

Photometric test report

Family
Highbay 21

Order number: 51HLA1D24MCB
EAN: 4058352417898

LP number
58918_15



Version narrow distribution, UGR≤22
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 26940 lm
 Power consumption = 171.1 W
 Luminous efficacy = 157.5 lm/W

serial
documentation
01.07.2020

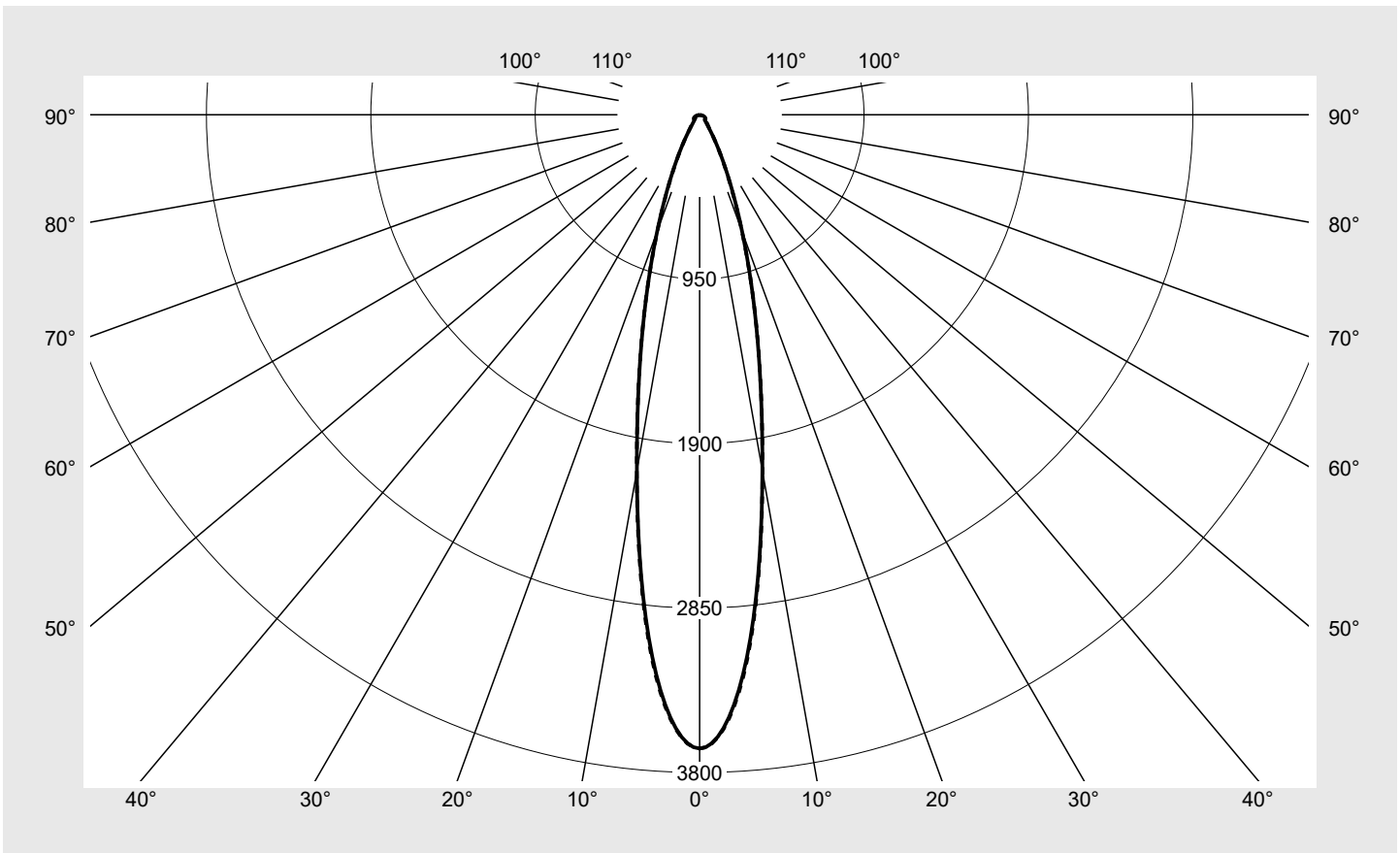
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 3662 cd/klm



