

Lichttechnischer Prüfbefund

Familie
Highbay 21

Bestell-Nr.: 51HLA1D14FCB
EAN: 4058352417874

LP-Nummer
58918_14



Ausführung eng strahlend, UGR≤22
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 13470 lm
Systemleistung = 85.5 W
Lichtausbeute = 157.6 lm/W

Seriendokumentation
01.07.2020

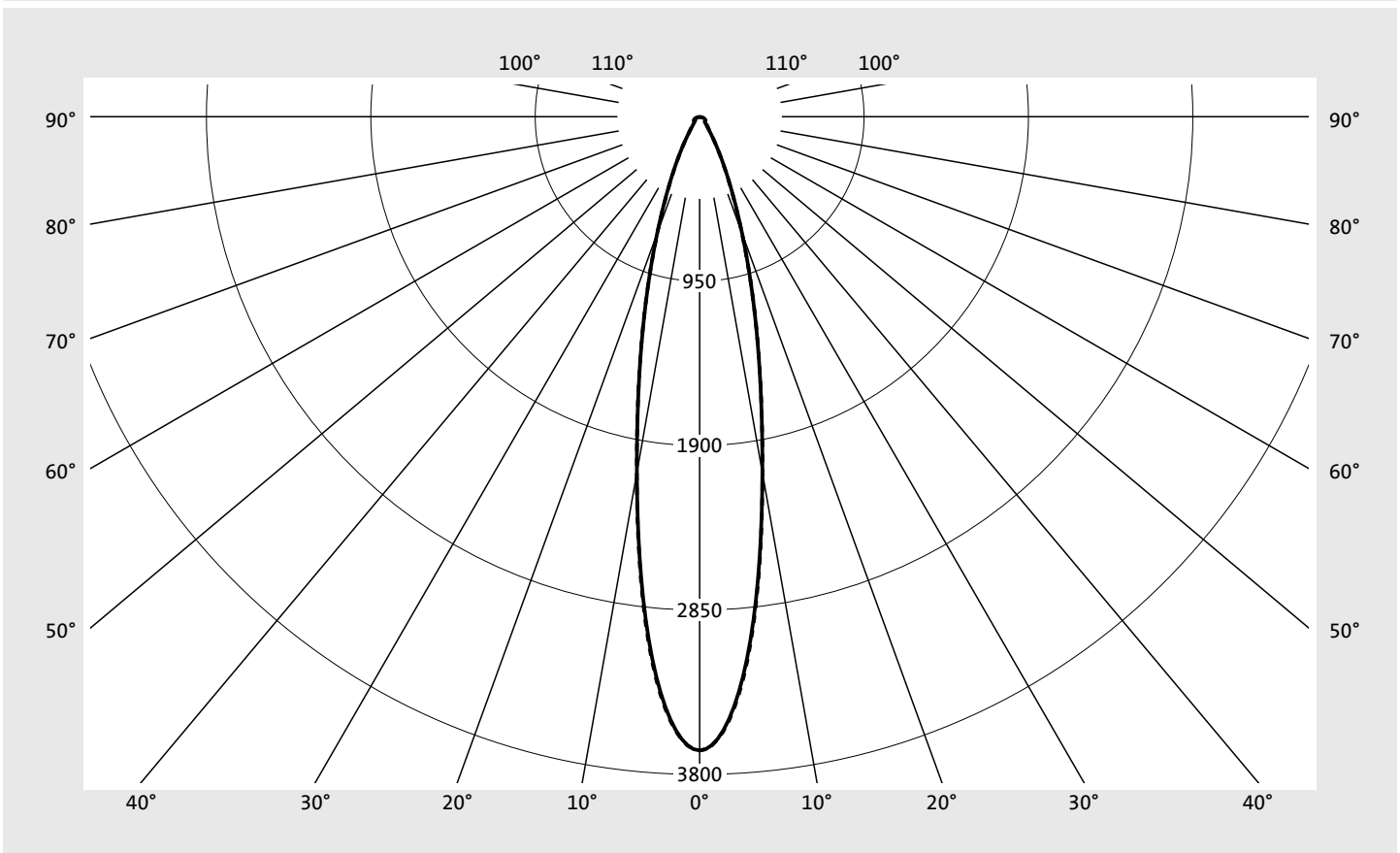
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 3662 cd/klm



Klassifizierungen

DIN 5040 A 7 0
CIE N1=88 N2=95 N3=99
N4=100 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		sITeco

