

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D24NCA + 59HL91001
EAN: 4058352322987 + 4058352323519

LP-Nummer
58924_4

Ausführung breit strahlend, UGR≤22,
Einscheibensicherheitsglas (ESG)
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 31620 lm
Systemleistung = 189.6 W
Lichtausbeute = 166.8 lm/W

Seriendokumentation
13.06.2019

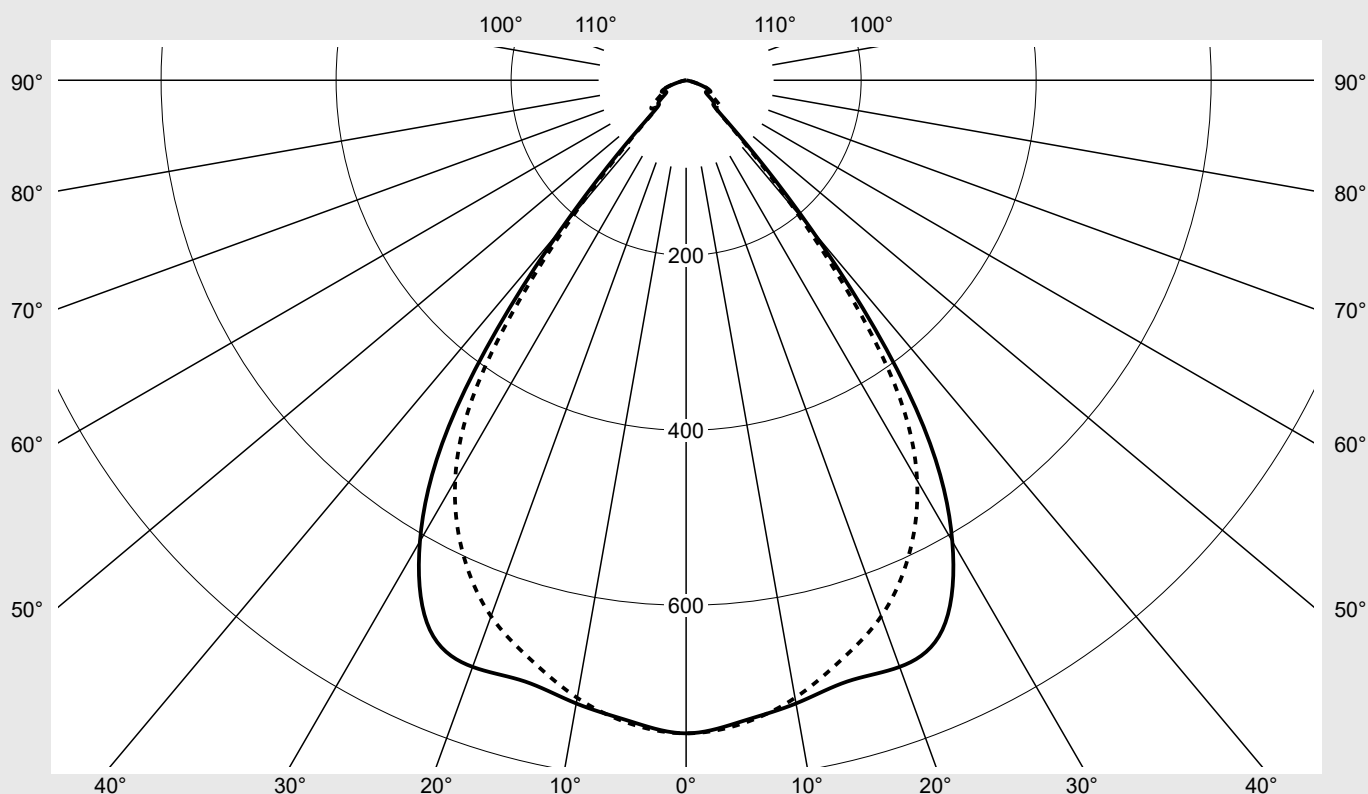
siteco

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

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°	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									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
x	y										
2H	2H	21,1	22,4	21,5	22,7	23,1	20,7	22,0	21,0	22,3	22,6
	3H	21,4	22,6	21,8	22,9	23,3	21,0	22,2	21,4	22,5	22,9
	4H	21,5	22,5	21,9	22,9	23,3	21,1	22,2	21,5	22,6	22,9
	6H	21,5	22,4	21,9	22,8	23,2	21,2	22,1	21,6	22,5	22,9
	8H	21,5	22,3	22,0	22,7	23,1	21,2	22,0	21,6	22,4	22,8
	12H	21,5	22,2	21,9	22,6	23,1	21,2	21,9	21,6	22,3	22,8
4H	2H	21,1	22,1	21,5	22,5	22,8	20,6	21,7	21,0	22,0	22,4
	3H	21,5	22,3	21,9	22,7	23,1	21,0	21,9	21,5	22,3	22,7
	4H	21,5	22,3	22,0	22,7	23,1	21,2	22,0	21,6	22,4	22,8
	6H	21,5	22,1	22,0	22,6	23,1	21,2	21,9	21,7	22,3	22,8
	8H	21,5	22,0	21,9	22,5	23,0	21,2	21,8	21,7	22,2	22,7
	12H	21,5	21,9	22,0	22,4	22,9	21,2	21,7	21,7	22,2	22,7
8H	4H	21,5	22,1	22,0	22,5	23,0	21,2	21,8	21,7	22,2	22,7
	6H	21,4	21,9	21,9	22,4	22,9	21,2	21,7	21,7	22,2	22,7
	8H	21,4	21,8	21,9	22,3	22,8	21,2	21,6	21,7	22,1	22,6
	12H	21,4	21,7	21,9	22,2	22,8	21,2	21,5	21,7	22,0	22,6
12H	4H	21,5	22,0	22,0	22,4	22,9	21,2	21,7	21,7	22,1	22,6
	6H	21,4	21,8	22,0	22,3	22,8	21,2	21,6	21,7	22,1	22,6
	8H	21,4	21,7	21,9	22,2	22,8	21,2	21,5	21,7	22,0	22,6

