
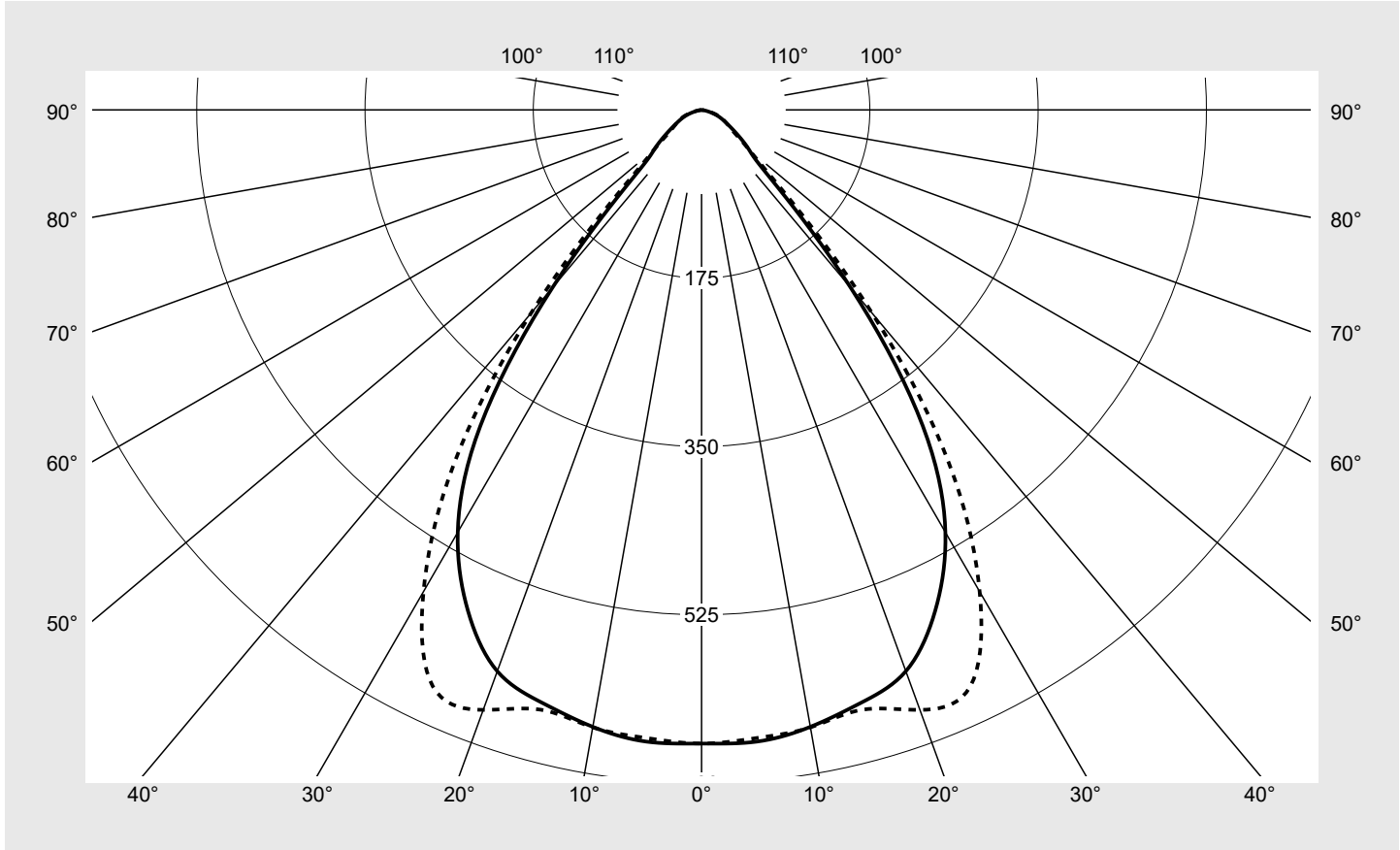


Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF82DB4WMA EAN: 4058352920039	LP number 59481_11
	Version wide 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 = 75000 lm Power consumption = 422.2 W Luminous efficacy = 177.6 lm/W	
Rated values		



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	
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
		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°	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

