

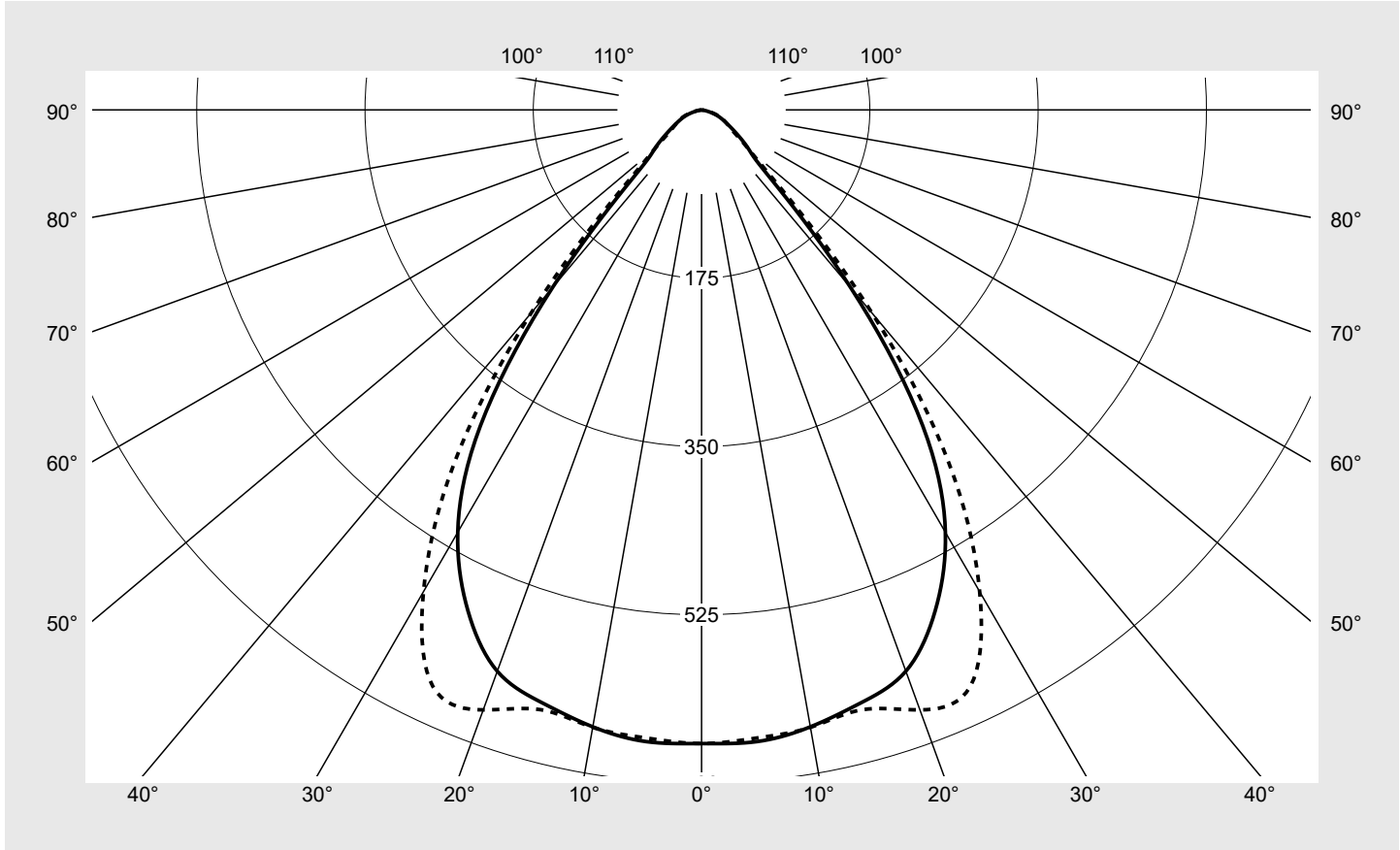


Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF62DA4MMA EAN: 4058352919859	LP number 59481_10
	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 = 31100 lm Power consumption = 170.9 W Luminous efficacy = 182 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	
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	20.2	21.5	20.5	21.8	22.1	20.6	22.0	21.0	22.3	22.6
	3H	20.4	21.5	20.7	21.9	22.2	20.8	22.0	21.2	22.3	22.7
	4H	20.4	21.5	20.8	21.9	22.2	20.9	22.0	21.3	22.3	22.7
	6H	20.4	21.4	20.8	21.8	22.2	20.9	21.9	21.3	22.2	22.6
	8H	20.5	21.3	20.9	21.7	22.1	21.0	21.8	21.4	22.2	22.6
	12H	20.4	21.2	20.9	21.6	22.0	20.9	21.7	21.4	22.1	22.5
4H	2H	20.2	21.2	20.6	21.6	22.0	20.6	21.7	21.0	22.0	22.4
	3H	20.4	21.3	20.8	21.7	22.1	20.9	21.8	21.3	22.2	22.6
	4H	20.5	21.3	21.0	21.7	22.2	21.0	21.8	21.4	22.2	22.6
	6H	20.5	21.2	21.0	21.6	22.1	21.0	21.7	21.5	22.1	22.6
	8H	20.5	21.1	21.0	21.5	22.0	21.0	21.6	21.5	22.1	22.5
	12H	20.5	21.0	21.0	21.5	22.0	21.0	21.5	21.5	22.0	22.5
