

Lichttechnischer Prüfbefund

Familie
Batten 41



Bestell-Nr.: 51LP327KM20AF
EAN: 4058352705025

LP-Nummer
59484_1

Seriendokumentation
26.08.2024

Ausführung Diffusoroptik, satiniert, PC, einstellbare Farbtemperatur: 3000K | 4000K | 5000K, extrem breit strahlend

Bestückung LED 3000 K | CRI ≥ 80

Betriebsgerät EVG

Einstellung indiv. Einstellung: Farbtemperatur 3000K

Bemessungswerte Nettolichtstrom = 1800 lm
Systemleistung = 16.0 W
Lichtausbeute = 112.5 lm/W

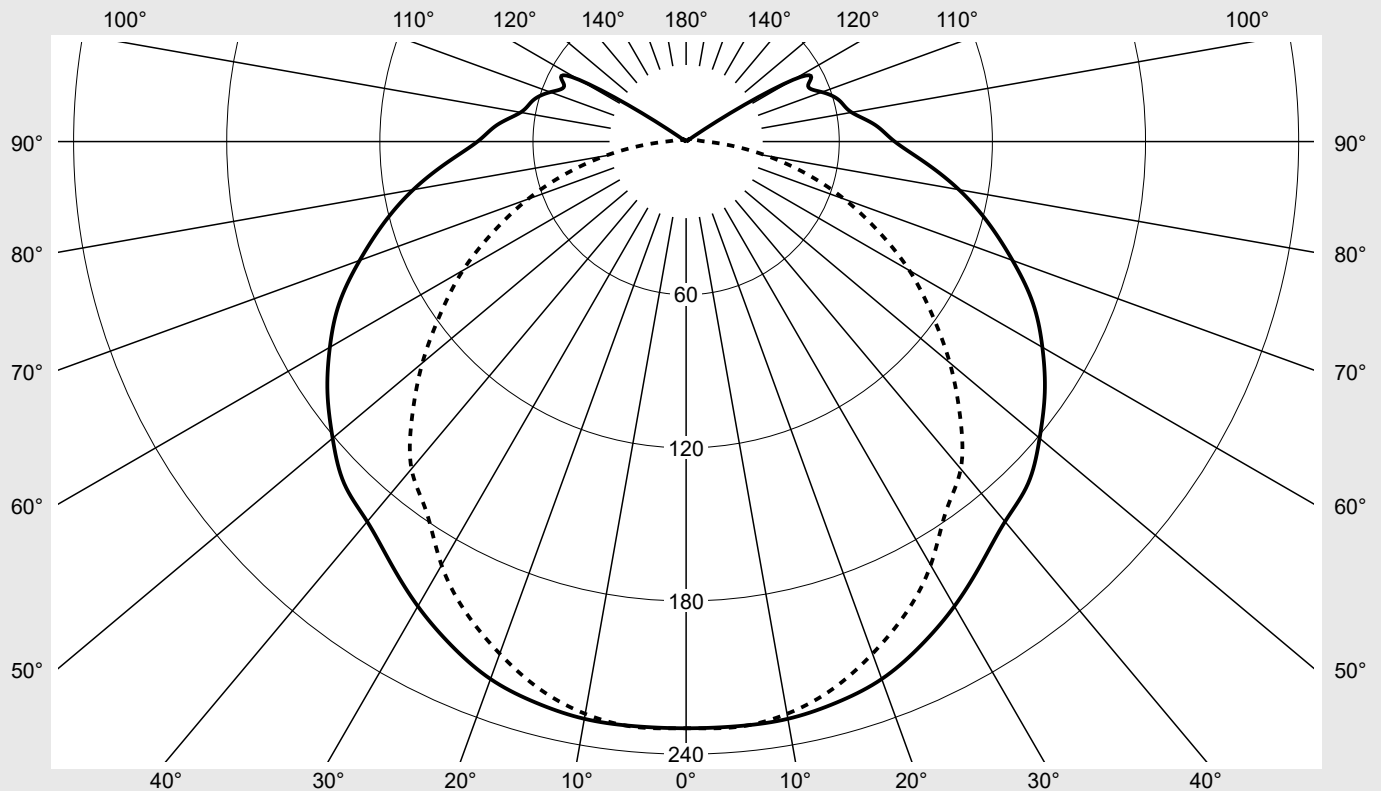
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 230 cd/klm



