

Photometric test report

Family
Rondel 31

Order number: 51WC10MA32AS
EAN: 4058352616918

LP number
59345_49



Version enclosure, PC, transparent, opal, with presence- and daylightsensor, diffuse beam

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG Multilumen

Rated values Net luminous flux = 2450 lm
Power consumption = 20.4 W
Luminous efficacy = 120.1 lm/W

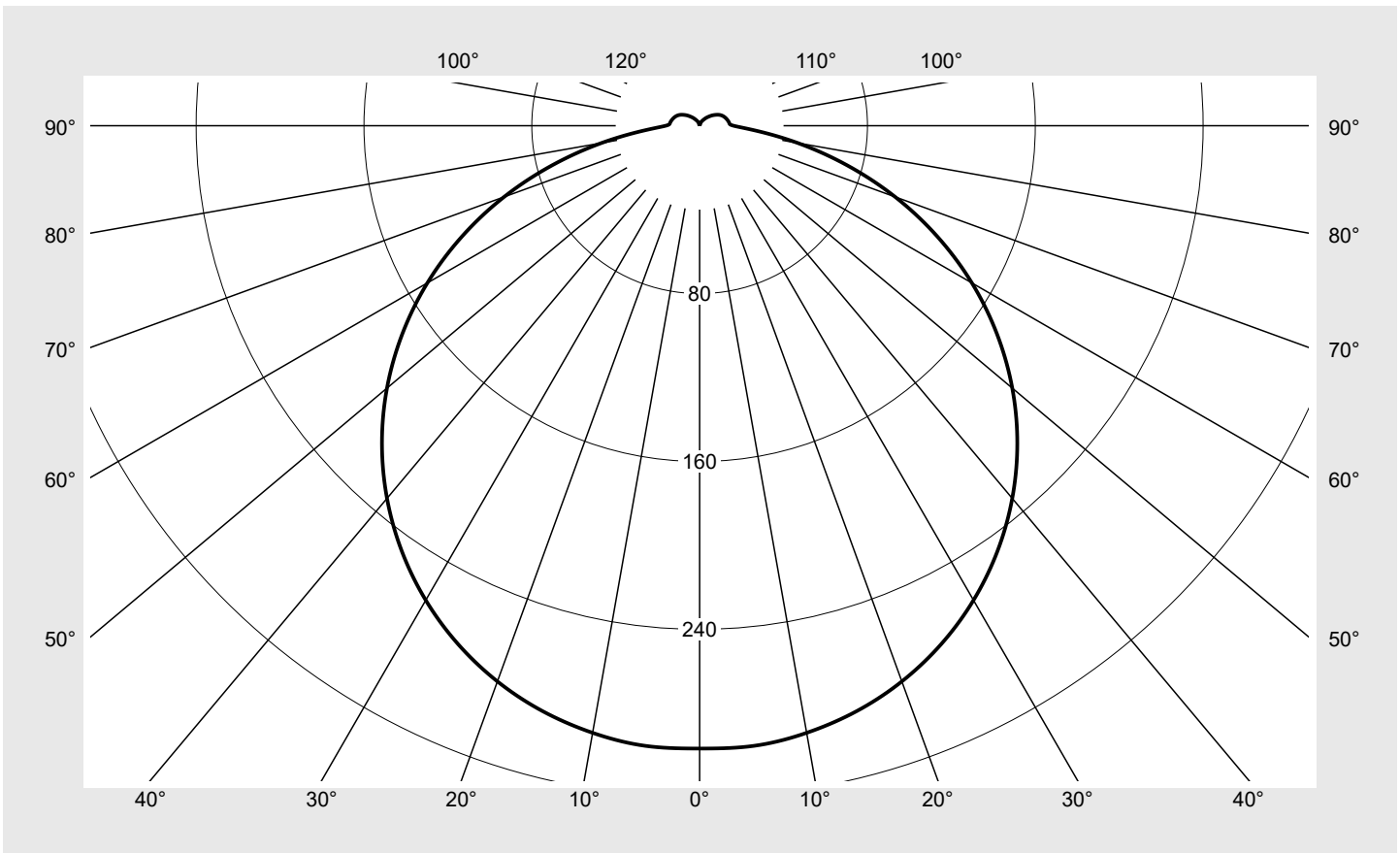
serial
documentation
09.08.2023

siteco

Luminous intensity in cd/klm

C180-0

Imax: 297 cd/klm



Classifications

DIN 5040 A 4 1
CIE N1=44 N2=75 N3=94
N4=94 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 94.2%
 ϕ_o 5.8%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities	Maximum luminous intensity	siteco
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C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0°	296.8	1.8	1.8
5°	296.7	14.2	15.9
10°	293.8	28.0	43.9
15°	288.9	41.0	84.9
20°	281.8	52.8	137.7
25°	272.6	63.1	200.9
30°	261.1	71.6	272.4
35°	247.5	77.8	350.2
40°	231.8	81.7	431.9
45°	214.2	83.0	514.9
50°	194.6	81.7	596.6
55°	173.0	77.7	674.3
60°	149.9	71.1	745.5
65°	125.1	62.1	807.6
70°	99.2	51.1	858.7
75°	72.7	38.5	897.2
80°	47.5	25.7	922.8
85°	26.9	14.7	937.5
90°	16.1	8.8	946.3
95°	14.2	7.7	954.1
100°	13.7	7.4	961.5
105°	13.1	7.0	968.4
110°	12.4	6.4	974.8
115°	11.6	5.8	980.6
120°	10.4	4.9	985.5
125°	9.0	4.0	989.6
130°	7.6	3.2	992.7
135°	6.1	2.4	995.1
