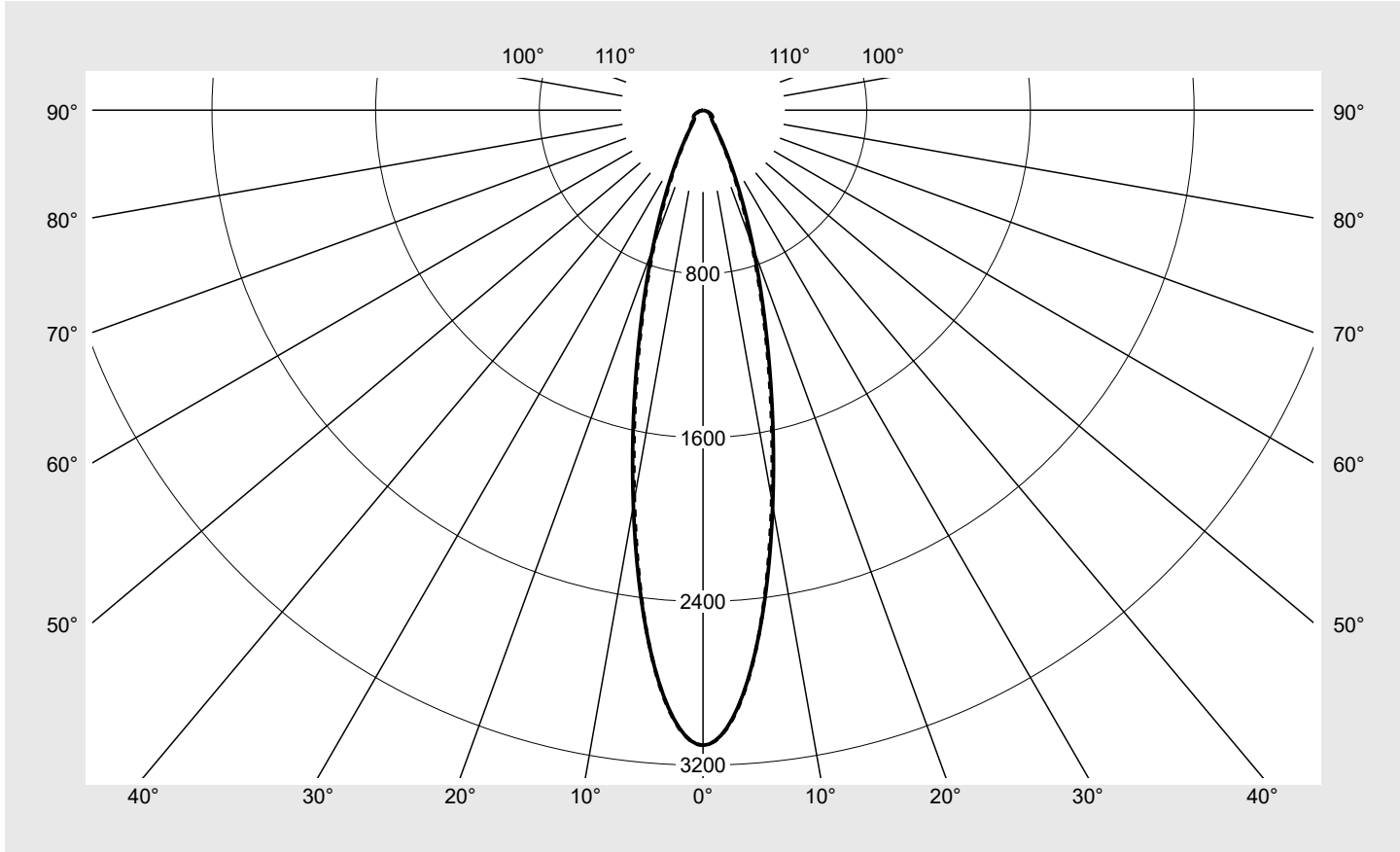


Photometric test report

Family Highbay 11	Order number: 51HL61D14DCA + 59HL91001 EAN: 4058352348871 + 4058352323519	LP number 58920_6
Version	narrow 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 = 9450 lm Power consumption = 55.6 W Luminous efficacy = 170 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 Imax: 3103 cd/klm



