Photometric test report

Family

Apollon® 31 Surface

Order number: 51MP26WM2341W
EAN: 4058352614662

LP number

59344_1

serial documentation
15.03.2024

Version	surface-mounted and suspended luminaire, microprismatic optics, wide distribution, UGR≤19 (L65≤3000cd/m²), at factory setting
Lamps	LED 3000 K | CRI ≥ 80
Controlgear	ECG Multilumen
Rated values	Net luminous flux = 4400 lm Power consumption = 33.0 W Luminous efficacy = 133.3 lm/W

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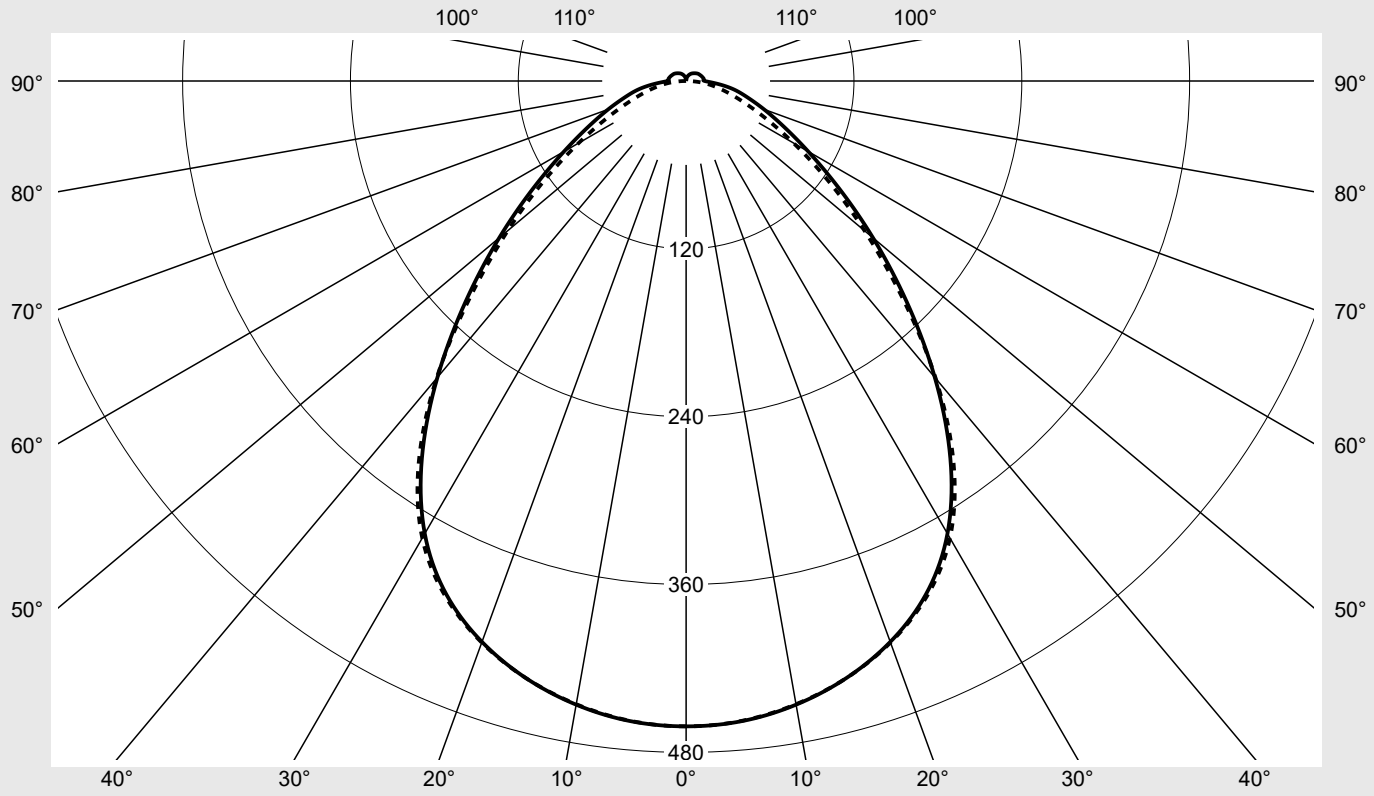
Luminous intensity in cd/klm C180-0 C270-90 **Imax: 461 cd/klm**



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

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°	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

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 x	y	View crosswise (C0)					View endwise (C90)				
2H	2H	15.7	17.3	16.1	17.6	17.9	15.6	17.2	16.0	17.5	17.8
	3H	16.7	18.1	17.1	18.4	18.7	16.3	17.7	16.7	18.1	18.4
	4H	17.2	18.5	17.6	18.8	19.2	16.6	17.9	17.0	18.3	18.7
	6H	17.7	18.9	18.1	19.2	19.6	16.9	18.1	17.3	18.5	18.9
	8H	18.0	19.1	18.4	19.4	19.8	17.1	18.2	17.5	18.5	18.9
	12H	18.2	19.2	18.6	19.6	20.0	17.1	18.2	17.6	18.6	19.0
4H	2H	16.1	17.4	16.5	17.7	18.1	16.0	17.3	16.4	17.7	18.0
	3H	17.2	18.3	17.7	18.7	19.1	16.9	18.0	17.4	18.4	18.8
	4H	17.9	18.8	18.3	19.3	19.7	17.4	18.3	17.8	18.7	19.2
	6H	18.5	19.4	19.0	19.8	20.3	17.7	18.6	18.2	19.0	19.5
	8H	18.9	19.6	19.3	20.1	20.5	17.9	18.7	18.3	19.1	19.6
	12H	19.2	19.8	19.7	20.3	20.8	18.0	18.7	18.5	19.2	19.7
8H	4H	18.0	18.8	18.5	19.3	19.7	17.6	18.4	18.1	18.8	19.3
	6H	18.9	19.5	19.4	20.0	20.5	18.1	18.7	18.6	19.2	19.7
	8H	19.3	19.9	19.8	20.3	20.9	18.3	18.9	18.8	19.4	19.9
	12H	19.7	20.2	20.2	20.7	21.2	18.5	19.0	19.0	19.5	20.0
12H	4H	18.1	18.8	18.6	19.2	19.7	17.7	18.3	18.1	18.8	19.3
	6H	18.9	19.5	19.4	20.0	20.5	18.2	18.7	18.7	19.2	19.7
	8H	19.4	19.9	19.9	20.4	20.9	18.4	18.9	19.0	19.4	19.9

