Photometric test report

Family
Apollon® 21

Order number: 51MQ11HC2L55
EAN: 4069025336156

LP number
59879_3

serial documentation
30.10.2025

Version	recessed luminaire for lay-in mounting, square M625, wide distribution, UGR≤19 (L65≤3000cd/m²), adjustable color temperature: 3000 K | 4000 K
Lamps	LED 4000 K | CRI ≥ 90
Controlgear	ECG-DALI
Setting	factory setting: DIP-Step=7, colour temperature 4000K
Rated values	Net luminous flux = 4960 lm Power consumption = 32.5 W Luminous efficacy = 152.6 lm/W

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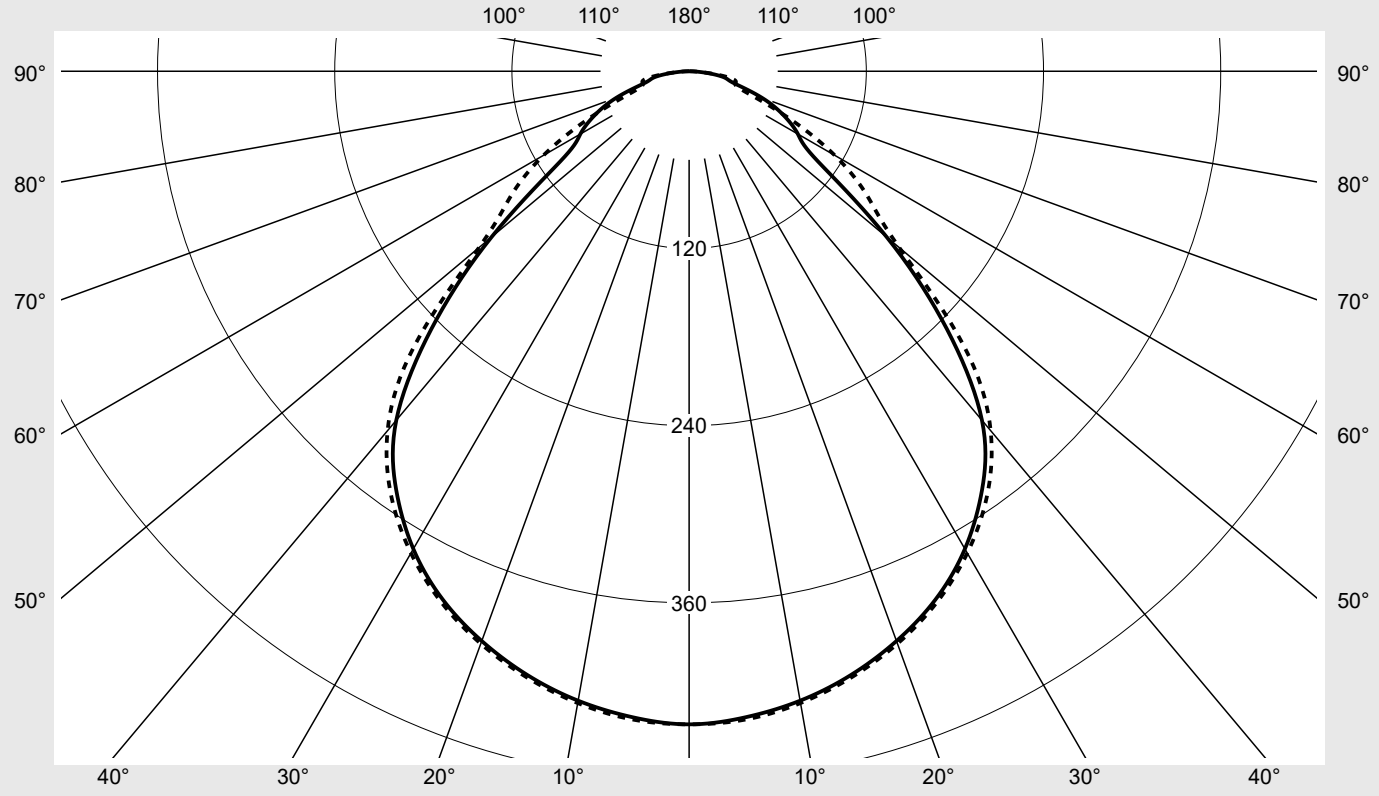
Luminous intensity in cd/klm

