

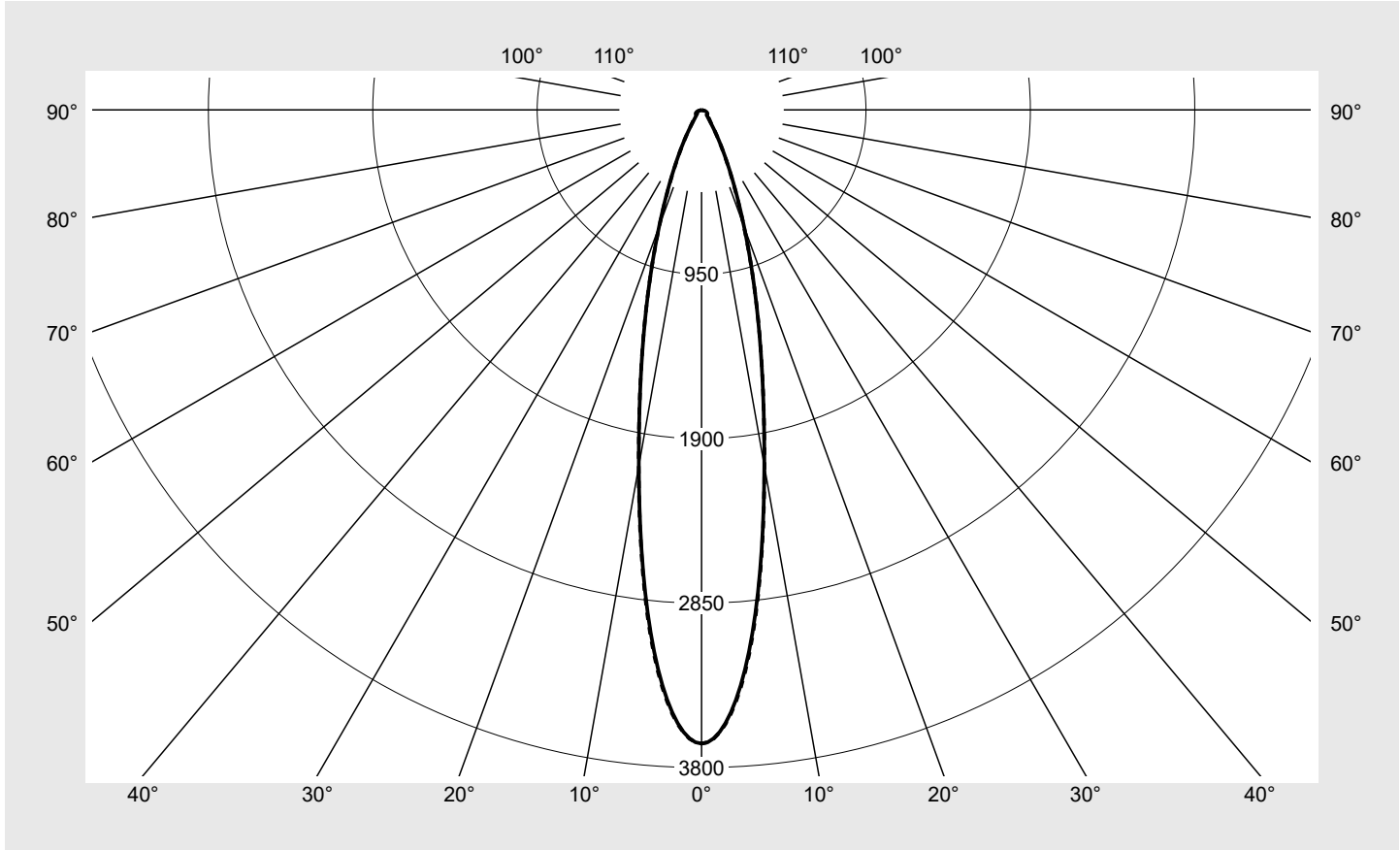


Photometric test report

Family Highbay 11	Order number: 51HL61D14DCA EAN: 4058352348871	LP number 58918_6
	Version narrow distribution, UGR≤22 Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 9790 lm Power consumption = 55.6 W Luminous efficacy = 176.1 lm/W	serial documentation 21.05.2019
		

