Photometric test report

Family
Apollon® 21

Order number: 51MQ13WD2M55
EAN: 4069025468604

LP number
59881_1

serial documentation
30.10.2025

Version	recessed luminaire, square, wide distribution, UGR≤22, adjustable color temperature: 3000 K | 4000 K
Lamps	LED 4000 K | CRI ≥ 80
Controlgear	ECG-DALI
Setting	factory setting: DIP-Step=8, colour temperature 4000K
Rated values	Net luminous flux = 2030 lm Power consumption = 16.3 W Luminous efficacy = 124.5 lm/W

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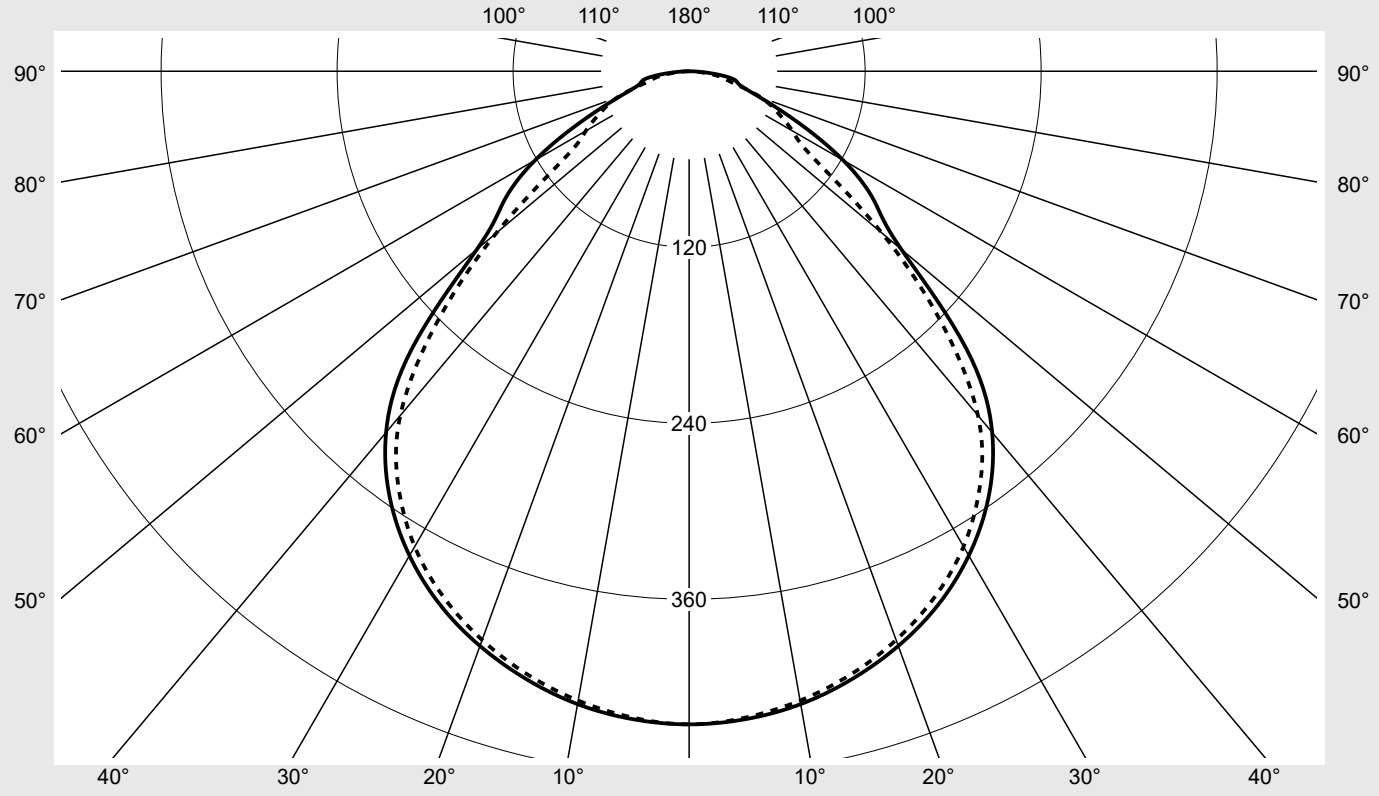
Luminous intensity in cd/klm

