

Lichttechnischer Prüfbefund

Familie
Highbay 21

Bestell-Nr.: 51HLA1D24MCB
EAN: 4058352417898

LP-Nummer
58918_15



Ausführung eng strahlend, UGR≤22
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 26940 lm
 Systemleistung = 171.1 W
 Lichtausbeute = 157.5 lm/W

Seriendokumentation
01.07.2020

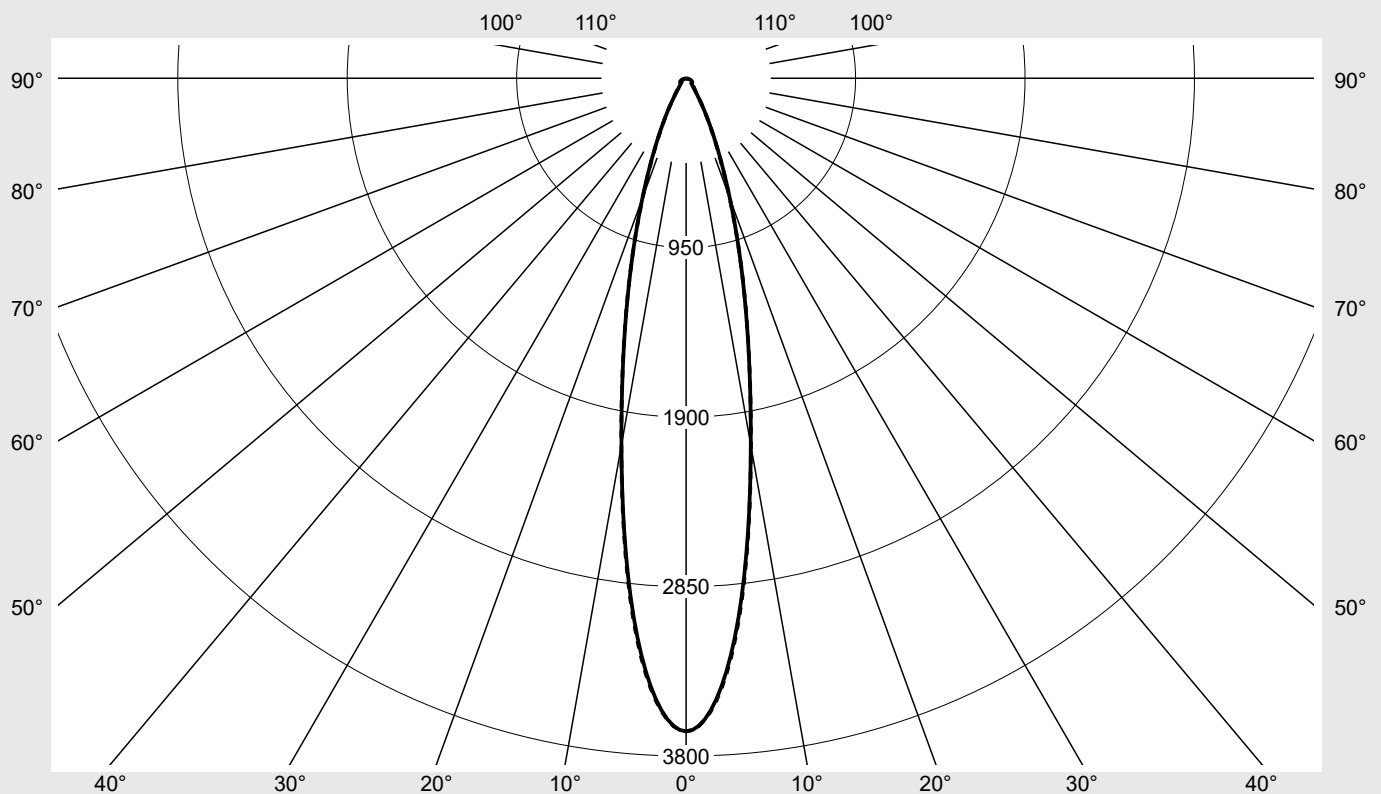
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Lichtstärke in cd/klm

