

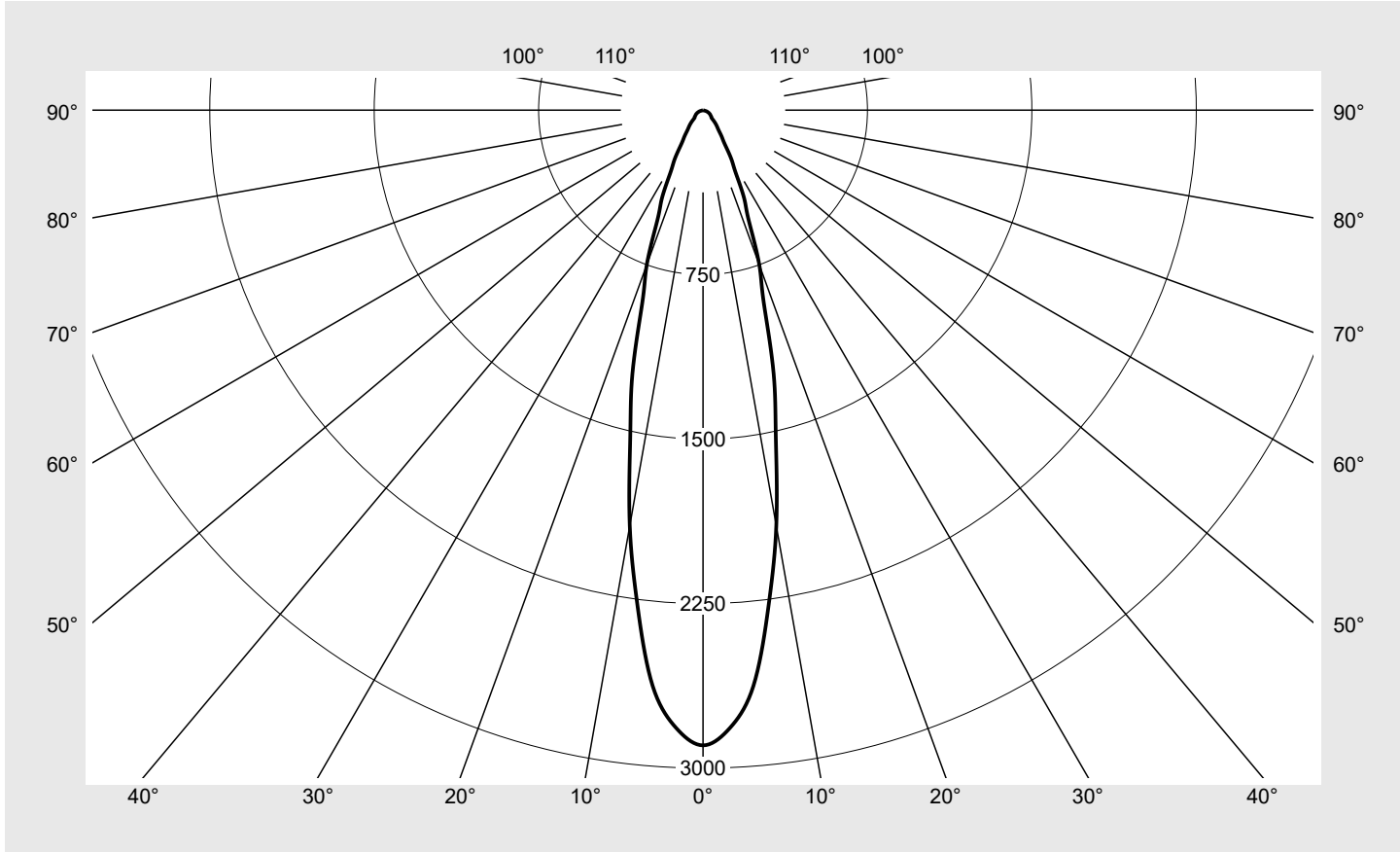


Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF81DA4NMA EAN: 4058352919910	LP number 59307_16
	Version narrow distribution, toughened safety glass, chain suspension Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI	serial documentation 19.10.2023
	Rated values Net luminous flux = 34200 lm Power consumption = 188.1 W Luminous efficacy = 181.8 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	19.3	20.5	19.7	20.8	21.1	19.3	20.5	19.7	20.8	21.1
	3H	20.4	21.4	20.8	21.7	22.1	20.4	21.4	20.8	21.7	22.1
	4H	20.7	21.6	21.1	22.0	22.4	20.7	21.6	21.1	22.0	22.4
	6H	20.8	21.7	21.3	22.0	22.4	20.8	21.7	21.3	22.0	22.4
	8H	20.9	21.6	21.4	22.0	22.4	20.9	21.6	21.4	22.0	22.4
	12H	20.9	21.5	21.3	21.9	22.3	20.9	21.5	21.3	21.9	22.3
4H	2H	19.8	20.7	20.2	21.1	21.5	19.8	20.7	20.2	21.1	21.5
