

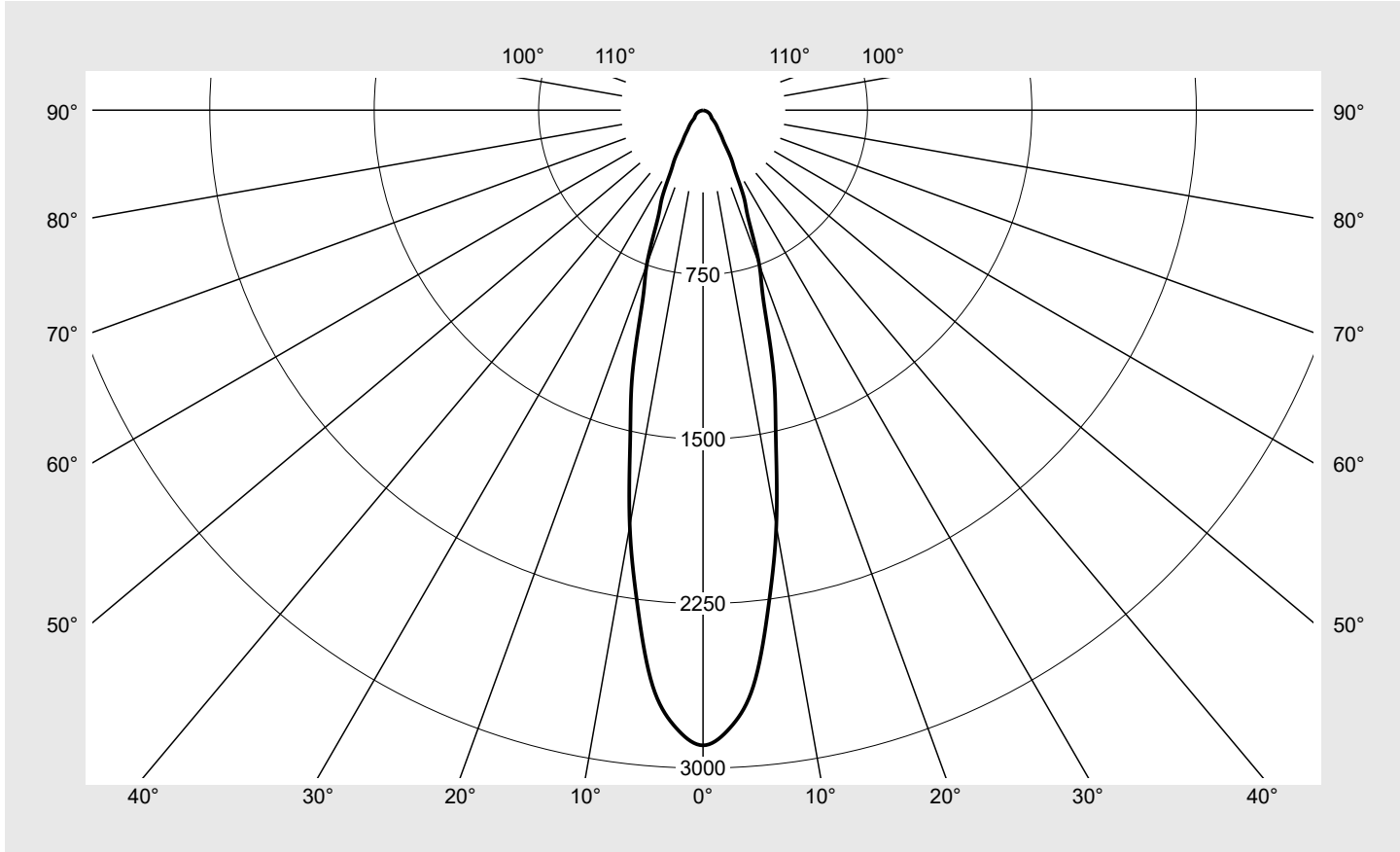


Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF61DB4TMA EAN: 4058352919798	LP number 59307_19
	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 = 54000 lm Power consumption = 282.6 W Luminous efficacy = 191.1 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

