

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA1D24NLA
EAN: 4058352361443

LP-Nummer
58918_13



Ausführung eng strahlend, UGR≤22
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 32370 lm
Systemleistung = 189.6 W
Lichtausbeute = 170.7 lm/W

Seriendokumentation
31.03.2020

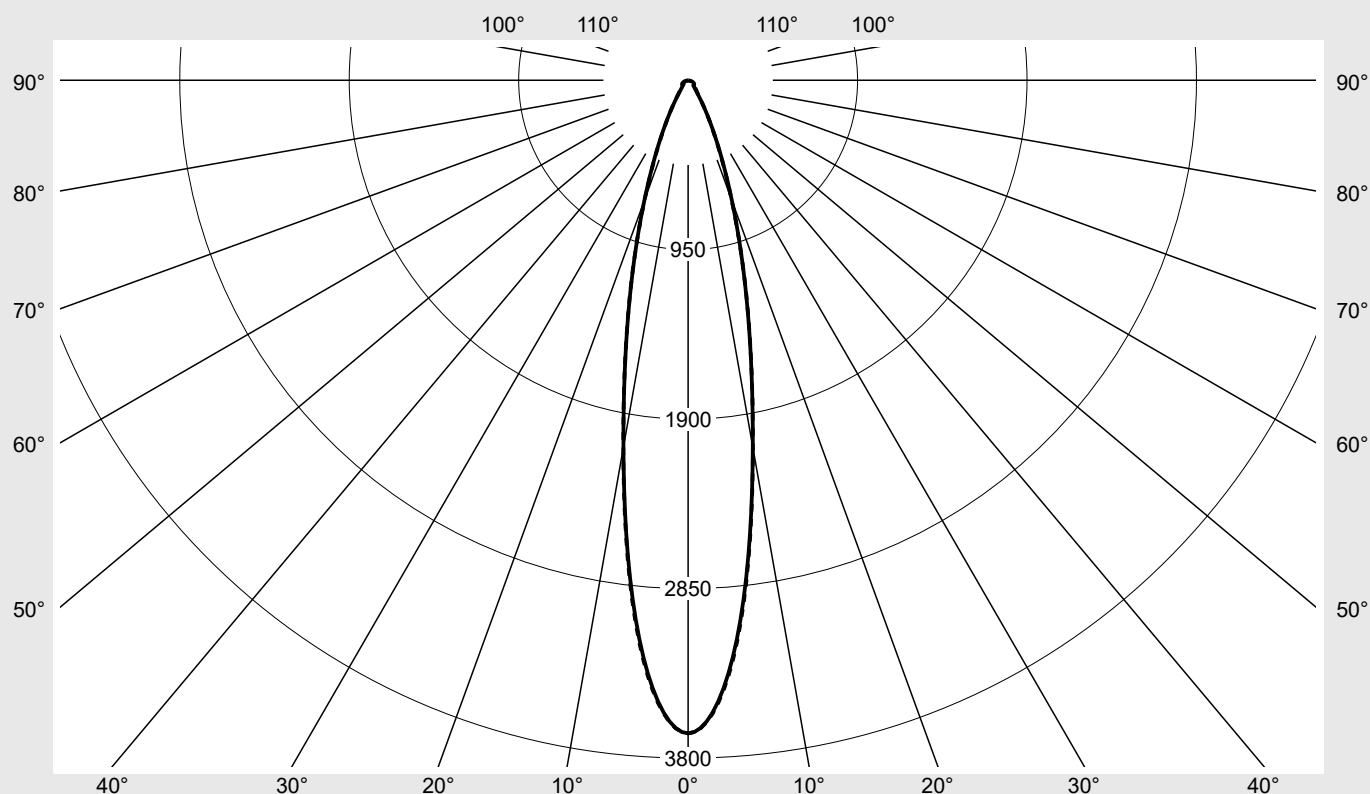
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Lichtstärke in cd/klm

