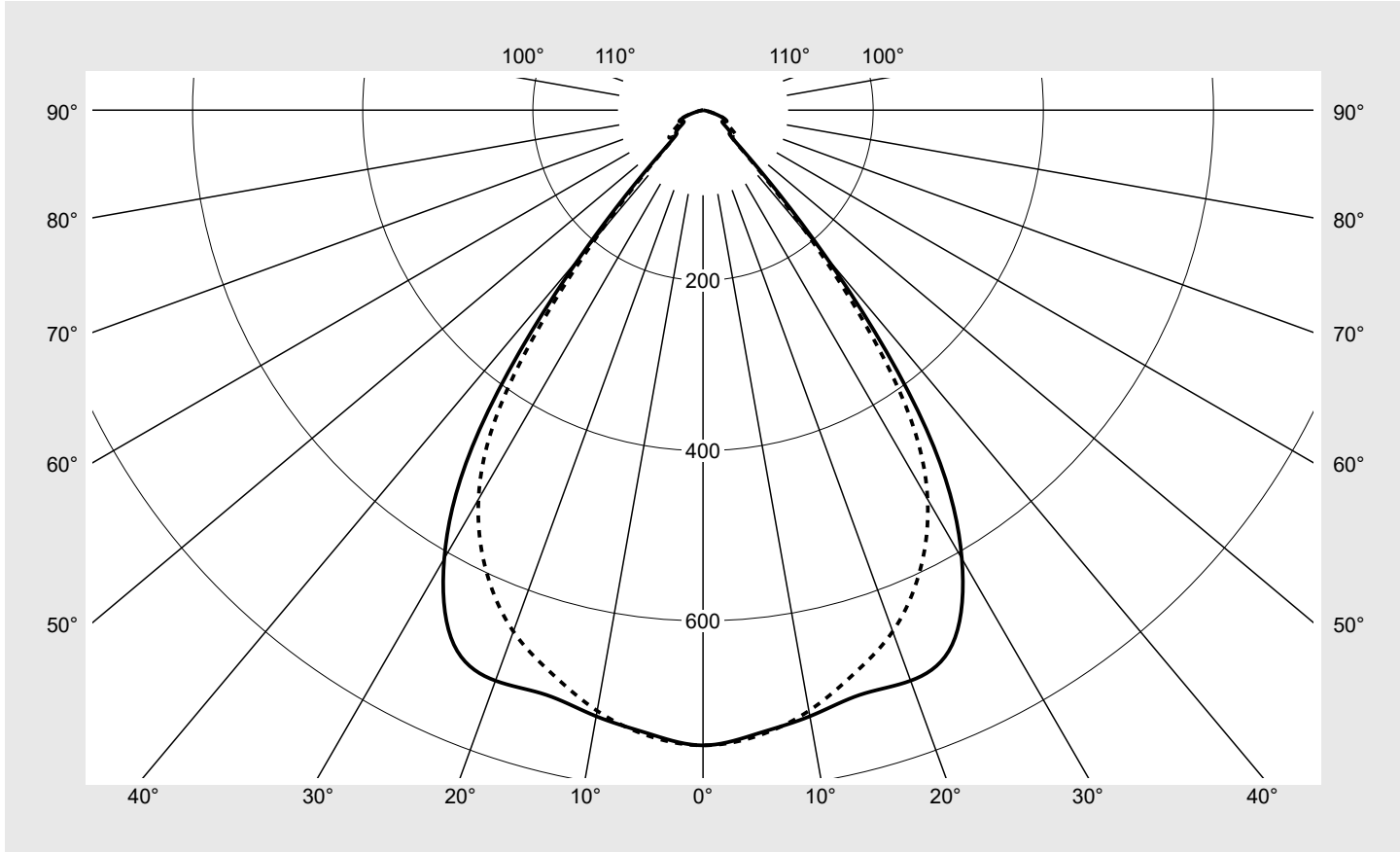


Photometric test report

Family Highbay 11	Order number: 51HLA2D14FCA + 59HL91001 EAN: 4058352322963 + 4058352323519	LP number 58924_2
Version	wide distribution, UGR≤22, toughened safety glass	serial documentation 13.06.2019
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 13730 lm Power consumption = 81.2 W Luminous efficacy = 169.1 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	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Highbay 11	Order number: 51HLA2D14FCA + 59HL91001 EAN: 4058352322963 + 4058352323519	LP number 58924_2
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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°	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

