

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D24NLA + 59HL91002
EAN: 4058352361481 + 4058352341650

LP-Nummer
58924_23

Ausführung breit strahlend, UGR≤22, Abdeckscheibe, PC

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte
Nettolichtstrom = 29910 lm
Systemleistung = 189.7 W
Lichtausbeute = 157.7 lm/W

Seriendokumentation
31.03.2020

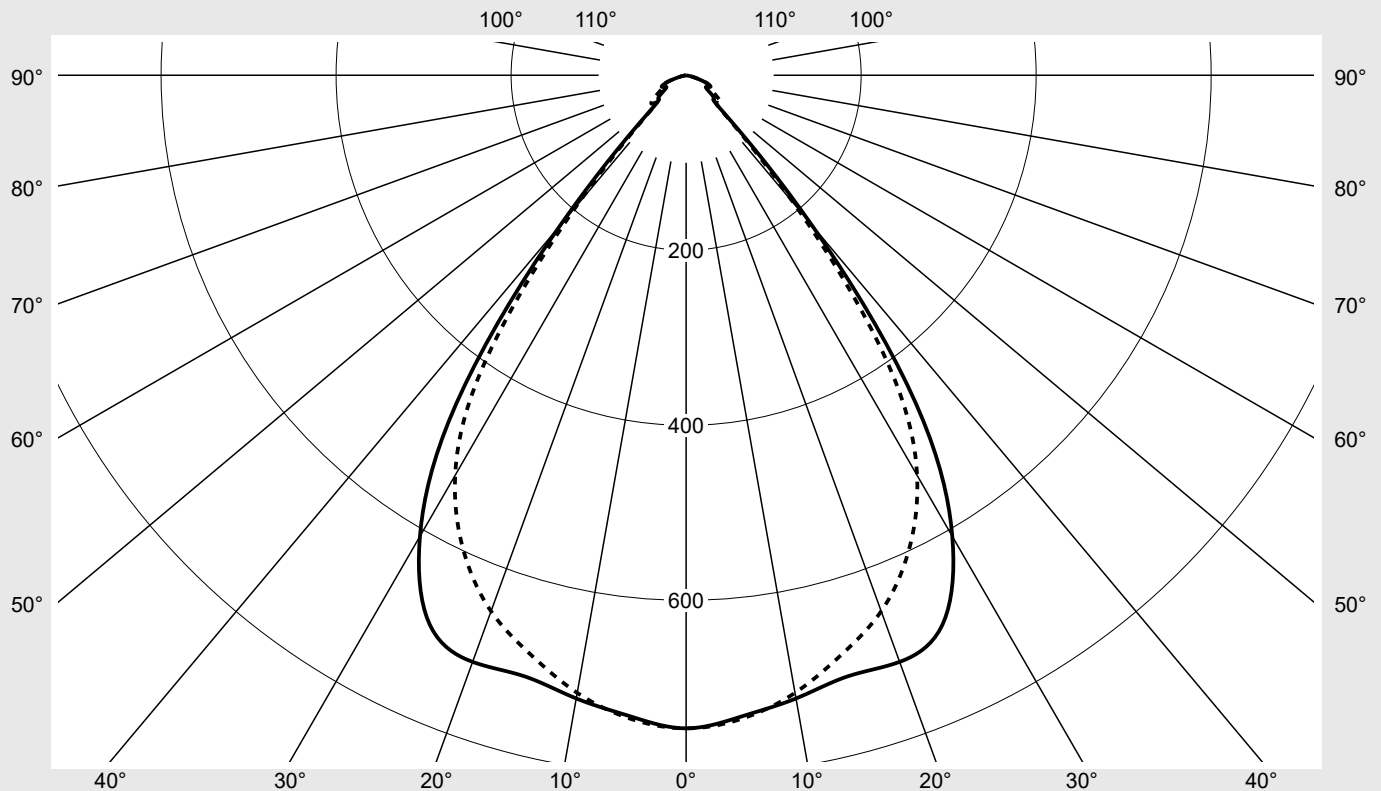
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 746 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=88 N2=97 N3=100
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									
γ								Lichtstrom in lm/klm	
0°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	4.5	4.5
5°	735.3	737.5	739.7	739.9	738.3	739.6	738.0	35.3	39.7
10°	723.2	726.6	729.4	728.5	722.4	719.9	716.7	69.0	108.7
15°	711.3	717.1	725.5	723.9	708.1	693.6	685.6	100.9	209.6
20°	713.4	718.0	728.3	720.4	690.5	663.2	651.9	131.3	340.9
25°	693.0	694.9	704.2	693.3	653.0	614.7	601.0	154.7	495.6
30°	608.4	605.8	624.6	634.7	585.4	537.6	527.9	162.4	658.1
35°	457.7	465.3	511.3	544.0	482.6	417.8	402.1	149.4	807.5
40°	223.2	249.0	306.2	349.8	284.7	219.8	194.6	95.0	902.5
45°	63.3	67.7	80.1	90.2	68.6	60.3	58.8	27.6	930.1
50°	41.6	37.0	34.8	39.2	39.3	44.2	50.6	16.8	947.0
55°	31.4	29.8	26.5	27.8	29.3	36.0	43.6	14.0	961.0
60°	26.5	29.7	26.3	21.9	21.3	25.9	33.0	12.2	973.2
