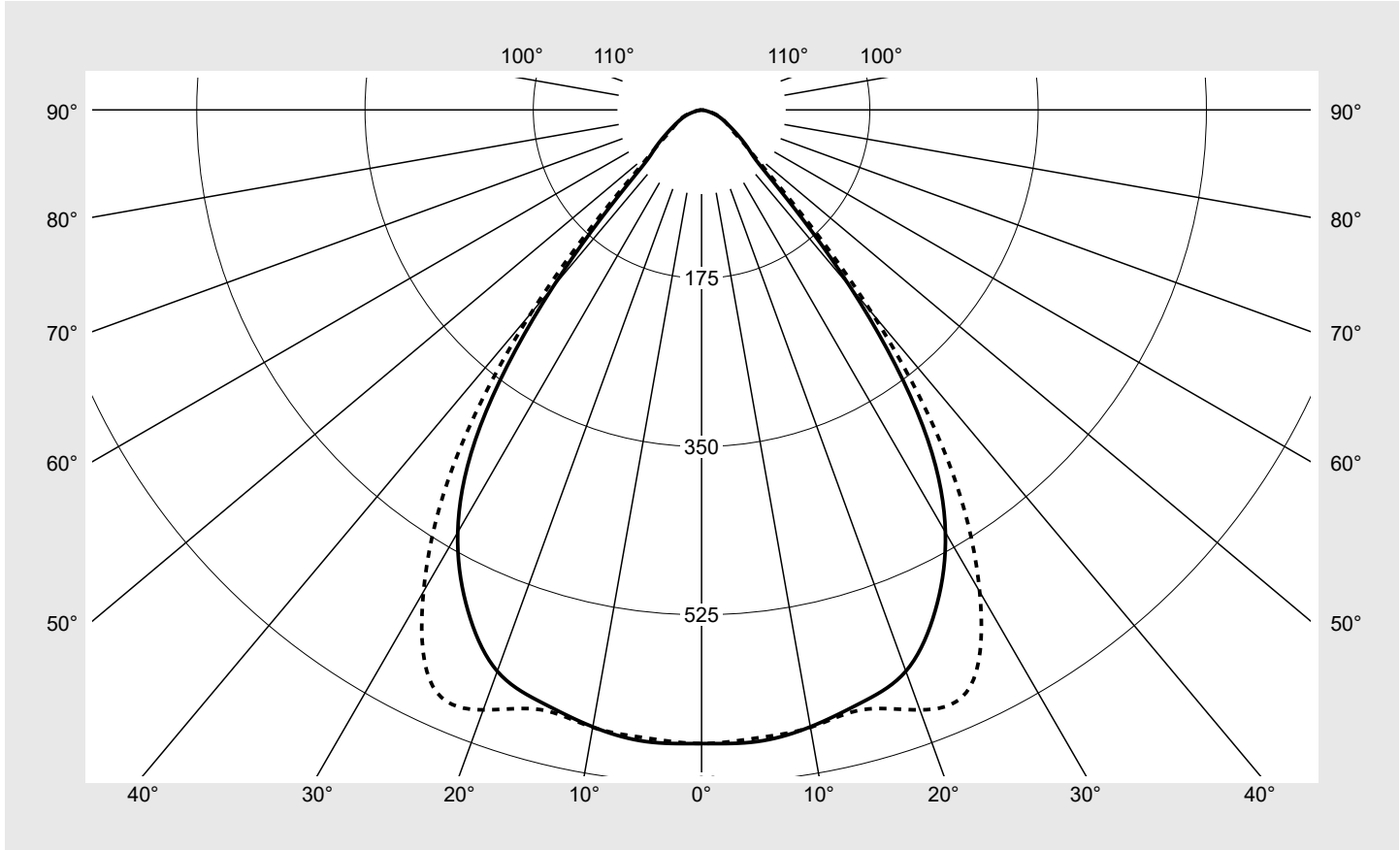


Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF62DA4HMA EAN: 4058352919835	LP number 59481_2
	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 = 18500 lm Power consumption = 96.5 W Luminous efficacy = 191.7 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

Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF62DA4HMA EAN: 4058352919835	LP number 59481_2
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Table of values for luminous intensities	Maximum luminous intensity
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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

Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF62DA4HMA EAN: 4058352919835	LP number 59481_2
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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	18.4	19.7	18.7	20.0	20.3	18.8	20.2	19.2	20.5	20.8
	3H	18.6	19.7	18.9	20.1	20.4	19.0	20.2	19.4	20.5	20.9
	4H	18.6	19.7	19.0	20.1	20.4	19.1	20.2	19.5	20.5	20.9
	6H	18.6	19.6	19.0	20.0	20.3	19.1	20.1	19.5	20.4	20.8
	8H	18.6	19.5	19.1	19.9	20.3	19.2	20.0	19.6	20.4	20.8
	12H	18.6	19.4	19.1	19.8	20.2	19.1	19.9	19.6	20.3	20.7
4H	2H	18.4	19.4	18.7	19.8	20.2	18.8	19.9	19.2	20.2	20.6
	3H	18.6	19.5	19.0	19.9	20.3	19.1	20.0	19.5	20.4	20.8
	4H	18.7	19.5	19.1	19.9	20.4	19.2	20.0	19.6	20.4	20.8
	6H	18.7	19.4	19.2	19.8	20.3	19.2	19.9	19.7	20.3	20.8
	8H	18.7	19.3	19.1	19.7	20.2	19.2	19.8	19.7	20.2	20.7
	12H	18.7	19.2	19.2	19.7	20.1	19.2	19.7	19.7	20.2	20.7
8H	4H	18.7	19.3	19.2	19.8	20.2	19.1	19.8	19.6	20.2	20.7
	6H	18.7	19.2	19.2	19.7	20.2	19.2	19.7	19.7	20.2	20.7
	8H	18.7	19.1	19.2	19.6	20.1	19.2	19.6	19.7	20.1	20.6
	12H	18.6	19.0	19.2	19.5	20.0	19.2	19.5	19.7	20.0	20.6
12H	4H	18.7	19.2	19.2	19.7	20.2	19.1	19.7	19.6	20.1	20.6
	6H	18.7	19.1	19.2	19.6	20.1	19.2	19.6	19.7	20.1	20.6
	8H	18.7	19.0	19.2	19.5	20.0	19.2	19.5	19.7	20.0	20.5

