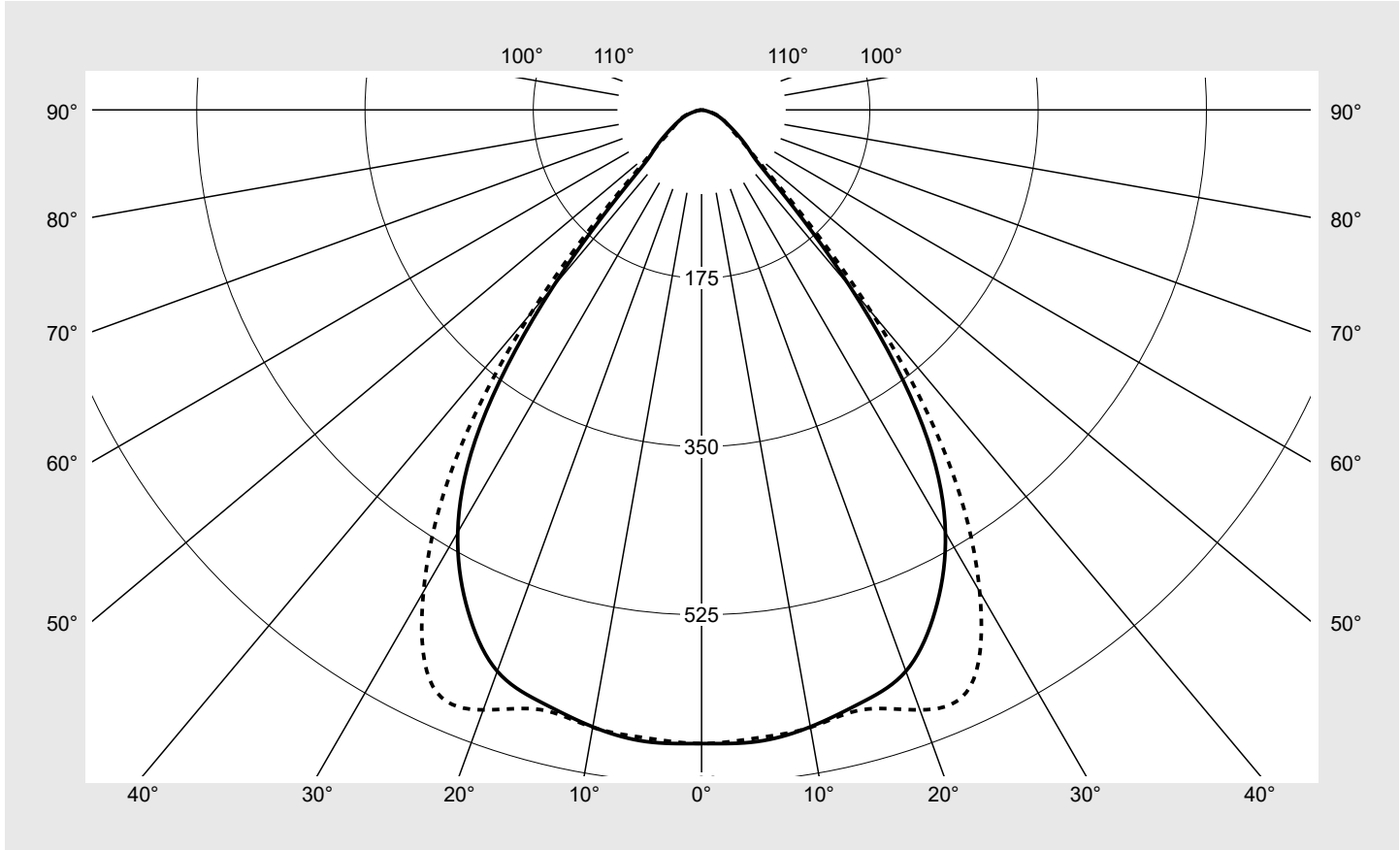


# Photometric test report

<b>Family</b> <b>Highbay 11 Xtreme</b>	<b>Order number: 51HF62DB4QMA</b> <b>EAN: 4058352919873</b>	<b>LP number</b> <b>59481_9</b>
	<b>Version</b> wide distribution, toughened safety glass, chain suspension	<b>serial documentation</b> <b>19.10.2023</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
<b>Controlgear</b> ECG-DALI		
<b>Rated values</b> Net luminous flux = 36800 lm Power consumption = 193.7 W Luminous efficacy = 190 lm/W		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 665 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=83 N2=96 N3=100 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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<b>Table of values for luminous intensities</b>	<b>Maximum luminous intensity</b>
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C-planes $\gamma$	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°	658.9	658.9	658.9	658.9	658.9	658.9	658.9	3.9	3.9
5°	659.4	658.0	657.6	657.5	656.3	656.4	655.7	31.4	35.3
10°	651.4	650.9	652.2	654.2	654.0	653.1	651.9	62.1	97.5
15°	638.5	638.9	644.0	649.4	650.3	647.7	645.7	91.6	189.0
20°	621.1	623.4	633.8	648.8	662.5	665.0	663.9	121.1	310.1
25°	574.8	581.6	605.3	632.9	653.3	661.4	661.4	144.9	455.0
30°	507.1	516.1	549.5	579.4	585.2	579.5	578.4	153.1	608.1
35°	401.0	412.8	459.3	493.1	482.7	458.1	448.6	143.1	751.2
40°	241.2	257.9	312.8	355.4	335.4	297.6	275.9	106.7	858.0
45°	104.4	112.7	137.4	158.8	151.2	131.0	122.3	52.0	909.9
50°	64.5	64.2	65.8	69.0	66.2	63.4	64.8	27.5	937.5
55°	46.7	46.0	43.6	42.3	40.8	40.9	42.1	19.3	956.8
