

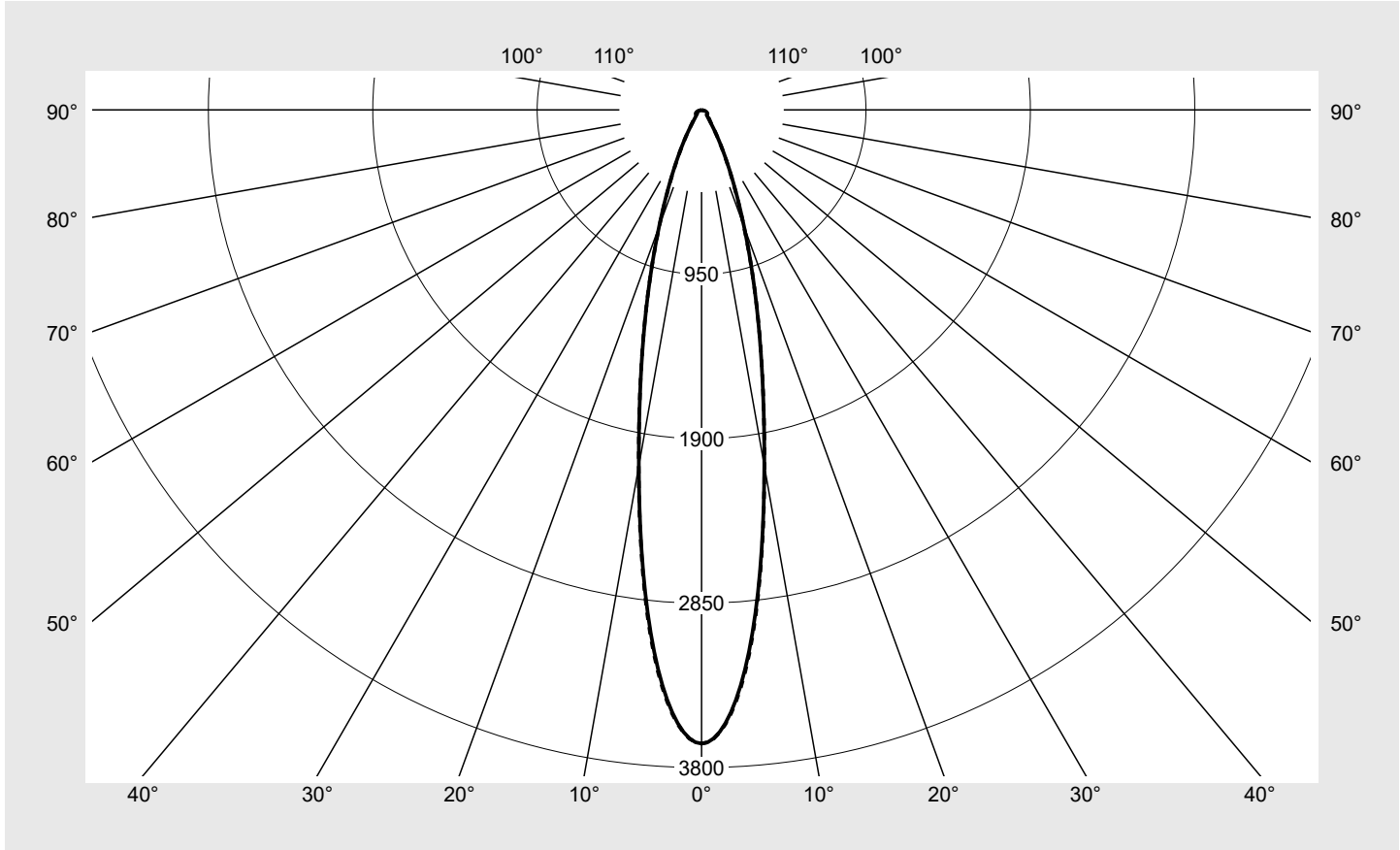


# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HLA1D34SCA</b> <b>EAN: 4058352322949</b>	<b>LP number</b> <b>58918_5</b>
	<b>Version</b> narrow distribution, UGR≤22 <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI	<b>serial documentation</b> <b>21.05.2019</b>
	<b>Rated values</b> Net luminous flux = 48560 lm Power consumption = 284.4 W Luminous efficacy = 170.7 lm/W	

Luminous intensity in cd/klm C180-0 C270-90 Imax: 3662 cd/klm



Classifications	
DIN 5040	A 7 0
CIE	N1=88 N2=95 N3=99 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
		<b>siteco</b>