65°	30.8	23.4	22.4	19.4	17.1	22.6	29.4	11.2	984.4
70°	22.6	17.1	16.5	15.8	14.1	17.3	23.9	8.9	993.3
75°	9.7	7.3	8.1	9.4	9.5	10.1	9.9	4.8	998.1
80°	2.5	2.3	2.6	3.2	3.7	3.7	3.7	1.7	999.8
85°	0.2	0.2	0.3	0.3	0.6	0.6	0.7	0.2	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	20,9	22,2	21,3	22,5	22,9	20,5	21,8	20,8	22,1	22,4
	3H	21,2	22,4	21,6	22,7	23,1	20,8	22,0	21,2	22,3	22,7
	4H	21,3	22,4	21,7	22,7	23,1	21,0	22,0	21,3	22,4	22,7
	6H	21,3	22,2	21,7	22,6	23,0	21,0	21,9	21,4	22,3	22,7
	8H	21,3	22,1	21,8	22,5	22,9	21,0	21,8	21,4	22,2	22,6
	12H	21,3	22,1	21,7	22,4	22,9	21,0	21,7	21,4	22,1	22,6
4H	2H	20,9	21,9	21,3	22,3	22,6	20,4	21,5	20,8	21,8	22,2
	3H	21,3	22,1	21,7	22,5	22,9	20,9	21,7	21,3	22,1	22,5
	4H	21,3	22,1	21,8	22,5	23,0	21,0	21,8	21,5	22,2	22,6
	6H	21,3	22,0	21,8	22,4	22,9	21,0	21,7	21,5	22,1	22,6
	8H	21,3	21,9	21,7	22,3	22,8	21,0	21,6	21,5	22,1	22,5
	12H	21,3	21,7	21,8	22,2	22,7	21,0	21,5	21,5	22,0	22,5
8H	4H	21,3	21,9	21,8	22,3	22,8	21,0	21,6	21,5	22,0	22,5
	6H	21,2	21,7	21,7	22,2	22,7	21,0	21,5	21,5	22,0	22,5
	8H	21,2	21,6	21,7	22,1	22,6	21,0	21,4	21,5	21,9	22,4
	12H	21,2	21,5	21,7	22,0	22,6	21,0	21,3	21,5	21,8	22,4
12H	4H	21,3	21,8	21,8	22,2	22,7	21,0	21,5	21,5	21,9	22,4
	6H	21,3	21,6	21,8	22,1	22,7	21,0	21,4	21,5	21,9	22,4
	8H	21,2	21,5	21,7	22,0	22,6	21,0	21,3	21,5	21,8	22,4

