

Photometric test report

Family
Highbay 11

Order number: 51HLASD24MGA
EAN: 4058352367421

LP number
58922_17



Version wide distribution, UGR≤22
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 28800 lm
Power consumption = 162.6 W
Luminous efficacy = 177.1 lm/W

serial
documentation
07.01.2020

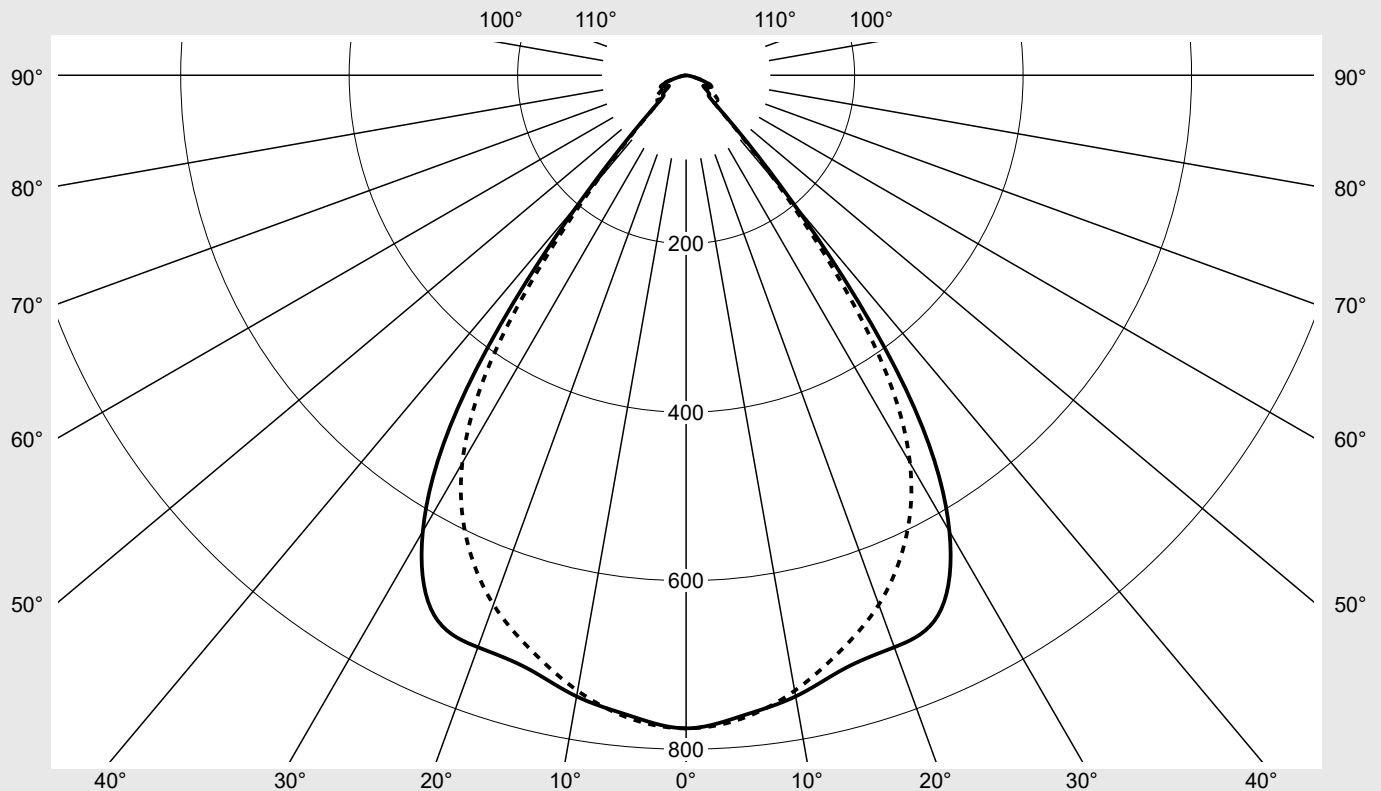
siteco

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	20.4	21.7	20.7	22.0	22.3	19.9	21.2	20.2	21.5	21.8
	3H	20.8	21.9	21.2	22.3	22.6	20.4	21.5	20.8	21.9	22.2
	4H	20.9	22.0	21.3	22.3	22.7	20.6	21.7	21.0	22.0	22.4
	6H	20.9	21.9	21.4	22.2	22.6	20.7	21.6	21.1	22.0	22.4
	8H	21.0	21.8	21.4	22.2	22.6	20.8	21.6	21.2	22.0	22.4
	12H	21.0	21.7	21.4	22.1	22.5	20.8	21.5	21.2	21.9	22.3
4H	2H	20.3	21.4	20.7	21.7	22.1	19.8	20.8	20.2	21.2	21.6
	3H	20.9	21.7	21.3	22.1	22.5	20.4	21.3	20.9	21.7	22.1
	4H	21.0	21.8	21.5	22.2	22.6	20.7	21.5	21.2	21.9	22.4
	6H	21.0	21.7	21.5	22.1	22.6	20.9	21.5	21.4	22.0	22.4
	8H	21.0	21.6	21.5	22.0	22.5	20.9	21.5	21.4	21.9	22.4
	12H	21.0	21.5	21.5	21.9	22.4	20.9	21.4	21.4	21.9	22.4
8H	4H	21.0	21.6	21.5	22.1	22.6	20.8	21.4	21.3	21.8	22.3
	6H	21.0	21.5	21.5	22.0	22.5	21.0	21.5	21.5	21.9	22.4
	8H	21.0	21.4	21.5	21.9	22.5	21.0	21.4	21.5	21.9	22.4
	12H	21.0	21.3	21.5	21.8	22.4	21.0	21.3	21.5	21.8	22.4
12H	4H	21.1	21.5	21.5	22.0	22.5	20.8	21.3	21.3	21.7	22.2
	6H	21.1	21.4	21.6	21.9	22.5	21.0	21.4	21.5	21.9	22.4
	8H	21.0	21.4	21.5	21.9	22.4	21.0	21.3	21.5	21.8	22.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 600 B = 320
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C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		11110.2	10907.8	11880.5	13759.5	11629.9	10932.0	10874.7
50°		8401.1	7241.6	6475.2	7965.0	7871.0	9143.0	10910.0
55°		7239.3	6717.6	5619.2	6027.7	6475.7	8675.8	10983.5
60°		7439.1	8294.1	7528.2	5711.1	5454.9	7355.4	9772.5
65°		11718.7	8148.5	7993.7	6684.0	5664.3	8151.0	11191.0
70°		11375.2	8319.2	8298.6	7817.5	6719.8	8525.8	12320.3
75°		7290.8	5129.1	5896.4	7421.8	6952.3	7523.2	7540.0
80°		3023.4	2799.6	3479.4	4400.3	5457.6	5233.9	5089.6
85°		530.1	521.5	611.0	889.8	1903.5	2208.1	2421.5