Photometric test report

Family Highbay 11	Order number: 51HLA2D14FCA + 59HL91001 EAN: 4058352322963 + 4058352323519	LP number 58924_2
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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	20.6	21.9	21.0	22.2	22.6	20.2	21.5	20.5	21.8	22.1
	3H	21.0	22.1	21.3	22.4	22.8	20.5	21.7	20.9	22.0	22.4
	4H	21.0	22.1	21.4	22.4	22.8	20.7	21.7	21.1	22.1	22.4
	6H	21.0	21.9	21.4	22.3	22.7	20.7	21.6	21.1	22.0	22.4
	8H	21.0	21.8	21.5	22.2	22.6	20.7	21.5	21.1	21.9	22.3
	12H	21.0	21.8	21.4	22.1	22.6	20.7	21.4	21.1	21.8	22.3
4H	2H	20.6	21.6	21.0	22.0	22.3	20.1	21.2	20.5	21.5	21.9
	3H	21.0	21.8	21.4	22.2	22.6	20.6	21.4	21.0	21.8	22.2
	4H	21.0	21.8	21.5	22.2	22.7	20.7	21.5	21.2	21.9	22.3
	6H	21.0	21.7	21.5	22.1	22.6	20.7	21.4	21.2	21.8	22.3
	8H	21.0	21.6	21.4	22.0	22.5	20.7	21.3	21.2	21.8	22.2
	12H	21.0	21.5	21.5	21.9	22.4	20.7	21.2	21.2	21.7	22.2
8H	4H	21.0	21.6	21.5	22.0	22.5	20.7	21.3	21.2	21.7	22.2
	6H	21.0	21.4	21.4	21.9	22.4	20.7	21.2	21.2	21.7	22.2
	8H	20.9	21.3	21.4	21.8	22.3	20.7	21.1	21.2	21.6	22.1
	12H	20.9	21.2	21.4	21.7	22.3	20.7	21.0	21.2	21.5	22.1
12H	4H	21.0	21.5	21.5	21.9	22.4	20.7	21.2	21.2	21.6	22.1
	6H	21.0	21.3	21.5	21.8	22.4	20.7	21.1	21.2	21.6	22.1
	8H	20.9	21.2	21.4	21.7	22.3	20.7	21.0	21.2	21.5	22.1