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=94 N3=99 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: 51HL61D14DCA + 59HL91001 EAN: 4058352348871 + 4058352323519	LP number 58920_6
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°	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	18.6	18.6
5°	2728.1	2725.7	2734.5	2735.8	2731.2	2739.6	2732.7	130.6	149.1
10°	1961.3	1955.1	1962.7	1959.8	1944.6	1940.4	1933.3	185.8	334.9
15°	1234.5	1231.5	1237.4	1233.6	1223.5	1217.2	1209.8	174.2	509.0
20°	720.2	721.2	730.7	731.8	720.5	706.3	696.1	134.9	644.0
25°	391.5	395.5	407.7	412.0	396.6	377.5	368.6	91.5	735.4
30°	203.6	206.8	216.0	219.0	212.4	200.7	194.3	57.3	792.7
35°	109.3	109.5	113.4	118.8	120.5	117.6	115.6	36.3	829.0
40°	71.8	72.6	76.4	83.5	87.0	87.1	87.3	28.5	857.5
45°	59.8	60.1	64.9	71.1	68.6	64.2	62.9	25.2	882.8
50°	58.8	60.0	64.4	66.4	57.1	49.4	48.5	24.6	907.3
55°	56.5	57.6	60.7	58.9	51.3	43.9	43.6	24.1	931.5
60°	50.4	50.7	52.1	52.2	45.2	38.5	38.0	22.4	953.8
65°	40.7	40.4	41.4	42.5	37.1	32.0	31.7	19.0	972.8
70°	28.4	28.2	29.2	30.2	27.5	24.4	24.3	14.2	987.1
75°	15.1	15.6	16.5	18.0	16.8	16.4	16.8	8.8	995.8
80°	5.3	5.6	6.2	6.9	7.4	7.5	9.1	3.7	999.5
85°	0.5	0.5	0.6	0.8	1.1	1.3	1.8	0.5	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: 51HL61D14DCA + 59HL91001 EAN: 4058352348871 + 4058352323519	LP number 58920_6
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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	17.3	18.4	17.6	18.8	19.1	16.2	17.4	16.6	17.7	18.0
	3H	18.7	19.8	19.1	20.1	20.4	17.6	18.6	18.0	19.0	19.3
	4H	19.1	20.0	19.5	20.4	20.8	18.1	19.1	18.5	19.4	19.8
	6H	19.2	20.0	19.6	20.4	20.8	18.5	19.3	18.9	19.7	20.1
	8H	19.3	20.0	19.7	20.4	20.8	18.6	19.3	19.0	19.7	20.1
	12H	19.2	19.9	19.7	20.3	20.7	18.6	19.3	19.0	19.7	20.1
4H	2H	18.0	18.9	18.4	19.3	19.7	17.2	18.2	17.6	18.5	18.9
	3H	19.5	20.3	20.0	20.7	21.1	18.7	19.5	19.1	19.9	20.3
	4H	19.9	20.7	20.4	21.1	21.5	19.3	20.0	19.7	20.4	20.8
	6H	20.1	20.7	20.5	21.1	21.6	19.6	20.2	20.1	20.6	21.1
	8H	20.1	20.6	20.6	21.1	21.5	19.7	20.2	20.2	20.7	21.1
	12H	20.1	20.5	20.5	21.0	21.5	19.7	20.1	20.2	20.6	21.1
8H	4H	20.1	20.6	20.6	21.1	21.6	19.5	20.0	20.0	20.5	21.0
	6H	20.3	20.7	20.8	21.2	21.7	19.9	20.3	20.4	20.8	21.3
	8H	20.2	20.6	20.8	21.1	21.6	19.9	20.3	20.5	20.8	21.3
	12H	20.2	20.5	20.7	21.0	21.6	19.9	20.3	20.5	20.8	21.3
12H	4H	20.1	20.6	20.6	21.0	21.5	19.5	19.9	20.0	20.4	20.9
	6H	20.3	20.6	20.8	21.1	21.6	19.9	20.2	20.4	20.7	21.2
	8H	20.2	20.5	20.8	21.0	21.6	19.9	20.2	20.5	20.8	21.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 295 B = 312
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C-planes	γ	Luminance in cd/m ²							
		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°		8682.9	8733.3	9421.5	10321.6	9958.9	9327.6	9128.7	
50°		9388.3	9580.6	10280.1	10609.3	9126.4	7898.2	7744.4	
55°		10111.8	10303.0	10871.3	10548.2	9174.3	7859.2	7809.2	
60°		10339.1	10419.4	10706.7	10712.9	9285.7	7902.9	7800.9	
65°		9877.1	9823.5	10067.9	10324.7	9009.1	7770.3	7695.3	
70°		8537.5	8471.5	8755.8	9064.7	8240.4	7333.2	7308.8	
75°		5979.0	6171.0	6561.0	7141.3	6677.2	6507.8	6677.2	
80°		3160.3	3292.2	3660.5	4060.8	4380.1	4418.6	5354.5	
85°		541.9	544.3	666.8	916.5	1312.3	1583.3	2152.3	