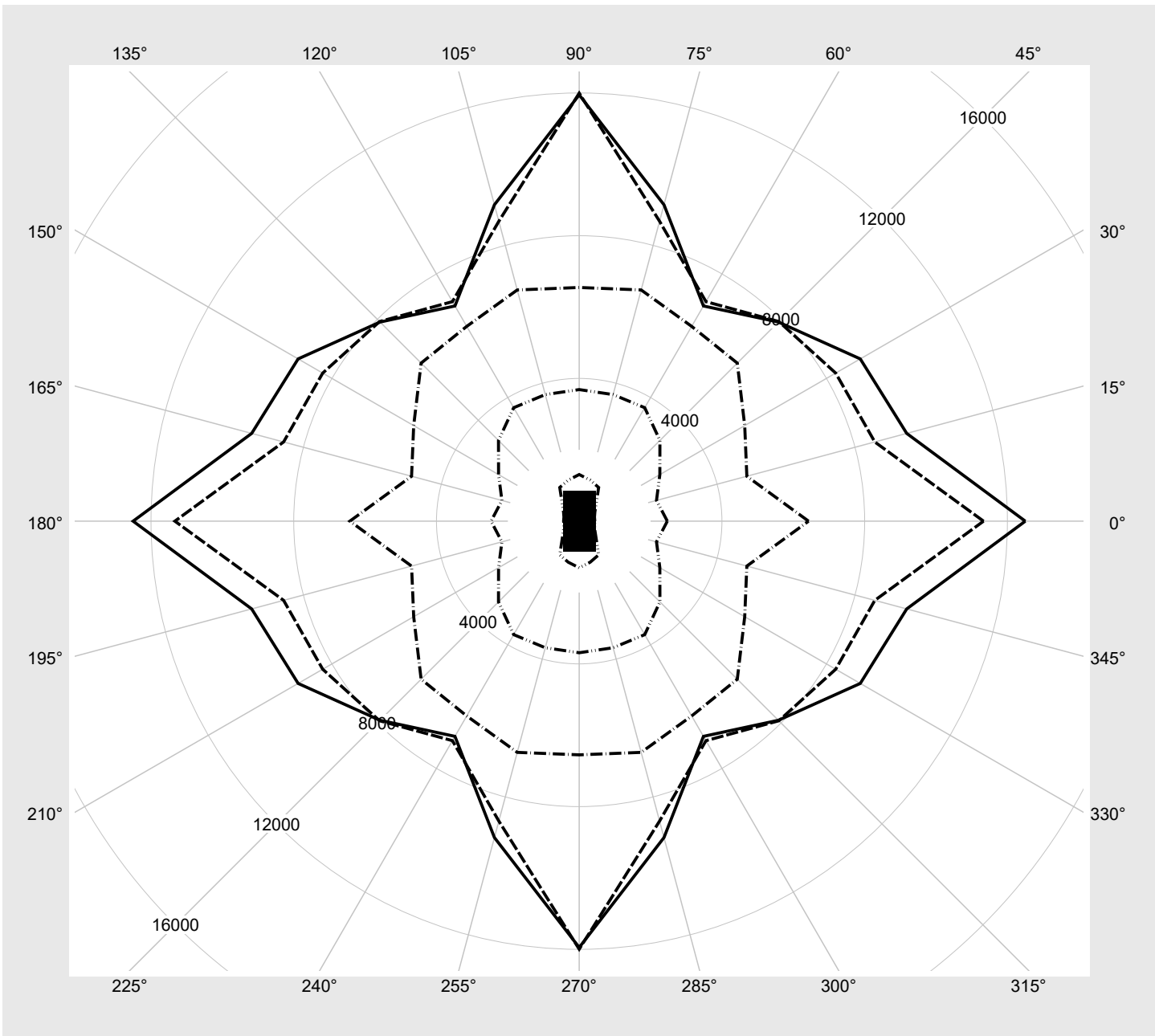
Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 590 B = 312
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C- Ebenen	γ	Leuchtdichte in cd/m ²						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		15382.2	16438.9	19468.7	21923.2	16661.7	14645.4	14275.2
50°		11125.4	9892.6	9286.6	10478.7	10512.9	11822.3	13513.4
55°		9399.1	8915.4	7933.5	8313.8	8769.6	10785.7	13055.4
60°		9097.8	10192.3	9031.5	7540.5	7319.9	8884.5	11334.3
65°		12501.6	9502.4	9095.5	7892.0	6964.1	9180.1	11948.4
70°		11331.3	8576.1	8299.9	7911.6	7104.1	8701.7	11995.8
75°		6427.7	4863.5	5355.9	6265.1	6303.6	6708.5	6549.2
80°		2470.0	2242.5	2609.5	3199.1	3671.9	3672.9	3687.7
85°		437.5	443.4	506.5	668.1	1089.9	1190.4	1306.7

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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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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	31620	189.6
95	240	252	30039	179.4
90	227	250	28458	169.2
85	213	248	26877	158.9
80	200	245	25296	148.9
75	187	243	23715	139.4
70	174	240	22134	129.5
65	161	237	20553	120.1
60	148	234	18972	110.8
55	135	231	17391	101.4
50	123	228	15810	92.3
45	110	224	14229	83.2
40	98	220	12648	74.4
35	85	215	11067	65.5
30	73	210	9486	56.9
25	61	204	7905	48.4
20	49	197	6324	39.9
15	37	188	4743	31.4
10	25	177	3161	23.0