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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	23.2	24.6	23.6	24.9	25.2	23.7	25.0	24.0	25.3	25.6
	3H	23.4	24.6	23.8	24.9	25.3	23.9	25.1	24.3	25.4	25.7
	4H	23.5	24.6	23.9	24.9	25.3	24.0	25.0	24.3	25.4	25.8
	6H	23.5	24.4	23.9	24.8	25.2	24.0	24.9	24.4	25.3	25.7
	8H	23.5	24.4	23.9	24.8	25.2	24.0	24.9	24.4	25.3	25.7
	12H	23.5	24.3	23.9	24.7	25.1	24.0	24.8	24.4	25.2	25.6
4H	2H	23.2	24.3	23.6	24.6	25.0	23.6	24.7	24.0	25.1	25.5
	3H	23.5	24.4	23.9	24.8	25.2	23.9	24.8	24.4	25.2	25.6
	4H	23.6	24.4	24.0	24.8	25.2	24.0	24.8	24.5	25.2	25.7
	6H	23.6	24.2	24.0	24.7	25.1	24.1	24.7	24.5	25.2	25.6
	8H	23.5	24.2	24.0	24.6	25.1	24.1	24.7	24.5	25.1	25.6
	12H	23.5	24.1	24.0	24.5	25.0	24.1	24.6	24.6	25.0	25.5
8H	4H	23.6	24.2	24.0	24.6	25.1	24.0	24.6	24.5	25.1	25.5
	6H	23.6	24.1	24.0	24.5	25.0	24.0	24.5	24.5	25.0	25.5
	8H	23.5	24.0	24.0	24.4	25.0	24.0	24.5	24.5	25.0	25.5
	12H	23.5	23.9	24.0	24.4	24.9	24.0	24.4	24.5	24.9	25.4
12H	4H	23.6	24.1	24.1	24.5	25.0	24.0	24.5	24.5	25.0	25.5
	6H	23.6	24.0	24.1	24.4	25.0	24.0	24.4	24.5	24.9	25.5
	8H	23.5	23.9	24.0	24.4	24.9	24.0	24.4	24.5	24.9	25.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 545 B = 470
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C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		43211.1	46649.6	56898.4	65767.6	62598.6	54246.3	50659.5
50°		29375.9	29231.1	29950.3	31441.2	30153.0	28901.3	29521.2
55°		23860.2	23480.9	22257.8	21579.9	20844.8	20902.5	21468.1
60°		19551.2	18583.3	17942.0	17700.8	18190.9	18350.2	18773.6
65°		17042.6	15984.7	15501.8	15708.9	16651.9	16504.3	17723.0
70°		14829.9	14072.3	13325.8	14359.9	15189.5	15638.9	16464.2
75°		10605.8	10971.2	10481.3	11896.6	11795.9	11793.6	12651.1
80°		5414.2	5616.6	5925.1	6732.8	7324.6	7454.5	7666.9
85°		1807.4	1726.8	1743.6	2066.1	2707.7	3285.6	3745.8

