Photometric test report

Family
Apollon® 21

Order number: 51MQ11HC2L55
EAN: 4069025336156

LP number
59879_4

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 3000 K | CRI ≥ 90
Controlgear	ECG-DALI
Setting	individual position: DIP-Step=7, colour temperature 3000K
Rated values	Net luminous flux = 4880 lm Power consumption = 32.5 W Luminous efficacy = 150.2 lm/W

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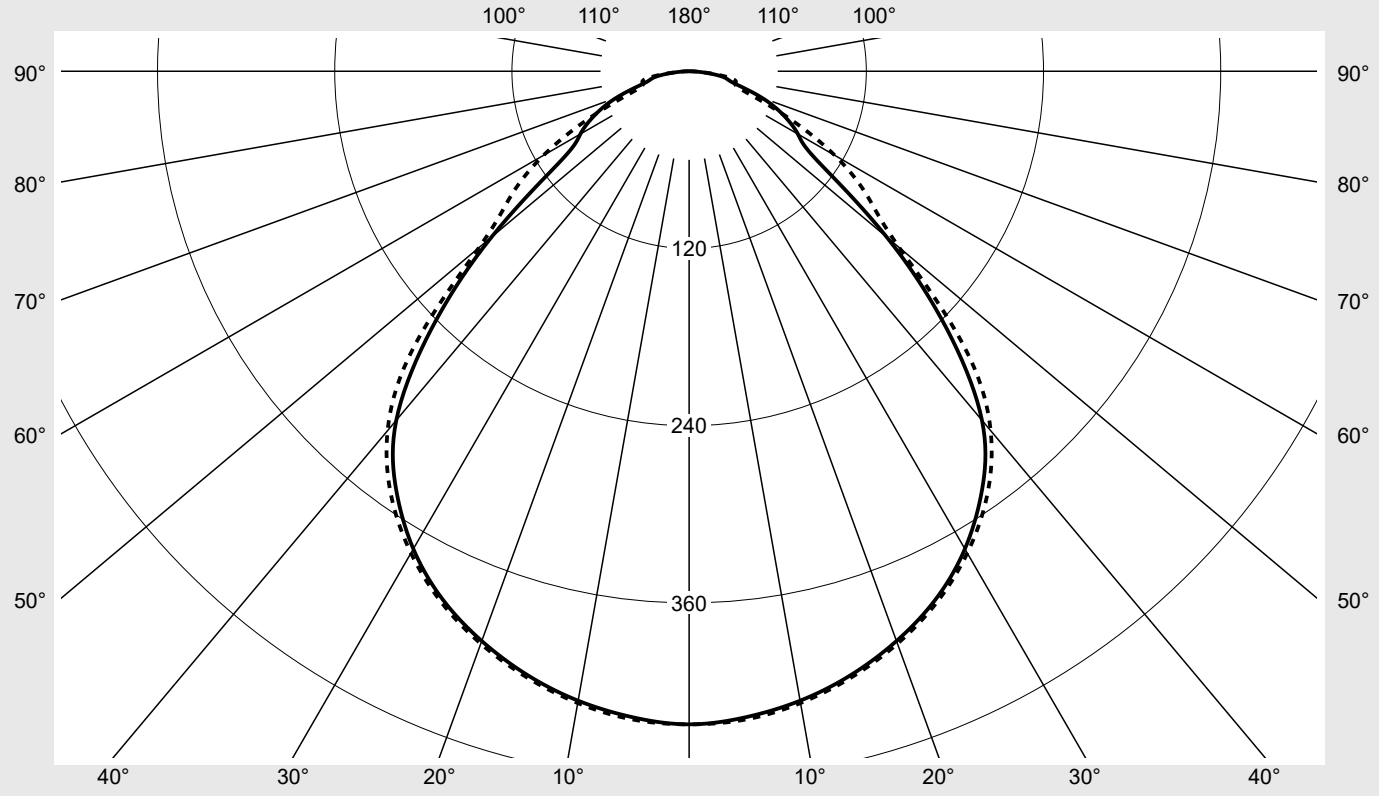
Luminous intensity in cd/klm