60°	33.4	31.7	30.6	30.2	31.1	31.3	32.1	14.9	971.6
65°	24.6	23.1	22.4	22.7	24.0	23.8	25.6	11.7	983.3
70°	17.3	16.4	15.6	16.8	17.7	18.3	19.2	8.8	992.2
75°	9.4	9.7	9.3	10.5	10.4	10.4	11.2	5.3	997.5
80°	3.2	3.3	3.5	4.0	4.3	4.4	4.5	2.1	999.6
85°	0.5	0.5	0.5	0.6	0.8	1.0	1.1	0.4	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

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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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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	20.8	22.1	21.1	22.4	22.7	21.2	22.5	21.6	22.8	23.2
	3H	20.9	22.1	21.3	22.5	22.8	21.4	22.6	21.8	22.9	23.3
	4H	21.0	22.1	21.4	22.4	22.8	21.5	22.6	21.9	22.9	23.3
	6H	21.0	22.0	21.4	22.3	22.7	21.5	22.5	21.9	22.8	23.2
	8H	21.0	21.9	21.5	22.3	22.7	21.5	22.4	22.0	22.8	23.2
	12H	21.0	21.8	21.4	22.2	22.6	21.5	22.3	22.0	22.7	23.1
4H	2H	20.7	21.8	21.1	22.2	22.5	21.2	22.3	21.6	22.6	23.0
	3H	21.0	21.9	21.4	22.3	22.7	21.5	22.4	21.9	22.7	23.2
	4H	21.1	21.9	21.5	22.3	22.7	21.6	22.4	22.0	22.8	23.2
	6H	21.1	21.8	21.6	22.2	22.7	21.6	22.3	22.1	22.7	23.2
	8H	21.1	21.7	21.5	22.1	22.6	21.6	22.2	22.1	22.6	23.1
	12H	21.1	21.6	21.6	22.0	22.5	21.6	22.1	22.1	22.6	23.1
8H	4H	21.1	21.7	21.6	22.1	22.6	21.5	22.1	22.0	22.6	23.1
	6H	21.1	21.6	21.6	22.1	22.6	21.6	22.1	22.1	22.5	23.1
	8H	21.0	21.5	21.6	22.0	22.5	21.5	22.0	22.1	22.5	23.0
	12H	21.0	21.4	21.6	21.9	22.4	21.6	21.9	22.1	22.4	22.9
12H	4H	21.1	21.6	21.6	22.1	22.6	21.5	22.0	22.0	22.5	23.0
	6H	21.1	21.5	21.6	22.0	22.5	21.6	22.0	22.1	22.5	23.0
	8H	21.0	21.4	21.6	21.9	22.4	21.5	21.9	22.1	22.4	22.9