	3H	21.0	21.8	21.4	22.2	22.6	21.0	21.8	21.4	22.2	22.6
	4H	21.4	22.0	21.8	22.5	22.9	21.4	22.0	21.8	22.5	22.9
	6H	21.5	22.1	22.0	22.5	23.0	21.5	22.1	22.0	22.5	23.0
	8H	21.5	22.0	22.0	22.5	23.0	21.5	22.0	22.0	22.5	23.0
	12H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
8H	4H	21.5	22.0	22.0	22.4	22.9	21.5	22.0	22.0	22.4	22.9
	6H	21.7	22.1	22.2	22.6	23.1	21.7	22.1	22.2	22.6	23.1
	8H	21.7	22.0	22.2	22.5	23.1	21.7	22.0	22.2	22.5	23.1
	12H	21.6	21.9	22.2	22.4	23.0	21.6	21.9	22.2	22.4	23.0
12H	4H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
	6H	21.7	22.0	22.2	22.5	23.0	21.7	22.0	22.2	22.5	23.0
	8H	21.6	21.9	22.2	22.4	23.0	21.6	21.9	22.2	22.4	23.0

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°	26183.2
50,0°	20886.0
55,0°	19793.0
60,0°	19502.3
65,0°	18287.6
70,0°	15738.3
75,0°	12262.1
80,0°	7725.8
85,0°	2334.6