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	16.0	17.6	16.4	17.9	18.2	16.6	18.2	17.0	18.5	18.8
	3H	16.9	18.3	17.3	18.7	19.0	17.3	18.7	17.6	19.0	19.3
	4H	17.3	18.6	17.7	18.9	19.3	17.5	18.8	17.9	19.2	19.6
	6H	17.6	18.8	18.0	19.2	19.5	18.0	19.2	18.4	19.5	19.9
	8H	17.8	18.9	18.2	19.3	19.7	18.2	19.3	18.6	19.7	20.1
	12H	17.9	18.9	18.3	19.3	19.7	18.3	19.4	18.8	19.8	20.2
4H	2H	16.5	17.8	16.9	18.1	18.5	17.0	18.3	17.4	18.7	19.0
	3H	17.6	18.7	18.0	19.1	19.5	17.8	18.9	18.3	19.3	19.7
	4H	18.1	19.1	18.5	19.5	19.9	18.2	19.2	18.7	19.6	20.1
	6H	18.5	19.4	19.0	19.8	20.3	18.8	19.7	19.3	20.1	20.6
	8H	18.7	19.5	19.2	20.0	20.4	19.1	19.9	19.6	20.3	20.8
	12H	18.9	19.6	19.4	20.0	20.5	19.3	20.0	19.8	20.4	20.9
8H	4H	18.3	19.1	18.8	19.6	20.0	18.5	19.3	19.0	19.7	20.2
	6H	18.9	19.6	19.4	20.0	20.5	19.2	19.9	19.7	20.3	20.8
	8H	19.2	19.8	19.7	20.2	20.8	19.6	20.1	20.1	20.6	21.1
	12H	19.4	19.9	19.9	20.4	20.9	19.8	20.3	20.3	20.8	21.3
12H	4H	18.4	19.1	18.9	19.5	20.0	18.5	19.2	19.0	19.7	20.2
	6H	19.0	19.6	19.5	20.0	20.6	19.3	19.8	19.8	20.3	20.8
	8H	19.3	19.8	19.8	20.3	20.8	19.7	20.1	20.2	20.6	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°	5117.7	5186.5	5263.4	5324.0	5376.4	5412.4	5456.6
50°	3983.2	4027.2	4072.5	4115.2	4156.7	4195.5	4235.7
55°	2725.0	2963.8	3245.8	3441.3	3593.6	3659.3	3768.3
60°	2493.7	2632.8	2770.9	2911.1	3052.2	3195.3	3337.4
65°	2449.7	2499.6	2549.5	2599.4	2577.8	2556.2	2534.6
70°	2245.8	2287.3	2328.8	2370.3	2153.7	1937.1	1720.5
75°	1790.5	1974.3	2158.1	2342.0	2172.5	2003.1	1833.6
80°	2040.2	2044.2	2048.2	2052.2	2208.0	2363.8	2519.5
85°	1796.7	1734.6	1672.5	1610.7	1749.4	1888.3	2027.2