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 545</b> <b>B = 470</b>
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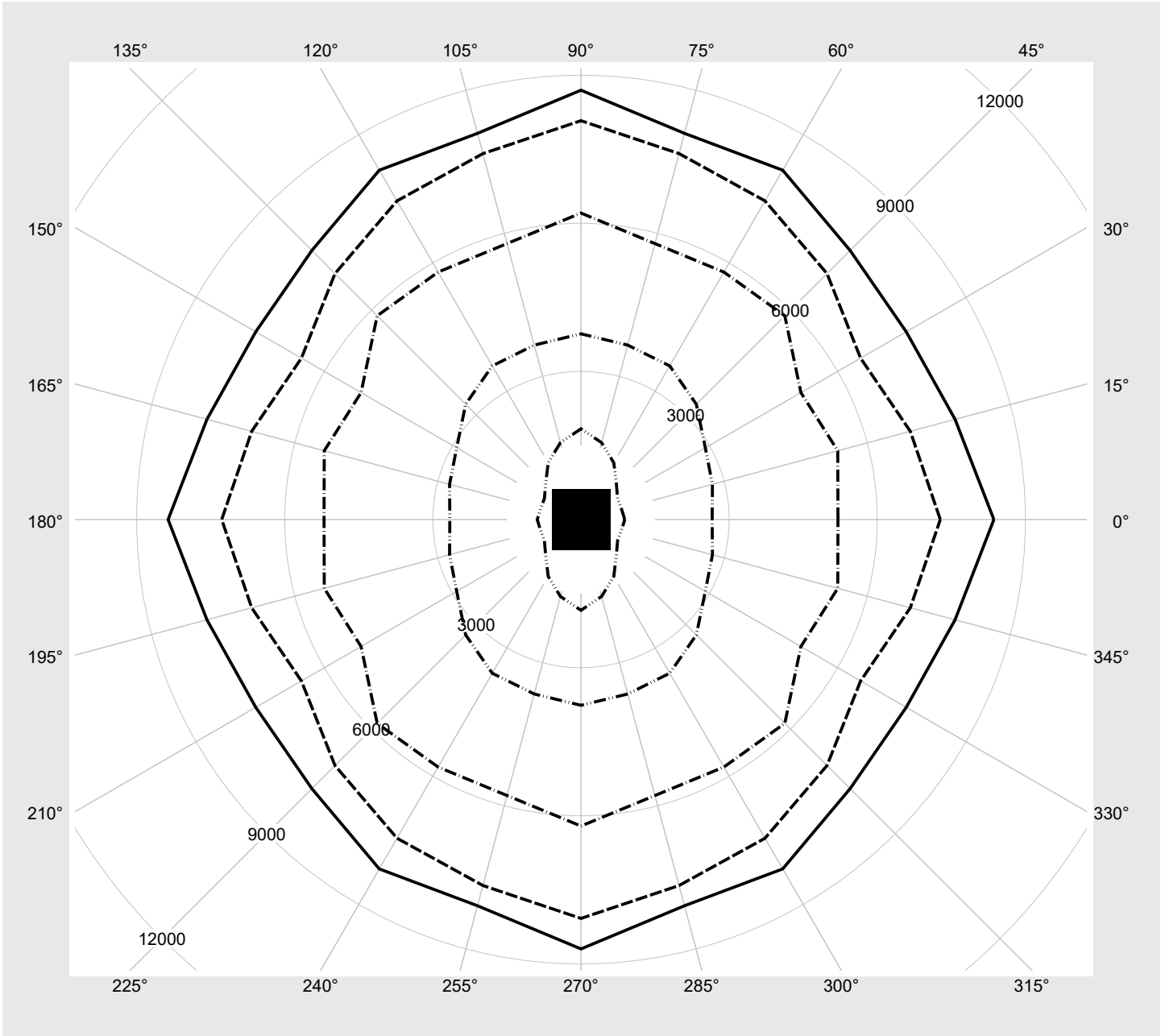
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		21202.2	22889.4	27918.2	32269.9	30715.1	26616.8	24856.9	
50°		14413.8	14342.7	14695.6	15427.2	14795.1	14180.9	14485.1	
55°		11707.4	11521.3	10921.2	10588.5	10227.8	10256.1	10533.7	
60°		9593.1	9118.2	8803.6	8685.2	8925.7	9003.8	9211.6	
65°		8362.2	7843.1	7606.2	7707.9	8170.5	8098.1	8696.1	
70°		7276.5	6904.8	6538.5	7045.9	7453.0	7673.5	8078.4	
75°		5203.9	5383.2	5142.8	5837.2	5787.8	5786.7	6207.5	
80°		2656.6	2755.9	2907.3	3303.6	3594.0	3657.7	3761.9	
85°		886.8	847.3	855.5	1013.8	1328.6	1612.1	1837.9	

