

Photometric test report

Family
Highbay 11 Xtreme

Order number: 51HF81DB4WMA
EAN: 4058352919958

LP number
59307_17



Version narrow distribution, toughened safety glass, chain suspension

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 76000 lm
Power consumption = 422.2 W
Luminous efficacy = 180 lm/W

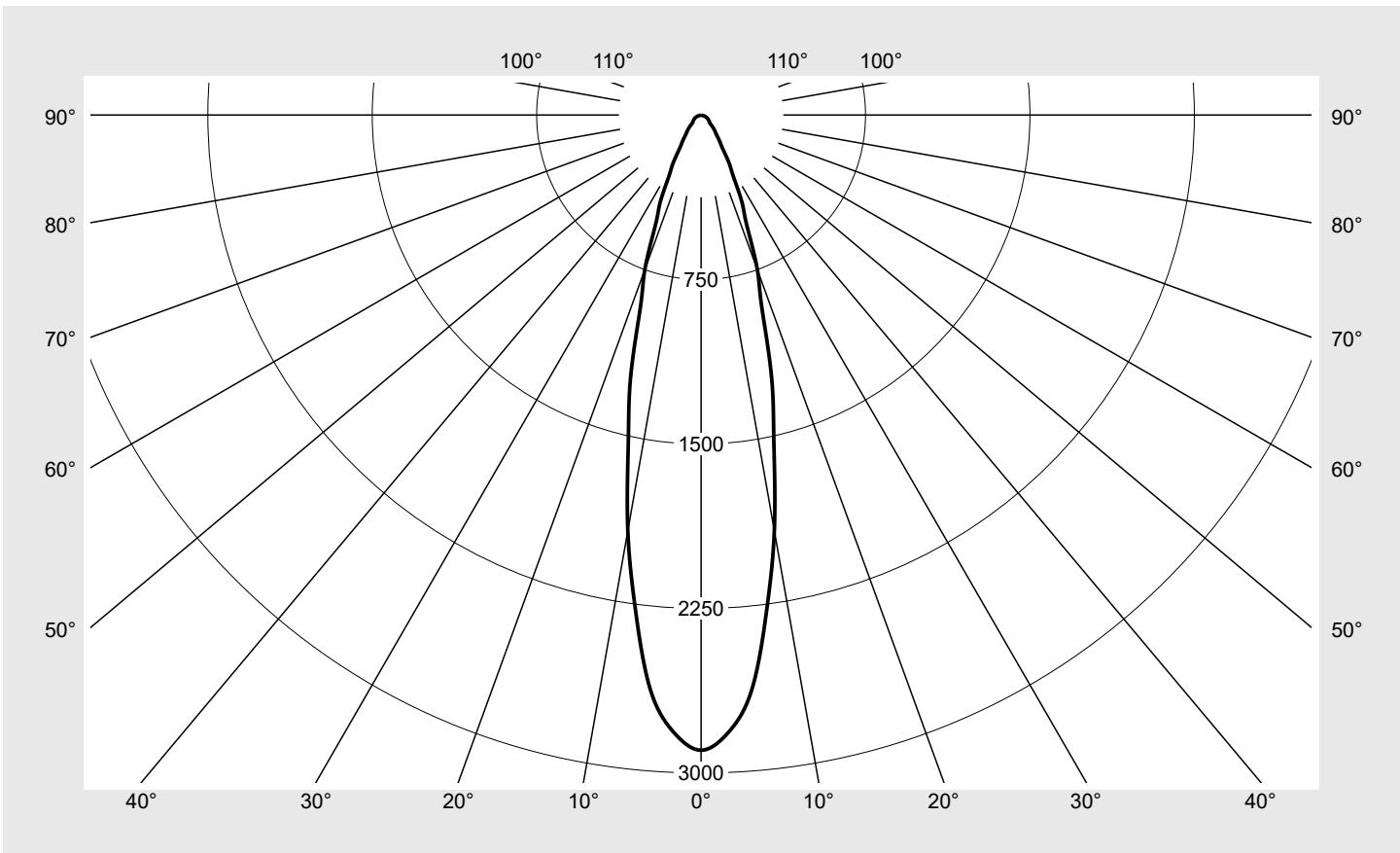
serial
documentation
19.10.2023

sITeco

Luminous intensity in cd/klm

C180-0

Imax: 2896 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=88 N2=96 N3=99
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
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C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0,0°	2896.3	4.3	4.3
2,5°	2819.4	33.7	38.0
5,0°	2635.7	63.0	101.0
7,5°	2284.5	81.7	182.8
10,0°	1924.6	91.6	274.4
12,5°	1534.7	91.1	365.4
15,0°	1244.7	88.3	453.7
17,5°	921.9	76.0	529.7
20,0°	750.6	70.4	600.1
22,5°	545.9	57.3	657.4
25,0°	444.2	51.5	708.8
27,5°	324.2	41.0	749.9
30,0°	259.7	35.6	785.5
32,5°	186.5	27.5	812.9
35,0°	150.0	23.6	836.5
37,5°	119.7	20.0	856.5
40,0°	101.4	17.9	874.3
42,5°	86.4	16.0	890.3
45,0°	69.3	13.4	903.8
47,5°	53.2	10.7	914.5
50,0°	50.3	10.6	925.1
52,5°	46.2	10.0	935.1
55,0°	42.5	9.5	944.7
57,5°	39.0	9.0	953.7
60,0°	36.5	8.7	962.4
62,5°	32.1	7.8	970.2
65,0°	28.9	7.2	977.4