C-planes $\gamma$	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°	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	21.9	21.9
5°	3142.6	3138.8	3148.7	3152.8	3150.8	3162.1	3157.3	150.5	172.4
10°	2088.2	2082.4	2095.8	2102.6	2097.1	2098.1	2092.4	199.3	371.8
15°	1265.5	1263.0	1272.3	1276.0	1271.9	1272.7	1269.2	180.2	552.0
20°	717.4	718.4	730.4	738.2	732.8	722.5	712.3	136.1	688.1
25°	380.2	383.6	397.1	405.5	395.8	382.2	373.9	90.4	778.5
30°	189.9	192.8	203.8	209.2	205.7	196.2	189.8	54.7	833.2
35°	93.4	93.2	98.1	106.1	108.6	103.6	99.4	31.8	865.0
40°	56.8	57.1	60.0	67.1	71.1	71.1	70.3	22.9	887.9
45°	41.2	40.8	44.9	50.9	50.2	47.6	46.5	18.0	905.9
50°	41.3	41.9	46.2	48.9	40.8	33.1	32.5	17.3	923.2
55°	41.3	42.1	45.2	43.2	36.0	29.8	29.9	17.4	940.6
60°	39.0	39.2	40.5	39.6	33.4	27.4	27.5	16.9	957.4
65°	33.8	33.6	34.5	34.8	29.3	24.3	24.5	15.4	972.8
70°	26.5	26.3	27.0	27.6	23.9	20.0	20.0	12.7	985.5
75°	15.9	16.7	18.0	19.3	17.3	15.5	15.6	9.0	994.6
80°	6.4	6.9	7.9	9.2	9.9	9.6	10.9	4.7	999.3
85°	0.5	0.5	0.6	1.0	1.8	2.4	3.4	0.7	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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Family Highbay 11	Order number: 51HLA1D34SCA EAN: 4058352322949	LP number 58918_5
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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	17.2	18.3	17.6	18.7	19.0	16.0	17.1	16.3	17.4	17.7
	3H	19.1	20.1	19.5	20.4	20.8	17.6	18.5	17.9	18.9	19.2
	4H	19.7	20.6	20.1	20.9	21.3	18.3	19.2	18.7	19.5	19.9
	6H	19.9	20.7	20.3	21.1	21.5	18.9	19.8	19.3	20.1	20.5
	8H	20.0	20.7	20.4	21.1	21.5	19.3	19.9	19.7	20.3	20.7
	12H	20.0	20.6	20.4	21.0	21.4	19.3	20.0	19.7	20.4	20.8
4H	2H	18.0	18.9	18.4	19.3	19.7	17.1	18.0	17.5	18.4	18.8
	3H	20.0	20.8	20.4	21.2	21.6	18.8	19.6	19.3	20.0	20.4
	4H	20.7	21.4	21.1	21.8	22.2	19.6	20.3	20.1	20.7	21.2
	6H	21.0	21.5	21.4	22.0	22.4	20.3	20.9	20.8	21.3	21.8
	8H	21.0	21.5	21.5	22.0	22.4	20.6	21.1	21.0	21.5	22.0
	12H	21.0	21.4	21.4	21.9	22.4	20.6	21.1	21.1	21.5	22.0
8H	4H	21.0	21.5	21.5	21.9	22.4	20.1	20.6	20.6	21.1	21.5
	6H	21.4	21.7	21.9	22.2	22.7	20.9	21.3	21.4	21.8	22.3
	8H	21.3	21.7	21.8	22.2	22.7	21.1	21.5	21.6	22.0	22.5
	12H	21.3	21.6	21.8	22.1	22.7	21.2	21.5	21.7	22.0	22.5
12H	4H	21.0	21.4	21.5	21.9	22.4	20.1	20.5	20.6	21.0	21.5
	6H	21.3	21.7	21.8	22.2	22.7	20.9	21.2	21.4	21.7	22.2
	8H	21.3	21.7	21.9	22.2	22.7	21.1	21.4	21.6	21.9	22.5

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 900 B = 320
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		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°		9816.1	9720.7	10714.4	12136.0	11974.1	11353.4	11086.8	
50°		10844.5	11000.6	12108.9	12830.7	10694.7	8690.1	8523.3	
55°		12150.4	12374.1	13296.3	12686.9	10572.4	8754.9	8802.2	
60°		13156.1	13218.1	13644.0	13360.7	11271.7	9240.6	9281.4	
65°		13475.1	13392.2	13746.0	13885.3	11708.1	9705.7	9787.5	
70°		13049.8	12947.8	13292.4	13624.7	11776.4	9876.5	9879.9	
75°		10347.8	10857.9	11700.3	12582.4	11278.1	10103.5	10161.5	
80°		6251.3	6670.7	7659.2	8940.9	9622.5	9337.1	10573.1	
85°		891.8	897.7	1226.5	1971.4	3503.6	4579.2	6635.7	

