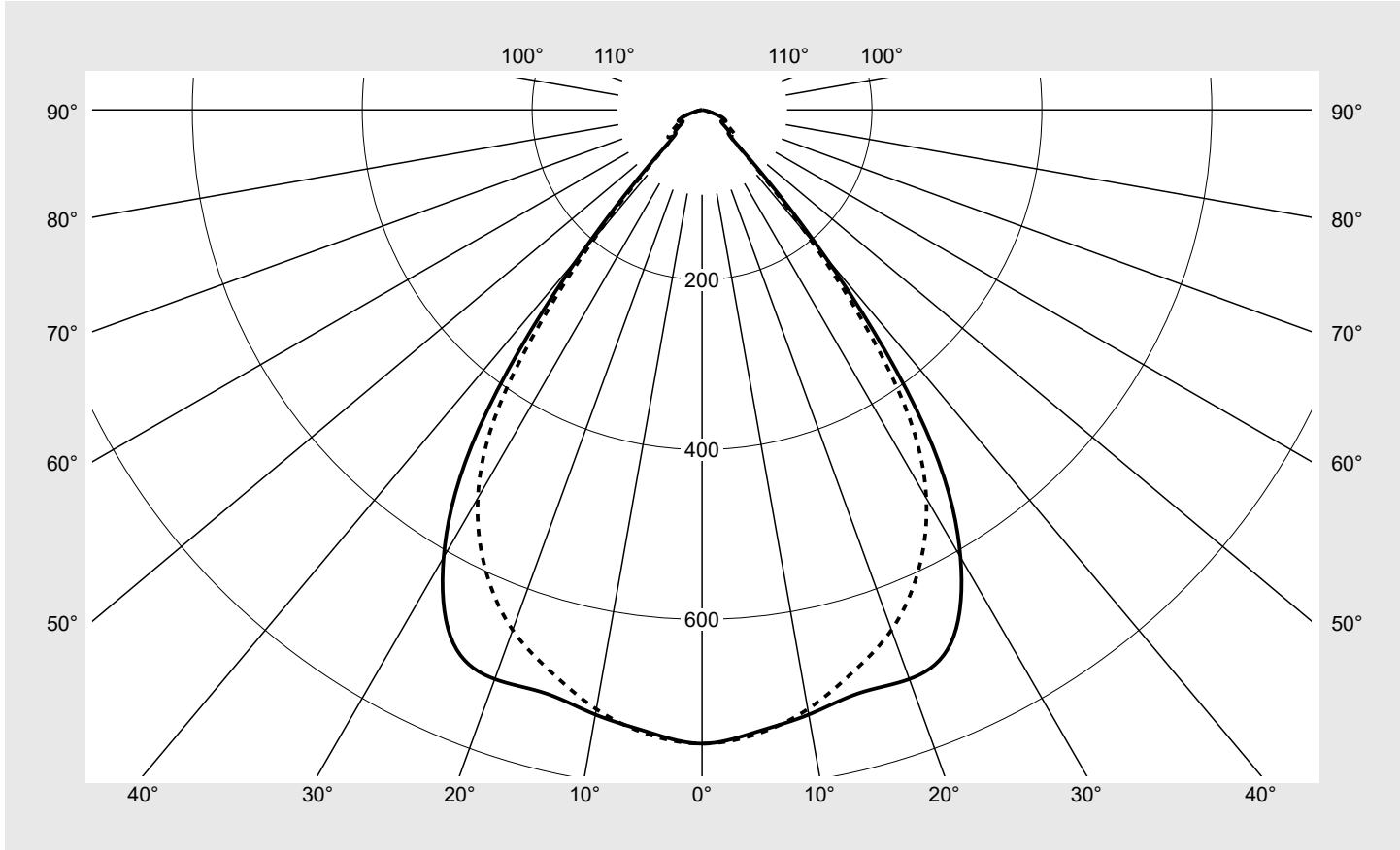


Photometric test report

Family Highbay 11	Order number: 51HLA2D14GLA + 59HL91002 EAN: 4058352361467 + 4058352341650	LP number 58924_22
Version	wide distribution, UGR≤22, cover panel, PC	serial documentation 31.03.2020
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 14950 lm Power consumption = 94.8 W Luminous efficacy = 157.7 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	
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: 51HLA2D14GLA + 59HL91002 EAN: 4058352361467 + 4058352341650	LP number 58924_22
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