67,5°	23.8	6.0	983.4
70,0°	20.2	5.2	988.6
72,5°	15.0	3.9	992.5
75,0°	11.9	3.1	995.6
77,5°	7.9	2.1	997.8
80,0°	5.0	1.4	999.1
82,5°	2.2	0.6	999.7
85,0°	0.8	0.2	999.9
87,5°	0.3	0.1	1000.0
90,0°	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	23.3	22.5	23.6	23.9	22.1	23.3	22.5	23.6	23.9
	3H	23.2	24.2	23.6	24.5	24.9	23.2	24.2	23.6	24.5	24.9
	4H	23.5	24.4	23.9	24.8	25.1	23.5	24.4	23.9	24.8	25.1
	6H	23.6	24.4	24.0	24.8	25.2	23.6	24.4	24.0	24.8	25.2
	8H	23.7	24.4	24.1	24.8	25.2	23.7	24.4	24.1	24.8	25.2
	12H	23.7	24.3	24.1	24.7	25.1	23.7	24.3	24.1	24.7	25.1
4H	2H	22.6	23.5	23.0	23.9	24.2	22.6	23.5	23.0	23.9	24.2
	3H	23.8	24.5	24.2	24.9	25.3	23.8	24.5	24.2	24.9	25.3
	4H	24.1	24.8	24.6	25.2	25.7	24.1	24.8	24.6	25.2	25.7
	6H	24.3	24.9	24.8	25.3	25.8	24.3	24.9	24.8	25.3	25.8
	8H	24.3	24.8	24.8	25.3	25.8	24.3	24.8	24.8	25.3	25.8
	12H	24.3	24.7	24.8	25.2	25.7	24.3	24.7	24.8	25.2	25.7
8H	4H	24.3	24.8	24.7	25.2	25.7	24.3	24.8	24.7	25.2	25.7
	6H	24.5	24.9	25.0	25.3	25.9	24.5	24.9	25.0	25.3	25.9
	8H	24.4	24.8	24.9	25.3	25.8	24.4	24.8	24.9	25.3	25.8
	12H	24.4	24.7	24.9	25.2	25.8	24.4	24.7	24.9	25.2	25.8
12H	4H	24.2	24.7	24.7	25.1	25.6	24.2	24.7	24.7	25.1	25.6
	6H	24.4	24.8	24.9	25.3	25.8	24.4	24.8	24.9	25.3	25.8
	8H	24.4	24.7	24.9	25.2	25.8	24.4	24.7	24.9	25.2	25.8