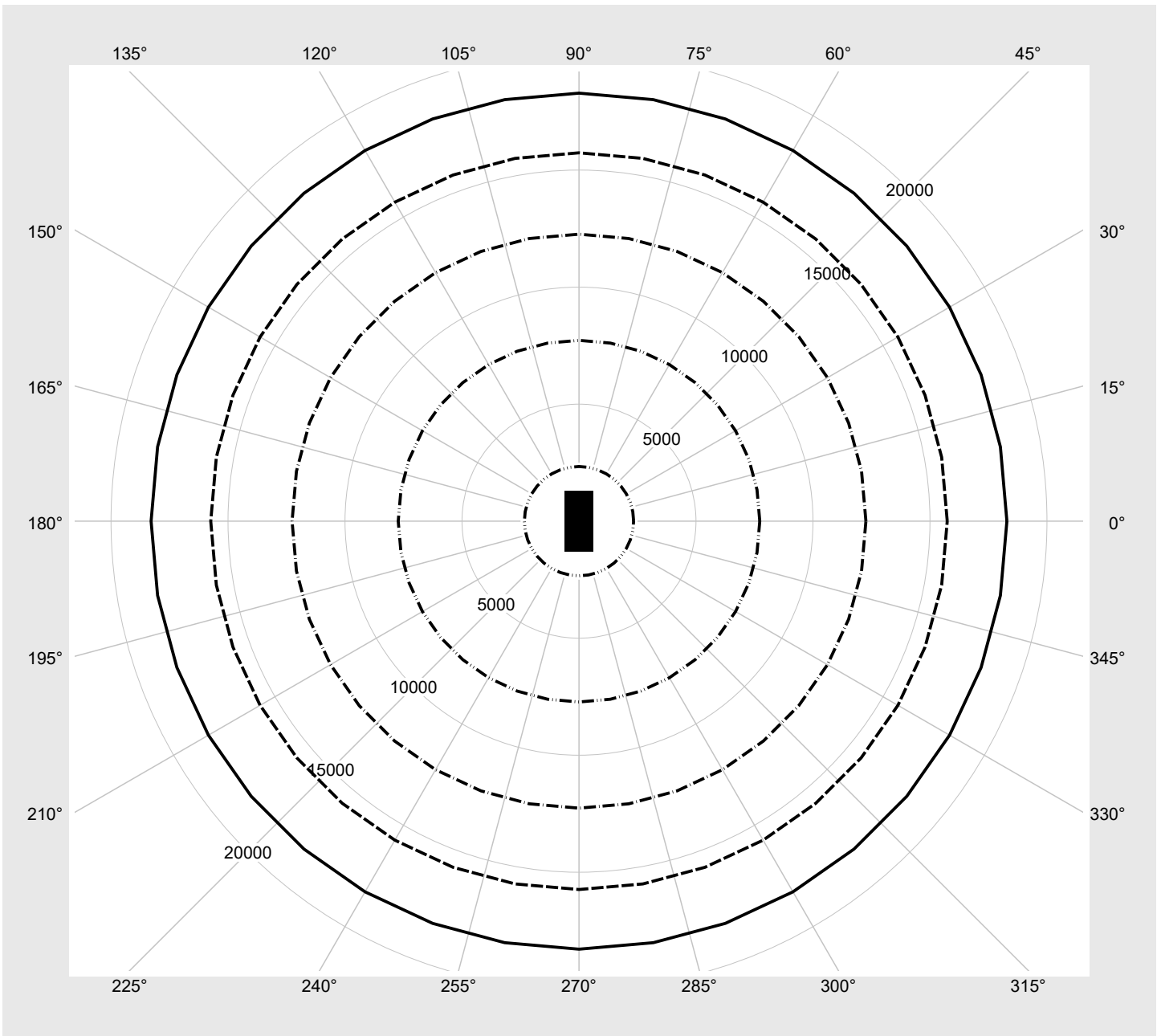
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Family
Highbay 11 Xtreme

Order number: 51HF81DA4NMA
EAN: 4058352919910

LP number
59307_16

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



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siteco

Dimming levels table environmental temperature: 25°C

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	34200	188.1
95	240	252	32493	177.6
90	226	250	30777	167.1
85	212	247	29055	156.6
80	199	245	27409	146.8
75	185	242	25655	136.6
70	172	240	23985	127.3
65	158	237	22169	116.5
60	145	233	20466	107.2
55	132	230	18749	97.1
50	120	227	17134	89.0
45	107	222	15372	79.6
40	95	218	13723	70.8
35	82	213	11917	61.5
30	70	207	10228	52.8
25	58	200	8523	44.0
20	46	191	6798	35.4
15	35	181	5200	27.4
10	23	166	3439	18.9
5	11	139	1656	10.3
2	4	102	607	5.4

Dimming levels table environmental temperature: 45°C

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	33170	187.3
95	240	252	31520	176.8
90	226	250	29862	166.3
85	212	247	28198	155.9
80	198	245	26484	145.4
75	185	242	24912	135.9
70	171	240	23171	125.7
65	158	237	21538	116.0
60	145	233	19891	106.7
55	132	230	18228	96.6
50	119	226	16532	87.8
45	107	222	14955	79.2
40	94	218	13223	69.8
35	82	213	11603	61.2
30	70	207	9964	52.5
25	58	200	8306	43.8
20	46	191	6629	35.2
15	34	180	4930	26.6
10	23	166	3357	18.8
5	11	139	1618	10.3
2	4	102	593	5.4

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Luminousfluxs table



Temperature °C	Luminous flux lm	Power consumption W
25.0	34200.0	188.1
45.0	33170.0	187.3