

Photometric test report

Family
Highbay 11

Order number: 51HLA2D34SCA
EAN: 4058352474860

LP number
58922_28



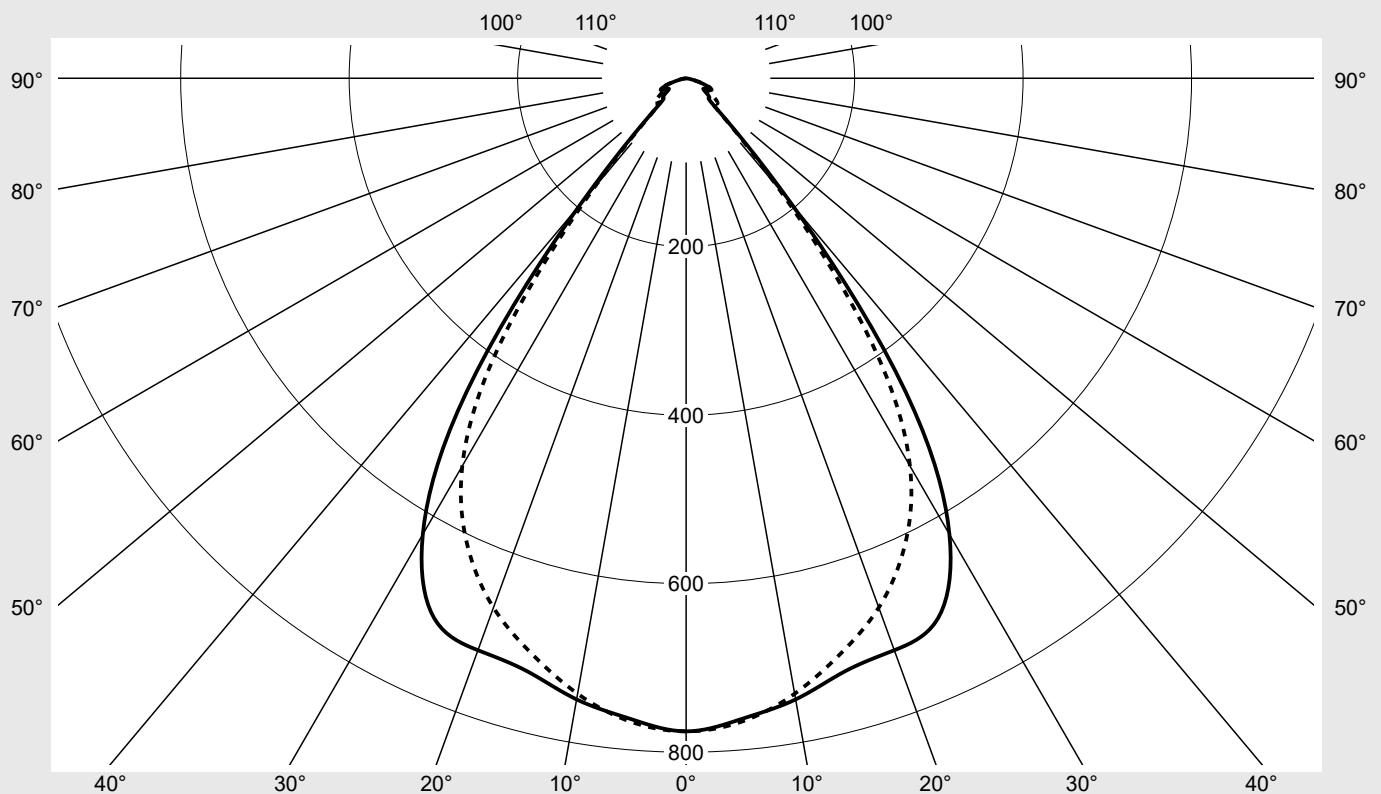
Version wide distribution, UGR≤22
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 49690 lm
 Power consumption = 284.2 W
 Luminous efficacy = 174.8 lm/W

serial
documentation
04.05.2021

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	21.6	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	22.1	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	21.3	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 = 900 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°		12779.3	12546.5	13665.3	15826.6	13377.1	12574.3	12508.5	
50°		9663.3	8329.5	7448.0	9161.6	9053.4	10516.6	12549.0	
55°		8326.9	7726.8	6463.4	6933.3	7448.5	9979.2	12633.5	
60°		8556.7	9540.1	8659.2	6569.1	6274.4	8460.4	11240.6	
65°		13479.3	9372.6	9194.7	7688.2	6515.3	9375.5	12872.2	
70°		13084.1	9569.1	9545.4	8992.0	7729.3	9806.7	14171.2	
75°		8386.1	5899.6	6782.2	8536.8	7996.8	8653.4	8672.8	
80°		3477.6	3220.2	4002.2	5061.3	6277.5	6020.1	5854.2	
85°		609.7	599.8	702.8	1023.5	2189.5	2539.8	2785.3	

