

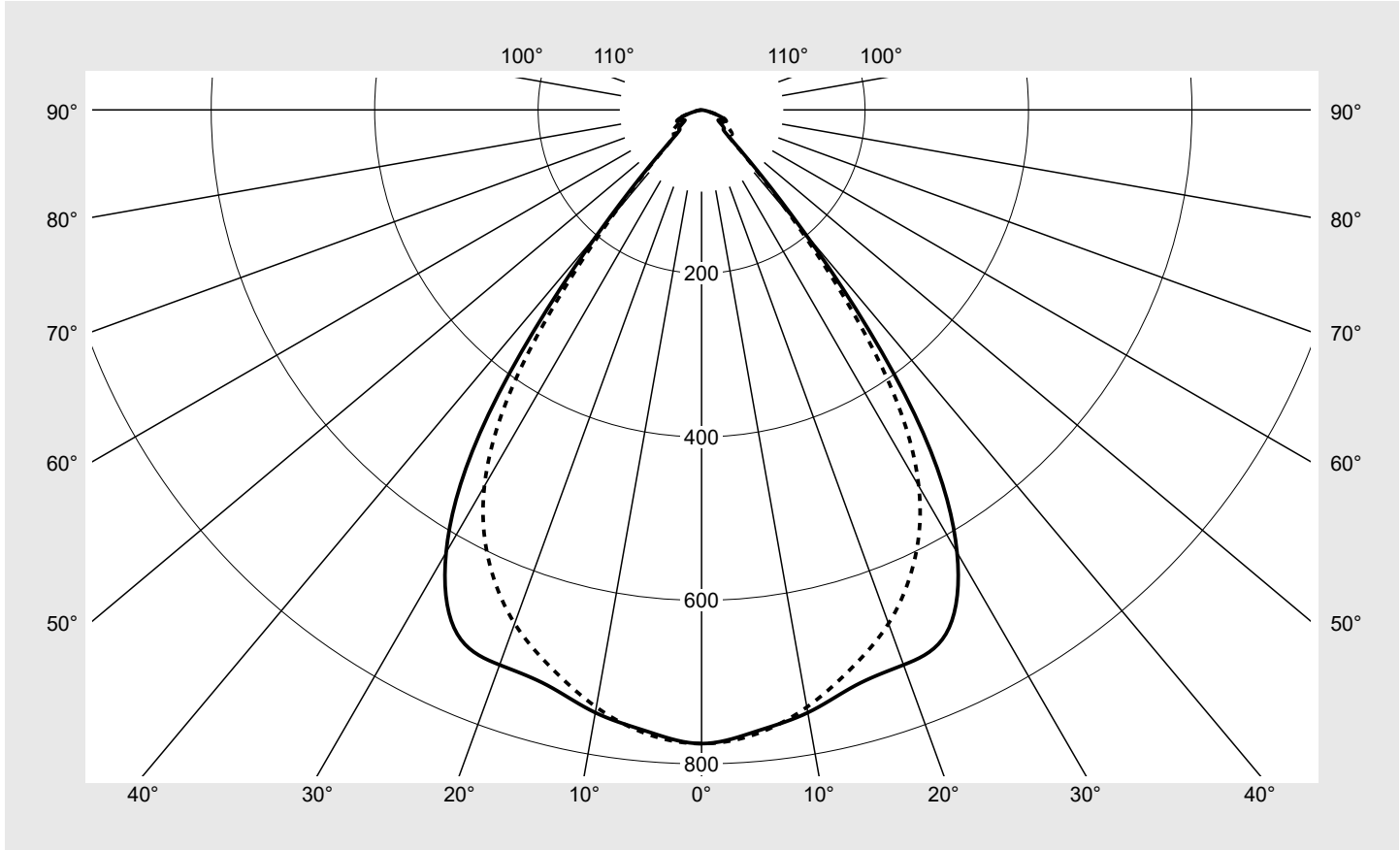


Photometric test report

Family Highbay 11	Order number: 51HLA2D24NCA EAN: 4058352322987	LP number 58922_4
	Version wide distribution, UGR≤22 Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 33150 lm Power consumption = 189.6 W Luminous efficacy = 174.8 lm/W	serial documentation 21.05.2019
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 775 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=89 N2=96 N3=99 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities	Maximum luminous intensity
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C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux 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-Table	Standard room	siteco	
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Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (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

