

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D24NCA
EAN: 4058352322987

LP-Nummer
58922_4



Ausführung breit strahlend, UGR≤22
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 33150 lm
Systemleistung = 189.6 W
Lichtausbeute = 174.8 lm/W

Seriendokumentation
21.05.2019

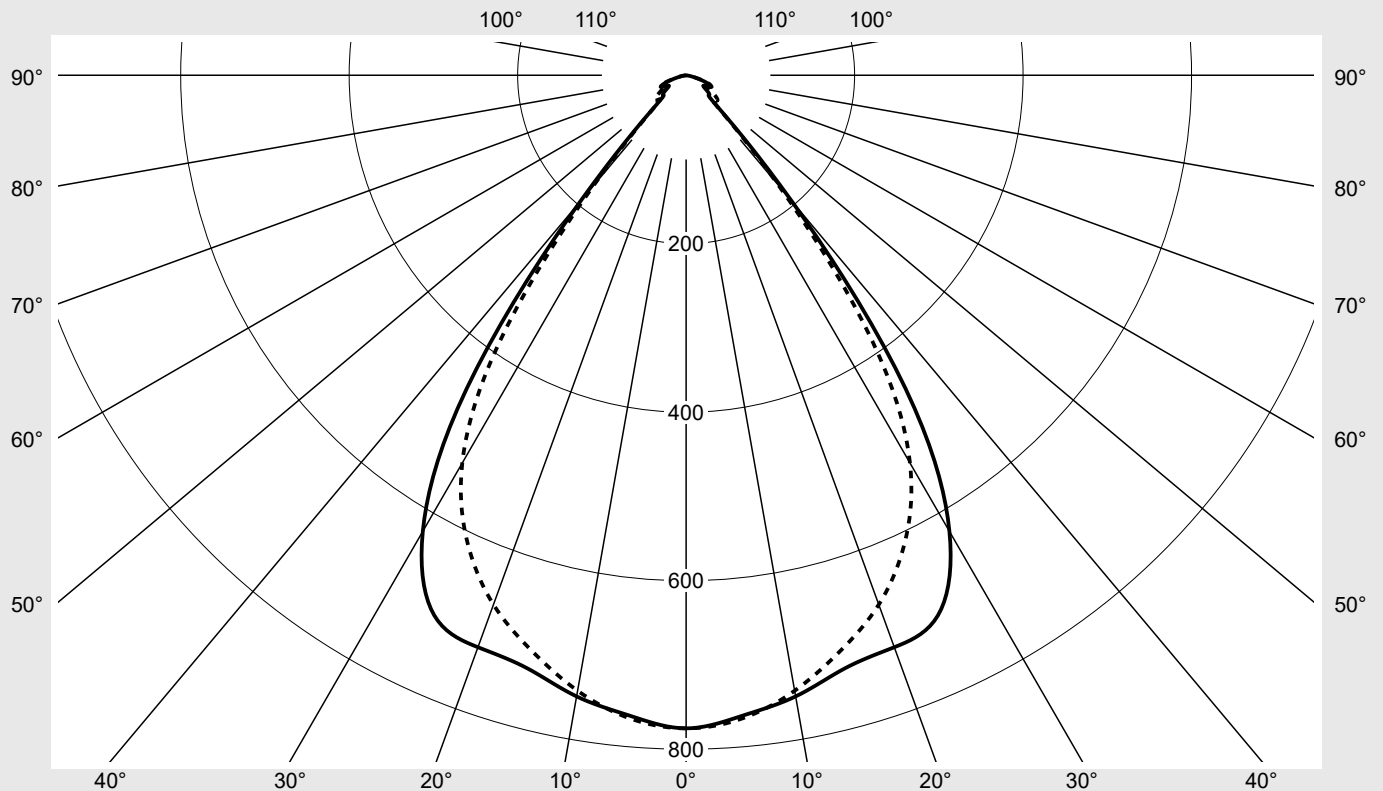
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 775 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=89 N2=96 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
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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	Lichtstärke in cd/klm							Lichtstrom in lm/klm	
0°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	4.6	4.6
5°	763.3	765.5	767.8	768.1	766.5	768.2	766.4	36.6	41.3
10°	748.7	752.6	756.7	755.9	749.0	745.7	741.9	71.5	112.7
15°	728.8	736.6	748.6	748.7	732.9	716.3	707.4	104.1	216.8
20°	722.5	731.1	745.9	741.9	711.6	682.4	668.7	134.6	351.4
25°	707.4	710.1	723.4	713.1	669.4	627.0	613.5	158.4	509.9
30°	625.1	622.7	643.6	650.9	594.8	541.3	531.4	165.9	675.7
35°	454.3	465.0	515.3	546.7	478.1	404.7	385.8	148.3	824.0
40°	194.7	222.6	276.1	324.0	261.7	198.8	171.4	86.1	910.1
45°	52.4	51.4	56.0	64.9	54.8	51.5	51.3	21.3	931.5
50°	36.0	31.0	27.7	34.1	33.7	39.2	46.8	14.5	946.0
55°	27.7	25.7	21.5	23.0	24.8	33.2	42.0	12.2	958.2
