

Photometric test report

Family
Highbay 11 Xtreme

Order number: 51HF62DB4TMA
EAN: 4058352919897

LP number
59481_12



Version wide distribution, toughened safety glass, chain suspension
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 54000 lm
Power consumption = 285.7 W
Luminous efficacy = 189 lm/W

serial
documentation
19.10.2023

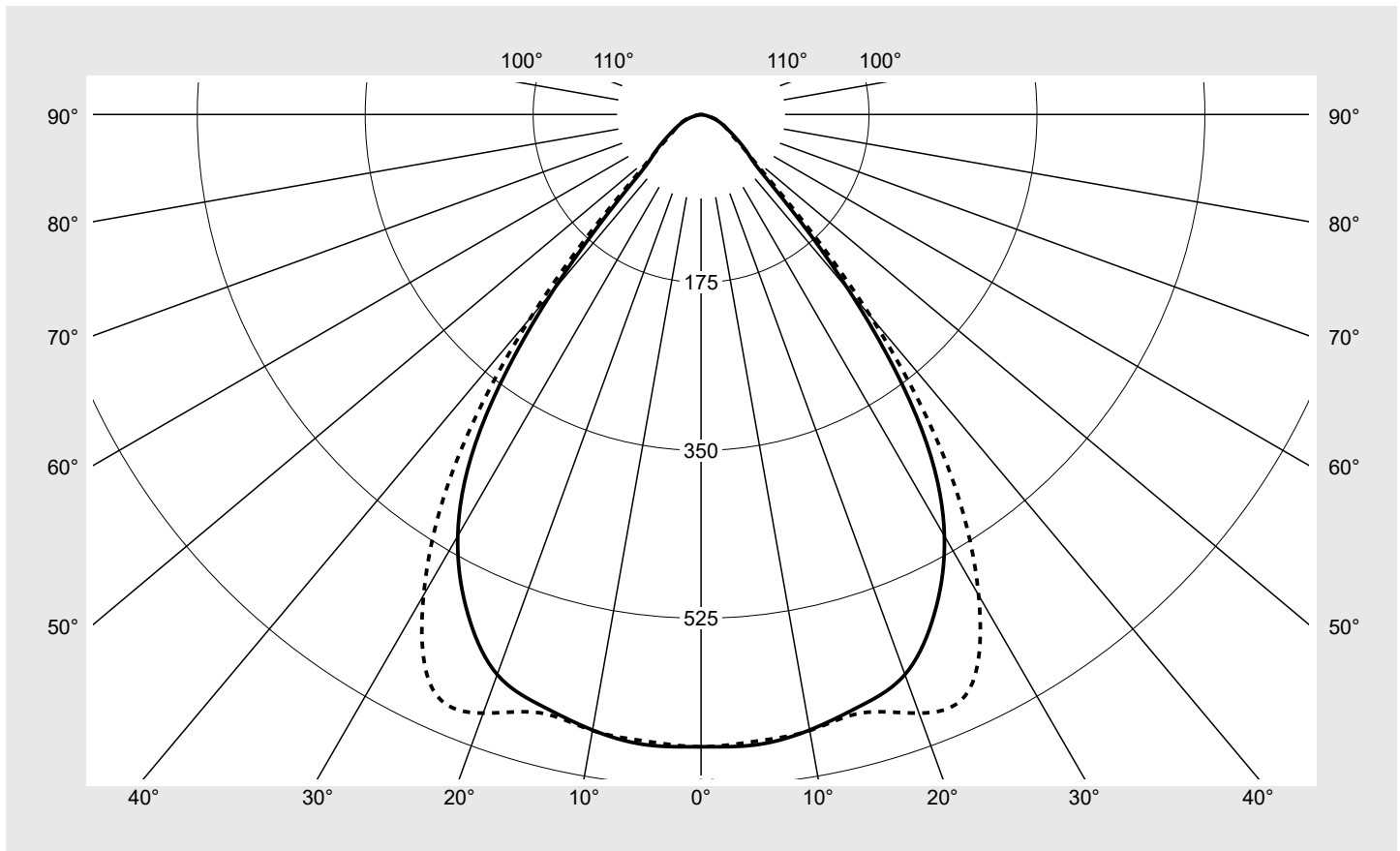
siteco

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	22.1	23.4	22.5	23.7	24.1	22.5	23.9	22.9	24.2	24.5
	3H	22.3	23.5	22.7	23.8	24.1	22.7	23.9	23.1	24.2	24.6
	4H	22.3	23.4	22.7	23.8	24.1	22.8	23.9	23.2	24.2	24.6
	6H	22.3	23.3	22.7	23.7	24.1	22.8	23.8	23.2	24.2	24.6
	8H	22.4	23.2	22.8	23.6	24.0	22.9	23.7	23.3	24.1	24.5
	12H	22.3	23.1	22.8	23.5	24.0	22.9	23.6	23.3	24.0	24.5
4H	2H	22.1	23.2	22.5	23.5	23.9	22.5	23.6	22.9	23.9	24.3
	3H	22.3	23.2	22.8	23.6	24.0	22.8	23.7	23.2	24.1	24.5
	4H	22.4	23.2	22.9	23.6	24.1	22.9	23.7	23.3	24.1	24.5
	6H	22.4	23.1	22.9	23.5	24.0	22.9	23.6	23.4	24.0	24.5
	8H	22.4	23.0	22.9	23.5	23.9	22.9	23.5	23.4	24.0	24.5
	12H	22.4	22.9	22.9	23.4	23.9	22.9	23.4	23.4	23.9	24.4
8H	4H	22.4	23.0	22.9	23.5	24.0	22.9	23.5	23.3	23.9	24.4
	6H	22.4	22.9	22.9	23.4	23.9	22.9	23.4	23.4	23.9	24.4
	8H	22.4	22.8	22.9	23.3	23.8	22.9	23.3	23.4	23.8	24.3
	12H	22.4	22.7	22.9	23.2	23.8	22.9	23.2	23.4	23.7	24.3
12H	4H	22.4	22.9	22.9	23.4	23.9	22.9	23.4	23.4	23.8	24.3
	6H	22.4	22.8	22.9	23.3	23.8	22.9	23.3	23.4	23.8	24.3
	8H	22.4	22.7	22.9	23.2	23.8	22.9	23.2	23.4	23.7	24.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 545
			B = 470