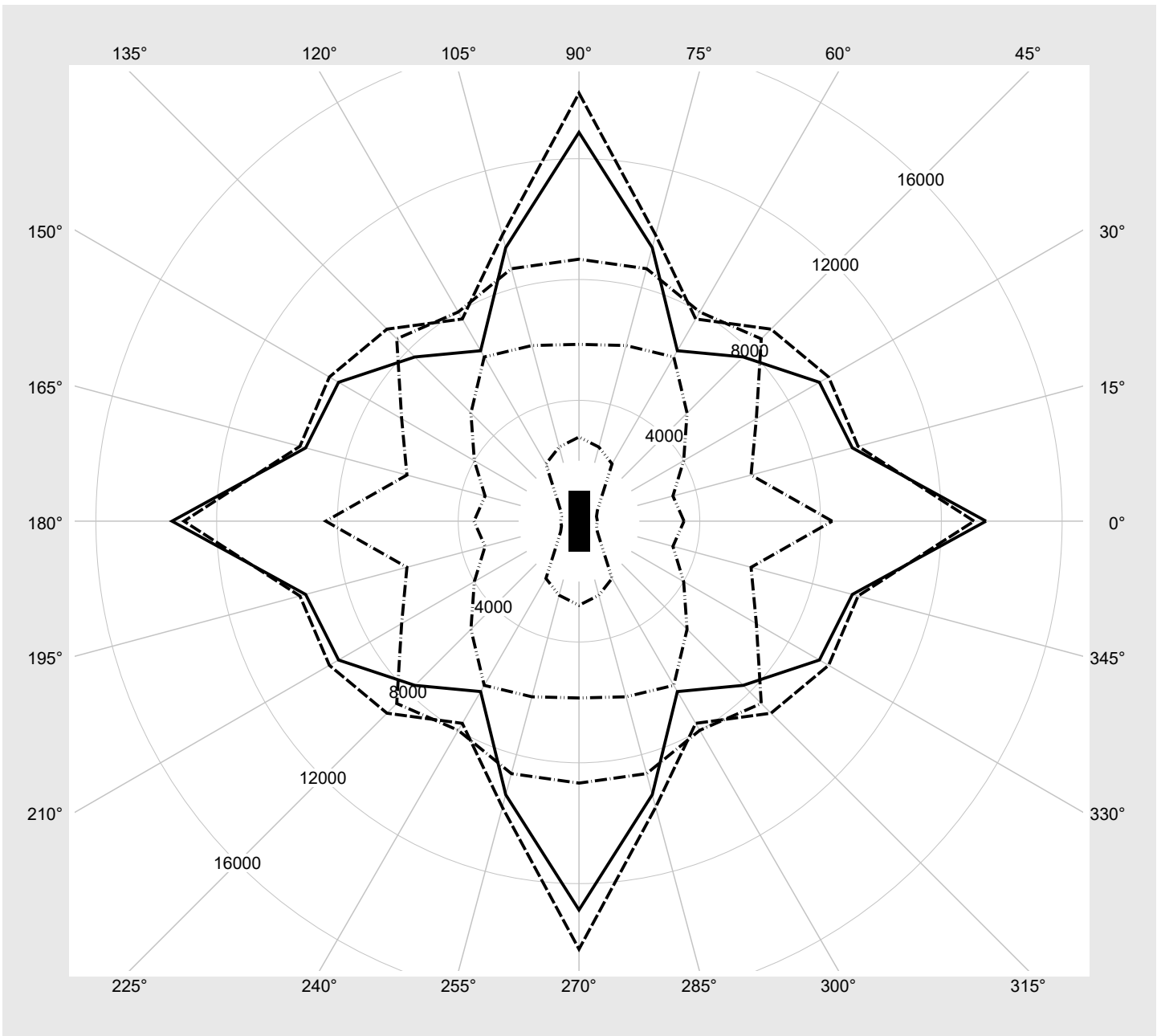
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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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	49690	284.2
95	240	252	47142	268.2
90	227	250	44746	253.5
85	213	248	42149	237.5
80	200	245	39712	222.6
75	187	243	37251	208.3
70	174	240	34776	193.8
65	161	237	32274	179.6
60	148	234	29759	165.4
55	136	231	27401	152.1
50	123	227	24842	138.1
45	111	224	22459	125.0
40	98	219	19858	111.2
35	86	214	17437	98.2
30	74	209	14994	85.6
25	61	202	12334	72.1
20	49	194	9858	59.3
15	37	183	7365	46.7
10	26	171	5052	35.0
5	14	148	2522	22.4
1	4	102	401	11.9