

Photometric test report

Family
Apollon® 31 Surface



Order number: 51MP25WD2341E
EAN: 4058352614532

LP number
59344_15

serial
documentation
04.08.2022

Version surface-mounted and suspended luminaire, microprismatic optics, wide distribution, $UGR \leq 19$ ($L65 \leq 3000 \text{cd/m}^2$)

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 3600 lm
Power consumption = 28.0 W
Luminous efficacy = 128.6 lm/W

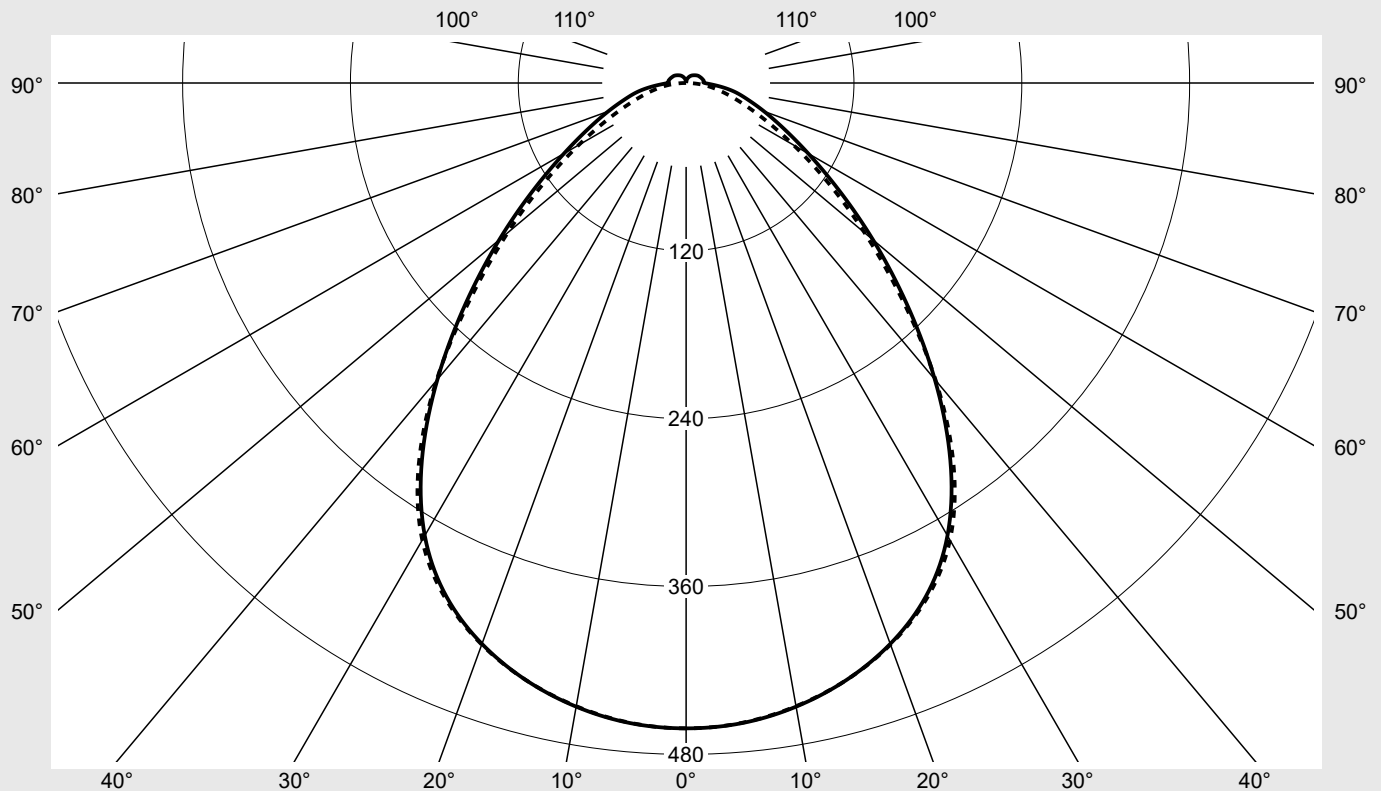
sitEco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 461 cd/klm



Classifications

DIN 5040 A 5 1
CIE N1=61 N2=87 N3=97
N4=97 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 96.9%
 ϕ_o 3.1%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		sITeco