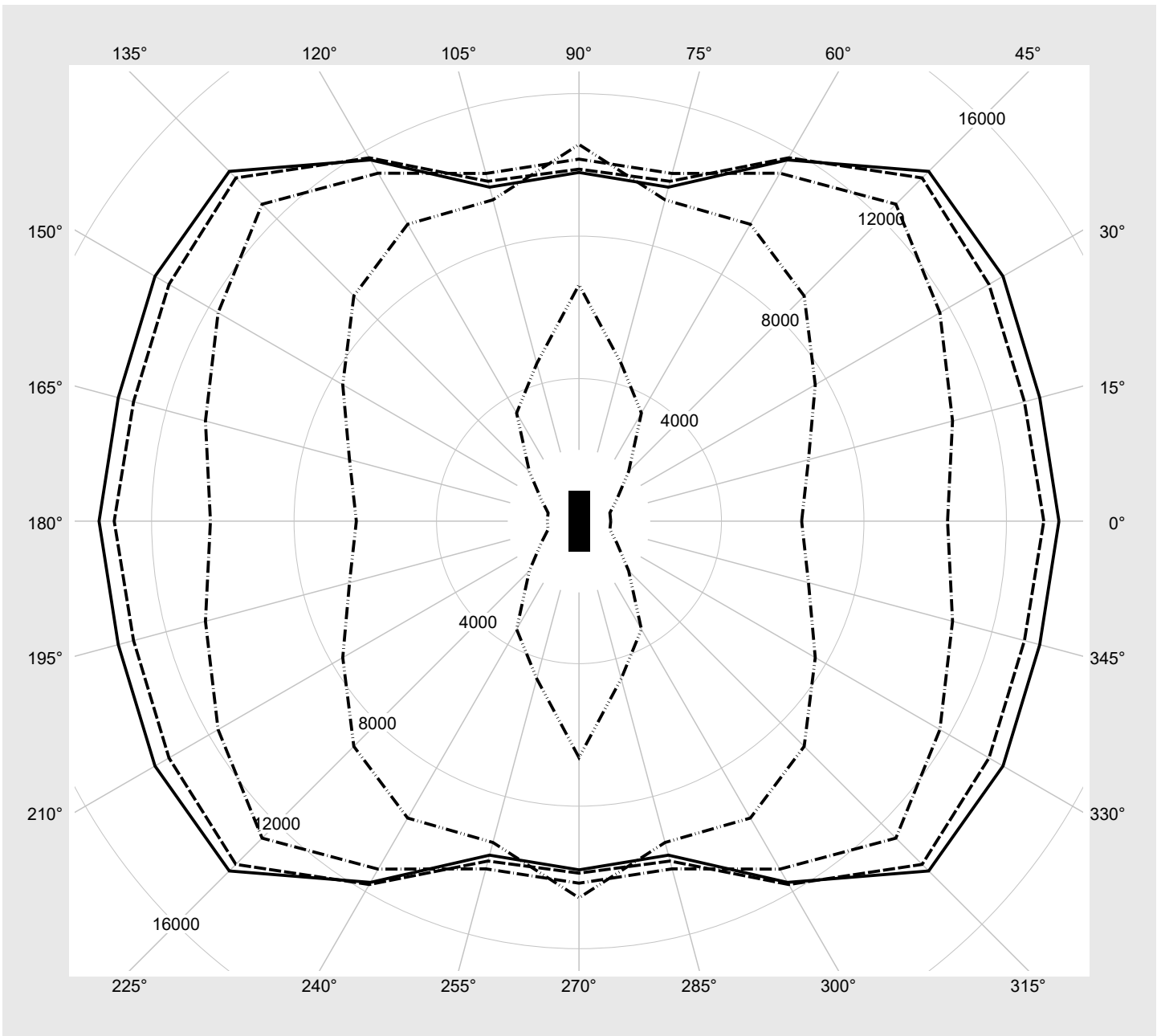
**Photometric test report**

**Family**  
Highbay 11

**Order number: 51HLA1D34SCA**  
**EAN: 4058352322949**

**LP number**  
58918\_5

**Luminance values in cd/m<sup>2</sup>**    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	48560	284.4
95	240	252	46132	269.1
90	227	250	43704	253.8
85	213	248	41276	238.4
80	200	245	38848	223.3
75	187	243	36420	209.0
70	174	240	33992	194.4
65	161	237	31564	180.2
60	148	234	29136	166.3
55	135	231	26708	152.2
50	123	227	24280	138.5
45	110	224	21852	124.8
40	98	219	19424	111.5
35	85	214	16996	98.3
30	73	209	14568	85.3
25	61	202	12140	72.7
20	49	194	9712	59.8
15	37	184	7284	47.3
10	25	170	4855	34.6