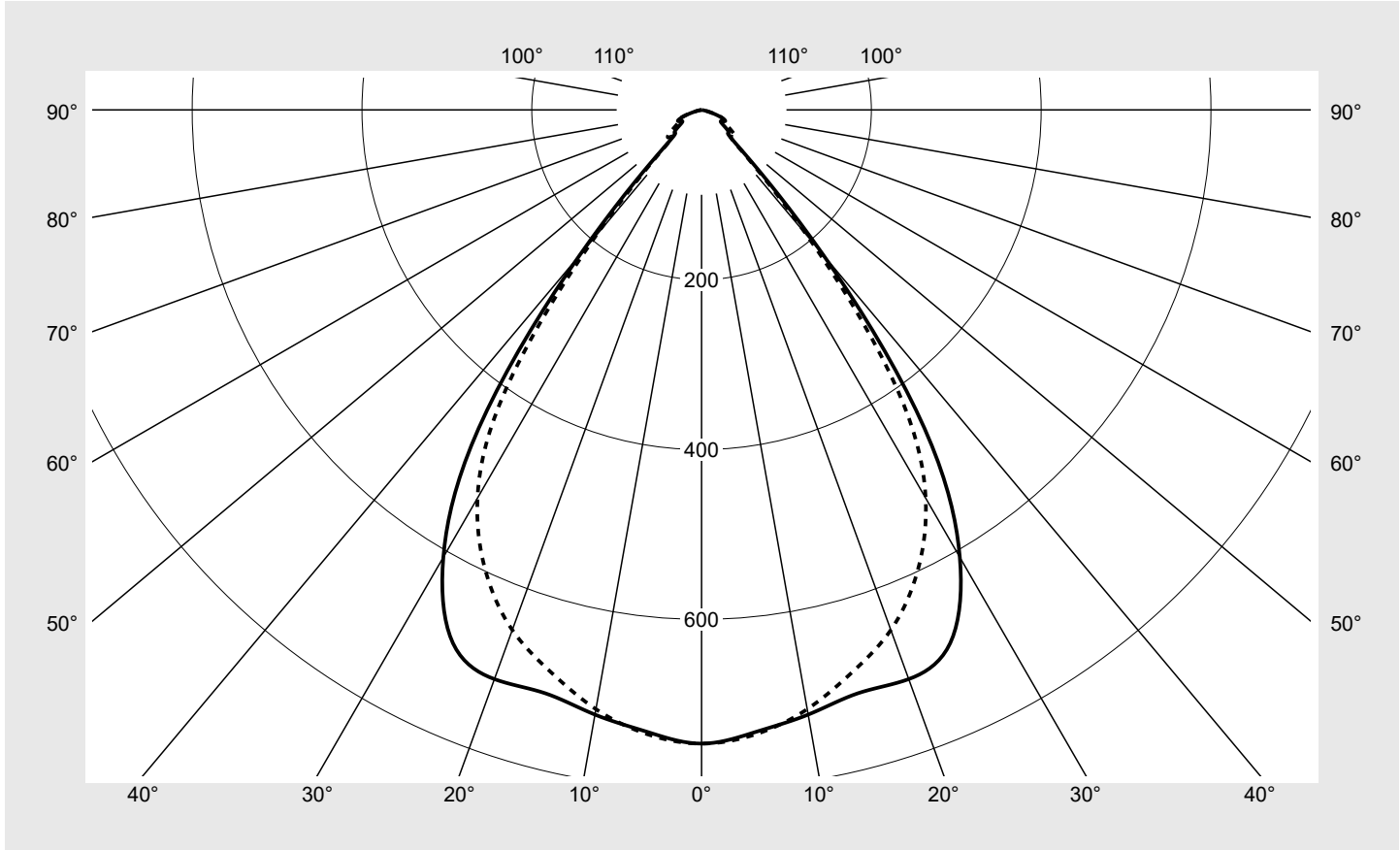


# Photometric test report

<b>Family</b> Highbay 11	<b>Order number:</b> 51HLA2D24MCAD + 59HL91002 <b>EAN:</b> 4058352341636 + 4058352341650	<b>LP number</b> 58924_17
<b>Version</b>	wide distribution, UGR≤22, cover panel, PC	<b>serial documentation</b> 13.06.2019
<b>Lamps</b>	LED 4000 K   CRI ≥ 80	
<b>Controlgear</b>	ECG-DALI	
<b>Rated values</b>	Net luminous flux = 25980 lm Power consumption = 162.4 W Luminous efficacy = 160 lm/W	