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	
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 EAN: 4058352348871	LP number 58918_6
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	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

Photometric test report

Family Highbay 11	Order number: 51HL61D14DCA EAN: 4058352348871	LP number 58918_6
----------------------	--	----------------------

UGR-Table	Standard room	siteco								
-----------	---------------	--------	--	--	--	--	--	--	--	--

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	15.5	16.6	15.8	16.9	17.2	14.2	15.4	14.6	15.7	16.0
	3H	17.4	18.3	17.8	18.7	19.0	15.8	16.8	16.2	17.1	17.5
	4H	17.9	18.8	18.3	19.2	19.6	16.5	17.4	16.9	17.8	18.2
	6H	18.2	19.0	18.6	19.3	19.7	17.2	18.0	17.6	18.4	18.8
	8H	18.3	18.9	18.7	19.3	19.7	17.5	18.2	17.9	18.6	19.0
	12H	18.2	18.8	18.6	19.2	19.7	17.6	18.2	18.0	18.6	19.0
4H	2H	16.3	17.2	16.7	17.5	17.9	15.4	16.3	15.8	16.6	17.0
	3H	18.3	19.0	18.7	19.4	19.8	17.1	17.8	17.5	18.2	18.7
	4H	18.9	19.6	19.4	20.0	20.5	17.9	18.6	18.3	19.0	19.4
	6H	19.2	19.8	19.7	20.2	20.7	18.5	19.1	19.0	19.6	20.0
	8H	19.3	19.8	19.7	20.2	20.7	18.8	19.3	19.3	19.8	20.2
	12H	19.2	19.6	19.7	20.1	20.6	18.9	19.3	19.4	19.8	20.3
8H	4H	19.2	19.7	19.7	20.2	20.7	18.4	18.9	18.8	19.3	19.8
	6H	19.6	20.0	20.1	20.5	21.0	19.1	19.5	19.7	20.0	20.5
	8H	19.6	20.0	20.1	20.5	21.0	19.3	19.7	19.9	20.2	20.7
	12H	19.5	19.9	20.1	20.4	20.9	19.4	19.7	19.9	20.2	20.8
12H	4H	19.2	19.7	19.7	20.1	20.6	18.3	18.8	18.8	19.2	19.7
	6H	19.6	19.9	20.1	20.4	21.0	19.1	19.5	19.6	20.0	20.5
	8H	19.6	19.9	20.1	20.4	21.0	19.4	19.7	19.9	20.2	20.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 300 B = 320
-----------------	---------------------------------	-------------------------------	--------------------

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°	45°	5937.0	5879.3	6480.3	7340.1	7242.2	6866.8	6705.5	
50°	50°	6559.0	6653.4	7323.7	7760.3	6468.4	5256.0	5155.1	
55°	55°	7348.8	7484.1	8041.9	7673.3	6394.4	5295.1	5323.7	
60°	60°	7957.0	7994.6	8252.2	8080.8	6817.3	5588.9	5613.5	
65°	65°	8150.0	8099.8	8313.9	8398.1	7081.3	5870.2	5919.7	
70°	70°	7892.8	7831.1	8039.5	8240.4	7122.6	5973.5	5975.6	
75°	75°	6258.6	6567.1	7076.5	7610.0	6821.2	6110.8	6145.9	
80°	80°	3780.9	4034.6	4632.4	5407.6	5819.9	5647.2	6394.8	
85°	85°	539.4	542.9	741.8	1192.3	2119.0	2769.6	4013.4	