140°	4.9	1.7	996.8
145°	3.8	1.2	998.0
150°	2.9	0.8	998.8
155°	2.2	0.5	999.3
160°	1.6	0.3	999.6
165°	1.3	0.2	999.8
170°	1.2	0.1	999.9
175°	1.2	0.1	1000.0
180°	1.2	0.0	1000.0

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UGR-Table	Standard room	siteco
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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	18.9	20.6	19.3	20.9	21.3	18.9	20.6	19.3	20.9	21.3
	3H	20.6	22.2	21.0	22.5	22.8	20.6	22.2	21.0	22.5	22.8
	4H	21.3	22.7	21.7	23.1	23.5	21.3	22.7	21.7	23.1	23.5
	6H	21.8	23.1	22.2	23.5	23.9	21.8	23.1	22.2	23.5	23.9
	8H	22.0	23.3	22.4	23.6	24.0	22.0	23.3	22.4	23.6	24.0
	12H	22.1	23.3	22.5	23.7	24.1	22.1	23.3	22.5	23.7	24.1
4H	2H	19.7	21.2	20.1	21.5	21.9	19.7	21.2	20.1	21.5	21.9
	3H	21.5	22.8	22.0	23.2	23.6	21.5	22.8	22.0	23.2	23.6
	4H	22.3	23.5	22.8	23.9	24.3	22.3	23.5	22.8	23.9	24.3
	6H	23.0	24.0	23.4	24.4	24.9	23.0	24.0	23.4	24.4	24.9
	8H	23.2	24.1	23.7	24.6	25.0	23.2	24.1	23.7	24.6	25.0
	12H	23.4	24.2	23.9	24.7	25.2	23.4	24.2	23.9	24.7	25.2
8H	4H	22.7	23.6	23.2	24.1	24.5	22.7	23.6	23.2	24.1	24.5
	6H	23.5	24.2	23.9	24.7	25.2	23.5	24.2	23.9	24.7	25.2
	8H	23.8	24.5	24.3	24.9	25.4	23.8	24.5	24.3	24.9	25.4
	12H	24.0	24.6	24.5	25.1	25.7	24.0	24.6	24.5	25.1	25.7
12H	4H	22.8	23.6	23.2	24.0	24.5	22.8	23.6	23.2	24.0	24.5
	6H	23.6	24.2	24.1	24.7	25.2	23.6	24.2	24.1	24.7	25.2
	8H	23.9	24.5	24.4	25.0	25.5	23.9	24.5	24.4	25.0	25.5