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 590 B = 312
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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°		14550.3	15549.9	18415.8	20737.6	15760.6	13853.4	13503.2
50°		10523.7	9357.7	8784.3	9912.0	9944.4	11183.0	12782.6
55°		8890.8	8433.3	7504.4	7864.2	8295.3	10202.4	12349.4
60°		8605.8	9641.1	8543.1	7132.7	6924.1	8404.0	10721.3
65°		11825.5	8988.5	8603.7	7465.2	6587.5	8683.6	11302.2
70°		10718.5	8112.3	7851.0	7483.8	6719.9	8231.1	11347.1
75°		6080.1	4600.4	5066.3	5926.3	5962.7	6345.7	6195.0
80°		2336.5	2121.2	2468.4	3026.1	3473.3	3474.3	3488.3
85°		413.9	419.5	479.1	632.0	1031.0	1126.0	1236.0

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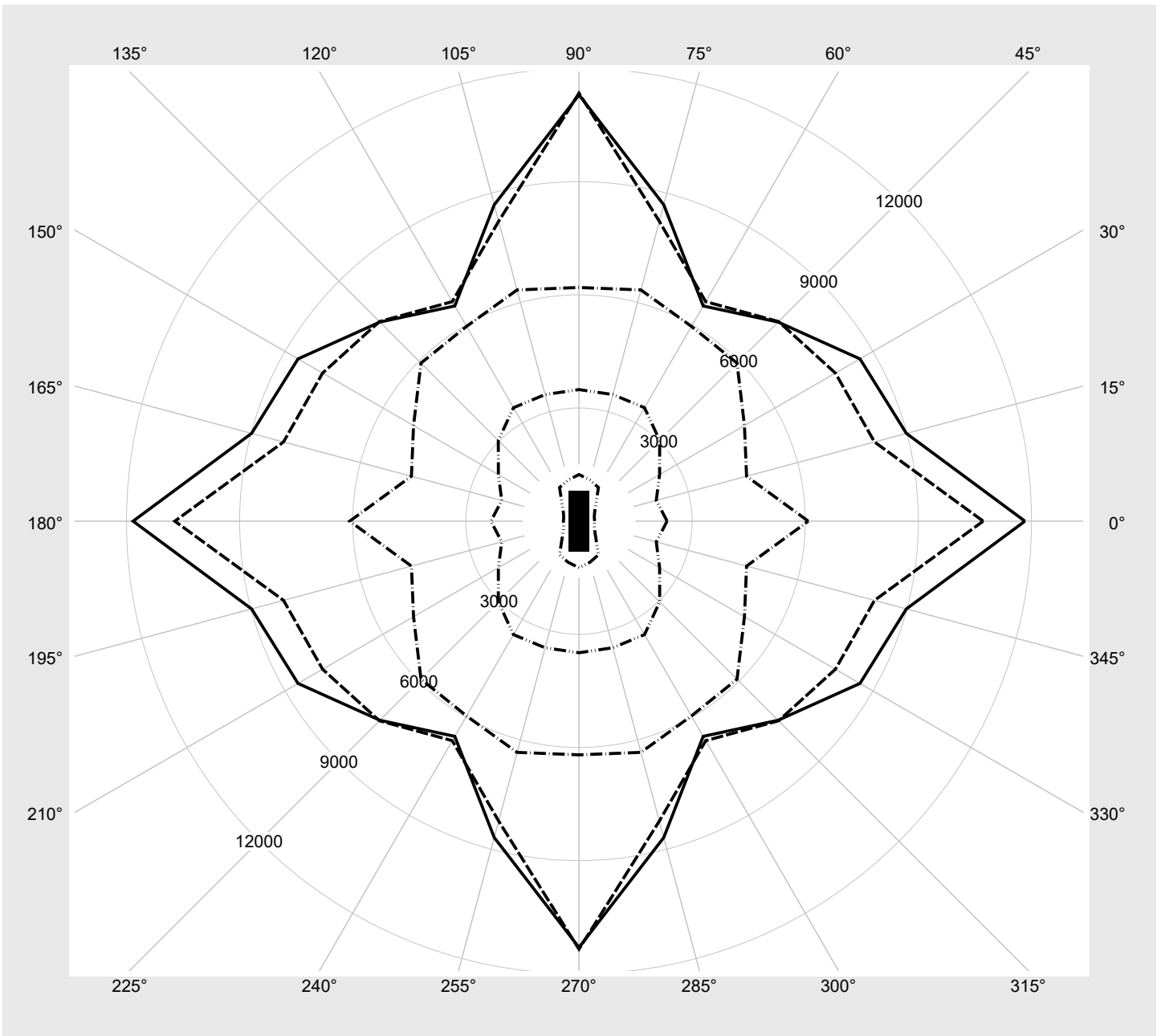
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Leuchtdichten in cd/m²

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	29910	189.7
95	240	252	28376	179.0
90	227	250	26935	169.1
85	213	247	25371	158.4
80	200	245	23905	148.6
75	187	243	22424	139.0
70	174	240	20934	129.4
65	161	237	19428	119.8
60	148	234	17914	110.4
55	136	231	16494	101.5
50	123	228	14954	92.1
45	110	224	13400	82.8
40	98	220	11954	74.2
35	86	215	10497	65.6
30	74	210	9026	57.1
25	61	204	7425	48.1
20	49	197	5935	39.6
15	37	188	4434	31.2
10	26	177	3041	23.3
5	14	161	1519	14.9