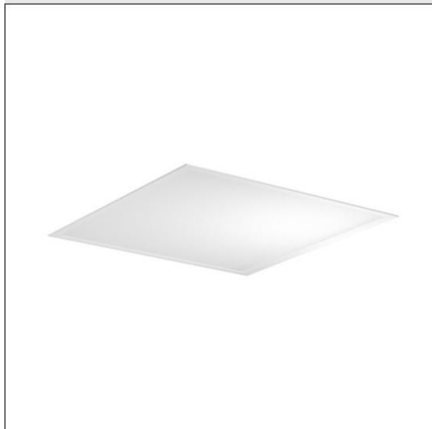


Lichttechnischer Prüfbefund

Familie
Apollon® 31

Bestell-Nr.: 51MP12W72441
EAN: 4058352451465

LP-Nummer
59140_1



Ausführung quadratisch M600, direkt strahlend
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG
Bemessungswerte Nettolichtstrom = 4000 lm
Systemleistung = 35.0 W
Lichtausbeute = 114.3 lm/W

Seriendokumentation
23.03.2021

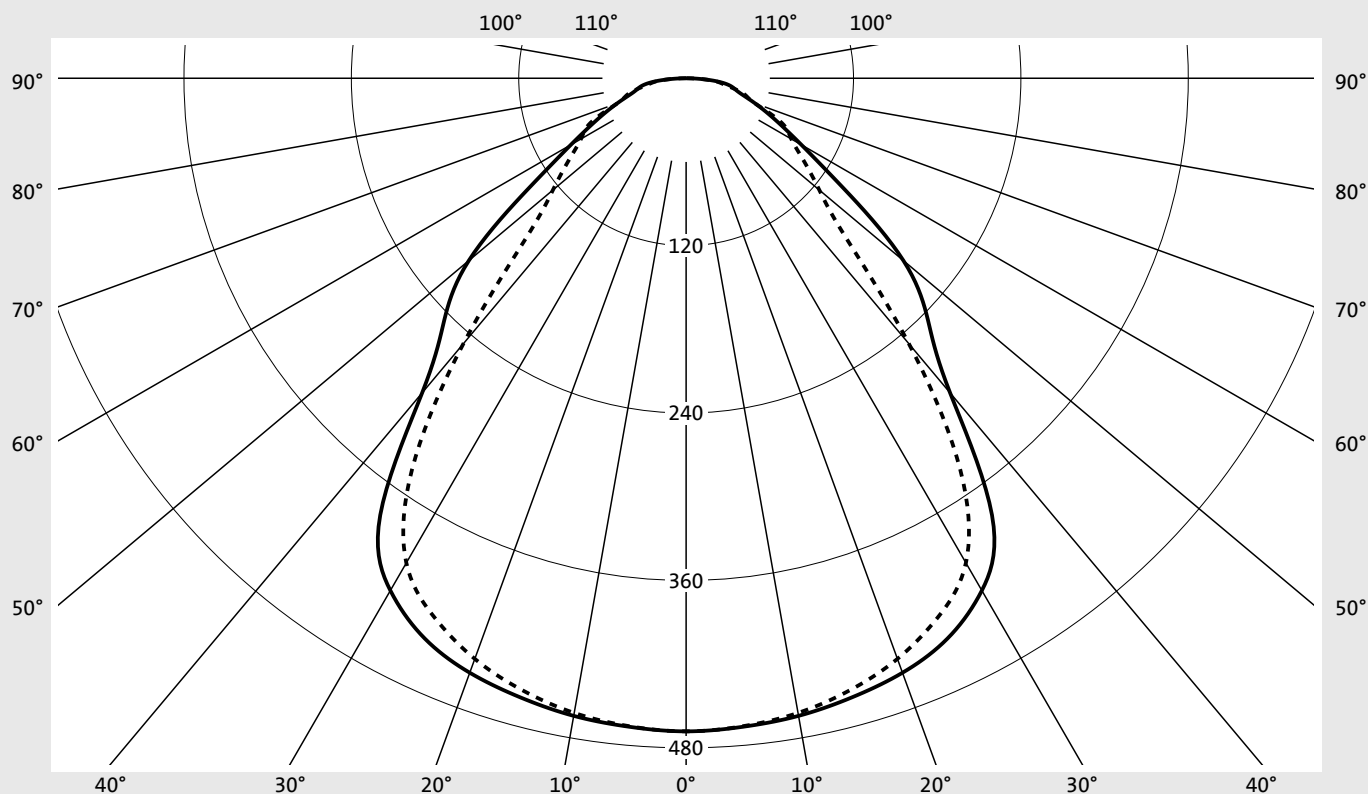
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 468 cd/klm



Klassifizierungen

DIN 5040 A 5 0
CIE N1=62 N2=86 N3=96
N4=100 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

Messbedingungen

DIN EN 13032 und DIN 5032

Lichttechnischer Prüfbefund

Familie Apollon® 31	Bestell-Nr.: 51MP12W72441 EAN: 4058352451465	LP-Nummer 59140_1
Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