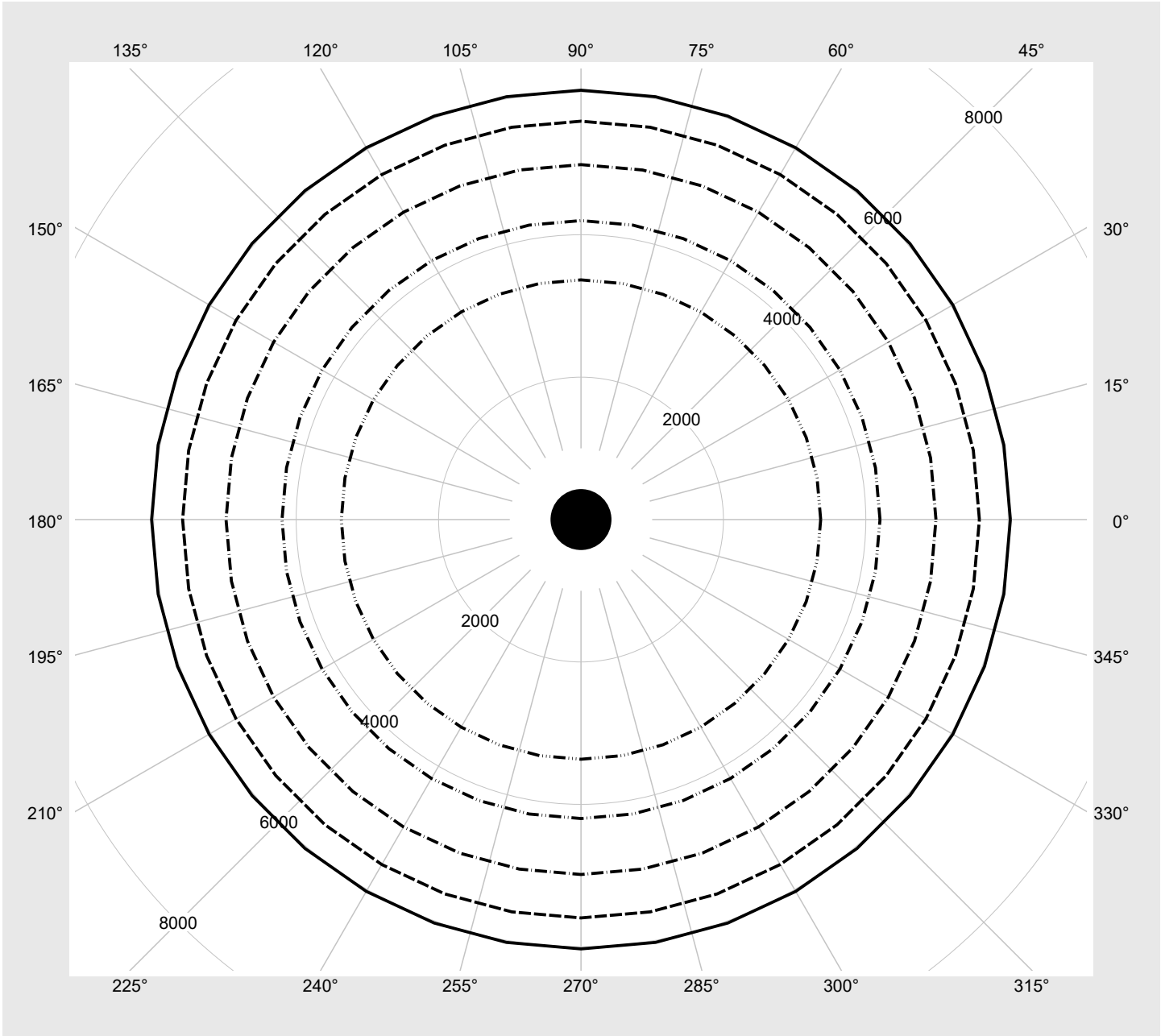
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 350	H(C0) = 32 H(C90) = 32	H(C180) = 32 H(C270) = 32
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C-planes	0°
γ	Luminance in cd/m ²
45°	6908.2
50°	6768.4
55°	6586.6
60°	6351.4
65°	6030.2
70°	5595.0
75°	4985.1
80°	4199.1
85°	3366.3

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°



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Multilumen Table	environmental temperature: 25°C	
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DIP-Step	Switch Setting		Luminous flux [lm]	Power consumption [W]
	1	2		
3	ON	ON	2450	20.4
2	ON	OFF	2280	19.0
1	OFF	ON	2040	17.0
0	OFF	OFF	1800	15.0