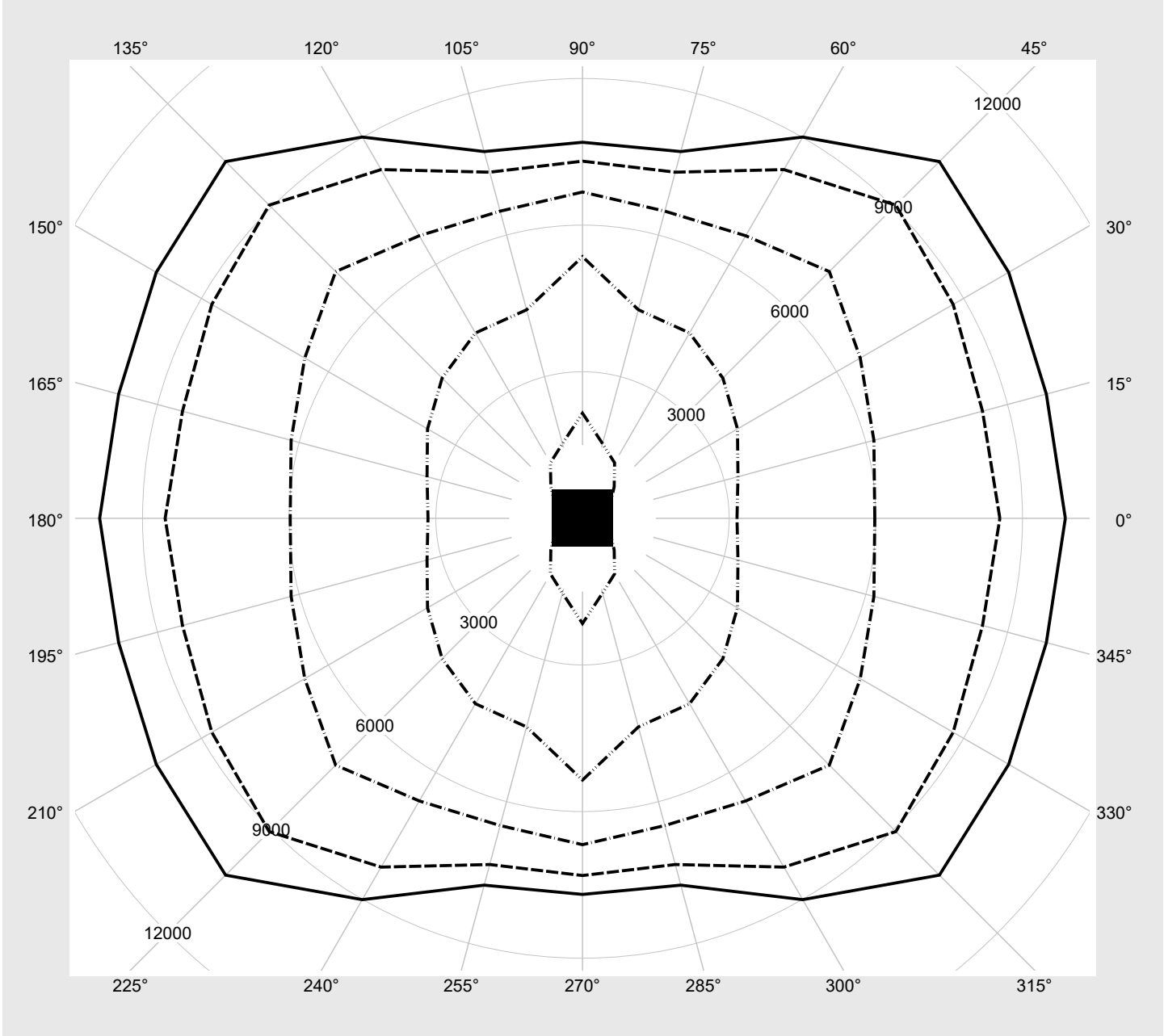
Photometric test report

Family Highbay 11	Order number: 51HL61D14DCA + 59HL91001 EAN: 4058352348871 + 4058352323519	LP number 58920_6
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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: 51HL61D14DCA + 59HL91001 EAN: 4058352348871 + 4058352323519	LP number 58920_6
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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	9450	55.6
95	241	252	8978	52.7
90	228	250	8505	49.9
85	215	248	8033	47.1
80	202	246	7560	44.6
75	189	244	7088	41.8
70	176	241	6615	39.1
65	163	238	6143	36.4
60	151	236	5670	33.8
55	138	233	5198	31.1
50	125	230	4725	28.5
45	113	226	4253	26.0
40	100	222	3780	23.4
35	88	218	3308	20.8
30	76	213	2835	18.3
25	63	208	2363	15.8
20	51	201	1890	13.2
15	39	194	1418	10.7
10	27	184	944	8.2