

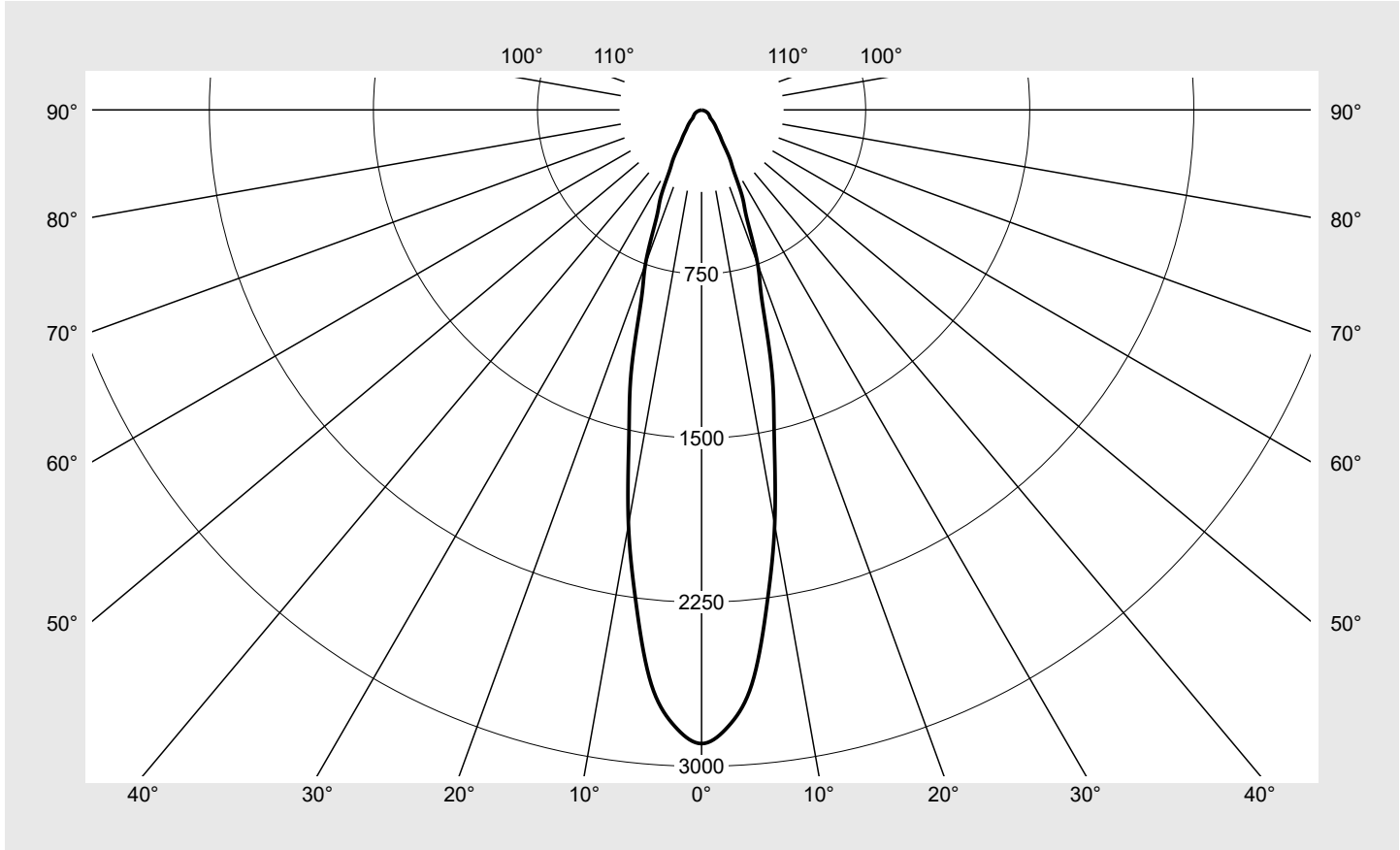


Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF61DA4HMA EAN: 4058352919736	LP number 59307_14
	Version narrow distribution, toughened safety glass, chain suspension	serial documentation 19.10.2023
	Lamps LED 4000 K CRI ≥ 80	
Controlgear ECG-DALI		
Rated values Net luminous flux = 18700 lm Power consumption = 96.3 W Luminous efficacy = 194.2 lm/W		

Luminous intensity in cd/klm C180-0 **Imax: 2896 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=88 N2=96 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 Xtreme	Order number: 51HF61DA4HMA EAN: 4058352919736	LP number 59307_14
------------------------------------	--	------------------------------

Table of values for luminous intensities	Maximum luminous intensity	siteco
---	-----------------------------------	---------------