C180-0 C270-90

Imax: 442 cd/klm



Classifications

DIN 5040	A 5 0
CIE	N1=59 N2=87 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°	442.3	442.3	442.3	442.3	442.3	442.3	442.3	2.6	2.6
5°	439.1	439.5	440.0	440.2	440.5	440.5	440.7	21.0	23.7
10°	432.8	433.3	433.7	434.2	434.3	434.4	434.5	41.3	65.0
15°	423.3	423.6	424.0	424.3	424.5	424.7	424.9	60.2	125.2
20°	410.6	411.0	411.4	411.7	412.0	412.2	412.5	77.2	202.3
25°	394.7	395.1	395.4	395.8	396.1	396.5	396.9	91.7	294.0
30°	373.5	374.2	375.0	375.6	376.0	376.4	376.8	102.9	396.9
35°	345.9	347.0	348.2	349.1	350.1	350.8	351.6	109.7	506.6
40°	308.5	310.2	312.0	313.6	315.1	316.3	317.7	110.4	617.0
45°	246.9	250.2	253.9	256.8	259.4	261.1	263.2	99.3	716.3
50°	174.7	176.6	178.6	180.5	182.3	184.0	185.7	75.7	792.0
55°	106.6	116.0	127.0	134.7	140.6	143.2	147.5	59.0	851.0
60°	85.1	89.8	94.5	99.3	104.1	109.0	113.8	47.2	898.2
65°	70.6	72.1	73.5	74.9	74.3	73.7	73.1	36.5	934.7
70°	52.4	53.4	54.3	55.3	50.3	45.2	40.1	26.2	960.8
75°	31.6	34.9	38.1	41.4	38.4	35.4	32.4	19.4	980.2
80°	24.2	24.2	24.3	24.3	26.2	28.0	29.8	13.9	994.1
85°	10.7	10.3	9.9	9.6	10.4	11.2	12.1	5.7	999.8
90°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	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	16.1	17.6	16.4	17.9	18.2	16.7	18.3	17.0	18.6	18.9
	3H	17.0	18.4	17.4	18.7	19.1	17.3	18.7	17.7	19.1	19.4
	4H	17.3	18.6	17.7	19.0	19.3	17.6	18.9	18.0	19.2	19.6
	6H	17.6	18.8	18.1	19.2	19.6	18.0	19.2	18.4	19.6	20.0
	8H	17.8	18.9	18.3	19.3	19.7	18.3	19.4	18.7	19.8	20.2
	12H	17.9	19.0	18.4	19.4	19.8	18.4	19.4	18.8	19.8	20.2
4H	2H	16.5	17.8	16.9	18.2	18.6	17.1	18.4	17.4	18.7	19.1
	3H	17.7	18.8	18.1	19.2	19.6	17.9	19.0	18.3	19.4	19.8
	4H	18.1	19.1	18.6	19.5	20.0	18.3	19.3	18.7	19.7	20.1
	6H	18.6	19.4	19.0	19.9	20.3	18.9	19.7	19.3	20.2	20.6
	8H	18.8	19.6	19.3	20.0	20.5	19.2	19.9	19.6	20.4	20.9
	12H	18.9	19.6	19.4	20.1	20.6	19.3	20.0	19.8	20.5	21.0
8H	4H	18.4	19.2	18.9	19.6	20.1	18.6	19.3	19.0	19.8	20.3
	6H	19.0	19.6	19.5	20.1	20.6	19.3	19.9	19.8	20.4	20.9
	8H	19.3	19.8	19.8	20.3	20.8	19.6	20.2	20.1	20.7	21.2
	12H	19.5	19.9	20.0	20.4	21.0	19.9	20.3	20.4	20.8	21.4
12H	4H	18.5	19.1	18.9	19.6	20.1	18.6	19.3	19.1	19.7	20.2
	6H	19.1	19.6	19.6	20.1	20.6	19.3	19.9	19.8	20.4	20.9
	8H	19.4	19.8	19.9	20.3	20.9	19.7	20.2	20.2	20.7	21.2

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: L = 577, B = 577

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°	5201.6	5271.5	5349.7	5411.2	5464.5	5501.1	5546.0
50°	4048.5	4093.2	4139.3	4182.7	4224.8	4264.3	4305.1
55°	2769.7	3012.4	3299.0	3497.7	3652.5	3719.3	3830.1
60°	2534.5	2676.0	2816.4	2958.8	3102.2	3247.7	3392.1
65°	2489.9	2540.6	2591.3	2642.1	2620.1	2598.1	2576.2
70°	2282.6	2324.8	2367.0	2409.1	2189.0	1968.8	1748.7
75°	1819.8	2006.7	2193.5	2380.4	2208.1	2035.9	1863.6
80°	2073.7	2077.7	2081.8	2085.8	2244.2	2402.5	2560.8
85°	1826.1	1763.0	1700.0	1637.1	1778.1	1919.3	2060.5