Klassifizierungen

DIN 5040 B 3 1
CIE N1=37 N2=66 N3=87
N4=87 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 86,8%
 ϕ_o 13,2%

Messbedingungen

DIN EN 13032 und DIN 5032

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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°	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9
5°	229.9	229.9	229.8	229.6	229.4	229.8	230.2	229.8	229.4	229.6	229.8	229.9	229.9
10°	229.7	229.0	228.3	227.9	227.4	227.5	227.7	227.5	227.4	227.9	228.3	229.0	229.7
15°	227.6	227.6	227.7	225.6	223.6	222.8	222.0	222.8	223.6	225.6	227.7	227.6	227.6
20°	224.1	223.7	223.2	219.8	216.4	214.9	213.5	214.9	216.4	219.8	223.2	223.7	224.1
25°	217.8	217.7	217.6	213.6	209.6	206.7	203.8	206.7	209.6	213.6	217.6	217.7	217.8
30°	210.2	209.6	209.0	204.6	200.1	195.9	191.6	195.9	200.1	204.6	209.0	209.6	210.2
35°	201.7	201.5	201.4	197.3	193.2	185.2	177.3	185.2	193.2	197.3	201.4	201.5	201.7
40°	194.4	193.3	192.2	186.6	181.1	174.2	167.4	174.2	181.1	186.6	192.2	193.3	194.4
45°	189.5	186.3	183.2	175.8	168.3	160.1	151.8	160.1	168.3	175.8	183.2	186.3	189.5
50°	180.8	176.0	171.3	163.0	154.7	144.8	134.9	144.8	154.7	163.0	171.3	176.0	180.8
55°	171.6	169.3	167.0	153.6	140.2	128.8	117.4	128.8	140.2	153.6	167.0	169.3	171.6
60°	161.2	158.5	155.9	141.2	126.5	113.7	101.0	113.7	126.5	141.2	155.9	158.5	161.2
65°	150.0	146.9	143.9	127.9	111.9	97.5	83.1	97.5	111.9	127.9	143.9	146.9	150.0
70°	136.1	133.4	130.6	113.2	95.8	80.9	66.0	80.9	95.8	113.2	130.6	133.4	136.1
75°	122.4	119.6	116.9	98.8	80.7	64.7	48.8	64.7	80.7	98.8	116.9	119.6	122.4
80°	108.6	105.2	101.9	83.8	65.8	49.0	32.1	49.0	65.8	83.8	101.9	105.2	108.6
85°	94.0	91.1	88.1	70.0	51.8	34.6	17.5	34.6	51.8	70.0	88.1	91.1	94.0
90°	81.7	79.1	76.5	59.1	41.8	24.8	7.9	24.8	41.8	59.1	76.5	79.1	81.7
95°	74.4	70.8	67.2	52.2	37.2	21.1	4.9	21.1	37.2	52.2	67.2	70.8	74.4
100°	65.8	61.9	57.9	42.8	27.7	15.7	3.6	15.7	27.7	42.8	57.9	61.9	65.8
105°	62.2	58.3	54.5	40.5	26.6	14.5	2.4	14.5	26.6	40.5	54.5	58.3	62.2
110°	56.6	53.8	51.1	39.2	27.4	14.5	1.6	14.5	27.4	39.2	51.1	53.8	56.6
115°	52.8	50.1	47.3	36.0	24.7	13.2	1.6	13.2	24.7	36.0	47.3	50.1	52.8
120°	48.4	46.4	44.3	33.2	22.1	11.8	1.6	11.8	22.1	33.2	44.3	46.4	48.4
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