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0,0°	2896.3	4.3	4.3
2,5°	2819.4	33.7	38.0
5,0°	2635.7	63.0	101.0
7,5°	2284.5	81.7	182.8
10,0°	1924.6	91.6	274.4
12,5°	1534.7	91.1	365.4
15,0°	1244.7	88.3	453.7
17,5°	921.9	76.0	529.7
20,0°	750.6	70.4	600.1
22,5°	545.9	57.3	657.4
25,0°	444.2	51.5	708.8
27,5°	324.2	41.0	749.9
30,0°	259.7	35.6	785.5
32,5°	186.5	27.5	812.9
35,0°	150.0	23.6	836.5
37,5°	119.7	20.0	856.5
40,0°	101.4	17.9	874.3
42,5°	86.4	16.0	890.3
45,0°	69.3	13.4	903.8
47,5°	53.2	10.7	914.5
50,0°	50.3	10.6	925.1
52,5°	46.2	10.0	935.1
55,0°	42.5	9.5	944.7
57,5°	39.0	9.0	953.7
60,0°	36.5	8.7	962.4
62,5°	32.1	7.8	970.2
65,0°	28.9	7.2	977.4
67,5°	23.8	6.0	983.4
70,0°	20.2	5.2	988.6
72,5°	15.0	3.9	992.5
75,0°	11.9	3.1	995.6
77,5°	7.9	2.1	997.8
80,0°	5.0	1.4	999.1
82,5°	2.2	0.6	999.7
85,0°	0.8	0.2	999.9
87,5°	0.3	0.1	1000.0
90,0°	0.0	0.0	1000.0

Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF61DA4HMA EAN: 4058352919736	LP number 59307_14
------------------------------------	--	------------------------------

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	17.2	18.4	17.6	18.7	19.0	17.2	18.4	17.6	18.7	19.0
	3H	18.3	19.3	18.7	19.6	20.0	18.3	19.3	18.7	19.6	20.0
	4H	18.6	19.5	19.0	19.9	20.3	18.6	19.5	19.0	19.9	20.3
	6H	18.7	19.6	19.2	19.9	20.3	18.7	19.6	19.2	19.9	20.3
	8H	18.8	19.5	19.3	19.9	20.3	18.8	19.5	19.3	19.9	20.3
	12H	18.8	19.4	19.2	19.8	20.2	18.8	19.4	19.2	19.8	20.2
4H	2H	17.7	18.6	18.1	19.0	19.4	17.7	18.6	18.1	19.0	19.4
	3H	18.9	19.7	19.3	20.1	20.5	18.9	19.7	19.3	20.1	20.5
	4H	19.3	19.9	19.7	20.4	20.8	19.3	19.9	19.7	20.4	20.8
	6H	19.4	20.0	19.9	20.4	20.9	19.4	20.0	19.9	20.4	20.9
	8H	19.4	20.0	19.9	20.4	20.9	19.4	20.0	19.9	20.4	20.9
	12H	19.4	19.8	19.9	20.3	20.8	19.4	19.8	19.9	20.3	20.8
8H	4H	19.4	19.9	19.9	20.3	20.8	19.4	19.9	19.9	20.3	20.8
	6H	19.6	20.0	20.1	20.5	21.0	19.6	20.0	20.1	20.5	21.0
	8H	19.6	19.9	20.1	20.4	21.0	19.6	19.9	20.1	20.4	21.0
	12H	19.5	19.8	20.1	20.3	20.9	19.5	19.8	20.1	20.3	20.9
12H	4H	19.4	19.8	19.9	20.3	20.8	19.4	19.8	19.9	20.3	20.8
	6H	19.6	19.9	20.1	20.4	20.9	19.6	19.9	20.1	20.4	20.9
	8H	19.5	19.8	20.1	20.4	20.9	19.5	19.8	20.1	20.4	20.9