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
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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°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
γ									
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									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	17,2	18,3	17,6	18,7	19,0	16,0	17,1	16,3	17,4	17,7
	3H	19,1	20,1	19,5	20,4	20,8	17,6	18,5	17,9	18,9	19,2
	4H	19,7	20,6	20,1	20,9	21,3	18,3	19,2	18,7	19,5	19,9
	6H	19,9	20,7	20,3	21,1	21,5	18,9	19,8	19,3	20,1	20,5
	8H	20,0	20,7	20,4	21,1	21,5	19,3	19,9	19,7	20,3	20,7
	12H	20,0	20,6	20,4	21,0	21,4	19,3	20,0	19,7	20,4	20,8
4H	2H	18,0	18,9	18,4	19,3	19,7	17,1	18,0	17,5	18,4	18,8
	3H	20,0	20,8	20,4	21,2	21,6	18,8	19,6	19,3	20,0	20,4
	4H	20,7	21,4	21,1	21,8	22,2	19,6	20,3	20,1	20,7	21,2
	6H	21,0	21,5	21,4	22,0	22,4	20,3	20,9	20,8	21,3	21,8
	8H	21,0	21,5	21,5	22,0	22,4	20,6	21,1	21,0	21,5	22,0
	12H	21,0	21,4	21,4	21,9	22,4	20,6	21,1	21,1	21,5	22,0
8H	4H	21,0	21,5	21,5	21,9	22,4	20,1	20,6	20,6	21,1	21,5
	6H	21,4	21,7	21,9	22,2	22,7	20,9	21,3	21,4	21,8	22,3
	8H	21,3	21,7	21,8	22,2	22,7	21,1	21,5	21,6	22,0	22,5
	12H	21,3	21,6	21,8	22,1	22,7	21,2	21,5	21,7	22,0	22,5
12H	4H	21,0	21,4	21,5	21,9	22,4	20,1	20,5	20,6	21,0	21,5
	6H	21,3	21,7	21,8	22,2	22,7	20,9	21,2	21,4	21,7	22,2
	8H	21,3	21,7	21,9	22,2	22,7	21,1	21,4	21,6	21,9	22,5

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 600 B = 320
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C-Ebenen	γ	Leuchtdichte in cd/m ²						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		9815.1	9719.7	10713.3	12134.8	11972.9	11352.3	11085.7
50°		10843.4	10999.5	12107.6	12829.4	10693.6	8689.3	8522.4
55°		12149.2	12372.9	13294.9	12685.6	10571.3	8753.9	8801.3
60°		13154.7	13216.7	13642.6	13359.4	11270.5	9239.6	9280.4
65°		13473.8	13390.8	13744.6	13883.8	11706.9	9704.7	9786.5
70°		13048.5	12946.4	13291.0	13623.2	11775.2	9875.5	9878.9
75°		10346.8	10856.8	11699.1	12581.1	11277.0	10102.5	10160.5
80°		6250.6	6670.0	7658.4	8940.0	9621.5	9336.1	10572.1
85°		891.8	897.6	1226.4	1971.1	3503.2	4578.7	6635.0