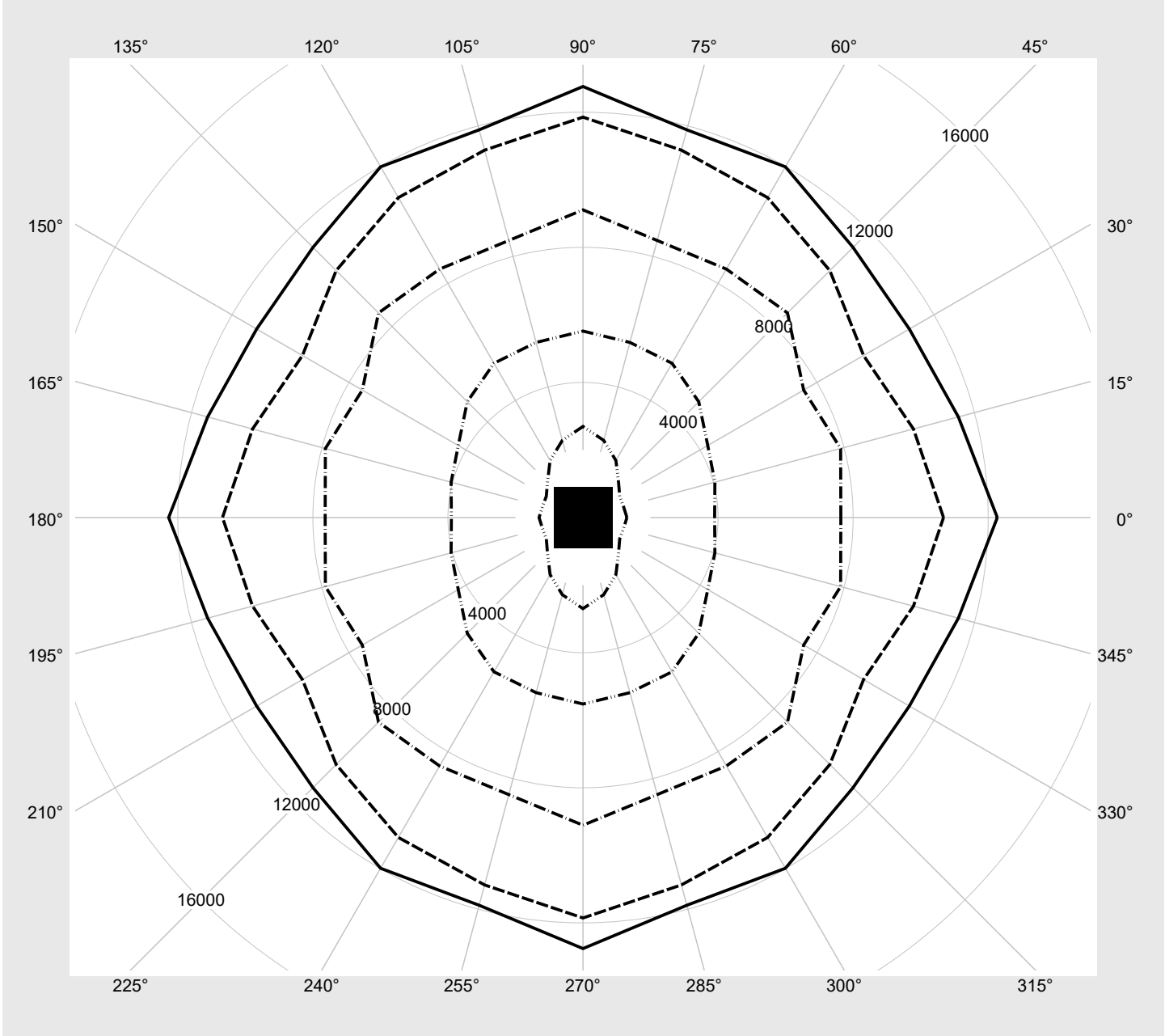
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		31112.0	33587.7	40966.9	47352.6	45071.0	39057.3	36474.9	
50°		21150.7	21046.4	21564.2	22637.7	21710.2	20808.9	21255.3	
55°		17179.3	16906.2	16025.6	15537.5	15008.2	15049.8	15457.0	
60°		14076.9	13379.9	12918.3	12744.5	13097.5	13212.1	13517.0	
65°		12270.7	11509.0	11161.3	11310.4	11989.3	11883.1	12760.5	
70°		10677.5	10132.0	9594.6	10339.1	10936.4	11260.0	11854.2	
75°		7636.1	7899.2	7546.6	8565.5	8493.0	8491.4	9108.8	
80°		3898.2	4043.9	4266.1	4847.6	5273.7	5367.2	5520.2	
85°		1301.3	1243.3	1255.4	1487.6	1949.6	2365.6	2697.0	

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



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Dimming levels table

environmental temperature: 25°C

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	----	----	----	----
99	251	254	53405	282.1
95	240	252	51217	270.4
90	227	250	48618	254.6
85	214	248	45971	239.3
80	200	245	43125	223.3
75	187	243	40478	208.3
70	174	240	37806	193.9
65	161	237	35112	179.0