60°	24.8	27.6	25.1	19.0	18.2	24.5	32.6	11.3	969.5
65°	33.0	23.0	22.5	18.8	16.0	23.0	31.5	11.2	980.7
70°	25.9	19.0	18.9	17.8	15.3	19.4	28.1	10.1	990.8
75°	12.6	8.9	10.2	12.8	12.0	13.0	13.0	6.1	996.9
80°	3.5	3.2	4.0	5.1	6.3	6.1	5.9	2.6	999.6
85°	0.3	0.3	0.4	0.5	1.1	1.3	1.4	0.4	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	21,2	22,5	22,8	20,4	21,7	20,7	22,0	22,3
	3H	21,3	22,4	21,7	22,8	23,1	20,9	22,0	21,3	22,4	22,7
	4H	21,4	22,5	21,8	22,8	23,2	21,1	22,2	21,5	22,5	22,9
	6H	21,4	22,4	21,8	22,7	23,1	21,2	22,1	21,6	22,5	22,9
	8H	21,5	22,3	21,9	22,7	23,1	21,3	22,1	21,7	22,5	22,9
	12H	21,5	22,2	21,9	22,6	23,0	21,3	22,0	21,7	22,4	22,8
4H	2H	20,8	21,8	21,2	22,2	22,6	20,3	21,3	20,7	21,7	22,1
	3H	21,4	22,2	21,8	22,6	23,0	20,9	21,8	21,3	22,2	22,6
	4H	21,5	22,3	22,0	22,7	23,1	21,2	22,0	21,7	22,4	22,8
	6H	21,5	22,2	22,0	22,6	23,1	21,4	22,0	21,8	22,5	22,9
	8H	21,5	22,1	22,0	22,5	23,0	21,4	22,0	21,9	22,4	22,9
	12H	21,5	22,0	22,0	22,4	22,9	21,4	21,9	21,9	22,4	22,9
8H	4H	21,5	22,1	22,0	22,6	23,0	21,3	21,9	21,7	22,3	22,8
	6H	21,5	22,0	22,0	22,5	23,0	21,5	21,9	22,0	22,4	22,9
	8H	21,5	21,9	22,0	22,4	22,9	21,5	21,9	22,0	22,4	22,9
	12H	21,5	21,8	22,0	22,3	22,9	21,5	21,8	22,0	22,3	22,9
12H	4H	21,5	22,0	22,0	22,5	23,0	21,3	21,8	21,8	22,2	22,7
	6H	21,6	21,9	22,1	22,4	23,0	21,5	21,8	22,0	22,3	22,9
	8H	21,5	21,8	22,0	22,3	22,9	21,5	21,8	22,0	22,3	22,9