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Table of values for luminous intensities	Maximum luminous intensity
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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

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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	22.1	21.3	22.4	22.7	20.9	22.1	21.3	22.4	22.7
	3H	22.0	23.0	22.4	23.3	23.7	22.0	23.0	22.4	23.3	23.7
	4H	22.3	23.2	22.7	23.6	23.9	22.3	23.2	22.7	23.6	23.9
	6H	22.4	23.2	22.8	23.6	24.0	22.4	23.2	22.8	23.6	24.0
	8H	22.5	23.2	22.9	23.6	24.0	22.5	23.2	22.9	23.6	24.0
	12H	22.5	23.1	22.9	23.5	23.9	22.5	23.1	22.9	23.5	23.9
4H	2H	21.4	22.3	21.8	22.7	23.0	21.4	22.3	21.8	22.7	23.0
	3H	22.6	23.3	23.0	23.7	24.2	22.6	23.3	23.0	23.7	24.2
	4H	23.0	23.6	23.4	24.0	24.5	23.0	23.6	23.4	24.0	24.5
	6H	23.1	23.7	23.6	24.1	24.6	23.1	23.7	23.6	24.1	24.6
	8H	23.1	23.6	23.6	24.1	24.6	23.1	23.6	23.6	24.1	24.6
	12H	23.1	23.5	23.6	24.0	24.5	23.1	23.5	23.6	24.0	24.5
8H	4H	23.1	23.6	23.5	24.0	24.5	23.1	23.6	23.5	24.0	24.5
	6H	23.3	23.7	23.8	24.2	24.7	23.3	23.7	23.8	24.2	24.7
	8H	23.2	23.6	23.8	24.1	24.6	23.2	23.6	23.8	24.1	24.6
	12H	23.2	23.5	23.7	24.0	24.6	23.2	23.5	23.7	24.0	24.6
12H	4H	23.1	23.5	23.5	23.9	24.4	23.1	23.5	23.5	23.9	24.4
	6H	23.2	23.6	23.8	24.1	24.6	23.2	23.6	23.8	24.1	24.6
	8H	23.2	23.5	23.8	24.0	24.6	23.2	23.5	23.8	24.0	24.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 545 B = 235
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C-planes	0°
γ	Luminance in cd/m²
45,0°	41341.9
50,0°	32977.9
55,0°	31252.2
60,0°	30793.2
65,0°	28875.2
70,0°	24849.9
75,0°	19361.2
80,0°	12198.6
85,0°	3686.3