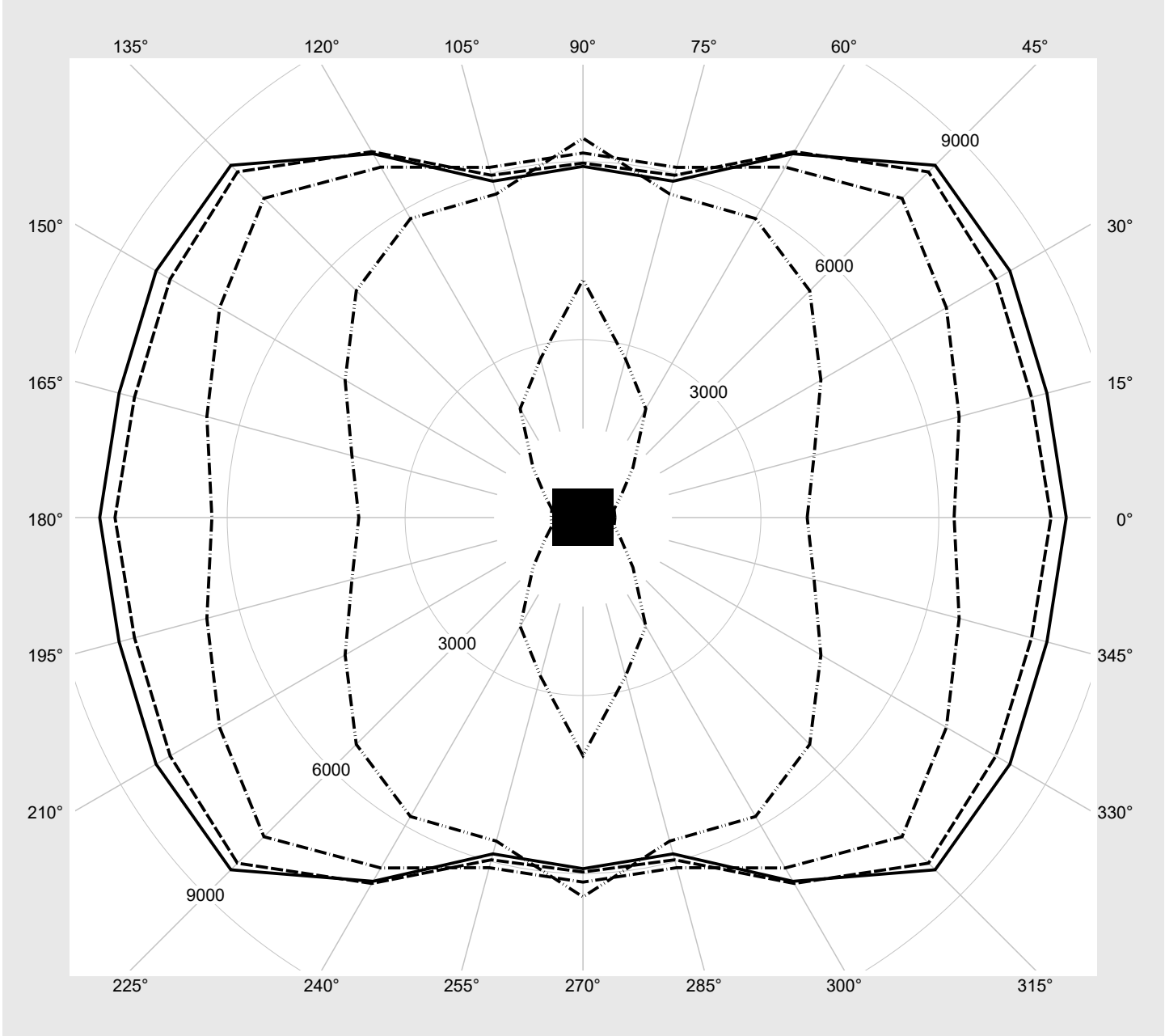
Photometric test report

Family Highbay 11	Order number: 51HL61D14DCA EAN: 4058352348871	LP number 58918_6
-----------------------------	--	-----------------------------



Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
--------------	--------------	--------------	--------------	--------------



Photometric test report

Family Highbay 11	Order number: 51HL61D14DCA EAN: 4058352348871	LP number 58918_6
----------------------	--	----------------------

Dimming levels table	environmental temperature: 25°C	sITeco
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	9790	55.6
95	241	252	9301	52.7
90	228	250	8811	49.9
85	215	248	8322	47.1
80	202	246	7832	44.6
75	189	243	7343	41.8
70	176	241	6853	39.1
65	163	238	6364	36.4
60	151	235	5874	33.8
55	138	232	5385	31.1
50	125	228	4895	28.5
45	113	225	4406	26.0
40	100	220	3916	23.4
35	88	215	3427	20.8
30	76	210	2937	18.3
25	63	204	2448	15.8
20	51	196	1958	13.2
15	39	186	1469	10.7
10	27	172	978	8.2