C- Ebenen	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°
γ	Lichtstärke in cd/klm												
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
5°	466.7	466.2	466.1	466.2	466.6	466.3	466.3	466.3	466.6	466.2	466.1	466.2	466.7
10°	464.1	463.4	462.8	462.4	462.2	461.9	462.0	461.9	462.2	462.4	462.8	463.4	464.1
15°	459.5	458.3	457.0	456.4	456.0	454.8	454.1	454.8	456.0	456.4	457.0	458.3	459.5
20°	453.5	451.1	448.1	448.0	447.3	444.5	442.9	444.5	447.3	448.0	448.1	451.1	453.5
25°	443.2	439.9	435.6	434.8	432.8	428.8	426.6	428.8	432.8	434.8	435.6	439.9	443.2
30°	424.1	419.8	415.5	412.4	409.8	403.7	401.2	403.7	409.8	412.4	415.5	419.8	424.1
35°	382.3	373.1	366.4	364.0	363.5	349.4	342.7	349.4	363.5	364.0	366.4	373.1	382.3
40°	294.4	283.5	275.9	271.3	277.8	253.6	248.5	253.6	277.8	271.3	275.9	283.5	294.4
45°	245.2	212.7	181.1	206.2	235.8	190.3	162.7	190.3	235.8	206.2	181.1	212.7	245.2
50°	203.4	157.9	140.3	152.7	187.8	145.6	124.7	145.6	187.8	152.7	140.3	157.9	203.4
55°	138.2	123.9	116.2	117.5	115.8	116.5	102.8	116.5	115.8	117.5	116.2	123.9	138.2
60°	95.5	97.5	95.6	90.3	76.6	94.8	87.0	94.8	76.6	90.3	95.6	97.5	95.5
65°	70.5	74.8	81.2	73.3	60.6	73.9	75.7	73.9	60.6	73.3	81.2	74.8	70.5
70°	52.6	59.9	61.2	61.0	47.3	57.2	52.4	57.2	47.3	61.0	61.2	59.9	52.6
75°	39.3	47.8	40.5	47.7	37.2	43.6	42.6	43.6	37.2	47.7	40.5	47.8	39.3
80°	32.6	33.8	24.7	31.0	33.8	33.8	29.0	33.8	33.8	31.0	24.7	33.8	32.6
85°	19.6	19.9	16.6	20.6	21.2	22.6	19.0	22.6	21.2	20.6	16.6	19.9	19.6
90°	0.8	1.0	0.5	0.8	0.4	0.5	0.3	0.5	0.4	0.8	0.5	1.0	0.8
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Lichttechnischer Prüfbefund

Familie Apollon® 31	Bestell-Nr.: 51MP12W72441 EAN: 4058352451465	LP-Nummer 59140_1
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Wertetabelle Lichtstärkemessung	Maximale Lichtstärke	siteco
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C- Ebenen γ	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-Zone	Summe Phi-Zone
	Lichtstärke in cd/klm												
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	2.8	2.8
5°	466.2	466.1	466.2	466.6	466.3	466.3	466.3	466.6	466.2	466.1	466.2	22.3	25.1
10°	463.4	462.8	462.4	462.2	461.9	462.0	461.9	462.2	462.4	462.8	463.4	44.0	69.1
15°	458.3	457.0	456.4	456.0	454.8	454.1	454.8	456.0	456.4	457.0	458.3	64.8	133.9
20°	451.1	448.1	448.0	447.3	444.5	442.9	444.5	447.3	448.0	448.1	451.1	84.0	217.8
25°	439.9	435.6	434.8	432.8	428.8	426.6	428.8	432.8	434.8	435.6	439.9	100.6	318.5
30°	419.8	415.5	412.4	409.8	403.7	401.2	403.7	409.8	412.4	415.5	419.8	113.0	431.5
35°	373.1	366.4	364.0	363.5	349.4	342.7	349.4	363.5	364.0	366.4	373.1	114.2	545.7
40°	283.5	275.9	271.3	277.8	253.6	248.5	253.6	277.8	271.3	275.9	283.5	95.9	641.6
45°	212.7	181.1	206.2	235.8	190.3	162.7	190.3	235.8	206.2	181.1	212.7	79.5	721.1
50°	157.9	140.3	152.7	187.8	145.6	124.7	145.6	187.8	152.7	140.3	157.9	66.4	787.4
55°	123.9	116.2	117.5	115.8	116.5	102.8	116.5	115.8	117.5	116.2	123.9	53.2	840.6
60°	97.5	95.6	90.3	76.6	94.8	87.0	94.8	76.6	90.3	95.6	97.5	43.2	883.8
65°	74.8	81.2	73.3	60.6	73.9	75.7	73.9	60.6	73.3	81.2	74.8	36.2	920.0
70°	59.9	61.2	61.0	47.3	57.2	52.4	57.2	47.3	61.0	61.2	59.9	29.1	949.1
75°	47.8	40.5	47.7	37.2	43.6	42.6	43.6	37.2	47.7	40.5	47.8	22.7	971.8
80°	33.8	24.7	31.0	33.8	33.8	29.0	33.8	33.8	31.0	24.7	33.8	16.9	988.7
85°	19.9	16.6	20.6	21.2	22.6	19.0	22.6	21.2	20.6	16.6	19.9	10.9	999.7
90°	1.0	0.5	0.8	0.4	0.5	0.3	0.5	0.4	0.8	0.5	1.0	0.3	1000.0
95°	0.0	0.0	0.0	0.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	1000.0