**Photometric test report**

<b>Family</b> Highbay 11 Xtreme	<b>Order number: 51HF62DB4QMA</b> <b>EAN: 4058352919873</b>	<b>LP number</b> 59481_9
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**Luminance values in cd/m<sup>2</sup>**    γ 65°    γ 70°    γ 75°    γ 80°    γ 85°



## Photometric test report

Family <b>Highbay 11 Xtreme</b>	Order number: <b>51HF62DB4QMA</b> EAN: <b>4058352919873</b>	LP number <b>59481_9</b>
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**sitEco**

<b>Dimming levels table</b>	environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	36800	193.7
95	241	252	35023	183.9
90	227	250	33092	173.3
85	214	248	31287	163.7
80	201	245	29478	154.0
75	188	243	27651	144.4
70	175	240	25816	134.6
65	162	238	23970	125.2
60	149	234	22107	115.5
55	136	231	20243	106.1
50	123	227	18370	96.7
45	111	224	16615	87.8
40	98	219	14721	78.4
35	85	214	12812	69.1
30	73	208	11038	60.1
25	61	202	9247	50.9
20	48	193	7305	41.6
15	36	182	5497	32.9
10	24	168	3680	23.9
5	12	142	1853	15.7
3	7	122	1089	11.4

<b>Dimming levels table</b>	environmental temperature: 70°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	34430	191.8
95	240	252	32648	181.3
90	227	250	30977	171.6
85	214	248	29295	162.0
80	201	245	27609	152.5
75	187	243	25773	142.2
70	174	240	24062	132.5
65	161	237	22337	123.2
60	148	234	20598	113.7
55	136	231	18987	105.0
50	123	227	17237	95.7
45	110	223	15460	86.2
40	98	219	13824	77.6
35	85	214	12036	68.4
30	73	208	10373	59.5
25	60	201	8554	49.5
20	48	193	6871	41.2
15	36	182	5173	32.6
10	24	168	3465	23.6
5	12	142	1746	15.5
3	7	122	1026	11.3

**Photometric test report**

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<b>Luminousfluxs table</b>	<b>siteco</b>
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Temperature °C	Luminous flux lm	Power consumption W
25.0	36800.0	193.7
70.0	34430.0	191.8