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 746 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=88 N2=97 N3=100 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity



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°	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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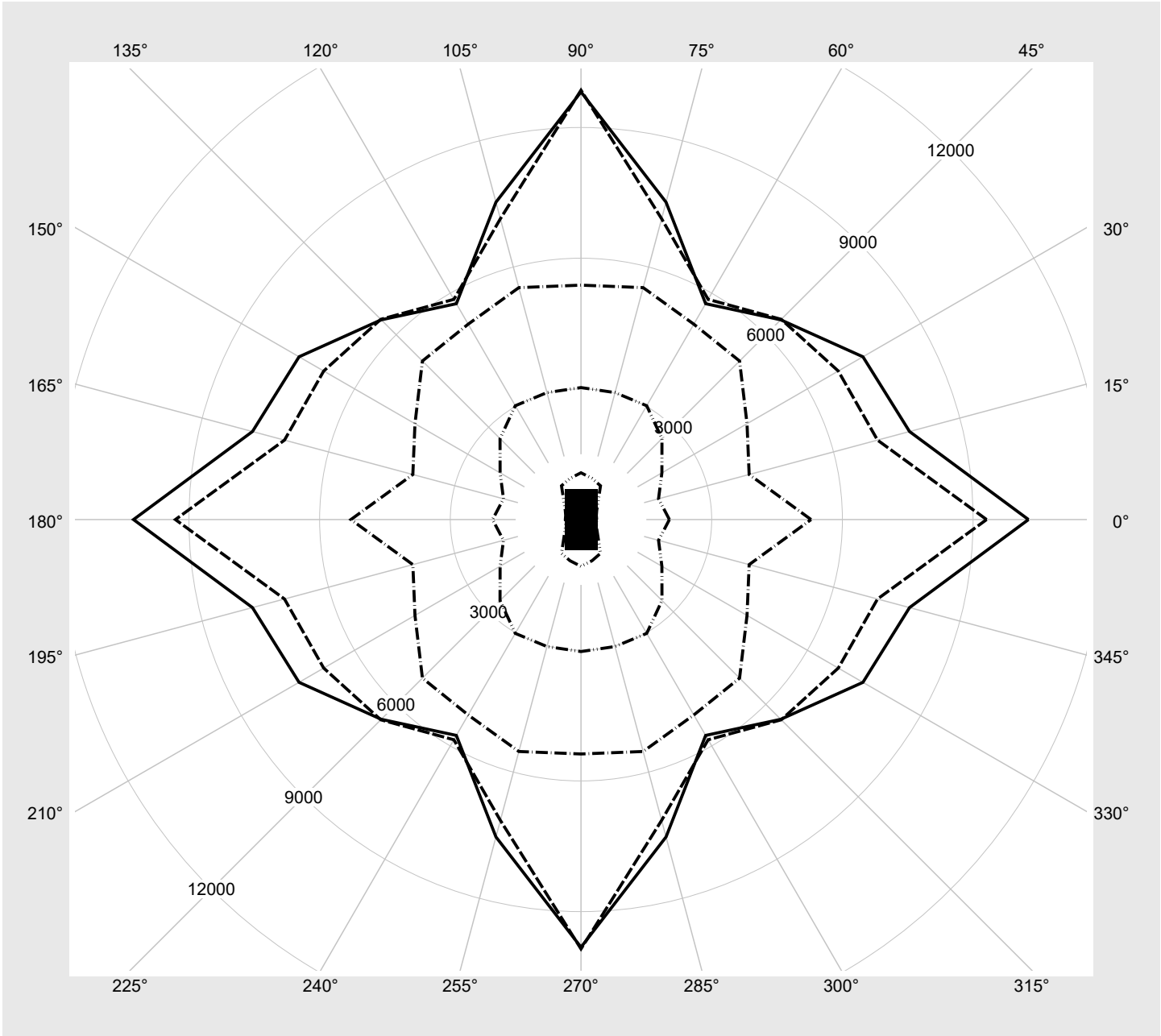
UGR-Table		Standard room									
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	20.5	21.7	20.8	22.1	22.4	20.0	21.3	20.4	21.6	21.9
	3H	20.8	21.9	21.1	22.2	22.6	20.4	21.5	20.7	21.8	22.2
	4H	20.8	21.9	21.2	22.2	22.6	20.5	21.5	20.9	21.9	22.2
	6H	20.8	21.7	21.2	22.1	22.5	20.5	21.4	20.9	21.8	22.2
	8H	20.8	21.7	21.3	22.0	22.4	20.5	21.3	21.0	21.7	22.1
	12H	20.8	21.6	21.3	22.0	22.4	20.5	21.3	20.9	21.7	22.1
4H	2H	20.4	21.4	20.8	21.8	22.2	19.9	21.0	20.3	21.3	21.7
	3H	20.8	21.6	21.2	22.0	22.4	20.4	21.2	20.8	21.6	22.0
	4H	20.8	21.6	21.3	22.0	22.5	20.5	21.3	21.0	21.7	22.1
	6H	20.8	21.5	21.3	21.9	22.4	20.5	21.2	21.0	21.6	22.1
	8H	20.8	21.4	21.3	21.8	22.3	20.5	21.1	21.0	21.6	22.0
	12H	20.8	21.3	21.3	21.7	22.2	20.5	21.0	21.0	21.5	22.0
8H	4H	20.8	21.4	21.3	21.8	22.3	20.5	21.1	21.0	21.5	22.0
	6H	20.8	21.2	21.3	21.7	22.2	20.5	21.0	21.0	21.5	22.0
	8H	20.7	21.1	21.2	21.6	22.2	20.5	20.9	21.0	21.4	21.9
	12H	20.7	21.0	21.2	21.5	22.1	20.5	20.8	21.0	21.3	21.9
12H	4H	20.8	21.3	21.3	21.8	22.3	20.5	21.0	21.0	21.4	21.9
	6H	20.8	21.1	21.3	21.6	22.2	20.5	20.9	21.0	21.4	21.9
	8H	20.7	21.0	21.2	21.5	22.1	20.5	20.8	21.0	21.3	21.9