60	148	234	32401	164.2
55	135	231	29662	149.4
50	122	227	26907	135.1
45	110	223	24343	121.7
40	97	219	21542	107.6
35	85	214	18938	94.1
30	72	208	16095	80.2
25	60	201	13453	67.3
20	48	193	10790	54.4
15	36	182	8107	41.3
10	24	168	5405	28.4
5	12	142	2681	15.5
2	5	110	1083	8.0

Dimming levels table

environmental temperature: 60°C

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	51950	281.2
95	240	252	49283	266.1
90	227	250	46790	250.6
85	214	248	44248	235.6
80	200	245	41515	219.8
75	187	243	38975	205.0
70	174	240	36408	190.8
65	161	237	33819	176.1
60	148	234	31212	161.6
55	135	231	28578	147.0
50	122	227	25928	132.9
45	110	223	23461	119.7
40	97	219	20764	105.9
35	85	214	18256	92.6
30	72	208	15518	78.8
25	60	201	12972	66.2
20	48	193	10407	53.5
15	36	182	7820	40.7
10	24	168	5214	27.9
5	12	142	2587	15.3
2	5	110	1044	7.9

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Luminousfluxs table	siteco
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Temperature °C	Luminous flux lm	Power consumption W
25.0	54000.0	285.7
60.0	51950.0	281.2