8H	4H	20.5	21.1	21.0	21.6	22.0	20.9	21.6	21.4	22.0	22.5
	6H	20.5	21.0	21.0	21.5	22.0	21.0	21.5	21.5	22.0	22.5
	8H	20.5	20.9	21.0	21.4	21.9	21.0	21.4	21.5	21.9	22.4
	12H	20.4	20.8	21.0	21.3	21.8	21.0	21.3	21.5	21.8	22.4
12H	4H	20.5	21.0	21.0	21.5	22.0	21.0	21.5	21.4	21.9	22.4
	6H	20.5	20.9	21.0	21.4	21.9	21.0	21.4	21.5	21.9	22.4
	8H	20.5	20.8	21.0	21.3	21.9	21.0	21.3	21.5	21.8	22.4

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° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45°		17918.2	19344.0	23593.9	27271.6	25957.6	22494.1	21006.8
50°		12181.2	12121.2	12419.4	13037.6	12503.5	11984.4	12241.5
55°		9894.0	9736.7	9229.6	8948.5	8643.6	8667.6	8902.1
60°		8107.2	7705.9	7440.0	7339.9	7543.2	7609.2	7784.8
65°		7067.0	6628.3	6428.1	6514.0	6905.0	6843.8	7349.1
70°		6149.5	5835.3	5525.8	5954.6	6298.6	6484.9	6827.1
75°		4397.9	4549.4	4346.3	4933.1	4891.4	4890.4	5246.0
80°		2245.1	2329.0	2457.0	2791.9	3037.3	3091.1	3179.2
85°		749.5	716.0	723.0	856.7	1122.8	1362.4	1553.3

