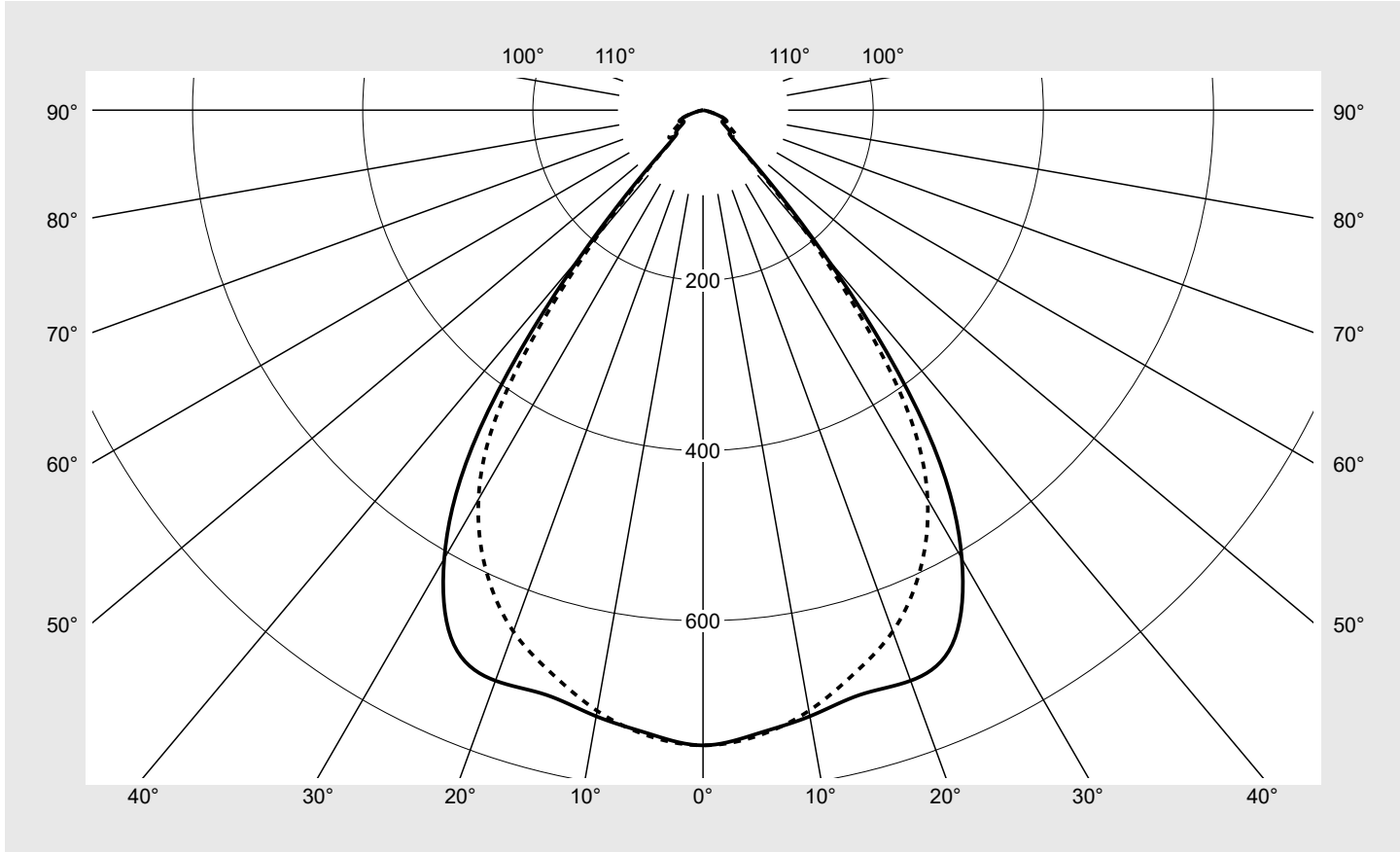


# Photometric test report

<b>Family</b> Highbay 11	<b>Order number:</b> 51HLA2D34SCA + 59HL91001 <b>EAN:</b> 4058352474860 + 4058352323519	<b>LP number</b> 58924_26
<b>Version</b>	wide distribution, UGR≤22, toughened safety glass	<b>serial documentation</b> 04.05.2021
<b>Lamps</b>	LED 4000 K   CRI ≥ 80	
<b>Controlgear</b>	ECG-DALI	
<b>Rated values</b>	Net luminous flux = 47390 lm Power consumption = 284.2 W Luminous efficacy = 166.7 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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Family Highbay 11	Order number: 51HLA2D34SCA + 59HL91001 EAN: 4058352474860 + 4058352323519	LP number 58924_26
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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	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	22.5	22.9
	6H	21.5	22.4	21.9	22.8	23.2	21.1	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	22.7
4H	2H	21.1	22.1	21.5	22.5	22.8	20.6	21.7	21.0	22.0	22.4
	3H	21.4	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	23.0	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

