

Photometric test report

Family
Highbay 11

Order number: 51HLA2D24NLA
EAN: 4058352361481

LP number
58922_19



Version wide distribution, UGR≤22
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 33150 lm
Power consumption = 189.6 W
Luminous efficacy = 174.8 lm/W

serial
documentation
31.03.2020

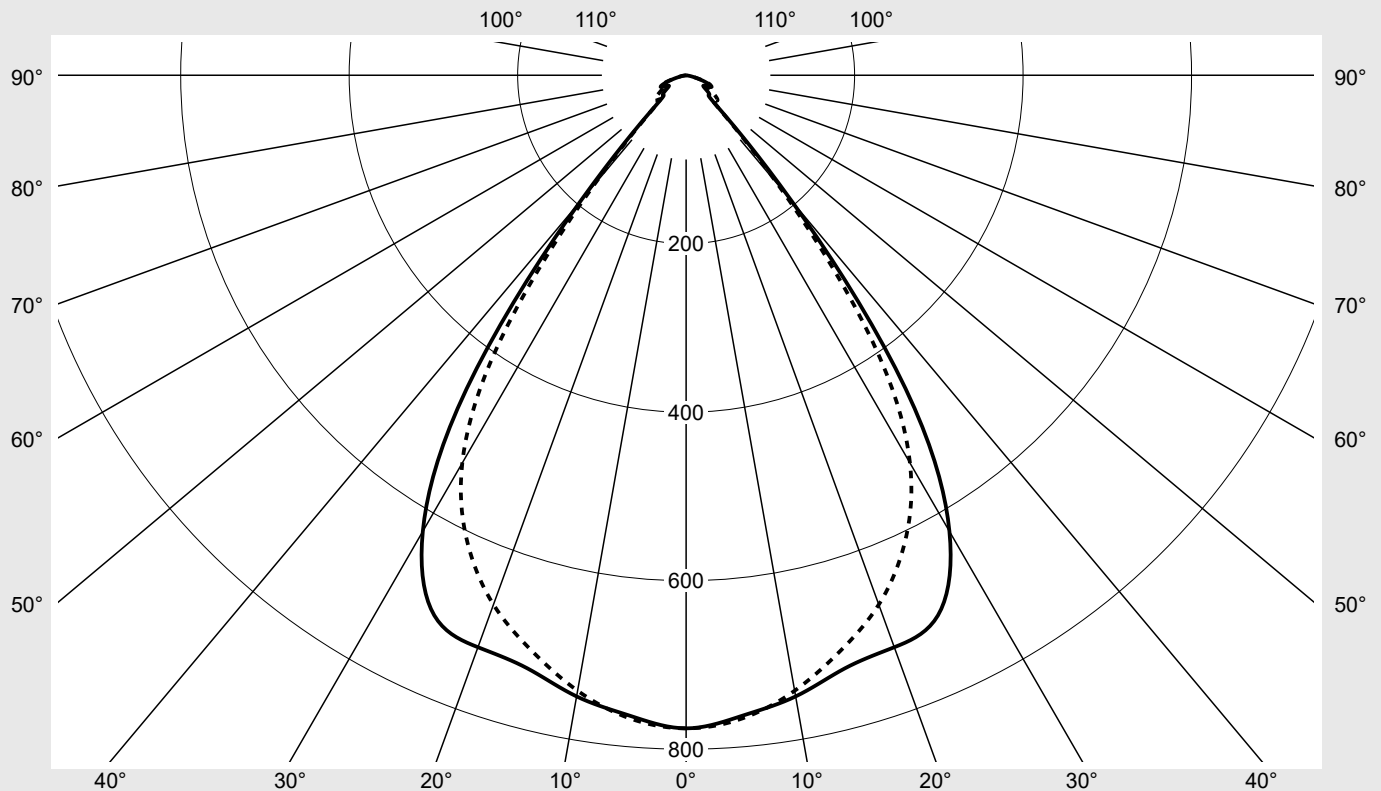
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 775 cd/klm