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Wertetabelle Lichtstärkemessung	Maximale Lichtstärke	siteco
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C- Ebenen	195°	210°	225°	240°	255°	270°	285°	300°	315°	330°	345°	Phi-Zone	Summe Phi-Zone
γ	Lichtstärke in cd/klm											Lichtstrom in lm/klm	
0°	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	1.4	1.4
5°	229.9	229.8	229.6	229.4	229.8	230.2	229.8	229.4	229.6	229.8	229.9	11.0	12.4
10°	229.0	228.3	227.9	227.4	227.5	227.7	227.5	227.4	227.9	228.3	229.0	21.7	34.1
15°	227.6	227.7	225.6	223.6	222.8	222.0	222.8	223.6	225.6	227.7	227.6	32.0	66.0
20°	223.7	223.2	219.8	216.4	214.9	213.5	214.9	216.4	219.8	223.2	223.7	41.1	107.2
25°	217.7	217.6	213.6	209.6	206.7	203.8	206.7	209.6	213.6	217.6	217.7	49.3	156.4
30°	209.6	209.0	204.6	200.1	195.9	191.6	195.9	200.1	204.6	209.0	209.6	55.7	212.2
35°	201.5	201.4	197.3	193.2	185.2	177.3	185.2	193.2	197.3	201.4	201.5	61.2	273.4
40°	193.3	192.2	186.6	181.1	174.2	167.4	174.2	181.1	186.6	192.2	193.3	65.1	338.5
45°	186.3	183.2	175.8	168.3	160.1	151.8	160.1	168.3	175.8	183.2	186.3	67.5	405.9
50°	176.0	171.3	163.0	154.7	144.8	134.9	144.8	154.7	163.0	171.3	176.0	67.7	473.6
55°	169.3	167.0	153.6	140.2	128.8	117.4	128.8	140.2	153.6	167.0	169.3	67.6	541.2
60°	158.5	155.9	141.2	126.5	113.7	101.0	113.7	126.5	141.2	155.9	158.5	65.4	606.7
65°	146.9	143.9	127.9	111.9	97.5	83.1	97.5	111.9	127.9	143.9	146.9	61.6	668.3
70°	133.4	130.6	113.2	95.8	80.9	66.0	80.9	95.8	113.2	130.6	133.4	56.2	724.5
75°	119.6	116.9	98.8	80.7	64.7	48.8	64.7	80.7	98.8	116.9	119.6	50.0	774.5
80°	105.2	101.9	83.8	65.8	49.0	32.1	49.0	65.8	83.8	101.9	105.2	42.8	817.3
85°	91.1	88.1	70.0	51.8	34.6	17.5	34.6	51.8	70.0	88.1	91.1	35.6	853.0
90°	79.1	76.5	59.1	41.8	24.8	7.9	24.8	41.8	59.1	76.5	79.1	29.8	882.8
95°	70.8	67.2	52.2	37.2	21.1	4.9	21.1	37.2	52.2	67.2	70.8	26.2	909.0
100°	61.9	57.9	42.8	27.7	15.7	3.6	15.7	27.7	42.8	57.9	61.9	21.6	930.6
105°	58.3	54.5	40.5	26.6	14.5	2.4	14.5	26.6	40.5	54.5	58.3	20.0	950.6
110°	53.8	51.1	39.2	27.4	14.5	1.6	14.5	27.4	39.2	51.1	53.8	18.5	969.1
115°	50.1	47.3	36.0	24.7	13.2	1.6	13.2	24.7	36.0	47.3	50.1	16.4	985.5
120°	46.4	44.3	33.2	22.1	11.8	1.6	11.8	22.1	33.2	44.3	46.4	14.5	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