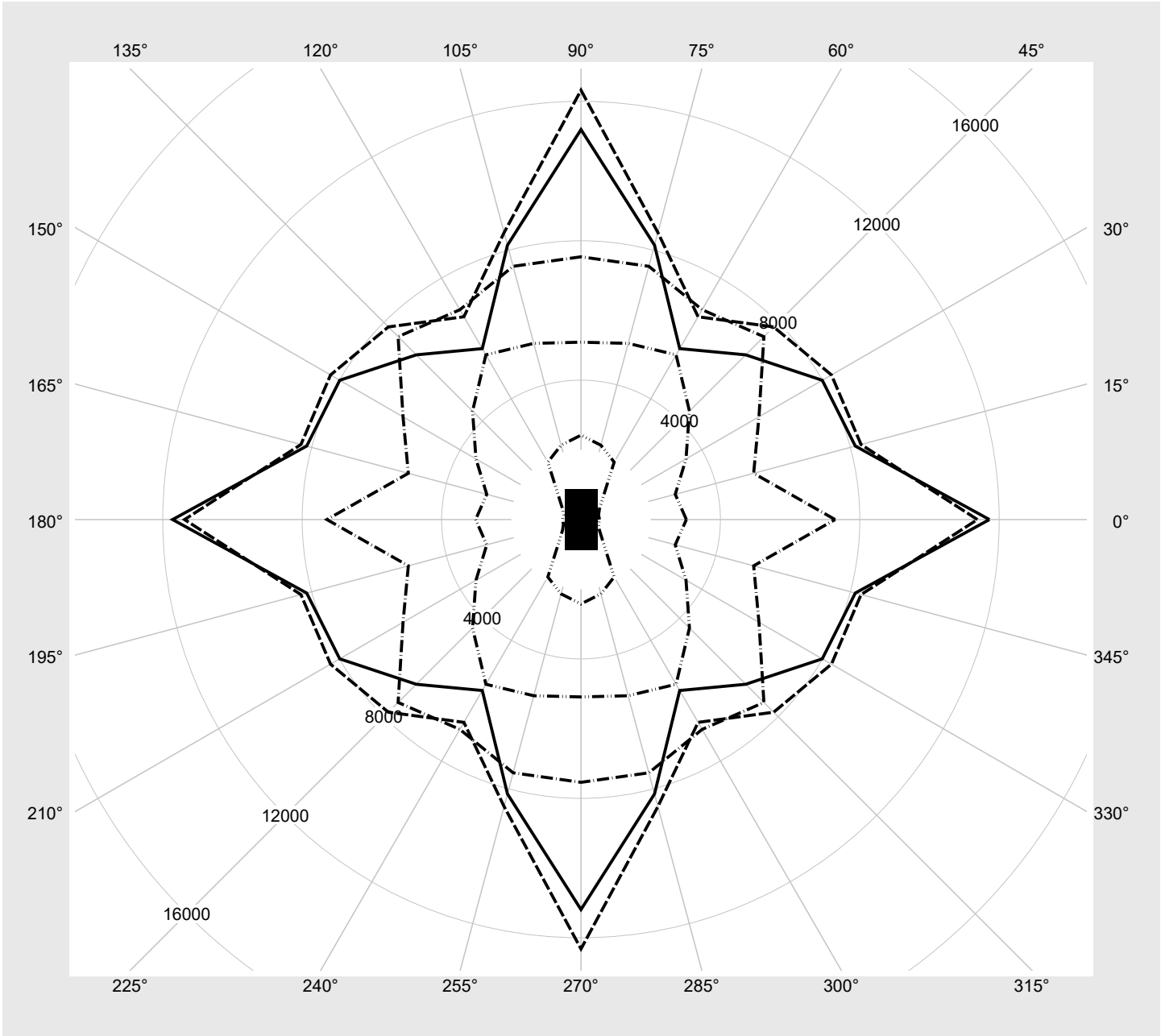
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Luminance values in cd/m²

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	28800	162.6
95	241	252	27407	154.2
90	227	250	25891	145.0
85	214	248	24480	136.7
80	201	245	23056	128.5
75	188	243	21622	120.3
70	175	240	20181	112.1
65	162	238	18715	103.8
60	149	234	17251	95.7
55	137	231	15890	88.4
50	124	228	14404	80.3
45	111	224	12910	72.4
40	99	219	11517	64.9
35	87	215	10116	57.7
30	74	209	8591	49.9
25	62	202	7175	42.5
20	50	194	5748	35.3
15	38	184	4313	28.1
10	26	171	2860	20.8
5	14	148	1406	13.5
1	5	110	310	8.2