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

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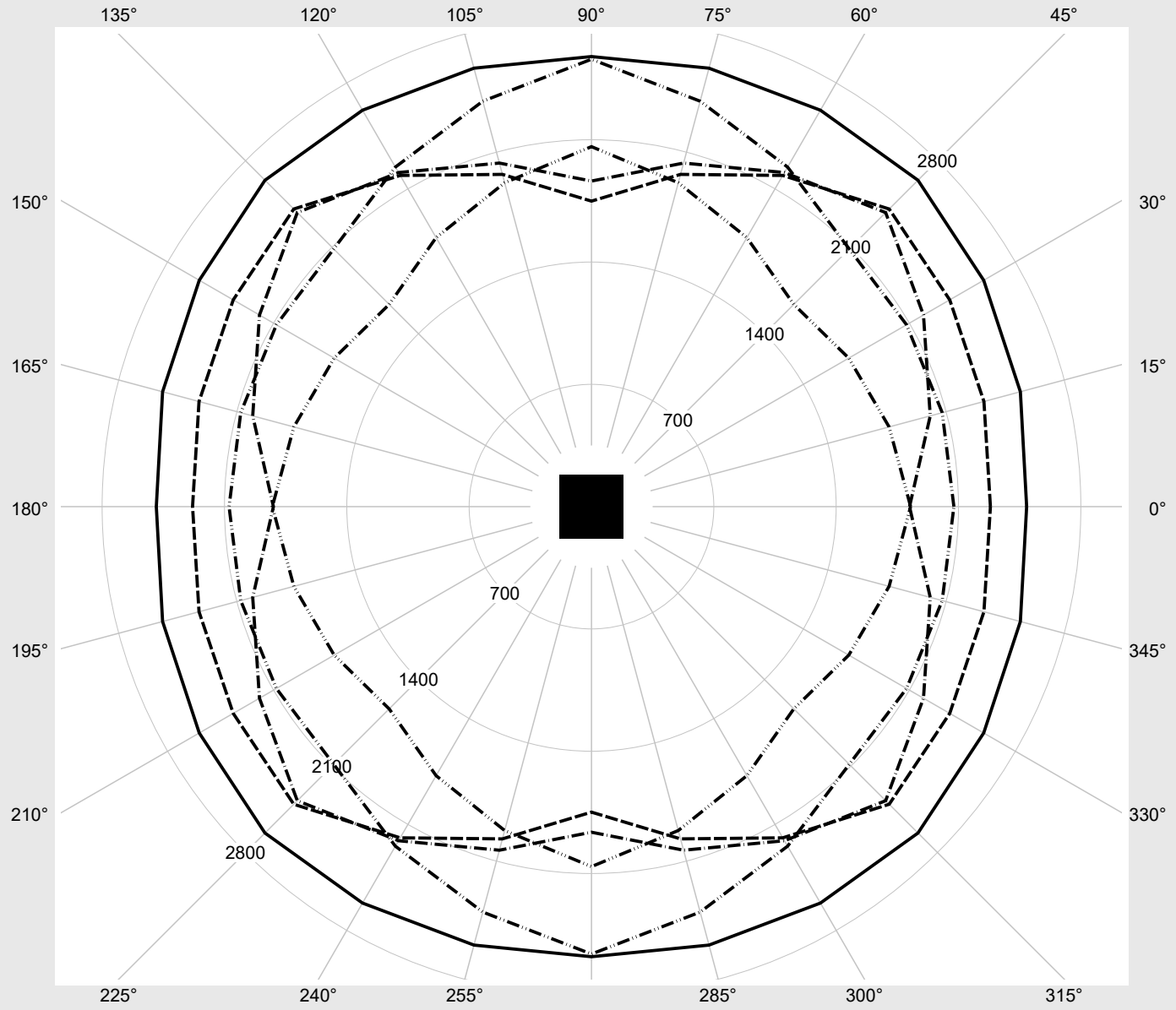

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Multilumen Table

environmental temperature: 25°C

DIP-Step	Switch Setting 1	2	3	4	Luminous flux [lm]	Power consumption [W]
0	OFF	OFF	OFF	OFF	6040	40.0
1	ON	OFF	OFF	OFF	5770	38.1
2	OFF	ON	OFF	OFF	5480	36.1
4	OFF	OFF	ON	OFF	5250	34.5
7	ON	ON	ON	OFF	4960	32.5
8	OFF	OFF	OFF	ON	4660	30.5
10	OFF	ON	OFF	ON	4380	28.5
12	OFF	OFF	ON	ON	4070	26.5
13	ON	OFF	ON	ON	3770	24.5
14	OFF	ON	ON	ON	3470	22.5