Classifications

DIN 5040 A 6 0
CIE N1=89 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
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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°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	4.6	4.6
5°	763.3	765.5	767.8	768.1	766.5	768.2	766.4	36.6	41.3
10°	748.7	752.6	756.7	755.9	749.0	745.7	741.9	71.5	112.7
15°	728.8	736.6	748.6	748.7	732.9	716.3	707.4	104.1	216.8
20°	722.5	731.1	745.9	741.9	711.6	682.4	668.7	134.6	351.4
25°	707.4	710.1	723.4	713.1	669.4	627.0	613.5	158.4	509.9
30°	625.1	622.7	643.6	650.9	594.8	541.3	531.4	165.9	675.7
35°	454.3	465.0	515.3	546.7	478.1	404.7	385.8	148.3	824.0
40°	194.7	222.6	276.1	324.0	261.7	198.8	171.4	86.1	910.1
45°	52.4	51.4	56.0	64.9	54.8	51.5	51.3	21.3	931.5
50°	36.0	31.0	27.7	34.1	33.7	39.2	46.8	14.5	946.0
55°	27.7	25.7	21.5	23.0	24.8	33.2	42.0	12.2	958.2
60°	24.8	27.6	25.1	19.0	18.2	24.5	32.6	11.3	969.5
65°	33.0	23.0	22.5	18.8	16.0	23.0	31.5	11.2	980.7
70°	25.9	19.0	18.9	17.8	15.3	19.4	28.1	10.1	990.8
75°	12.6	8.9	10.2	12.8	12.0	13.0	13.0	6.1	996.9
80°	3.5	3.2	4.0	5.1	6.3	6.1	5.9	2.6	999.6
85°	0.3	0.3	0.4	0.5	1.1	1.3	1.4	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	20.9	22.2	21.2	22.5	22.8	20.4	21.7	20.7	22.0	22.3
	3H	21.3	22.4	21.7	22.8	23.1	20.9	22.0	21.3	22.4	22.7
	4H	21.4	22.5	21.8	22.8	23.2	21.1	22.2	21.5	22.5	22.9
	6H	21.4	22.4	21.8	22.7	23.1	21.2	22.1	21.6	22.5	22.9
	8H	21.5	22.3	21.9	22.7	23.1	21.3	22.1	21.7	22.5	22.9
	12H	21.5	22.2	21.9	22.6	23.0	21.3	22.0	21.7	22.4	22.8
4H	2H	20.8	21.8	21.2	22.2	22.6	20.3	21.3	20.7	21.7	22.1
	3H	21.4	22.2	21.8	22.6	23.0	20.9	21.8	21.3	22.2	22.6
	4H	21.5	22.3	22.0	22.7	23.1	21.2	22.0	21.7	22.4	22.8
	6H	21.5	22.2	22.0	22.6	23.1	21.4	22.0	21.8	22.5	22.9
	8H	21.5	22.1	22.0	22.5	23.0	21.4	22.0	21.9	22.4	22.9
	12H	21.5	22.0	22.0	22.4	22.9	21.4	21.9	21.9	22.4	22.9
8H	4H	21.5	22.1	22.0	22.6	23.0	21.3	21.9	21.7	22.3	22.8
	6H	21.5	22.0	22.0	22.5	23.0	21.5	21.9	22.0	22.4	22.9
	8H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
	12H	21.5	21.8	22.0	22.3	22.9	21.5	21.8	22.0	22.3	22.9
12H	4H	21.5	22.0	22.0	22.5	23.0	21.3	21.8	21.8	22.2	22.7
	6H	21.6	21.9	22.1	22.4	23.0	21.5	21.8	22.0	22.3	22.9
	8H	21.5	21.8	22.0	22.3	22.9	21.5	21.8	22.0	22.3	22.9

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°		12788.3	12555.4	13674.9	15837.8	13386.5	12583.2	12517.3	
50°		9670.1	8335.4	7453.3	9168.0	9059.8	10524.0	12557.8	
55°		8332.8	7732.2	6468.0	6938.1	7453.8	9986.2	12642.4	
60°		8562.7	9546.9	8665.3	6573.7	6278.8	8466.4	11248.6	
65°		13488.7	9379.2	9201.1	7693.6	6519.9	9382.1	12881.3	
70°		13093.3	9575.8	9552.1	8998.3	7734.7	9813.6	14181.2	
75°		8392.0	5903.8	6787.0	8542.8	8002.4	8659.5	8678.9	
80°		3480.0	3222.5	4005.0	5064.9	6281.9	6024.4	5858.3	
85°		610.2	600.2	703.3	1024.2	2191.0	2541.6	2787.3	