Photometric test report

Family Highbay 11	Order number: 51HLA2D14GLA + 59HL91002 EAN: 4058352361467 + 4058352341650	LP number 58924_22
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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	21.3	22.5	22.9	20.5	21.8	20.8	22.1	22.4
	3H	21.2	22.4	21.6	22.7	23.1	20.8	22.0	21.2	22.3	22.7
	4H	21.3	22.3	21.7	22.7	23.1	21.0	22.0	21.3	22.4	22.7
	6H	21.3	22.2	21.7	22.6	23.0	21.0	21.9	21.4	22.3	22.7
	8H	21.3	22.1	21.8	22.5	22.9	21.0	21.8	21.4	22.2	22.6
	12H	21.3	22.0	21.7	22.4	22.9	21.0	21.7	21.4	22.1	22.6
4H	2H	20.9	21.9	21.3	22.3	22.6	20.4	21.5	20.8	21.8	22.2
	3H	21.3	22.1	21.7	22.5	22.9	20.9	21.7	21.3	22.1	22.5
	4H	21.3	22.1	21.8	22.5	23.0	21.0	21.8	21.5	22.2	22.6
	6H	21.3	22.0	21.8	22.4	22.9	21.0	21.7	21.5	22.1	22.6
	8H	21.3	21.9	21.7	22.3	22.8	21.0	21.6	21.5	22.1	22.5
	12H	21.3	21.7	21.8	22.2	22.7	21.0	21.5	21.5	22.0	22.5
8H	4H	21.3	21.9	21.8	22.3	22.8	21.0	21.6	21.5	22.0	22.5
	6H	21.2	21.7	21.7	22.2	22.7	21.0	21.5	21.5	22.0	22.5
	8H	21.2	21.6	21.7	22.1	22.6	21.0	21.4	21.5	21.9	22.4
	12H	21.2	21.5	21.7	22.0	22.6	21.0	21.3	21.5	21.8	22.4
12H	4H	21.3	21.8	21.8	22.2	22.7	21.0	21.5	21.5	21.9	22.4
	6H	21.3	21.6	21.8	22.1	22.7	21.0	21.4	21.5	21.9	22.4
	8H	21.2	21.5	21.7	22.0	22.6	21.0	21.3	21.5	21.8	22.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 295 B = 312
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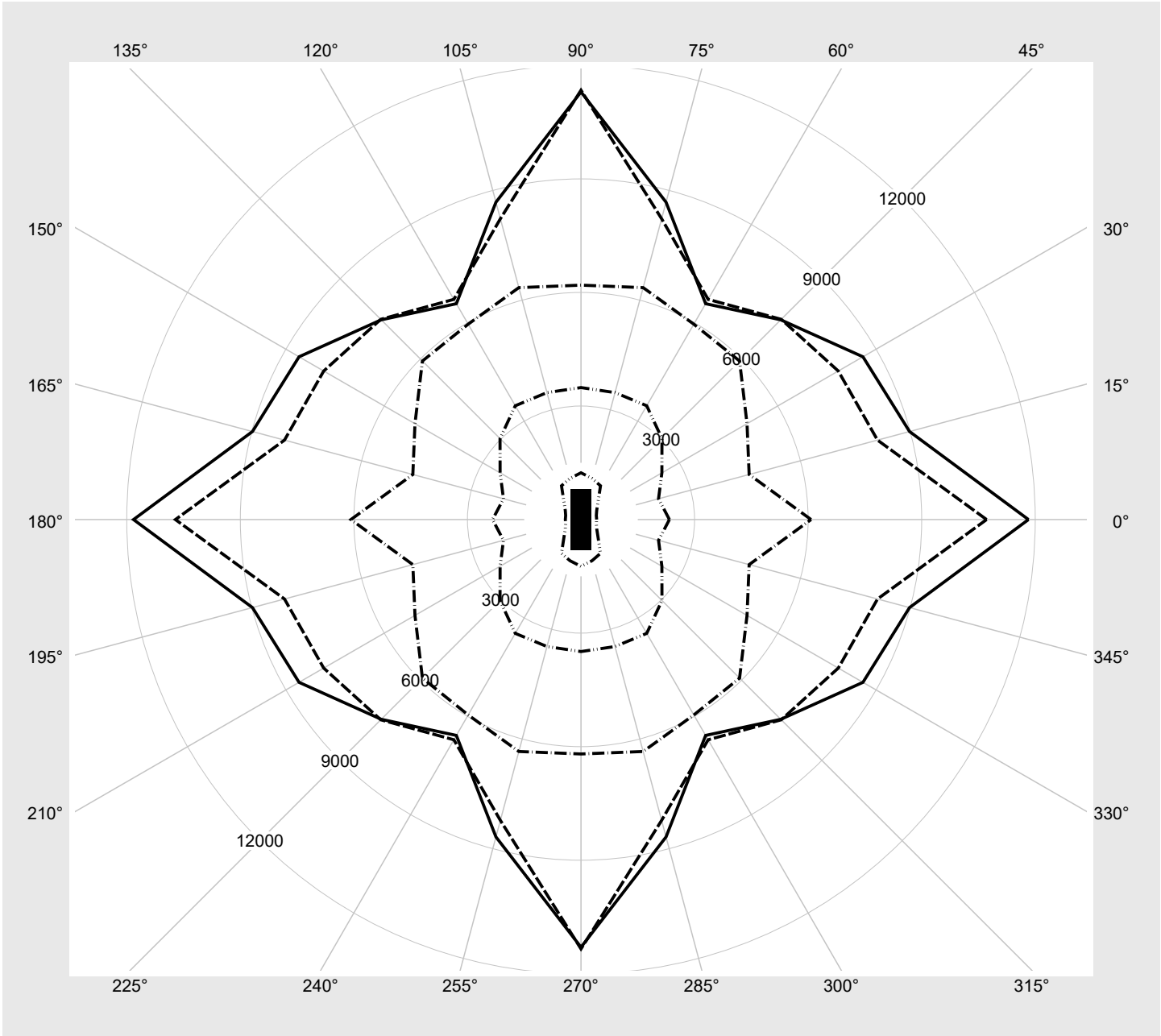