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 600 B = 320
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C-planes	γ	Luminance 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	

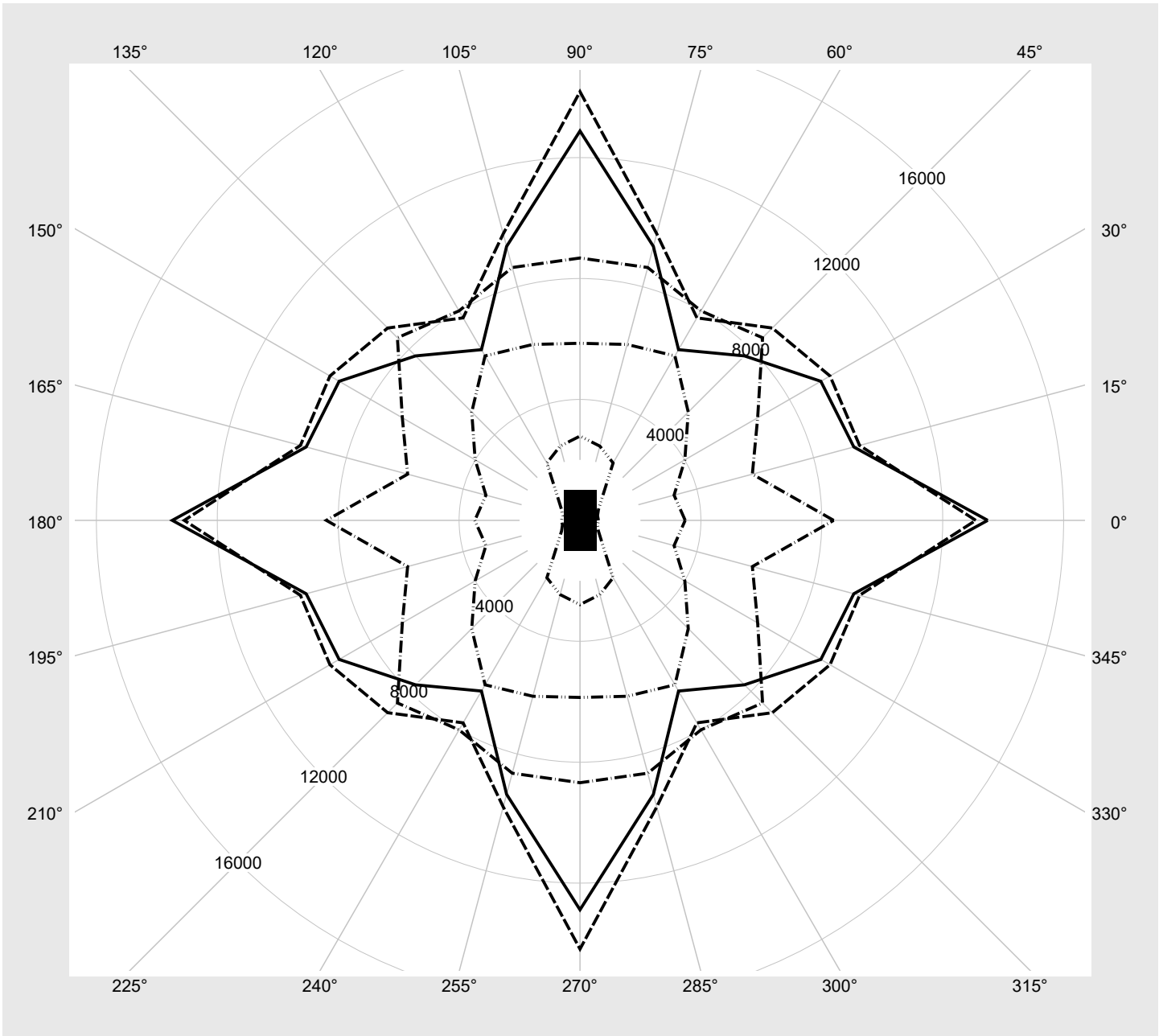
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [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