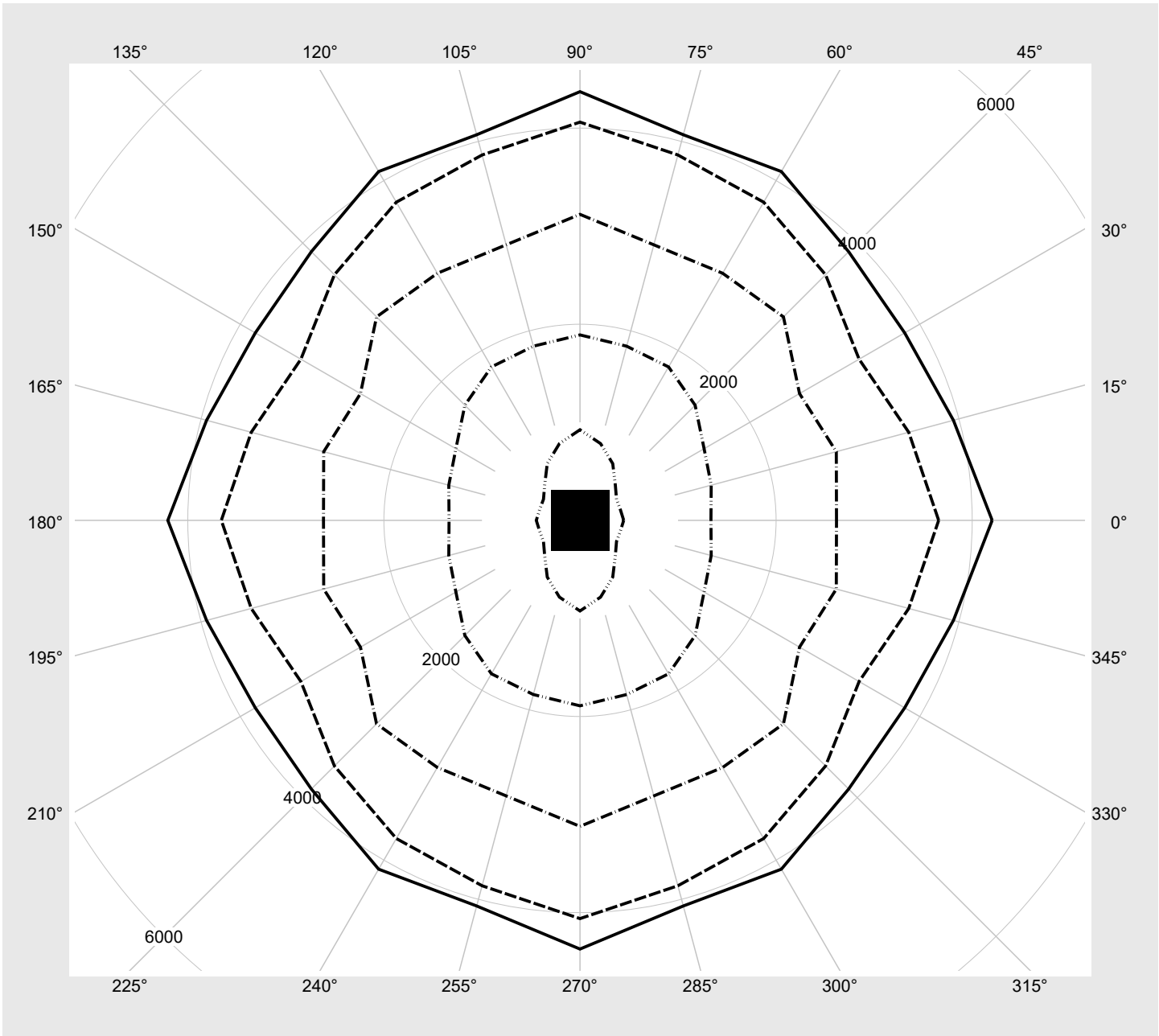
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 545 B = 470
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		10658.7	11506.9	14034.9	16222.7	15441.0	13380.7	12496.0	
50°		7246.1	7210.3	7387.8	7755.5	7437.8	7129.0	7281.9	
55°		5885.5	5792.0	5490.3	5323.0	5141.7	5155.9	5295.5	
60°		4822.6	4583.9	4425.7	4366.2	4487.1	4526.4	4630.8	
65°		4203.8	3942.9	3823.8	3874.9	4107.5	4071.1	4371.7	
70°		3658.0	3471.2	3287.0	3542.1	3746.7	3857.6	4061.2	
75°		2616.1	2706.2	2585.4	2934.5	2909.6	2909.1	3120.6	
80°		1335.5	1385.4	1461.5	1660.8	1806.7	1838.8	1891.2	
85°		445.8	425.9	430.1	509.6	667.9	810.4	924.0	

Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF62DA4HMA EAN: 4058352919835	LP number 59481_2
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF62DA4HMA EAN: 4058352919835	LP number 59481_2
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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	18500	96.5
95	241	252	17600	91.4
90	227	250	16619	86.6
85	214	248	15698	81.5
80	201	245	14779	76.8
75	188	243	13855	72.0
70	175	240	12928	66.9
65	162	238	11996	62.3
60	150	235	11132	57.8
55	137	231	10190	52.8
50	124	228	9244	47.7
45	111	224	8293	43.2
40	99	219	7412	38.7
35	86	214	6451	33.6
30	74	209	5560	29.3
25	61	202	4590	24.5
20	49	194	3691	20.1
15	37	183	2786	15.8
10	25	169	1877	11.5
5	12	142	888	6.7
3	8	127	582	5.4

Dimming levels table	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	17610	94.5
95	241	252	16755	89.5
90	227	250	15825	84.8
85	214	248	14949	79.8
80	201	245	14076	75.2
75	188	243	13198	70.5
70	175	240	12317	65.5
65	162	238	11429	61.0
60	149	234	10539	56.3
55	137	231	9712	51.7
50	124	228	8811	46.7
45	111	224	7906	42.2
40	99	219	7066	37.9
35	86	214	6151	33.0
30	74	209	5303	28.7
25	61	202	4378	24.0
20	49	194	3520	19.6
15	37	183	2658	15.4
10	25	169	1791	11.3
5	12	142	846	6.6
3	8	127	555	5.3

Photometric test report

Family Highbay 11 Xtreme	Order number: 51HF62DA4HMA EAN: 4058352919835	LP number 59481_2
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Luminousfluxs table	siteco
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Temperature °C	Luminous flux lm	Power consumption W
25.0	18500.0	96.5
70.0	17610.0	94.5