Luminance table		Max. for $\gamma \geq 65^\circ$							Photometric dimensions in mm:		L = 590	B = 312
C-planes	$\gamma$	0°	15°	30°	45°	60°	75°	90°				
		180°	165°	150°	135°	120°	105°		270°			
		195°	210°	225°	240°	255°	270°					
		345°	330°	315°	300°	285°	270°					
		Luminance in cd/m <sup>2</sup>										
45°		12638.5	13506.7	15996.1	18012.8	13689.8	12033.1	11728.9				
50°		9141.0	8128.1	7630.1	8609.6	8637.7	9713.6	11103.0				
55°		7722.6	7325.2	6518.4	6830.9	7205.4	8861.9	10726.7				
60°		7475.0	8374.3	7420.6	6195.5	6014.3	7299.7	9312.6				
65°		10271.7	7807.5	7473.2	6484.3	5721.9	7542.6	9817.2				
70°		9310.2	7046.4	6819.4	6500.5	5836.9	7149.6	9856.1				
75°		5281.2	3996.0	4400.6	5147.6	5179.3	5511.9	5381.0				
80°		2029.5	1842.5	2144.1	2628.5	3017.0	3017.8	3030.0				
85°		359.5	364.4	416.2	549.0	895.5	978.1	1073.6				

**Photometric test report**

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**Luminance values in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>siteco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	25980	162.4
95	241	252	24681	153.6
90	227	250	23382	145.0
85	214	248	22083	136.6
80	201	245	20784	128.3
75	188	243	19485	120.1
70	175	240	18186	111.9
65	162	238	16887	103.9
60	149	235	15588	95.9
55	136	232	14289	88.1
50	124	228	12990	80.3
45	111	225	11691	72.7
40	99	220	10392	65.0
35	86	216	9093	57.5
30	74	211	7794	50.1
25	62	205	6495	42.6
20	50	198	5196	35.3
15	38	190	3897	28.1
10	26	179	2597	20.8