C180-0 C270-90

Imax: 445 cd/klm



Classifications

DIN 5040	A 5 0
CIE	N1=60 N2=88 N3=97 N4=100 N5=100

Luminaire light output ratios

ηLB	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities

Maximum luminous intensity

C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	445.3	445.3	445.3	445.3	445.3	445.3	445.3	2.7	2.7
5°	443.4	443.2	443.0	442.7	442.4	442.3	442.3	21.2	23.8
10°	438.1	437.6	437.1	436.6	436.3	436.0	435.7	41.6	65.4
15°	429.0	428.5	427.9	427.1	426.3	426.0	425.8	60.6	126.0
20°	417.0	416.0	415.1	414.2	413.4	412.9	412.6	77.7	203.7
25°	401.5	400.5	399.4	398.1	396.9	396.2	395.8	92.3	295.9
30°	381.3	380.1	378.8	377.1	375.5	374.7	374.2	103.4	399.4
35°	355.6	353.5	351.6	350.0	348.6	347.1	345.6	110.1	509.5
40°	321.4	318.2	315.4	314.0	312.5	309.7	306.4	110.6	620.1
45°	267.1	261.2	255.3	255.4	255.4	249.9	244.3	99.0	719.1
50°	188.8	184.0	179.2	182.7	186.3	178.9	171.6	76.4	795.5
55°	154.0	131.3	108.5	131.4	154.3	129.3	104.2	58.7	854.1
60°	121.2	102.0	82.9	97.9	112.9	97.1	81.4	47.0	901.1
65°	80.8	75.8	70.8	70.3	69.8	68.2	66.6	35.5	936.6
70°	50.4	53.0	55.6	48.5	41.4	46.7	52.0	25.5	962.1
75°	35.5	36.8	38.2	35.4	33.0	31.9	31.3	18.4	980.5
80°	30.5	27.0	23.6	24.9	26.3	24.0	21.8	13.7	994.1
85°	14.0	12.1	10.2	10.0	9.8	9.0	8.2	5.6	999.8
90°	0.7	0.6	0.4	0.3	0.3	0.2	0.2	0.2	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	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	0.0	1000.0
180°	0.0	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	19.7	21.3	20.0	21.6	21.9	19.5	21.1	19.9	21.4	21.7
	3H	20.6	21.9	20.9	22.3	22.6	20.3	21.7	20.6	22.0	22.3
	4H	20.9	22.2	21.3	22.5	22.9	20.6	21.9	20.9	22.2	22.6
	6H	21.3	22.5	21.7	22.9	23.3	20.8	22.0	21.2	22.4	22.8
	8H	21.6	22.7	22.0	23.1	23.5	21.0	22.1	21.4	22.5	22.9
	12H	21.7	22.8	22.2	23.2	23.6	21.0	22.1	21.5	22.5	22.9
4H	2H	20.1	21.4	20.5	21.7	22.1	19.9	21.2	20.3	21.6	21.9
	3H	21.1	22.2	21.6	22.6	23.0	20.8	21.8	21.2	22.2	22.6
	4H	21.6	22.6	22.0	23.0	23.4	21.2	22.1	21.6	22.6	23.0
	6H	22.2	23.0	22.6	23.5	23.9	21.6	22.5	22.1	22.9	23.3
	8H	22.5	23.2	22.9	23.7	24.1	21.8	22.6	22.3	23.0	23.5
	12H	22.7	23.3	23.2	23.8	24.3	21.9	22.6	22.4	23.0	23.5
8H	4H	21.8	22.6	22.3	23.0	23.5	21.4	22.2	21.9	22.6	23.1
	6H	22.5	23.1	23.0	23.6	24.1	22.0	22.7	22.5	23.1	23.6
	8H	22.8	23.4	23.3	23.9	24.4	22.3	22.8	22.8	23.3	23.8
	12H	23.1	23.6	23.6	24.1	24.6	22.4	22.9	22.9	23.4	23.9
12H	4H	21.8	22.5	22.3	23.0	23.5	21.5	22.1	21.9	22.6	23.1
	6H	22.5	23.1	23.1	23.6	24.1	22.1	22.6	22.6	23.1	23.7
	8H	22.9	23.4	23.4	23.9	24.4	22.4	22.9	22.9	23.4	23.9

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: L = 231, B = 234

C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	14185.0	13872.1	13559.3	13561.9	13564.5	13270.1	12975.7
50°	11029.5	10748.9	10468.4	10676.6	10884.9	10454.0	10023.1
55°	10085.3	8594.5	7103.7	8604.3	10104.7	8464.9	6825.1
60°	9100.9	7662.8	6224.9	7350.6	8476.2	7293.3	6110.4
65°	7181.7	6737.0	6292.4	6245.3	6198.3	6056.5	5914.9
70°	5533.8	5820.1	6106.6	5326.7	4546.9	5129.5	5712.0
75°	5149.5	5343.4	5537.4	5134.7	4793.3	4635.6	4539.1
80°	6596.3	5844.7	5093.4	5386.7	5679.9	5195.0	4709.9
85°	6022.6	5201.8	4380.5	4293.0	4205.5	3862.5	3519.1

