

Photometric test report

Family
Mirrortec® LED

Order number: 5NW14091QC + 5XA7682G2H2AC
EAN: 4039806588586 + 4058352223710

LP number
58030_7



Version SMR100A 1200x1200, tubular pendant suspension (652mm), FL20 midi power RS5

Lamps LED 4000 K | CRI ≥ 70

Controlgear ECG-DALI

Setting individual position: distance floodlight mirror = 2,5m / reflector tilt = 5°

Rated values Net luminous flux = 33440 lm
Power consumption = 305.7 W
Luminous efficacy = 109.4 lm/W

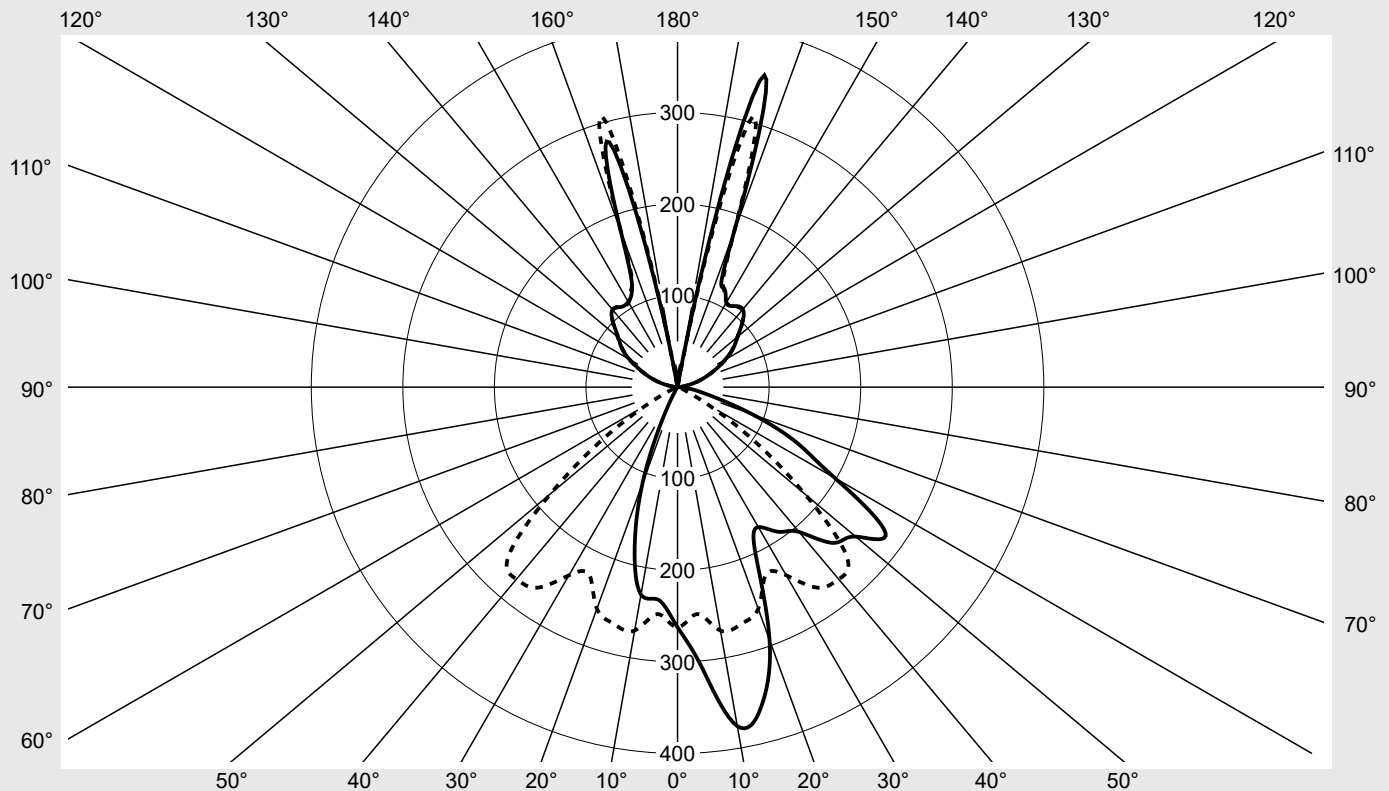
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documentation
16.12.2020



siteco

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

Imax: 376 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=47 N2=83 N3=98
N4=62 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 61.6%
 ϕ_o 38.4%