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

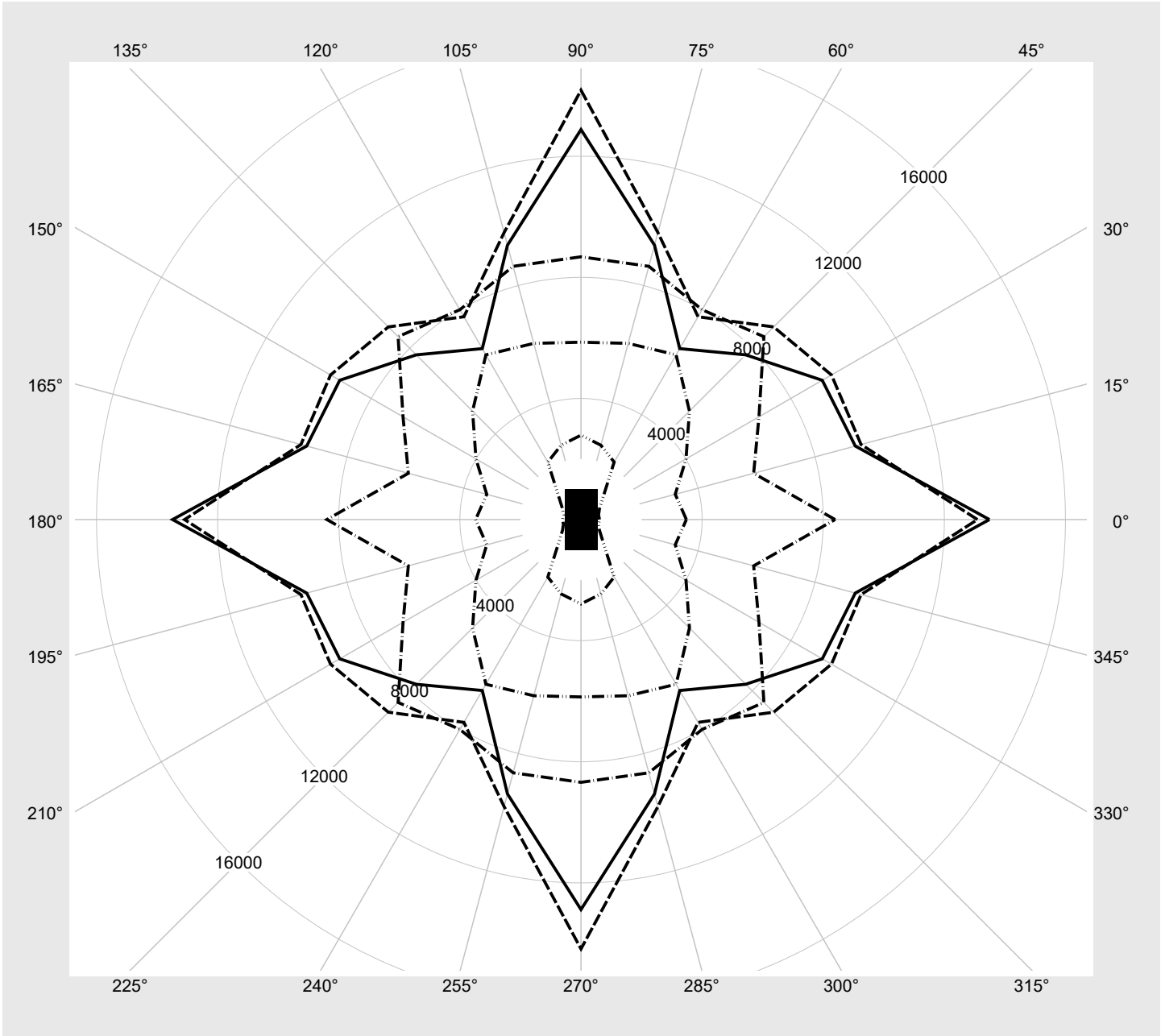
Lichttechnische Abmessungen in mm: L = 600, B = 320

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°		12788.3	12555.4	13674.9	15837.8	13386.5	12583.2	12517.3
50°		9670.1	8335.4	7453.3	9168.0	9059.8	10524.0	12557.8
55°		8332.8	7732.2	6468.0	6938.1	7453.8	9986.2	12642.4
60°		8562.7	9546.9	8665.3	6573.7	6278.8	8466.4	11248.6
65°		13488.7	9379.2	9201.1	7693.6	6519.9	9382.1	12881.3
70°		13093.3	9575.8	9552.1	8998.3	7734.7	9813.6	14181.2
75°		8392.0	5903.8	6787.0	8542.8	8002.4	8659.5	8678.9
80°		3480.0	3222.5	4005.0	5064.9	6281.9	6024.4	5858.3
85°		610.2	600.2	703.3	1024.2	2191.0	2541.6	2787.3

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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	33150	189.6
95	240	252	31493	179.4
90	227	250	29835	169.2
85	213	248	28178	158.9
80	200	245	26520	148.9
75	187	243	24863	139.4
70	174	240	23205	129.5
65	161	237	21548	120.1
60	148	234	19890	110.8
55	135	231	18233	101.4
50	123	227	16575	92.3
45	110	224	14918	83.2
40	98	219	13260	74.4
35	85	214	11603	65.5
30	73	209	9945	56.9
25	61	202	8288	48.4
20	49	194	6630	39.9
15	37	184	4973	31.4
10	25	170	3314	23.0