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

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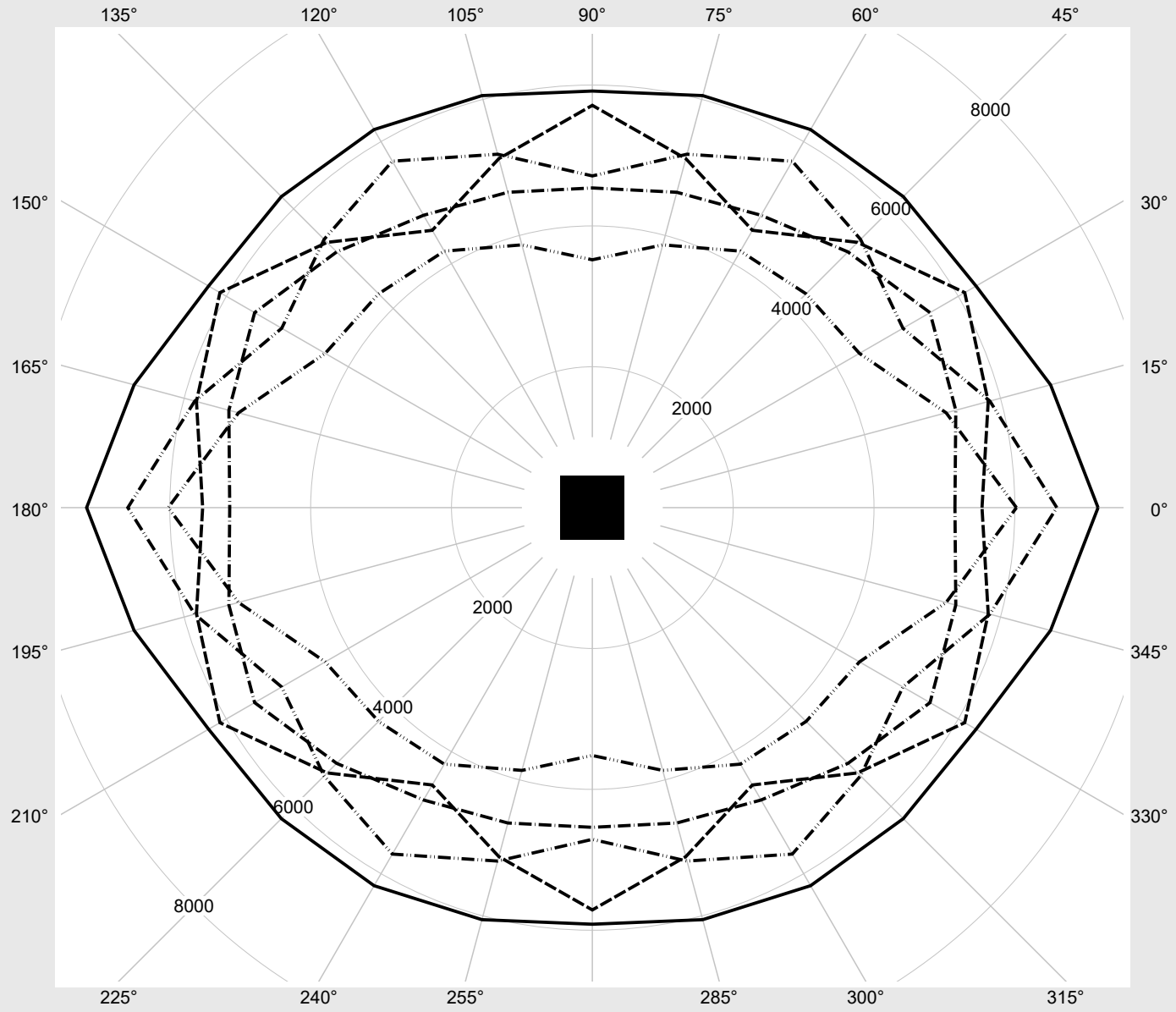

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Multilumen Table

environmental temperature: 25°C

DIP-Step	Switch Setting 1	2	3	4	Luminous flux [lm]	Power consumption [W]
0	OFF	OFF	OFF	OFF	3400	28.0
1	ON	OFF	OFF	OFF	3110	25.6
2	OFF	ON	OFF	OFF	2850	23.3
4	OFF	OFF	ON	OFF	2600	21.0
7	ON	ON	ON	OFF	2340	18.7
8	OFF	OFF	OFF	ON	2030	16.3
10	OFF	ON	OFF	ON	1750	14.0
12	OFF	OFF	ON	ON	1600	12.8
13	ON	OFF	ON	ON	1450	11.6
14	OFF	ON	ON	ON	1370	10.9