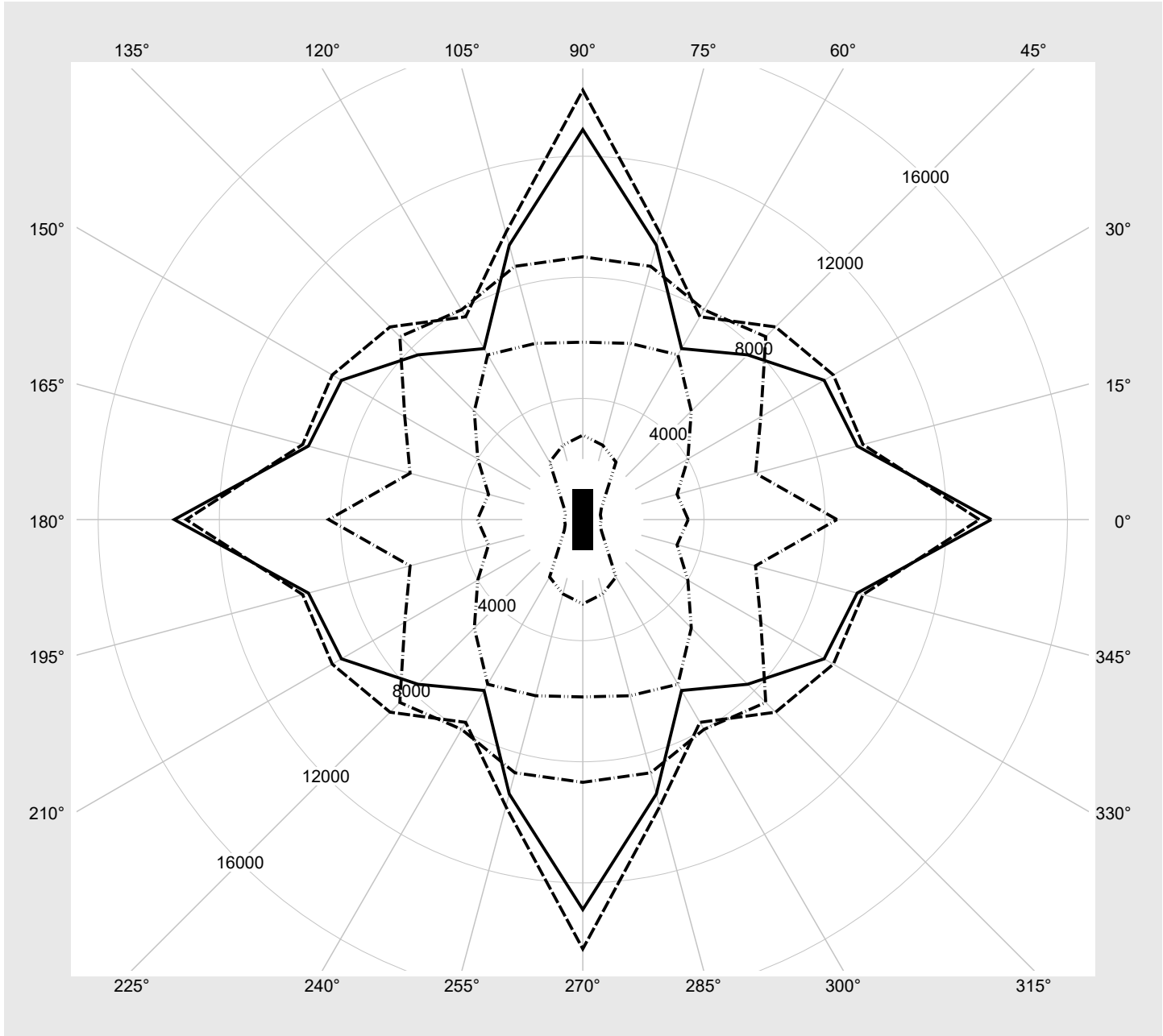
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Luminance values in cd/m²

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	33150	189.6
95	240	252	31450	179.0
90	227	250	29852	169.1
85	213	248	28120	158.4
80	200	245	26494	148.5
75	187	243	24852	139.0
70	174	240	23201	129.3
65	161	237	21532	119.8
60	148	234	19854	110.4
55	136	231	18281	101.5
50	123	227	16574	92.0
45	110	223	14851	82.7
40	98	219	13249	74.2
35	86	214	11634	65.5
30	74	209	10004	57.1
25	61	202	8229	48.1
20	49	194	6577	39.5
15	37	183	4914	31.2
10	26	171	3371	23.3
5	14	148	1683	14.9
1	4	102	268	7.9