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°	262.2	262.2	262.2	262.2	262.2	262.2	262.2
5°	307.7	305.5	298.3	290.0	280.8	262.2	248.7
10°	375.8	372.9	340.6	322.0	291.5	276.5	269.9
15°	357.7	345.0	341.0	300.2	291.2	276.4	267.8
20°	293.7	271.2	268.7	261.3	237.1	241.4	257.6
25°	201.9	214.5	215.6	214.2	209.7	214.8	227.0
30°	176.4	180.2	172.6	183.9	200.3	200.7	237.2
35°	192.9	184.6	194.2	203.5	211.8	234.1	267.4
40°	206.4	196.5	206.8	220.5	249.8	250.6	273.7
45°	240.5	228.7	237.5	263.5	278.0	265.8	261.2
50°	253.8	268.1	285.0	301.7	251.3	213.5	181.1
55°	277.3	272.6	317.7	321.4	215.6	148.7	101.9
60°	198.2	246.2	322.7	301.9	155.3	74.5	40.4
65°	144.1	176.4	252.1	213.4	85.1	29.9	11.5
70°	87.4	95.2	183.8	150.4	41.6	9.8	3.9
75°	40.1	57.5	94.8	84.3	17.3	2.9	0.7
80°	20.3	21.5	57.0	47.6	6.7	0.6	0.0
85°	7.6	10.1	24.5	19.7	2.7	0.1	0.0
90°	1.6	4.1	8.3	9.4	0.7	0.2	0.2
95°	3.0	3.1	3.7	3.1	2.8	2.8	2.8
100°	10.3	10.4	10.3	10.2	10.3	10.3	10.3
105°	20.9	21.1	20.9	21.0	20.9	20.9	21.1
110°	32.6	32.6	32.9	32.6	32.6	32.7	32.6
115°	45.9	45.5	46.0	45.9	45.8	45.8	45.7
120°	60.1	60.4	60.8	60.6	60.6	60.0	60.8
125°	74.2	73.7	73.5	74.4	74.2	73.3	73.9
130°	85.6	86.5	86.3	86.1	86.0	86.0	85.4
135°	100.2	99.8	99.3	99.1	99.1	99.0	99.9
140°	111.0	110.1	109.9	109.9	109.7	109.7	110.0
145°	108.2	107.5	107.5	108.1	106.0	107.7	107.7
150°	106.6	107.9	107.8	106.9	107.1	106.8	106.8
155°	119.4	118.5	118.5	119.8	119.2	119.0	119.0
160°	180.4	180.4	181.7	171.8	180.6	179.7	180.7
165°	346.1	288.5	153.4	24.4	140.0	258.9	298.3
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