Lichttechnischer Prüfbefund

Familie Apollon® 31	Bestell-Nr.: 51MP12W72441 EAN: 4058352451465	LP-Nummer 59140_1
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UGR-Tabelle	Standardraum	siteco
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Reflexionsgrad Decke	0,7	0,7	0,5	0,5	0,3	0,7	0,7	0,5	0,5	0,3	
Reflexionsgrad Wände	0,5	0,3	0,5	0,3	0,3	0,5	0,3	0,5	0,3	0,3	
Reflexionsgrad Boden	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	15,5	17,0	15,8	17,4	17,7	15,0	16,6	15,4	16,9	17,2
	3H	16,6	18,0	16,9	18,3	18,6	16,2	17,6	16,6	17,9	18,3
	4H	17,1	18,4	17,5	18,8	19,1	16,8	18,1	17,2	18,4	18,8
	6H	17,7	18,9	18,1	19,3	19,7	17,4	18,6	17,8	18,9	19,3
	8H	18,0	19,1	18,4	19,5	19,9	17,6	18,8	18,0	19,1	19,5
	12H	18,3	19,3	18,7	19,7	20,1	17,9	19,0	18,4	19,4	19,8
4H	2H	15,9	17,2	16,3	17,6	18,0	15,5	16,8	15,9	17,2	17,5
	3H	17,3	18,4	17,7	18,8	19,2	16,8	17,9	17,3	18,3	18,7
	4H	18,0	19,0	18,4	19,4	19,8	17,6	18,5	18,0	19,0	19,4
	6H	18,8	19,6	19,2	20,1	20,5	18,4	19,2	18,8	19,7	20,1
	8H	19,2	19,9	19,6	20,4	20,9	18,8	19,6	19,2	20,0	20,5
	12H	19,5	20,2	20,0	20,7	21,2	19,2	19,9	19,7	20,3	20,8
8H	4H	18,3	19,1	18,8	19,5	20,0	17,9	18,7	18,4	19,2	19,6
	6H	19,2	19,8	19,6	20,3	20,8	19,0	19,6	19,5	20,1	20,6
	8H	19,6	20,2	20,1	20,7	21,2	19,5	20,1	20,0	20,6	21,1
	12H	20,2	20,6	20,7	21,1	21,7	20,1	20,6	20,6	21,1	21,6
12H	4H	18,4	19,1	18,9	19,5	20,0	18,0	18,7	18,5	19,1	19,6
	6H	19,3	19,8	19,8	20,3	20,8	19,1	19,6	19,6	20,1	20,7
	8H	19,8	20,3	20,3	20,8	21,3	19,7	20,2	20,2	20,7	21,2

Leuchtdichten-Tabelle	Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm:	L = 553	B = 553
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C-Ebenen	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
γ	Leuchtdichte in cd/m ²											
45°	4535.6	3350.2	4361.0	3009.3	4361.0	3350.2	4535.6	3350.2	4361.0	3009.3	4361.0	3350.2
50°	4138.1	2854.7	3821.9	2536.9	3821.9	2854.7	4138.1	2854.7	3821.9	2536.9	3821.9	2854.7
55°	3152.6	2650.4	2640.4	2344.5	2640.4	2650.4	3152.6	2650.4	2640.4	2344.5	2640.4	2650.4
60°	2497.1	2500.0	2004.7	2276.5	2004.7	2500.0	2497.1	2500.0	2004.7	2276.5	2004.7	2500.0
65°	2183.2	2511.9	1875.9	2341.4	1875.9	2511.9	2183.2	2511.9	1875.9	2341.4	1875.9	2511.9
70°	2010.7	2339.9	1810.7	2002.7	1810.7	2339.9	2010.7	2339.9	1810.7	2002.7	1810.7	2339.9
75°	1988.3	2045.5	1877.9	2153.4	1877.9	2045.5	1988.3	2045.5	1877.9	2153.4	1877.9	2045.5
80°	2457.9	1857.1	2547.6	2183.1	2547.6	1857.1	2457.9	1857.1	2547.6	2183.1	2547.6	1857.1
85°	2937.9	2489.9	3175.5	2849.2	3175.5	2489.9	2937.9	2489.9	3175.5	2849.2	3175.5	2489.9

Lichttechnischer Prüfbefund

Familie
Apollon® 31

Bestell-Nr.: 51MP12W72441
EAN: 4058352451465

LP-Nummer
59140_1

Leuchtdichten in cd/m²



$\gamma 65^\circ$
 $\gamma 70^\circ$
 $\gamma 75^\circ$
 $\gamma 80^\circ$
 $\gamma 85^\circ$