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm							Luminous flux in lm/klm		
0°	461.4	461.4	461.4	461.4	461.4	461.4	461.4	2.8	2.8
5°	459.4	459.1	459.2	459.1	459.1	458.9	459.2	21.9	24.7
10°	452.8	452.3	452.6	452.2	452.5	452.2	452.4	43.1	67.8
15°	442.1	441.3	442.0	441.6	442.2	441.7	442.0	62.7	130.4
20°	426.8	425.8	426.8	426.4	427.3	426.7	427.3	80.0	210.4
25°	405.3	404.1	405.7	405.3	406.7	406.0	406.9	94.0	304.4
30°	373.7	372.1	374.7	374.3	376.6	375.8	377.3	102.7	407.1
35°	329.4	327.4	330.7	330.2	332.9	331.2	333.4	104.0	511.1
40°	276.6	274.1	276.8	275.9	278.9	276.1	277.7	97.4	608.5
45°	222.9	219.6	220.9	219.3	222.4	217.7	218.2	85.3	693.8
50°	174.4	171.2	171.4	169.7	171.1	166.2	166.5	71.4	765.2
55°	133.1	129.8	129.4	127.3	127.2	122.9	123.6	57.2	822.4
60°	100.8	96.8	95.6	92.8	92.4	88.6	88.7	44.4	866.8
65°	76.9	72.2	70.3	66.6	66.9	62.9	62.1	33.8	900.6
70°	59.3	54.7	52.5	48.1	48.7	44.3	43.1	25.7	926.3
75°	45.5	41.8	39.8	34.7	34.7	30.6	29.6	19.3	945.7
80°	34.6	31.6	29.4	23.8	22.7	19.7	19.2	13.9	959.5
85°	22.2	20.2	18.0	13.5	12.3	10.0	9.8	8.2	967.7
90°	13.3	11.8	8.8	5.0	3.4	2.0	1.4	3.5	971.2
95°	12.6	11.5	8.3	4.7	2.9	1.3	1.0	3.2	974.5
100°	12.4	11.4	8.1	4.6	2.9	1.5	0.9	3.2	977.6
105°	11.8	10.9	7.8	4.6	2.9	1.5	0.8	3.0	980.6
110°	11.2	10.3	7.6	4.6	2.9	1.5	0.8	2.8	983.4
115°	10.7	9.8	7.6	4.9	2.9	1.5	0.8	2.7	986.1
120°	10.1	9.4	7.4	5.0	2.9	1.5	0.7	2.5	988.6
125°	9.4	8.7	7.1	4.9	3.0	1.5	0.7	2.3	990.9
130°	8.6	8.0	6.6	4.9	3.0	1.5	0.7	2.0	992.9
135°	7.8	7.3	6.3	4.7	2.9	1.4	0.6	1.7	994.6
140°	7.1	6.7	5.8	4.4	2.8	1.4	0.7	1.5	996.1
145°	6.4	6.1	5.2	4.0	2.7	1.5	0.8	1.2	997.3
150°	5.6	5.3	4.6	3.6	2.5	1.5	1.0	1.0	998.2
155°	4.8	4.5	4.0	3.2	2.2	1.5	1.1	0.7	998.9
160°	3.9	3.7	3.3	2.6	1.9	1.5	1.2	0.5	999.4
165°	3.1	2.9	2.7	2.2	1.8	1.5	1.3	0.3	999.7
170°	2.3	2.3	2.1	1.8	1.6	1.5	1.4	0.2	999.9
175°	1.8	1.7	1.6	1.5	1.5	1.5	1.4	0.1	1000.0
180°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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	15.8	17.3	16.1	17.6	18.0	15.7	17.2	16.0	17.5	17.9
	3H	16.7	18.1	17.1	18.5	18.8	16.4	17.8	16.8	18.1	18.5
	4H	17.2	18.5	17.6	18.9	19.2	16.7	18.0	17.1	18.3	18.7
	6H	17.7	18.9	18.1	19.3	19.7	17.0	18.2	17.4	18.5	18.9
	8H	18.0	19.1	18.4	19.5	19.9	17.1	18.2	17.5	18.6	19.0
	12H	18.2	19.3	18.7	19.7	20.1	17.2	18.2	17.6	18.6	19.0
4H	2H	16.2	17.5	16.5	17.8	18.2	16.1	17.4	16.5	17.7	18.1
	3H	17.3	18.4	17.7	18.8	19.2	17.0	18.1	17.4	18.5	18.9
	4H	17.9	18.9	18.4	19.3	19.7	17.4	18.4	17.9	18.8	19.2
	6H	18.6	19.4	19.0	19.9	20.3	17.8	18.6	18.2	19.1	19.5
	8H	18.9	19.7	19.4	20.1	20.6	17.9	18.7	18.4	19.2	19.6
	12H	19.2	19.9	19.7	20.4	20.9	18.1	18.8	18.6	19.2	19.7
8H	4H	18.1	18.9	18.6	19.3	19.8	17.6	18.4	18.1	18.9	19.3
	6H	18.9	19.6	19.4	20.0	20.5	18.1	18.8	18.6	19.3	19.8
	8H	19.3	19.9	19.8	20.4	20.9	18.4	18.9	18.9	19.4	19.9
	12H	19.8	20.2	20.3	20.7	21.3	18.6	19.0	19.1	19.5	20.1
12H	4H	18.1	18.8	18.6	19.3	19.8	17.7	18.4	18.2	18.8	19.3
	6H	19.0	19.5	19.5	20.0	20.5	18.2	18.8	18.7	19.3	19.8
	8H	19.4	19.9	20.0	20.4	21.0	18.5	19.0	19.0	19.5	20.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1236	H(C0) = 13	H(C180) = 13
			B = 200	H(C90) = 0	H(C270) = 0

C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
	45°	4310.2	4255.2	4306.3	4318.9	4436.6	4409.8	4493.9	
	50°	3667.7	3608.8	3638.2	3645.0	3731.1	3692.1	3773.2	
	55°	3092.3	3023.4	3039.8	3032.4	3085.2	3048.2	3137.1	
	60°	2639.9	2543.8	2536.5	2504.7	2547.2	2508.6	2582.1	
	65°	2326.5	2192.8	2160.3	2090.3	2155.2	2091.5	2140.8	
	70°	2142.1	1984.7	1935.7	1817.8	1903.9	1804.5	1835.0	
	75°	2061.1	1905.4	1852.6	1665.2	1740.4	1621.4	1664.2	
	80°	2118.3	1956.5	1869.6	1581.6	1607.4	1508.7	1608.4	
	85°	2123.7	1960.8	1828.7	1481.4	1498.1	1406.6	1639.2	

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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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