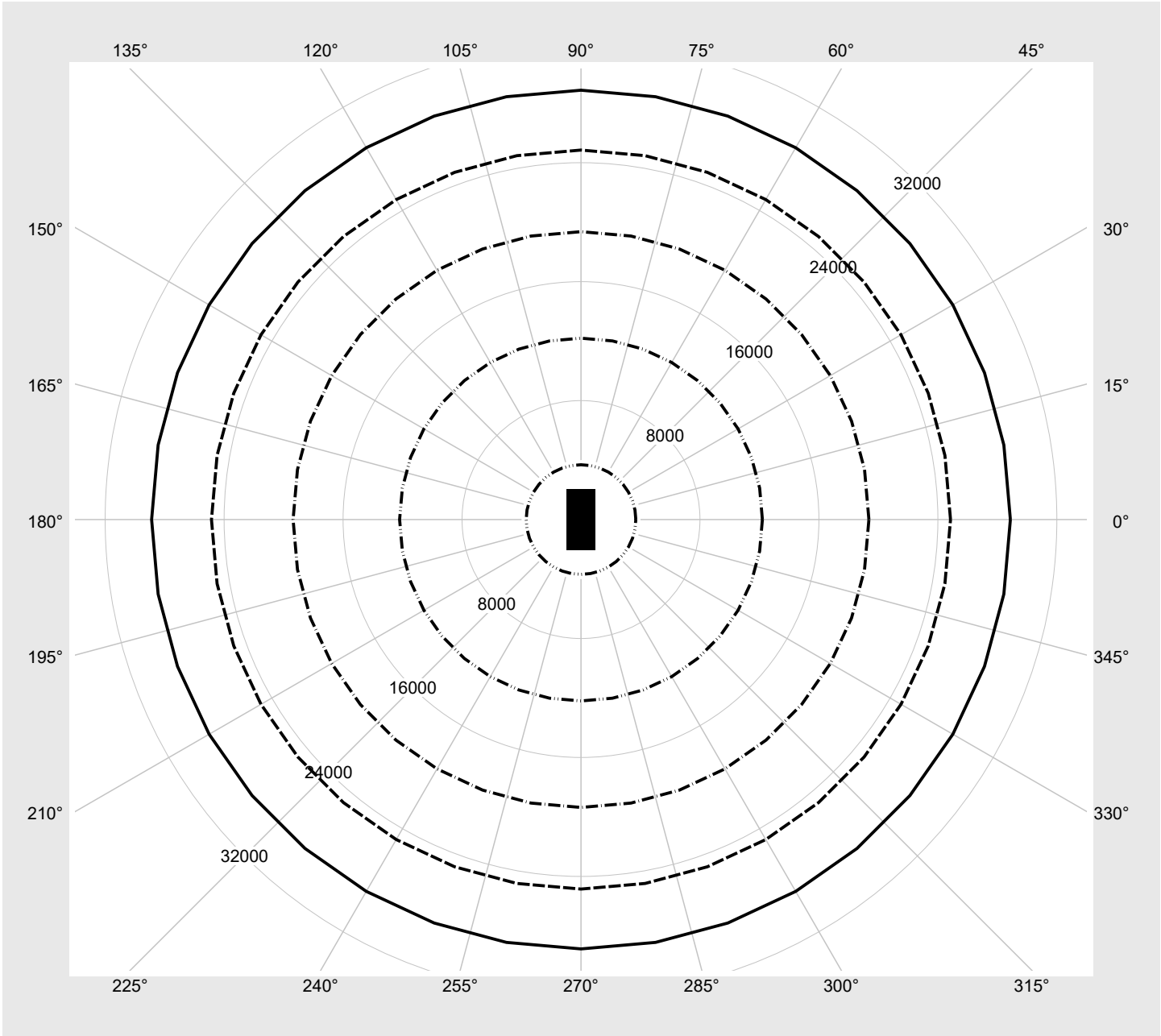
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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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	54000	282.6
95	240	252	51211	267.4
90	227	250	48610	252.1
85	214	248	45967	236.5
80	200	245	43121	221.2
75	187	243	40474	206.5
70	174	240	37797	191.6
65	161	237	35107	177.5
60	148	234	32392	162.5
55	135	231	29654	147.8
50	122	227	26898	134.0
45	110	223	24334	120.3
40	97	219	21533	106.2
35	85	214	18929	93.3
30	73	208	16306	80.5
25	60	201	13446	66.6
20	48	193	10784	53.8
15	36	182	8102	40.9
10	24	168	5401	28.1
5	12	142	2678	15.4
2	5	110	1081	8.0

Dimming levels table	environmental temperature: 60°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	51950	278.2
95	240	252	49277	263.2
90	227	250	46782	248.1
85	214	248	44243	232.8
80	200	245	41511	217.7
75	187	243	38971	203.2
70	174	240	36399	188.5
65	161	237	33814	174.6
60	148	234	31204	159.9
55	135	231	28571	145.4
50	122	227	25918	131.8
45	110	223	23452	118.3
40	97	219	20755	104.5
35	85	214	18247	91.8
30	72	208	15510	78.0
25	60	201	12965	65.5
20	48	193	10400	52.9
15	36	182	7815	40.2
10	24	168	5210	27.6
5	12	142	2584	15.2
2	5	110	1043	7.9

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Luminousfluxs table	siteco
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Temperature °C	Luminous flux lm	Power consumption W
25.0	54000.0	282.6
60.0	51950.0	278.2