Classifications

DIN 5040 A 7 0
 CIE N1=88 N2=95 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
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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°	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	21.9	21.9
5°	3142.6	3138.8	3148.7	3152.8	3150.8	3162.1	3157.3	150.5	172.4
10°	2088.2	2082.4	2095.8	2102.6	2097.1	2098.1	2092.4	199.3	371.8
15°	1265.5	1263.0	1272.3	1276.0	1271.9	1272.7	1269.2	180.2	552.0
20°	717.4	718.4	730.4	738.2	732.8	722.5	712.3	136.1	688.1
25°	380.2	383.6	397.1	405.5	395.8	382.2	373.9	90.4	778.5
30°	189.9	192.8	203.8	209.2	205.7	196.2	189.8	54.7	833.2
35°	93.4	93.2	98.1	106.1	108.6	103.6	99.4	31.8	865.0
40°	56.8	57.1	60.0	67.1	71.1	71.1	70.3	22.9	887.9
45°	41.2	40.8	44.9	50.9	50.2	47.6	46.5	18.0	905.9
50°	41.3	41.9	46.2	48.9	40.8	33.1	32.5	17.3	923.2
55°	41.3	42.1	45.2	43.2	36.0	29.8	29.9	17.4	940.6
60°	39.0	39.2	40.5	39.6	33.4	27.4	27.5	16.9	957.4
65°	33.8	33.6	34.5	34.8	29.3	24.3	24.5	15.4	972.8
70°	26.5	26.3	27.0	27.6	23.9	20.0	20.0	12.7	985.5
75°	15.9	16.7	18.0	19.3	17.3	15.5	15.6	9.0	994.6
80°	6.4	6.9	7.9	9.2	9.9	9.6	10.9	4.7	999.3
85°	0.5	0.5	0.6	1.0	1.8	2.4	3.4	0.7	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	16.6	17.7	16.9	18.0	18.3	15.3	16.5	15.7	16.8	17.1
	3H	18.5	19.4	18.9	19.8	20.1	16.9	17.9	17.3	18.2	18.6
	4H	19.0	19.9	19.4	20.3	20.7	17.6	18.5	18.0	18.9	19.3
	6H	19.3	20.1	19.7	20.5	20.9	18.3	19.1	18.7	19.5	19.9
	8H	19.4	20.1	19.8	20.4	20.8	18.6	19.3	19.0	19.7	20.1
	12H	19.3	20.0	19.7	20.4	20.8	18.7	19.3	19.1	19.7	20.1
4H	2H	17.4	18.3	17.8	18.6	19.0	16.5	17.4	16.9	17.8	18.1
	3H	19.4	20.1	19.8	20.5	20.9	18.2	19.0	18.6	19.4	19.8
	4H	20.0	20.7	20.5	21.1	21.6	19.0	19.7	19.4	20.1	20.5
	6H	20.3	20.9	20.8	21.3	21.8	19.7	20.3	20.1	20.7	21.2
	8H	20.4	20.9	20.8	21.3	21.8	19.9	20.4	20.4	20.9	21.4
	12H	20.3	20.8	20.8	21.2	21.7	20.0	20.4	20.5	20.9	21.4
8H	4H	20.3	20.8	20.8	21.3	21.8	19.5	20.0	19.9	20.4	20.9
	6H	20.7	21.1	21.2	21.6	22.1	20.3	20.6	20.8	21.1	21.6
	8H	20.7	21.1	21.2	21.6	22.1	20.5	20.8	21.0	21.3	21.8
	12H	20.6	21.0	21.2	21.5	22.0	20.5	20.8	21.1	21.4	21.9
12H	4H	20.3	20.8	20.8	21.2	21.7	19.5	19.9	19.9	20.4	20.9
	6H	20.7	21.1	21.2	21.5	22.1	20.2	20.6	20.7	21.1	21.6
	8H	20.7	21.0	21.2	21.5	22.1	20.5	20.8	21.0	21.3	21.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 600 B = 320
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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°		8168.6	8089.3	8916.1	10099.2	9964.5	9447.9	9226.1	
50°		9024.4	9154.3	10076.6	10677.3	8899.8	7231.6	7092.8	
55°		10111.2	10297.3	11064.7	10557.6	8798.0	7285.5	7324.9	
60°		10948.0	10999.7	11354.1	11118.4	9379.9	7689.7	7723.6	
65°		11213.6	11144.5	11439.0	11554.9	9743.1	8076.8	8144.8	
70°		10859.6	10774.7	11061.5	11338.0	9800.0	8218.9	8221.7	
75°		8611.1	9035.6	9736.6	10470.6	9385.3	8407.8	8456.1	
80°		5202.1	5551.1	6373.7	7440.3	8007.6	7770.0	8798.6	
85°		742.2	747.0	1020.7	1640.5	2915.5	3810.6	5522.0	