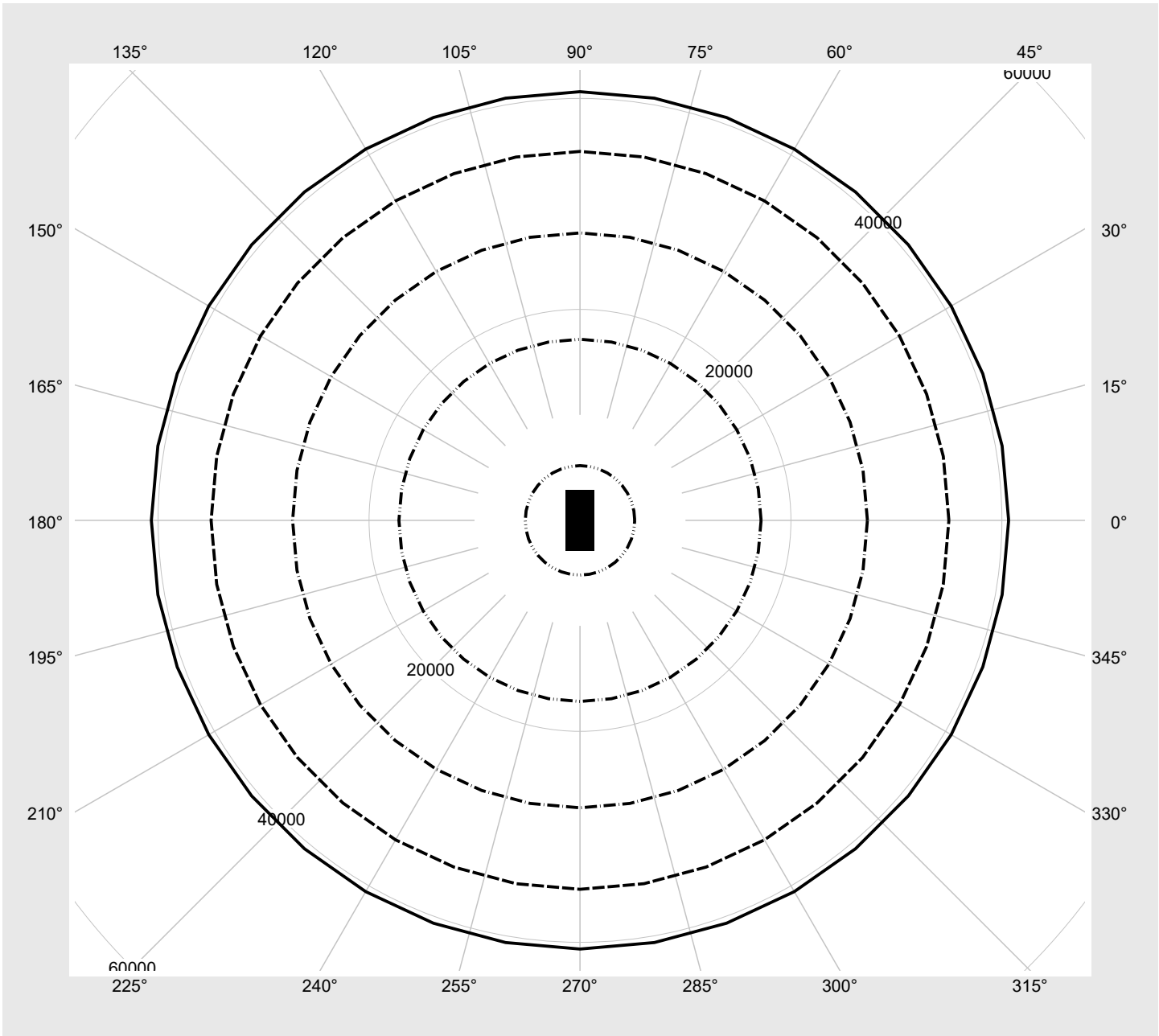
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 545 B = 235
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C-planes	0°
γ	Luminance in cd/m ²
45,0°	58184.9
50,0°	46413.3
55,0°	43984.5
60,0°	43338.5
65,0°	40639.1
70,0°	34974.0
75,0°	27249.1
80,0°	17168.4
85,0°	5188.1

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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	76000	422.2
95	240	252	72184	397.9
90	226	250	68301	372.7
85	213	248	64670	350.5
80	199	245	60719	326.8
75	186	243	57050	304.2
70	173	240	53315	282.8
65	159	237	49258	259.5
60	146	234	45457	237.4
55	134	231	41922	217.8
50	121	227	38062	196.5
45	108	223	34137	175.9
40	96	218	30495	156.6
35	84	213	26772	137.6
30	71	207	22773	116.6
25	59	201	19012	97.0
20	47	192	15213	77.7
15	35	181	11372	58.9
10	23	166	7491	40.3
5	12	142	3895	23.2
2	4	102	1262	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	74320	418.5
95	240	252	70599	394.3
90	226	250	66814	369.4
85	213	248	63269	347.3
80	199	245	59412	323.9
75	186	243	55831	301.5
70	172	240	51903	278.8
65	159	237	48217	257.1
60	146	234	44501	235.2
55	133	230	40756	214.2
50	121	227	37270	194.7
45	108	223	33432	174.3
40	96	218	29868	155.2
35	83	213	25873	135.3
30	71	207	22310	115.5
25	59	201	18627	96.1
20	47	192	14906	77.0
15	35	181	11145	58.3
10	23	166	7342	39.9
5	12	142	3818	23.0
2	4	102	1237	10.9

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Luminousfluxs table	siteco
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Temperature °C	Luminous flux lm	Power consumption W
25.0	76000.0	422.2
45.0	74320.0	418.5