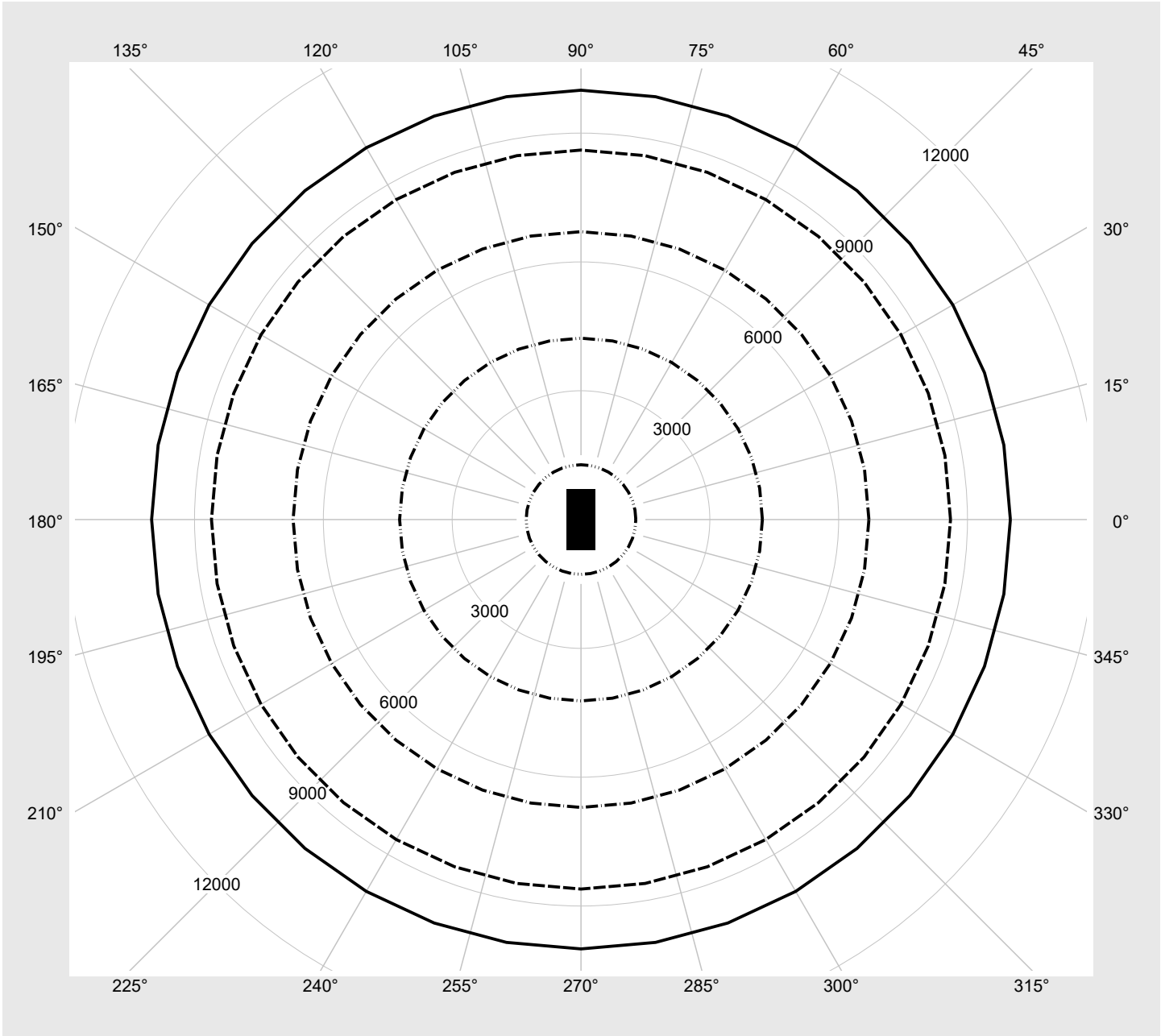
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 545 B = 235
-----------------	---------------------------------	-------------------------------	--------------------

C-planes	0°
γ	Luminance in cd/m ²
45,0°	14316.6
50,0°	11420.1
55,0°	10822.5
60,0°	10663.6
65,0°	9999.4
70,0°	8605.4
75,0°	6704.7
80,0°	4224.3
85,0°	1276.5

Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF61DA4HMA EAN: 4058352919736	LP number 59307_14
------------------------------------	--	------------------------------

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF61DA4HMA EAN: 4058352919736	LP number 59307_14
------------------------------------	--	------------------------------

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	18700	96.3
95	241	252	17790	91.3
90	227	250	16798	86.3
85	214	248	15867	81.3
80	201	245	14938	76.6
75	188	243	14004	71.8
70	175	240	13067	66.7
65	162	238	12125	62.1
60	150	235	11251	57.6
55	137	231	10299	52.7
50	124	228	9343	47.6
45	111	224	8382	43.1
40	99	219	7491	38.6
35	86	214	6520	33.5
30	74	209	5620	29.2
25	61	202	4639	24.4
20	49	194	3730	20.0
15	37	183	2816	15.8
10	25	169	1897	11.5
5	12	142	897	6.7
3	8	127	588	5.4

Dimming levels table	environmental temperature: 70°C
-----------------------------	---------------------------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	17800	94.3
95	241	252	16936	89.4
90	227	250	15995	84.5
85	214	248	15110	79.6
80	201	245	14227	75.1
75	188	243	13340	70.3
70	175	240	12449	65.4
65	162	238	11552	60.8
60	149	234	10651	56.1
55	137	231	9816	51.6
50	124	228	8906	46.6
45	111	224	7990	42.1
40	99	219	7142	37.8
35	86	214	6217	32.9
30	74	209	5359	28.6
25	61	202	4424	23.9
20	49	194	3557	19.6
15	37	183	2686	15.4
10	25	169	1810	11.3
5	12	142	855	6.6
3	8	127	561	5.3

Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF61DA4HMA EAN: 4058352919736	LP number 59307_14
------------------------------------	--	-------------------------------------

Luminousfluxs table	siteco
----------------------------	---------------

Temperature °C	Luminous flux lm	Power consumption W
25.0	18700.0	96.3
70.0	17800.0	94.3