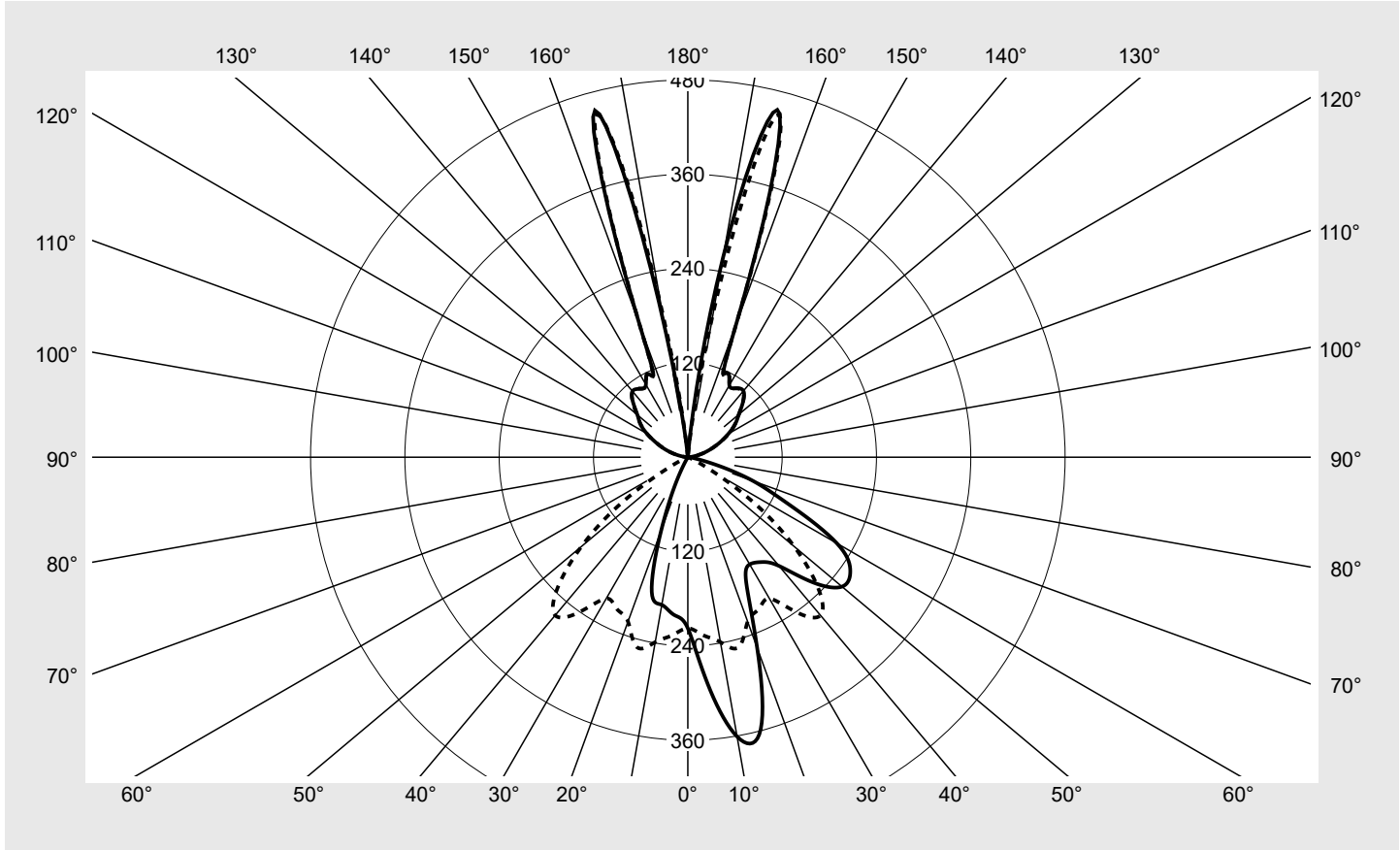


Photometric test report

Family Mirrortec® LED	Order number: 5NW14091QA + 5XA7682G2H2AC EAN: 4039806588555 + 4058352223710	LP number 58022_7
	Version SMR100A 600x600, tubular pendant suspension (342mm), FL20 midi power RS5	serial documentation 16.12.2020
	Lamps LED 4000 K CRI ≥ 70 Controlgear ECG-DALI Setting individual position: distance floodlight mirror = 1,5m / reflector tilt = 5°	
	Rated values Net luminous flux = 33700 lm Power consumption = 305.7 W Luminous efficacy = 110.2 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	
η_{LB}	100.0%
ϕ_u	58.3%
ϕ_o	41.7%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
siteco		