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45°		14545.5	15544.7	18409.6	20730.6	15755.3	13848.7	13498.7
50°		10520.2	9354.5	8781.4	9908.7	9941.0	11179.2	12778.3
55°		8887.8	8430.5	7501.9	7861.6	8292.6	10199.0	12345.3
60°		8602.9	9637.9	8540.2	7130.3	6921.8	8401.2	10717.7
65°		11821.5	8985.5	8600.8	7462.7	6585.3	8680.7	11298.5
70°		10715.0	8109.6	7848.4	7481.3	6717.6	8228.3	11343.3
75°		6078.1	4598.9	5064.6	5924.3	5960.7	6343.6	6192.9
80°		2335.7	2120.5	2467.6	3025.1	3472.2	3473.1	3487.1
85°		413.7	419.3	479.0	631.8	1030.6	1125.7	1235.6

Photometric test report

Family Highbay 11	Order number: 51HLA2D14GLA + 59HL91002 EAN: 4058352361467 + 4058352341650	LP number 58924_22
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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



Photometric test report

Family Highbay 11	Order number: 51HLA2D14GLA + 59HL91002 EAN: 4058352361467 + 4058352341650	LP number 58924_22
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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	14950	94.8
95	240	252	14183	89.4
90	227	250	13462	84.6
85	213	247	12681	79.2
80	200	245	11948	74.2
75	187	243	11208	69.5
70	174	240	10463	64.7
65	161	237	9710	59.9
60	148	234	8953	55.2
55	136	231	8245	50.7
50	123	228	7474	46.0
45	111	224	6757	41.7
40	98	220	5975	37.1
35	86	215	5246	32.8
30	74	210	4511	28.6
25	61	204	3711	24.1
20	49	197	2966	19.8
15	37	188	2216	15.6
10	26	177	1520	11.7
5	14	161	759	7.4