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: L = 1536, B = 200, H(C0) = 13, H(C90) = 0, H(C180) = 13, H(C270) = 0

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°	4239.1	4185.0	4235.2	4247.6	4363.4	4337.1	4419.7
50°	3607.2	3549.2	3578.2	3584.9	3669.6	3631.2	3711.0
55°	3041.3	2973.5	2989.7	2982.4	3034.3	2997.9	3085.3
60°	2596.4	2501.8	2494.7	2463.4	2505.2	2467.2	2539.5
65°	2288.2	2156.7	2124.7	2055.9	2119.7	2057.1	2105.5
70°	2106.8	1952.0	1903.8	1787.8	1872.5	1774.7	1804.7
75°	2027.1	1873.9	1822.0	1637.7	1711.7	1594.7	1636.7
80°	2083.3	1924.2	1838.7	1555.5	1580.9	1483.8	1581.8
85°	2088.6	1928.4	1798.5	1456.9	1473.4	1383.4	1612.1

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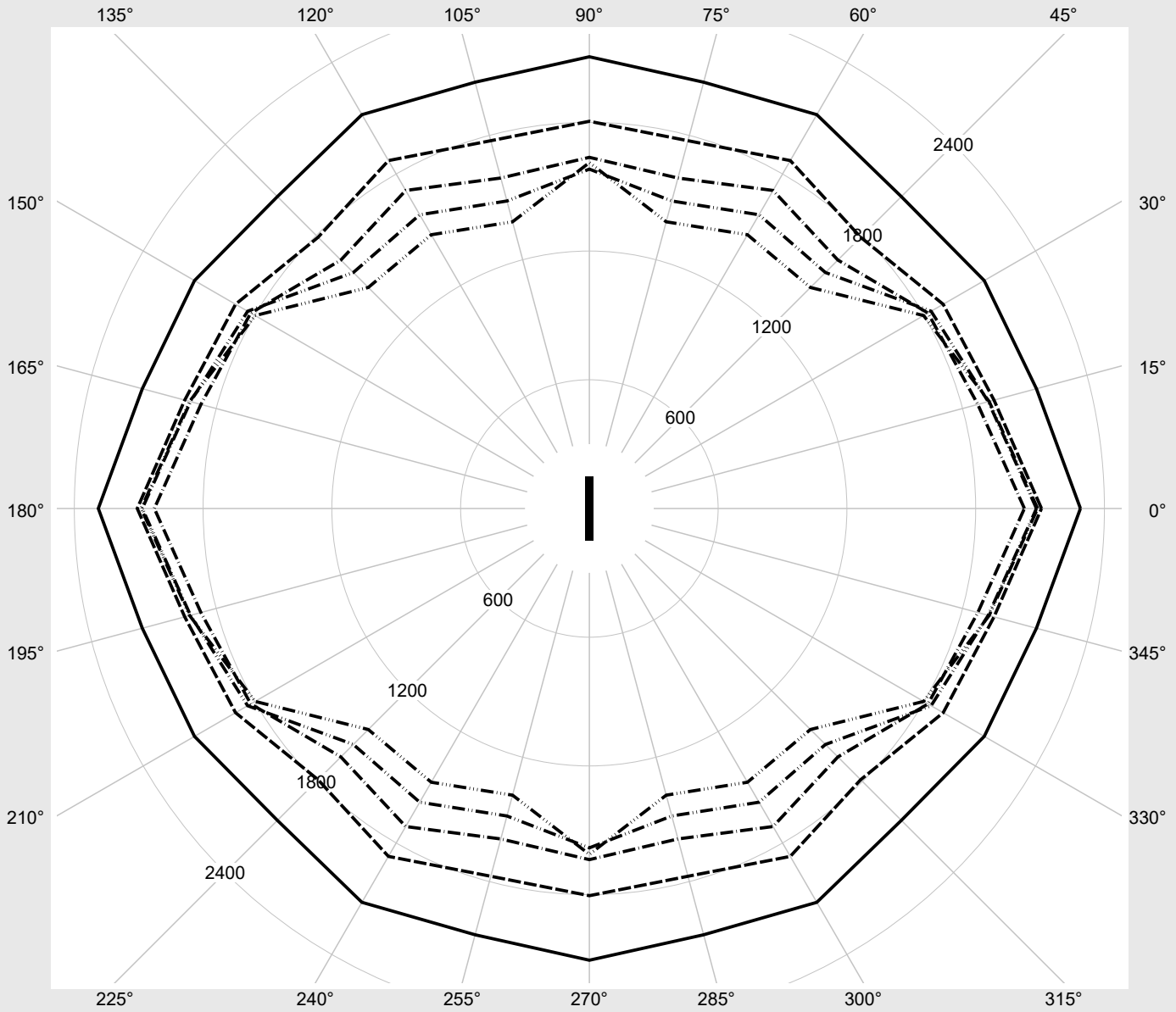
Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°