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
γ	Lichtstärke in cd/klm							Lichtstrom in lm/klm	
0°	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	21.9	21.9
5°	3142.6	3138.8	3148.7	3152.8	3150.8	3162.1	3157.3	150.5	172.4
10°	2088.2	2082.4	2095.8	2102.6	2097.1	2098.1	2092.4	199.3	371.8
15°	1265.5	1263.0	1272.3	1276.0	1271.9	1272.7	1269.2	180.2	552.0
20°	717.4	718.4	730.4	738.2	732.8	722.5	712.3	136.1	688.1
25°	380.2	383.6	397.1	405.5	395.8	382.2	373.9	90.4	778.5
30°	189.9	192.8	203.8	209.2	205.7	196.2	189.8	54.7	833.2
35°	93.4	93.2	98.1	106.1	108.6	103.6	99.4	31.8	865.0
40°	56.8	57.1	60.0	67.1	71.1	71.1	70.3	22.9	887.9
45°	41.2	40.8	44.9	50.9	50.2	47.6	46.5	18.0	905.9
50°	41.3	41.9	46.2	48.9	40.8	33.1	32.5	17.3	923.2
55°	41.3	42.1	45.2	43.2	36.0	29.8	29.9	17.4	940.6
60°	39.0	39.2	40.5	39.6	33.4	27.4	27.5	16.9	957.4
65°	33.8	33.6	34.5	34.8	29.3	24.3	24.5	15.4	972.8
70°	26.5	26.3	27.0	27.6	23.9	20.0	20.0	12.7	985.5
75°	15.9	16.7	18.0	19.3	17.3	15.5	15.6	9.0	994.6
80°	6.4	6.9	7.9	9.2	9.9	9.6	10.9	4.7	999.3
85°	0.5	0.5	0.6	1.0	1.8	2.4	3.4	0.7	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	16,6	17,7	16,9	18,0	18,3	15,3	16,5	15,7	16,8	17,1
	3H	18,5	19,4	18,9	19,8	20,1	16,9	17,9	17,3	18,2	18,6
	4H	19,0	19,9	19,4	20,3	20,7	17,6	18,5	18,0	18,9	19,3
	6H	19,3	20,1	19,7	20,5	20,9	18,3	19,1	18,7	19,5	19,9
	8H	19,4	20,1	19,8	20,4	20,8	18,6	19,3	19,0	19,7	20,1
	12H	19,3	20,0	19,7	20,4	20,8	18,7	19,3	19,1	19,7	20,1
4H	2H	17,4	18,3	17,8	18,6	19,0	16,5	17,4	16,9	17,8	18,1
	3H	19,4	20,1	19,8	20,5	20,9	18,2	19,0	18,6	19,4	19,8
	4H	20,0	20,7	20,5	21,1	21,6	19,0	19,7	19,4	20,1	20,5
	6H	20,3	20,9	20,8	21,3	21,8	19,7	20,3	20,1	20,7	21,2
	8H	20,4	20,9	20,8	21,3	21,8	19,9	20,4	20,4	20,9	21,4
	12H	20,3	20,8	20,8	21,2	21,7	20,0	20,4	20,5	20,9	21,4
8H	4H	20,3	20,8	20,8	21,3	21,8	19,5	20,0	19,9	20,4	20,9
	6H	20,7	21,1	21,2	21,6	22,1	20,3	20,6	20,8	21,1	21,6
	8H	20,7	21,1	21,2	21,6	22,1	20,5	20,8	21,0	21,3	21,8
	12H	20,6	21,0	21,2	21,5	22,0	20,5	20,8	21,1	21,4	21,9
12H	4H	20,3	20,8	20,8	21,2	21,7	19,5	19,9	19,9	20,4	20,9
	6H	20,7	21,1	21,2	21,5	22,1	20,2	20,6	20,7	21,1	21,6
	8H	20,7	21,0	21,2	21,5	22,1	20,5	20,8	21,0	21,3	21,8

Leuchtdichten-Tabelle		Max. für $\gamma \geq 65^\circ$		Lichttechnische Abmessungen in mm:		L = 300	B = 320	
C-Ebenen	γ	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	90°
		195°	195°	210°	225°	240°	255°	270°
		345°	345°	330°	315°	300°	285°	270°
Leuchtdichte in cd/m ²								
45°		8168.6	8089.3	8916.1	10099.2	9964.5	9447.9	9226.1
50°		9024.4	9154.3	10076.6	10677.3	8899.8	7231.6	7092.8
55°		10111.2	10297.3	11064.7	10557.6	8798.0	7285.5	7324.9
60°		10948.0	10999.7	11354.1	11118.4	9379.9	7689.7	7723.6
65°		11213.6	11144.5	11439.0	11554.9	9743.1	8076.8	8144.8
70°		10859.6	10774.7	11061.5	11338.0	9800.0	8218.9	8221.7
75°		8611.1	9035.6	9736.6	10470.6	9385.3	8407.8	8456.1
80°		5202.1	5551.1	6373.7	7440.3	8007.6	7770.0	8798.6
85°		742.2	747.0	1020.7	1640.5	2915.5	3810.6	5522.0