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	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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Table of values for luminous intensities		Maximum luminous intensity
sITeco		

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
γ	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									
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	26.2	27.2	27.0	28.0	29.1	20.5	21.5	21.3	22.3	23.4
	3H	27.9	28.9	28.6	29.6	30.6	21.1	22.1	21.8	22.8	23.8
	4H	27.1	28.0	28.0	28.9	30.0	20.2	21.0	21.0	21.9	23.0
	6H	27.2	28.0	28.1	28.9	30.0	20.1	20.9	21.0	21.8	22.9
	8H	27.0	27.7	27.9	28.6	29.8	19.9	20.7	20.8	21.6	22.7
	12H	27.0	27.7	27.9	28.6	29.8	20.0	20.7	20.9	21.6	22.7
4H	2H	27.0	27.9	27.9	28.8	29.9	22.4	23.2	23.2	24.1	25.2
	3H	28.4	29.1	29.3	30.0	31.2	22.4	23.1	23.3	24.0	25.2
	4H	28.6	29.2	29.5	30.1	31.3	22.3	22.9	23.2	23.8	25.0
	6H	28.7	29.2	29.6	30.2	31.3	22.3	22.8	23.2	23.8	24.9
	8H	28.5	29.0	29.4	29.9	31.1	22.1	22.6	23.0	23.5	24.7
	12H	28.6	29.0	29.5	29.9	31.1	22.1	22.6	23.1	23.5	24.7
8H	4H	28.6	29.1	29.6	30.1	31.3	22.9	23.4	23.9	24.4	25.6
	6H	28.8	29.2	29.7	30.1	31.4	22.9	23.3	23.8	24.2	25.5
	8H	28.8	29.1	29.7	30.1	31.3	22.8	23.2	23.8	24.1	25.4
	12H	28.9	29.2	29.8	30.1	31.4	22.9	23.2	23.8	24.1	25.4
12H	4H	28.7	29.2	29.7	30.1	31.3	23.1	23.5	24.0	24.5	25.7
	6H	28.9	29.2	29.8	30.2	31.4	23.1	23.5	24.1	24.4	25.6
	8H	28.9	29.2	29.9	30.2	31.4	23.1	23.4	24.0	24.3	25.6

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°
γ	Luminance in cd/m ²												
45°	29814.8	29932.0	29224.8	32585.3	34727.3	34095.5	30965.6	24195.9	5487.3	851.8	293.4	122.5	54.0
50°	37297.1	38683.0	38924.9	42045.1	38020.4	27516.8	25711.8	16487.4	2415.9	113.6	13.5	1.7	73.7
55°	41185.5	44087.7	51832.6	49422.9	33612.4	21391.9	17736.2	10233.2	609.4	0.0	0.0	93.4	0.0
60°	40993.6	44096.3	57502.9	53015.2	28806.6	13991.3	7551.8	4200.9	124.5	0.0	13.7	0.0	70.2
65°	31335.6	38657.8	56761.6	47933.4	19962.7	7786.3	2218.8	1268.8	12.2	0.0	0.0	0.0	0.0
70°	24232.6	27489.9	48102.9	41761.5	10863.4	1525.3	530.4	289.3	0.0	44.9	20.0	0.0	0.0
75°	13018.9	16729.4	34016.5	27652.3	6546.5	463.0	0.0	34.7	0.0	0.0	0.0	0.0	0.0
80°	5115.9	10049.6	23561.2	23634.0	2087.3	0.0	0.0	0.0	0.0	0.0	39.4	0.0	0.0
85°	6279.0	5594.8	20950.8	20860.5	1317.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