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 = 600, B = 320

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°		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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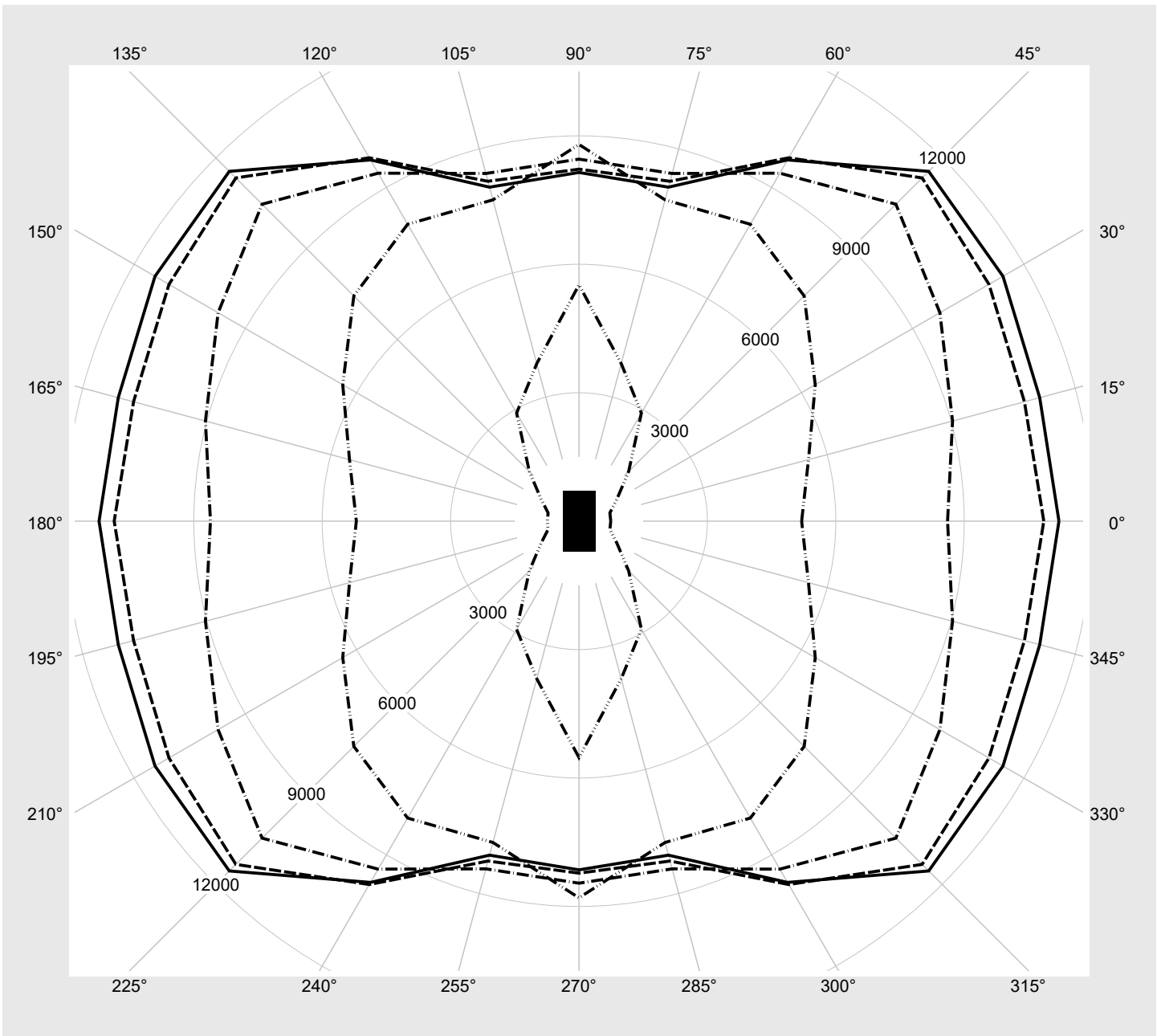
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Leuchtdichten in cd/m²

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	26940	171.1
95	240	252	25583	161.2
90	227	250	24289	152.0
85	213	248	22897	142.3
80	200	245	21588	133.3
75	186	243	20166	123.5
70	173	240	18825	114.7
65	160	237	17476	105.7
60	148	234	16208	97.5
55	135	231	14830	88.6
50	122	227	13438	79.9
45	110	223	12139	71.8
40	97	219	10725	63.2
35	85	214	9410	55.1
30	73	208	8082	47.2
25	61	202	6745	39.4
20	49	194	5395	31.5
15	37	183	4035	23.7
10	25	169	2664	16.0
5	14	148	1398	8.9
1	5	110	355	3.2