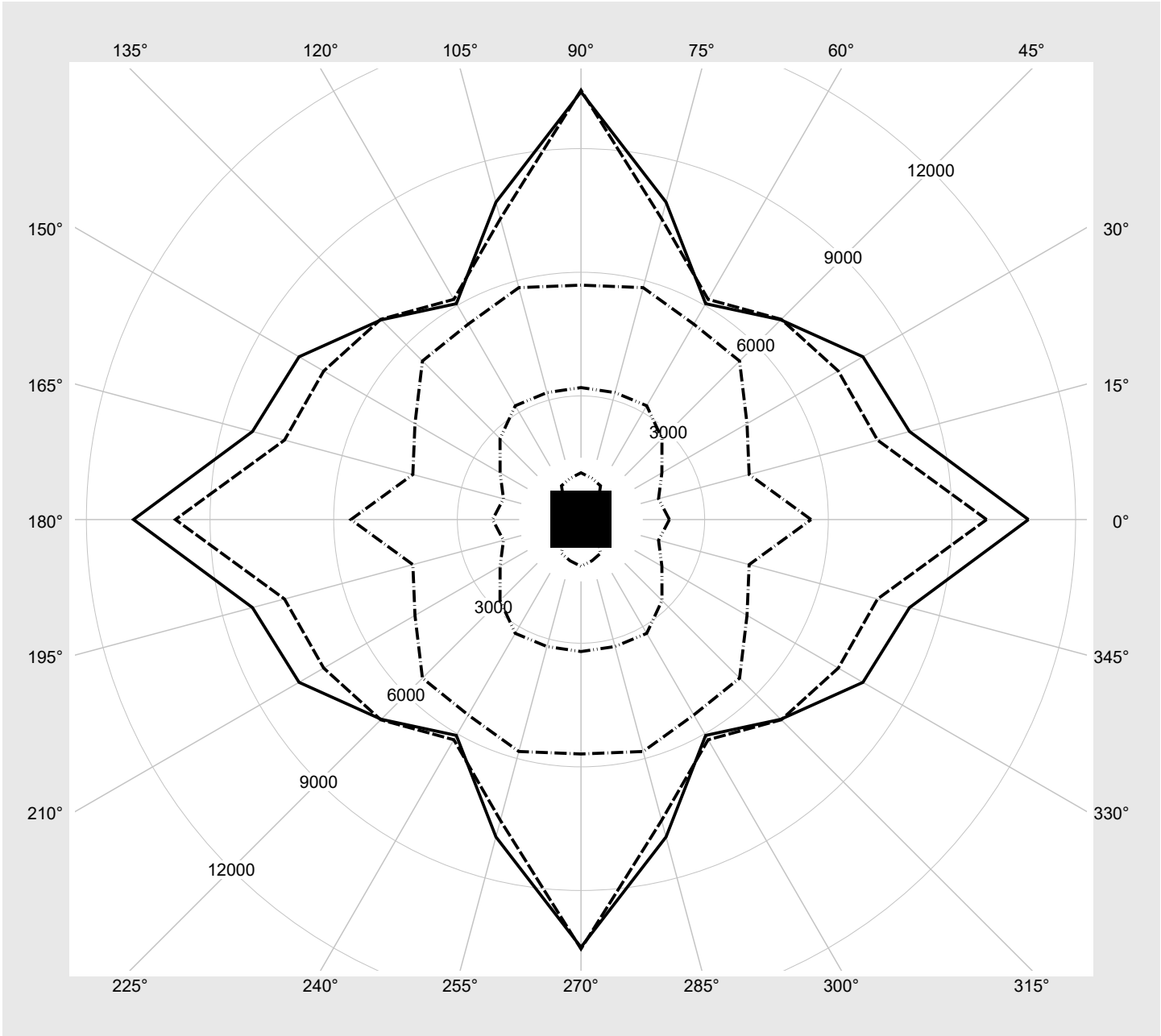
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 295
			B = 312

C-planes	0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m ²						
45°	13358.5	14276.2	16907.3	19038.9	14469.6	12718.6	12397.1
50°	9661.7	8591.1	8064.8	9100.1	9129.8	10267.0	11735.5
55°	8162.5	7742.5	6889.7	7220.0	7615.8	9366.7	11337.8
60°	7900.9	8851.4	7843.3	6548.5	6356.9	7715.6	9843.1
65°	10856.8	8252.2	7898.9	6853.7	6047.9	7972.3	10376.4
70°	9840.6	7447.8	7207.9	6870.8	6169.4	7556.8	10417.6
75°	5582.1	4223.6	4651.3	5440.9	5474.3	5825.9	5687.6
80°	2145.1	1947.5	2266.2	2778.2	3188.8	3189.7	3202.6
85°	380.0	385.1	439.9	580.2	946.5	1033.8	1134.8

Photometric test report

Family Highbay 11	Order number: 51HLA2D14FCA + 59HL91001 EAN: 4058352322963 + 4058352323519	LP number 58924_2
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Highbay 11	Order number: 51HLA2D14FCA + 59HL91001 EAN: 4058352322963 + 4058352323519	LP number 58924_2
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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	13730	81.2
95	241	252	13044	76.8
90	227	250	12357	72.5
85	214	248	11671	68.4
80	201	245	10984	64.2
75	188	243	10298	60.0
70	175	240	9611	56.0
65	162	238	8925	51.9
60	149	235	8238	48.0
55	136	232	7552	44.1
50	124	228	6865	40.2
45	111	225	6179	36.3
40	99	220	5492	32.5
35	86	216	4806	28.8
30	74	211	4119	25.1
25	62	205	3433	21.3
20	50	198	2746	17.6
15	38	190	2060	14.0
10	26	179	1372	10.4