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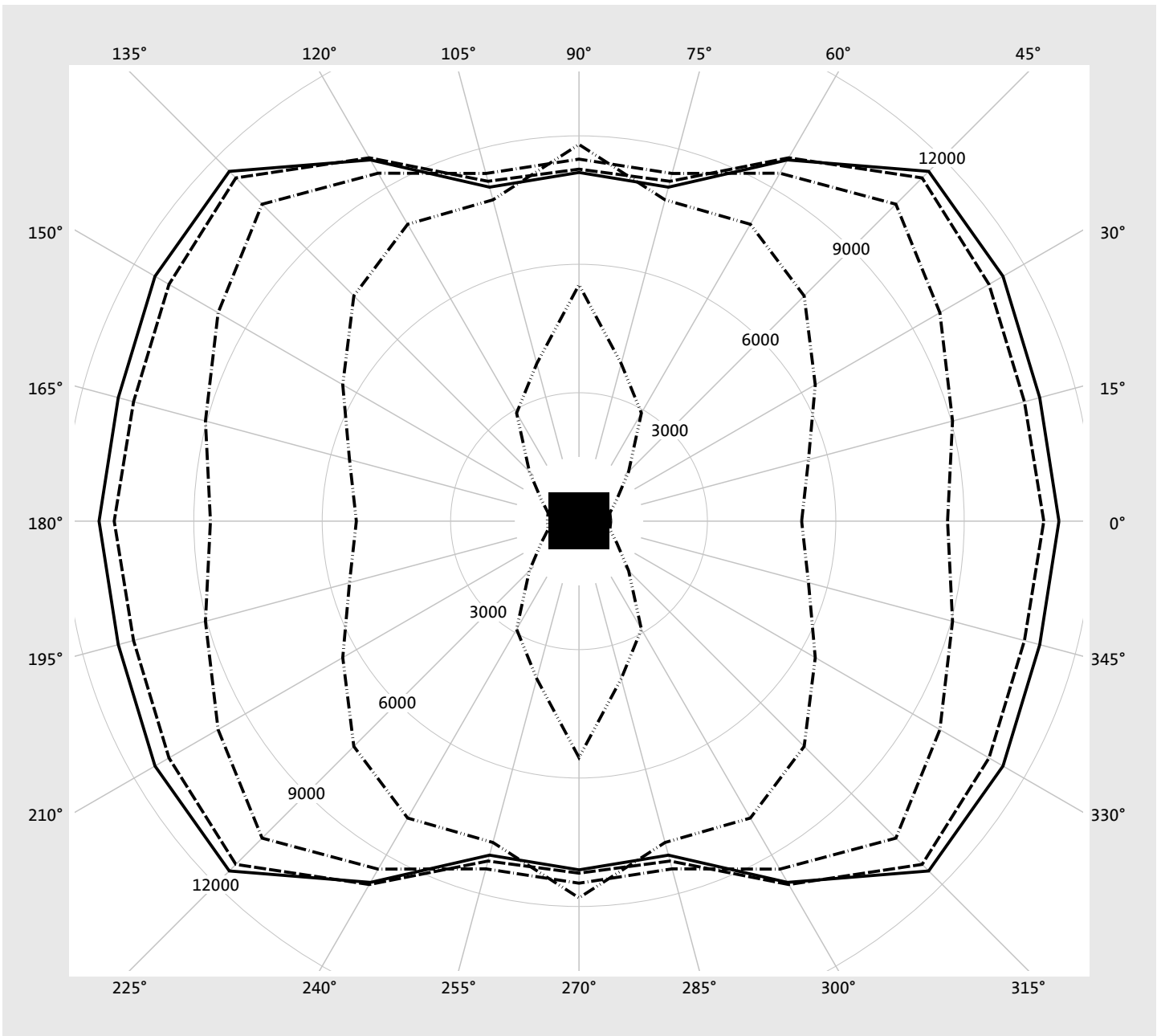
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Leuchtdichten in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	siteco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	13470	85.5
95	240	252	12791	80.6
90	227	250	12145	76.0
85	213	247	11448	71.1
80	200	245	10794	66.7
75	186	242	10083	61.8
70	173	239	9412	57.3
65	160	236	8738	52.9
60	148	233	8105	48.7
55	135	230	7415	44.4
50	122	226	6718	39.9
45	110	222	6069	35.9
40	97	217	5362	31.5
35	85	213	4705	27.6
30	73	207	4041	23.6
25	61	200	3373	19.7
20	49	192	2697	15.8
15	37	182	2017	11.8
10	25	167	1332	8.0
5	14	146	699	4.4