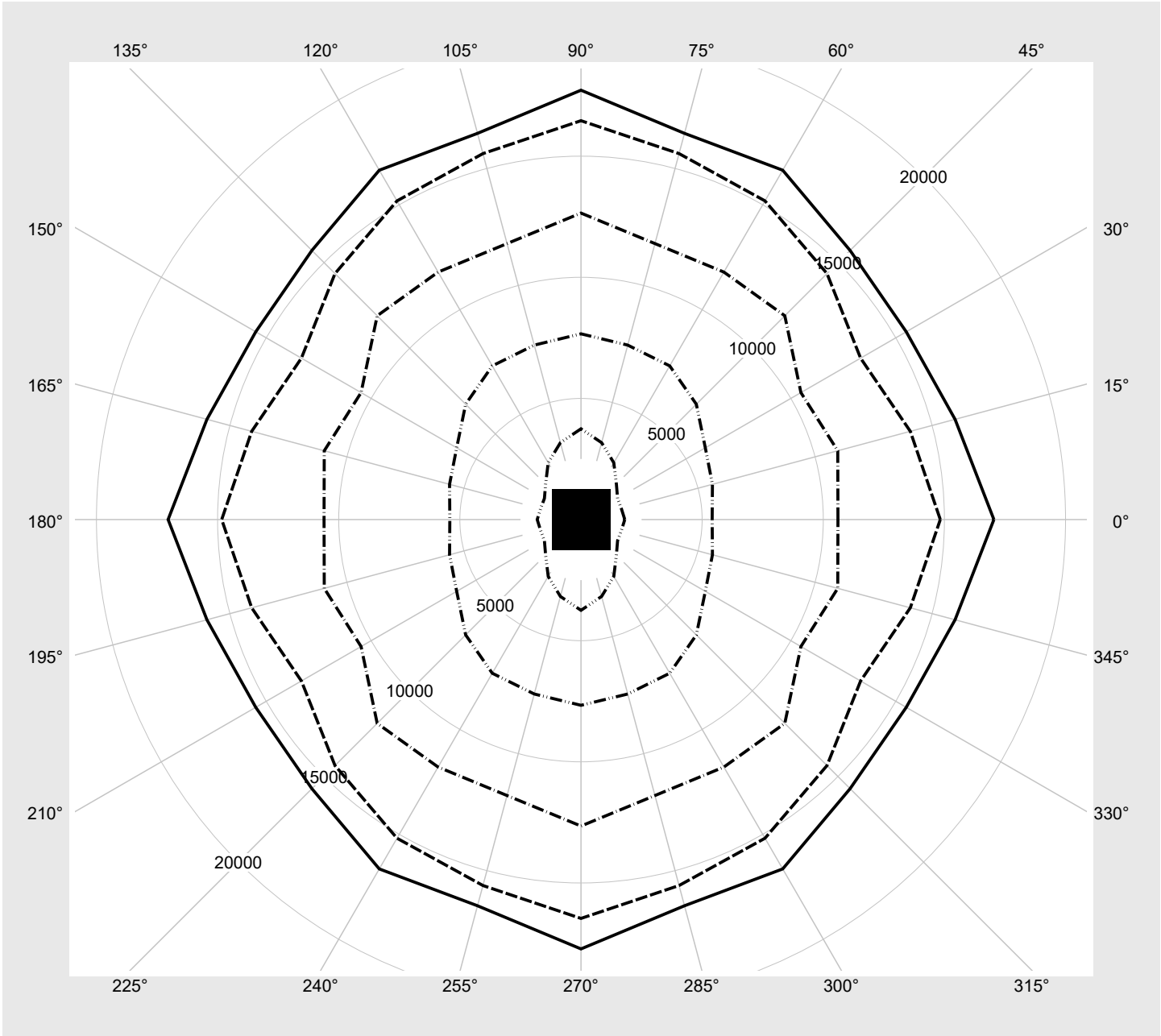
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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Family Highbay 11 Xtreme	Order number: 51HF82DB4WMA EAN: 4058352920039	LP number 59481_11
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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	75000	422.2
95	240	252	71234	397.9
90	226	250	67402	372.7
85	213	248	63819	350.5
80	199	245	59920	326.8
75	186	243	56299	304.2
70	173	240	52613	282.8
65	159	237	48610	259.5
60	146	234	44859	237.4
55	134	231	41371	217.8
50	121	227	37561	196.5
45	108	223	33688	175.9
40	96	218	30094	156.6
35	84	213	26420	137.6
30	71	207	22474	116.6
25	59	201	18762	97.0
20	47	192	15013	77.7
15	35	181	11223	58.9
10	23	166	7392	40.3
5	12	142	3844	23.2
2	4	102	1246	11.0

Dimming levels table	environmental temperature: 45°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	73340	418.5
95	240	252	69669	394.3
90	226	250	65933	369.4
85	213	248	62435	347.3
80	199	245	58628	323.9
75	186	243	55094	301.5
70	172	240	51219	278.8
65	159	237	47581	257.1
60	146	234	43915	235.2
55	133	230	40219	214.2
50	121	227	36779	194.7
45	108	223	32991	174.3
40	96	218	29474	155.2
35	83	213	25532	135.3
30	71	207	22016	115.5
25	59	201	18381	96.1
20	47	192	14710	77.0
15	35	181	10998	58.3
10	23	166	7245	39.9
5	12	142	3767	23.0
2	4	102	1221	10.9

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Luminousfluxs table	siteco
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Temperature °C	Luminous flux lm	Power consumption W
25.0	75000.0	422.2
45.0	73340.0	418.5