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 885
			B = 312

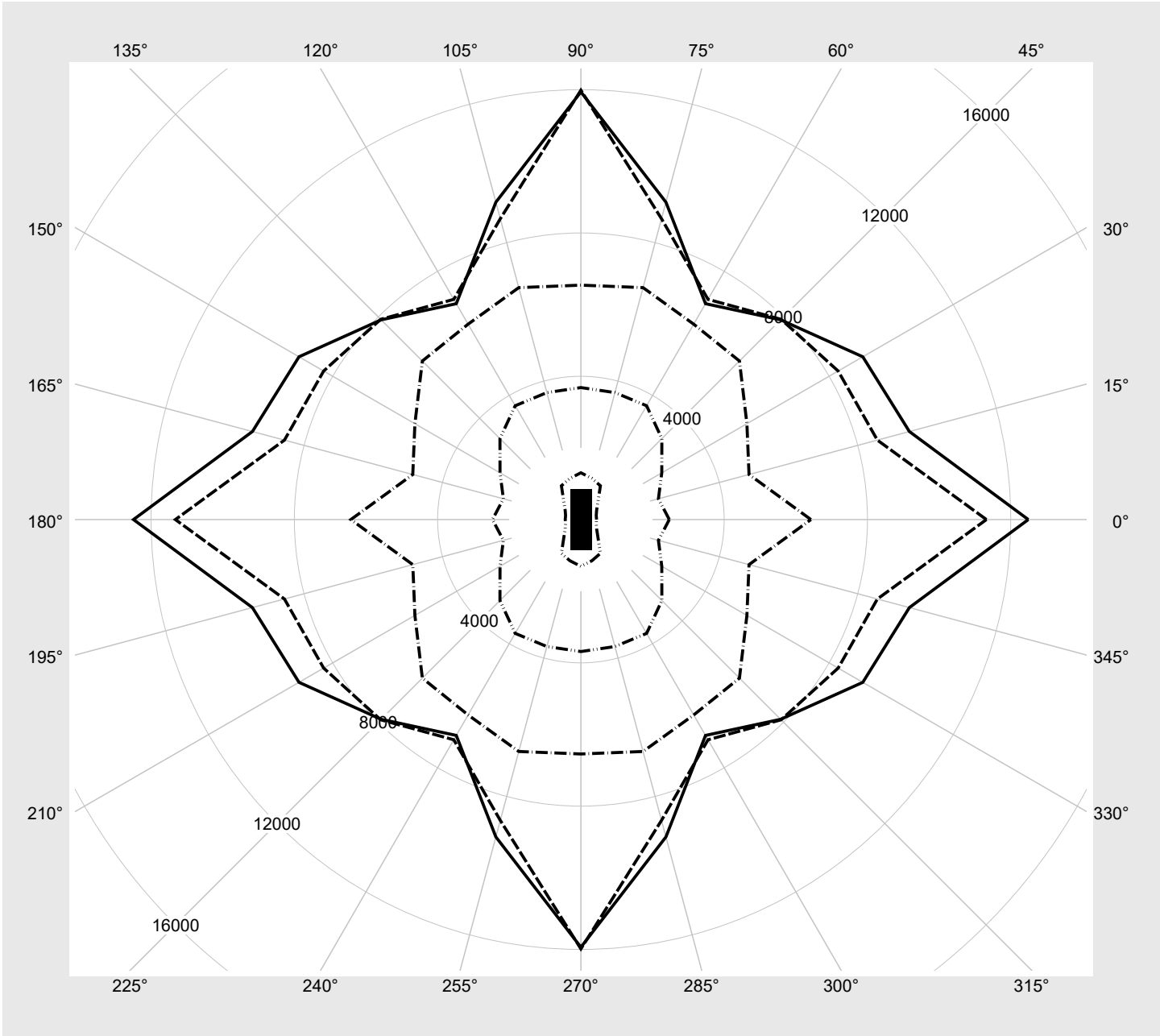
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		15369.2	16425.0	19452.2	21904.7	16647.6	14633.0	14263.1
50°		11116.0	9884.3	9278.7	10469.8	10504.0	11812.4	13502.0
55°		9391.2	8907.9	7926.8	8306.8	8762.2	10776.6	13044.4
60°		9090.1	10183.7	9023.9	7534.1	7313.8	8877.0	11324.7
65°		12491.0	9494.4	9087.9	7885.4	6958.2	9172.3	11938.3
70°		11321.8	8568.9	8292.9	7905.0	7098.1	8694.3	11985.7
75°		6422.3	4859.3	5351.4	6259.9	6298.3	6702.8	6543.7
80°		2468.0	2240.6	2607.3	3196.4	3668.8	3669.8	3684.6
85°		437.2	443.1	506.1	667.6	1089.0	1189.4	1305.6

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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



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Dimming levels table	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	47390	284.2
95	240	252	44960	268.2
90	227	250	42675	253.5
85	213	247	40198	237.5
80	200	245	37873	222.6
75	187	243	35527	208.3
70	174	240	33167	193.8
65	161	237	30780	179.6
60	148	234	28381	165.4
55	136	231	26133	152.1
50	123	228	23693	138.1
45	111	224	21420	125.0
40	98	220	18939	111.2
35	86	215	16631	98.2
30	74	210	14300	85.6
25	61	204	11762	72.1
20	49	197	9402	59.3
15	37	188	7024	46.7
10	26	177	4818	35.0
5	14	161	2405	22.4