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°	262.2	262.2	262.2	262.2	262.2	262.2	1.6	1.6
5°	239.8	231.7	222.4	221.5	229.9	233.4	12.3	13.9
10°	259.4	253.9	246.2	235.3	234.1	230.0	27.0	40.9
15°	263.4	270.0	249.5	214.7	193.0	180.9	38.8	79.7
20°	272.0	250.5	216.3	154.9	112.4	111.9	42.9	122.6
25°	239.8	224.3	146.6	73.2	44.4	40.0	41.4	164.0
30°	232.9	170.5	78.5	28.4	11.4	7.4	40.8	204.9
35°	228.4	115.4	32.5	4.2	0.7	0.3	46.5	251.3
40°	217.2	73.6	12.7	1.6	0.0	0.0	53.0	304.4
45°	178.0	43.2	9.6	4.7	1.6	1.3	61.1	365.5
50°	112.8	16.0	1.8	1.1	0.9	0.4	61.6	427.1
55°	60.4	5.7	0.1	0.3	0.0	0.7	59.2	486.3
60°	24.1	1.6	0.0	0.1	0.0	0.0	50.1	536.4
65°	7.7	0.4	0.0	0.0	0.0	0.0	35.1	571.6
70°	2.6	0.1	0.0	0.3	0.0	0.0	22.8	594.4
75°	0.7	0.0	0.0	0.0	0.0	0.0	12.3	606.6
80°	0.1	0.0	0.0	0.0	0.1	0.0	6.5	613.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	615.9
90°	0.2	0.2	0.2	0.2	0.2	0.2	1.1	617.0
95°	2.9	2.8	2.8	2.8	2.8	2.8	1.6	618.6
100°	10.1	10.3	10.3	10.3	10.4	10.4	5.6	624.2
105°	20.9	20.9	20.9	21.0	21.0	20.8	11.1	635.3
110°	32.9	32.7	32.7	32.7	32.6	33.0	16.8	652.1
115°	46.1	45.5	45.6	45.7	45.9	45.7	22.7	674.9
120°	60.5	60.5	60.4	60.5	60.7	60.8	28.7	703.6
125°	74.2	74.1	74.6	73.5	74.0	74.5	33.2	736.8
130°	86.5	86.2	85.2	86.3	85.8	84.5	36.1	772.9
135°	99.9	99.7	99.6	99.4	99.7	99.4	38.6	811.5
140°	109.4	109.5	109.4	110.0	110.0	110.6	38.7	850.2
145°	107.7	106.8	107.6	107.6	108.5	107.0	33.8	884.0
150°	107.1	107.7	106.4	107.3	107.8	107.6	29.4	913.4
155°	119.4	118.5	119.9	118.7	118.7	117.6	27.6	940.9
160°	180.1	181.1	153.9	181.4	181.6	181.3	33.3	974.3
165°	245.8	115.2	7.6	108.6	226.5	267.9	25.7	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	21.7	22.8	22.5	23.6	24.6	16.1	17.2	16.9	18.0	18.9
	3H	23.0	24.0	23.7	24.8	25.7	16.3	17.3	17.0	18.1	19.0
	4H	22.7	23.6	23.5	24.4	25.4	15.8	16.7	16.6	17.5	18.5
	6H	22.4	23.2	23.3	24.1	25.2	15.4	16.2	16.3	17.1	18.2
	8H	22.6	23.4	23.4	24.2	25.3	15.6	16.3	16.4	17.2	18.3
	12H	22.3	23.0	23.2	23.9	25.0	15.3	15.9	16.1	16.8	18.0
4H	2H	22.6	23.5	23.4	24.3	25.3	18.0	18.9	18.8	19.7	20.7
	3H	23.9	24.7	24.7	25.5	26.6	18.0	18.7	18.8	19.6	20.6
	4H	24.2	24.8	25.0	25.7	26.8	17.9	18.5	18.7	19.4	20.5
	6H	23.9	24.5	24.8	25.4	26.6	17.5	18.1	18.4	19.0	20.1
	8H	24.1	24.6	25.0	25.5	26.7	17.6	18.2	18.5	19.1	20.2
	12H	23.8	24.3	24.8	25.2	26.4	17.3	17.8	18.3	18.7	19.9
8H	4H	24.2	24.8	25.1	25.7	26.8	18.6	19.1	19.4	20.0	21.1
	6H	24.5	24.9	25.4	25.8	27.0	18.5	18.9	19.4	19.8	21.0
	8H	24.5	24.9	25.4	25.8	27.0	18.4	18.8	19.3	19.7	20.9
	12H	24.3	24.6	25.2	25.5	26.8	18.1	18.4	19.1	19.4	20.6
12H	4H	23.9	24.4	24.9	25.3	26.5	18.4	18.8	19.3	19.8	21.0
	6H	24.2	24.6	25.2	25.5	26.7	18.4	18.8	19.4	19.7	20.9
	8H	24.3	24.6	25.3	25.6	26.8	18.4	18.7	19.3	19.7	20.9

Luminance table		Max. for $\gamma \geq 65^\circ$											
		Photometric dimensions in mm: L = 1200 B = 1200											
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°	7899.7	7509.4	7800.7	8654.5	9129.4	8730.8	8579.3	5846.0	1417.9	315.9	152.9	51.2	41.1
50°	9170.9	9687.2	10294.5	10899.4	9077.7	7711.6	6542.6	4074.9	578.9	63.9	38.3	31.9	16.0
55°	11226.0	11037.0	12863.5	13012.2	8729.1	6019.0	4125.2	2444.2	231.4	5.5	11.8	0.5	26.4
60°	9207.0	11436.1	14986.0	14023.2	7210.6	3458.7	1876.1	1118.8	75.2	0.6	4.6	1.6	0.0
65°	7917.2	9694.0	13853.5	11726.9	4675.2	1642.1	634.5	421.2	22.4	0.0	0.3	0.0	1.4
70°	5935.6	6463.5	12482.8	10213.9	2824.5	663.4	263.4	178.3	9.9	0.0	17.7	0.0	0.8
75°	3602.0	5159.6	8506.9	7562.8	1548.2	263.5	66.6	58.3	2.9	0.5	0.5	0.0	0.0
80°	2708.9	2880.6	7618.3	6364.1	897.3	85.1	0.0	17.5	0.0	0.0	0.0	9.9	0.0
85°	2024.2	2679.4	6540.7	5241.5	721.5	24.2	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°