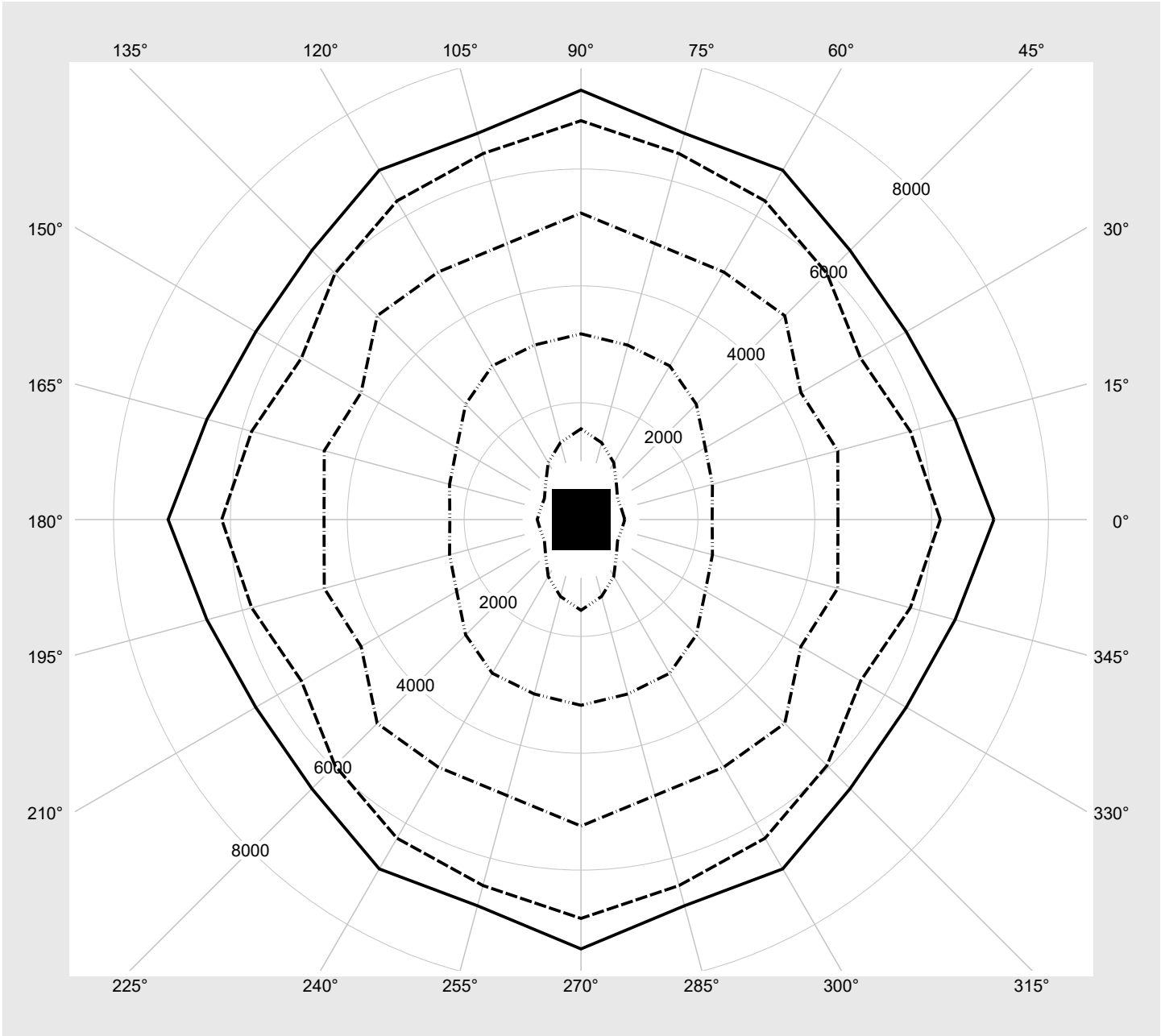
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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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	31100	170.9
95	240	252	29509	161.3
90	227	250	28003	151.1
85	213	248	26384	142.4
80	200	245	24878	133.5
75	187	243	23357	124.4
70	174	240	21826	115.3
65	160	237	20162	105.8
60	147	234	18606	97.2
55	135	231	17159	89.7
50	122	227	15562	80.8
45	109	223	13961	72.5
40	97	219	12472	64.5
35	84	213	10843	56.3
30	72	208	9329	48.0
25	60	201	7801	40.8
20	48	193	6262	32.6
15	36	182	4708	25.2
10	24	168	3142	17.5
5	12	142	1562	10.0
2	5	110	635	5.6

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	29910	168.3
95	240	252	28387	158.8
90	227	250	26942	148.7
85	213	248	25389	140.2
80	200	245	23945	131.4
75	187	243	22485	122.4
70	173	240	20902	112.9
65	160	237	19418	104.1
60	147	234	17922	95.6
55	134	231	16414	87.7
50	122	227	14995	79.5
45	109	223	13454	71.4
40	97	219	12021	63.4
35	84	213	10453	55.4
30	72	208	8995	47.2
25	60	201	7523	40.1
20	48	193	6039	32.1
15	36	182	4541	24.7
10	24	168	3032	17.2
5	12	142	1508	9.8
2	5	110	612	5.5

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Luminousfluxs table	siteco
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Temperature °C	Luminous flux lm	Power consumption W
25.0	31100.0	170.9
60.0	29910.0	168.3