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UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
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	
2H	2H	19,9	21,6	20,3	22,0	22,4	19,5	21,2	19,9	21,6	22,1
	3H	22,0	23,5	22,4	23,9	24,4	21,3	22,8	21,7	23,2	23,7
	4H	22,9	24,3	23,4	24,8	25,3	21,9	23,4	22,4	23,9	24,4
	6H	23,8	25,1	24,3	25,6	26,2	22,5	23,8	23,0	24,3	24,9
	8H	24,3	25,5	24,8	26,1	26,6	22,8	24,1	23,3	24,6	25,1
	12H	24,6	25,8	25,2	26,3	27,0	22,9	24,1	23,4	24,6	25,2
4H	2H	20,6	22,1	21,1	22,6	23,1	20,3	21,7	20,8	22,2	22,7
	3H	22,9	24,1	23,4	24,7	25,2	22,2	23,4	22,7	23,9	24,5
	4H	24,0	25,2	24,6	25,7	26,3	23,1	24,2	23,6	24,7	25,3
	6H	25,1	26,1	25,7	26,6	27,3	23,8	24,8	24,3	25,3	26,0
	8H	25,6	26,5	26,2	27,1	27,8	24,1	25,0	24,7	25,6	26,3
	12H	26,1	26,9	26,7	27,5	28,2	24,3	25,1	24,9	25,7	26,4
8H	4H	24,4	25,4	25,0	26,0	26,6	23,6	24,5	24,2	25,1	25,7
	6H	25,7	26,5	26,3	27,1	27,8	24,5	25,3	25,1	25,9	26,6
	8H	26,4	27,1	27,0	27,7	28,4	24,9	25,6	25,5	26,2	27,0
	12H	27,0	27,6	27,6	28,2	29,0	25,2	25,8	25,9	26,5	27,2
12H	4H	24,4	25,3	25,0	25,9	26,6	23,6	24,4	24,2	25,0	25,8
	6H	25,8	26,5	26,4	27,1	27,8	24,6	25,3	25,3	26,0	26,7
	8H	26,5	27,1	27,2	27,8	28,5	25,1	25,7	25,8	26,4	27,1

Leuchtdichten-Tabelle		Max. für $\gamma \geq 65^\circ$											
		Lichttechnische Abmessungen in mm: L = 1175 B = 25 H(C0) = 18 H(C90) = 0 H(C180) = 18 H(C270) = 0											
C-Ebenen	γ	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°	330°
		Leuchtdichte in cd/m ²											
45°	9546.3	9776.2	10727.1	13150.4	10727.1	9776.2	9546.3	9776.2	10727.1	13150.4	10727.1	9776.2	9546.3
50°	9276.0	9366.8	10318.2	12856.9	10318.2	9366.8	9276.0	9366.8	10318.2	12856.9	10318.2	9366.8	9276.0
55°	9036.2	9438.8	9888.5	12544.3	9888.5	9438.8	9036.2	9438.8	9888.5	12544.3	9888.5	9438.8	9036.2
60°	8790.7	9185.6	9546.9	12379.1	9546.9	9185.6	8790.7	9185.6	9546.9	12379.1	9546.9	9185.6	8790.7
65°	8546.6	8928.6	9152.4	12044.7	9152.4	8928.6	8546.6	8928.6	9152.4	12044.7	9152.4	8928.6	8546.6
70°	8187.1	8625.6	8630.8	11828.0	8630.8	8625.6	8187.1	8625.6	8630.8	11828.0	8630.8	8625.6	8187.1
75°	7860.8	8315.3	8151.2	11548.7	8151.2	8315.3	7860.8	8315.3	8151.2	11548.7	8151.2	8315.3	7860.8
80°	7535.8	7923.6	7638.4	11339.0	7638.4	7923.6	7535.8	7923.6	7638.4	11339.0	7638.4	7923.6	7535.8
85°	7157.7	7624.6	7121.1	12273.5	7121.1	7624.6	7157.7	7624.6	7121.1	12273.5	7121.1	7624.6	7157.7

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Leuchtdichten in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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