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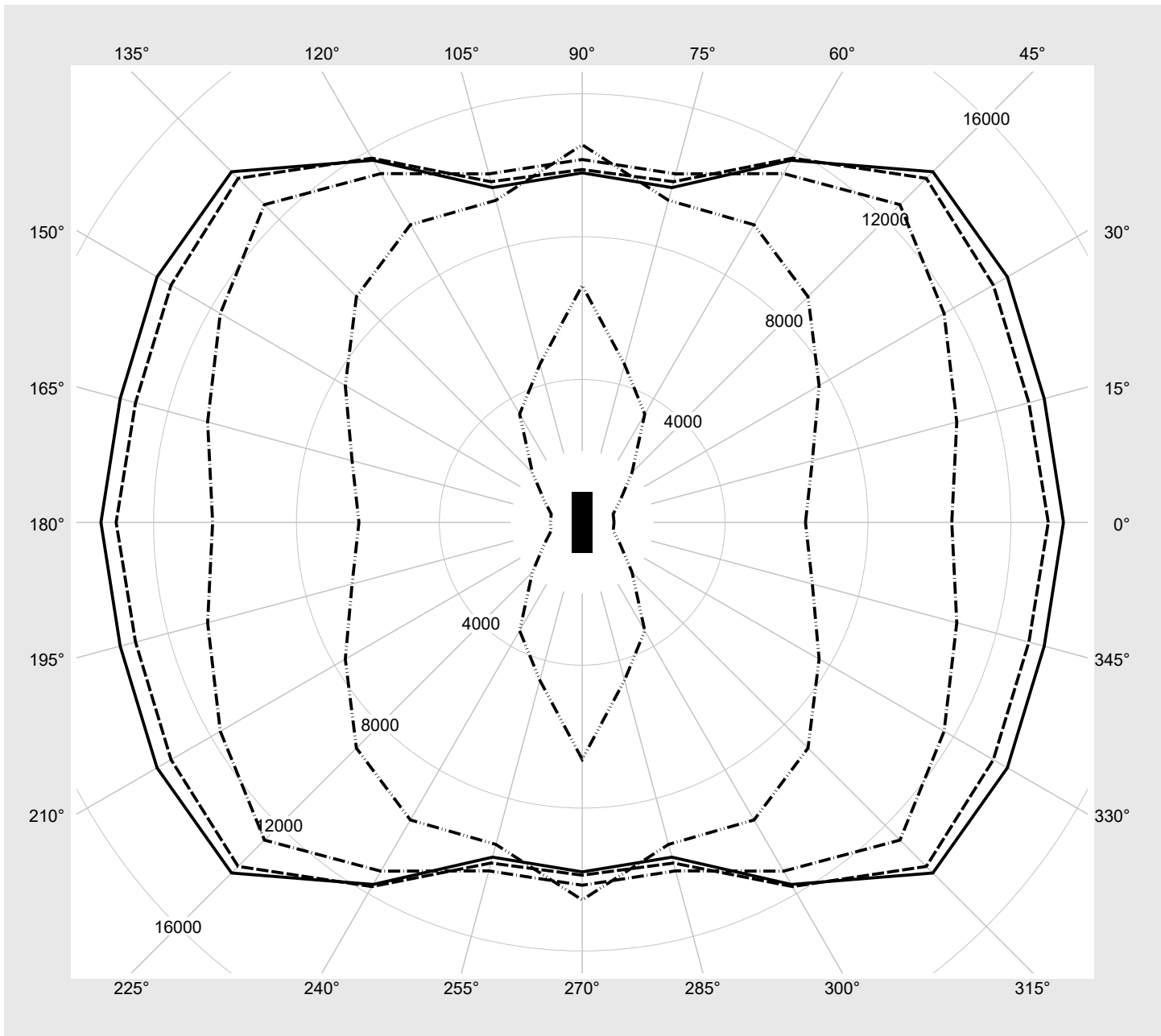
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Leuchtdichten in cd/m²

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	32370	189.7
95	240	252	30710	179.0
90	227	250	29150	169.1
85	213	248	27458	158.4
80	200	245	25871	148.5
75	187	243	24268	139.0
70	174	240	22655	129.4
65	161	237	21026	119.8
60	148	234	19387	110.4
55	136	231	17851	101.5
50	123	227	16184	92.1
45	110	223	14502	82.8
40	98	219	12938	74.2
35	86	214	11361	65.6
30	74	209	9769	57.1
25	61	202	8035	48.1
20	49	194	6423	39.6
15	37	183	4798	31.2
10	26	171	3291	23.3
5	14	148	1644	14.9
1	4	102	261	7.9