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

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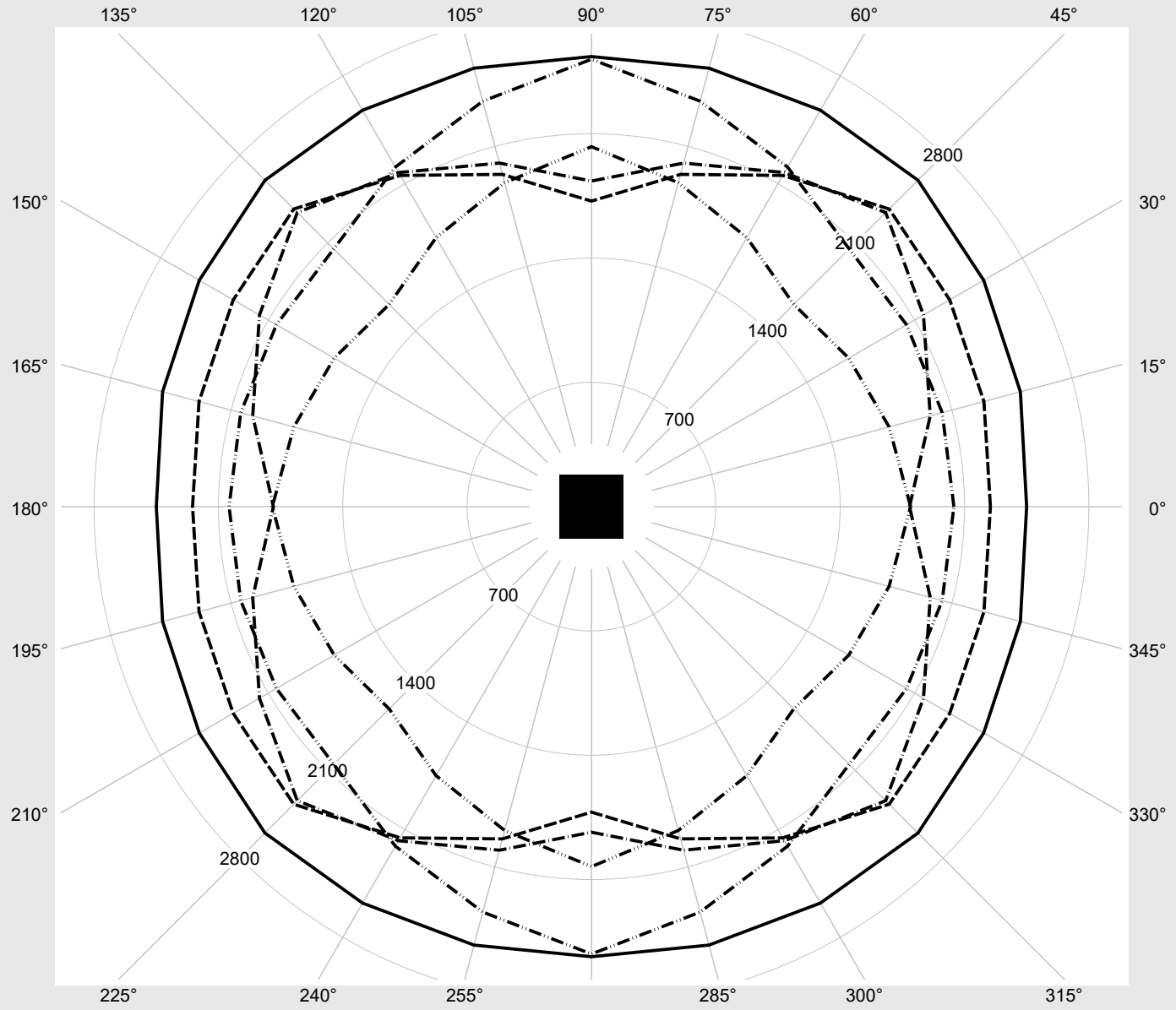

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Multilumen Table

environmental temperature: 25°C

DIP-Step	Switch Setting 1	2	3	4	Luminous flux [lm]	Power consumption [W]
0	OFF	OFF	OFF	OFF	5930	40.0
1	ON	OFF	OFF	OFF	5660	38.0
2	OFF	ON	OFF	OFF	5380	36.0
4	OFF	OFF	ON	OFF	5130	34.2
7	ON	ON	ON	OFF	4880	32.5
8	OFF	OFF	OFF	ON	4590	30.5
10	OFF	ON	OFF	ON	4300	28.5
12	OFF	OFF	ON	ON	4010	26.5
13	ON	OFF	ON	ON	3710	24.5
14	OFF	ON	ON	ON	3410	22.5