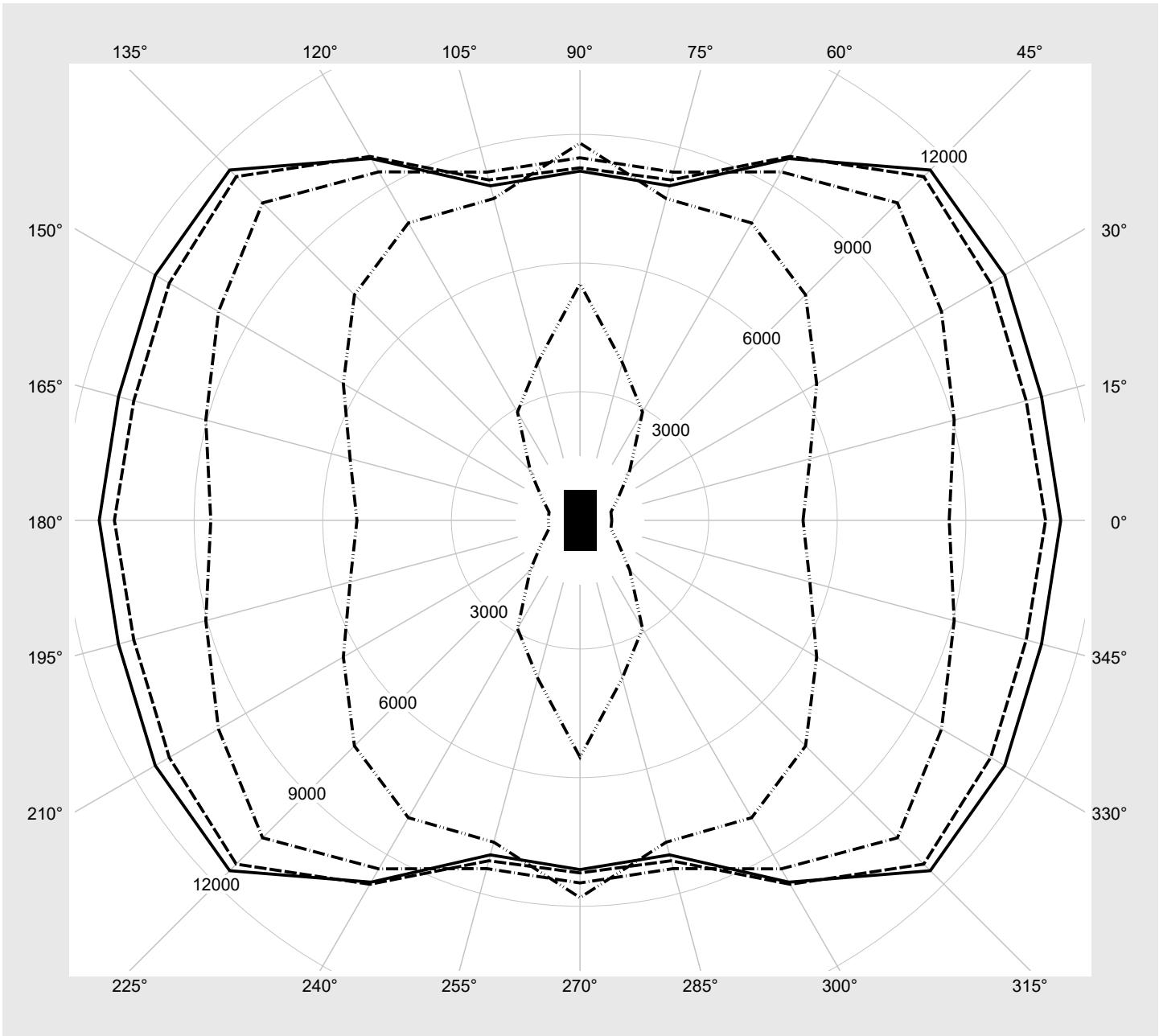
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26940	171.1
95	240	252	25583	161.2
90	227	250	24289	152.0
85	213	248	22897	142.3
80	200	245	21588	133.3
75	186	243	20166	123.5
70	173	240	18825	114.7
65	160	237	17476	105.7
60	148	234	16208	97.5
55	135	231	14830	88.6
50	122	227	13438	79.9
45	110	223	12139	71.8
40	97	219	10725	63.2
35	85	214	9410	55.1
30	73	208	8082	47.2
25	61	202	6745	39.4
20	49	194	5395	31.5
15	37	183	4035	23.7
10	25	169	2664	16.0
5	14	148	1398	8.9
1	5	110	355	3.2