

Photometric test report

Family
Highbay 21

Order number: 51HLASD24MGB
EAN: 4058352418031

LP number
58922_25



Version wide distribution, UGR≤22
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 27600 lm
 Power consumption = 171.1 W
 Luminous efficacy = 161.3 lm/W

serial
documentation
01.07.2020

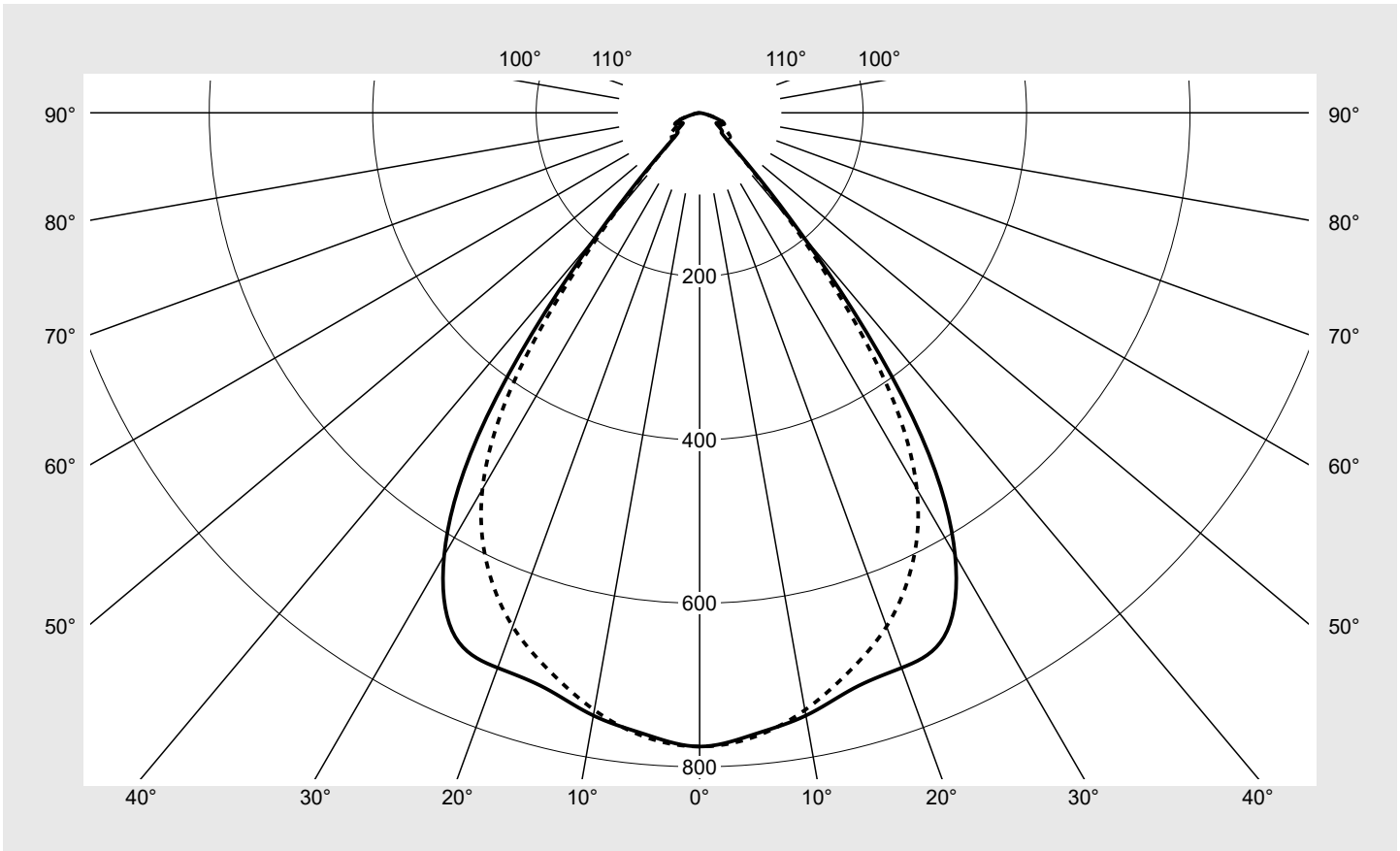
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Luminous intensity in cd/klm

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									
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	20.2	21.5	20.6	21.8	22.2	19.7	21.0	20.1	21.3	21.6
	3H	20.7	21.8	21.0	22.1	22.5	20.2	21.4	20.6	21.7	22.1
	4H	20.8	21.8	21.2	22.2	22.6	20.5	21.5	20.9	21.9	22.2
	6H	20.8	21.7	21.2	22.1	22.5	20.6	21.5	21.0	21.9	22.3
	8H	20.9	21.7	21.3	22.0	22.4	20.6	21.5	21.1	21.8	22.2
	12H	20.8	21.6	21.3	22.0	22.4	20.6	21.4	21.1	21.8	22.2
4H	2H	20.2	21.2	20.6	21.6	21.9	19.7	20.7	20.1	21.1	21.4
	3H	20.7	21.6	21.1	22.0	22.4	20.3	21.1	20.7	21.5	22.0
	4H	20.9	21.6	21.3	22.1	22.5	20.6	21.4	21.0	21.8	22.2
	6H	20.9	21.5	21.4	22.0	22.4	20.7	21.4	21.2	21.8	22.3
	8H	20.9	21.4	21.3	21.9	22.4	20.8	21.3	21.2	21.8	22.3
	12H	20.9	21.3	21.4	21.8	22.3	20.8	21.3	21.3	21.7	22.2
8H	4H	20.9	21.5	21.4	21.9	22.4	20.6	21.2	21.1	21.7	22.2
	6H	20.9	21.4	21.4	21.9	22.4	20.8	21.3	21.3	21.8	22.3
	8H	20.9	21.3	21.4	21.8	22.3	20.8	21.3	21.4	21.8	22.3
	12H	20.9	21.2	21.4	21.7	22.2	20.9	21.2	21.4	21.7	22.2
12H	4H	20.9	21.4	21.4	21.8	22.3	20.7	21.1	21.1	21.6	22.1
	6H	20.9	21.3	21.4	21.8	22.3	20.8	21.2	21.4	21.7	22.2
	8H	20.9	21.2	21.4	21.7	22.3	20.9	21.2	21.4	21.7	22.2



Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 600 B = 320		
C-planes	γ	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	90°
		195°	195°	210°	225°	240°	255°	270°
		345°	345°	330°	315°	300°	285°	
Luminance in cd/m ²								
45°		10647.3	10453.3	11385.4	13186.2	11145.3	10476.5	10421.6
50°		8051.1	6939.9	6205.4	7633.1	7543.0	8762.0	10455.4
55°		6937.7	6437.7	5385.1	5776.6	6205.9	8314.3	10525.8
60°		7129.1	7948.5	7214.5	5473.1	5227.6	7048.9	9365.3
65°		11230.5	7809.0	7660.7	6405.5	5428.3	7811.3	10724.7
70°		10901.2	7972.6	7952.9	7491.8	6439.8	8170.6	11807.0
75°		6987.0	4915.4	5650.7	7112.5	6662.7	7209.7	7225.8
80°		2897.4	2683.0	3334.5	4216.9	5230.2	5015.8	4877.5
85°		508.0	499.8	585.5	852.7	1824.2	2116.1	2320.6

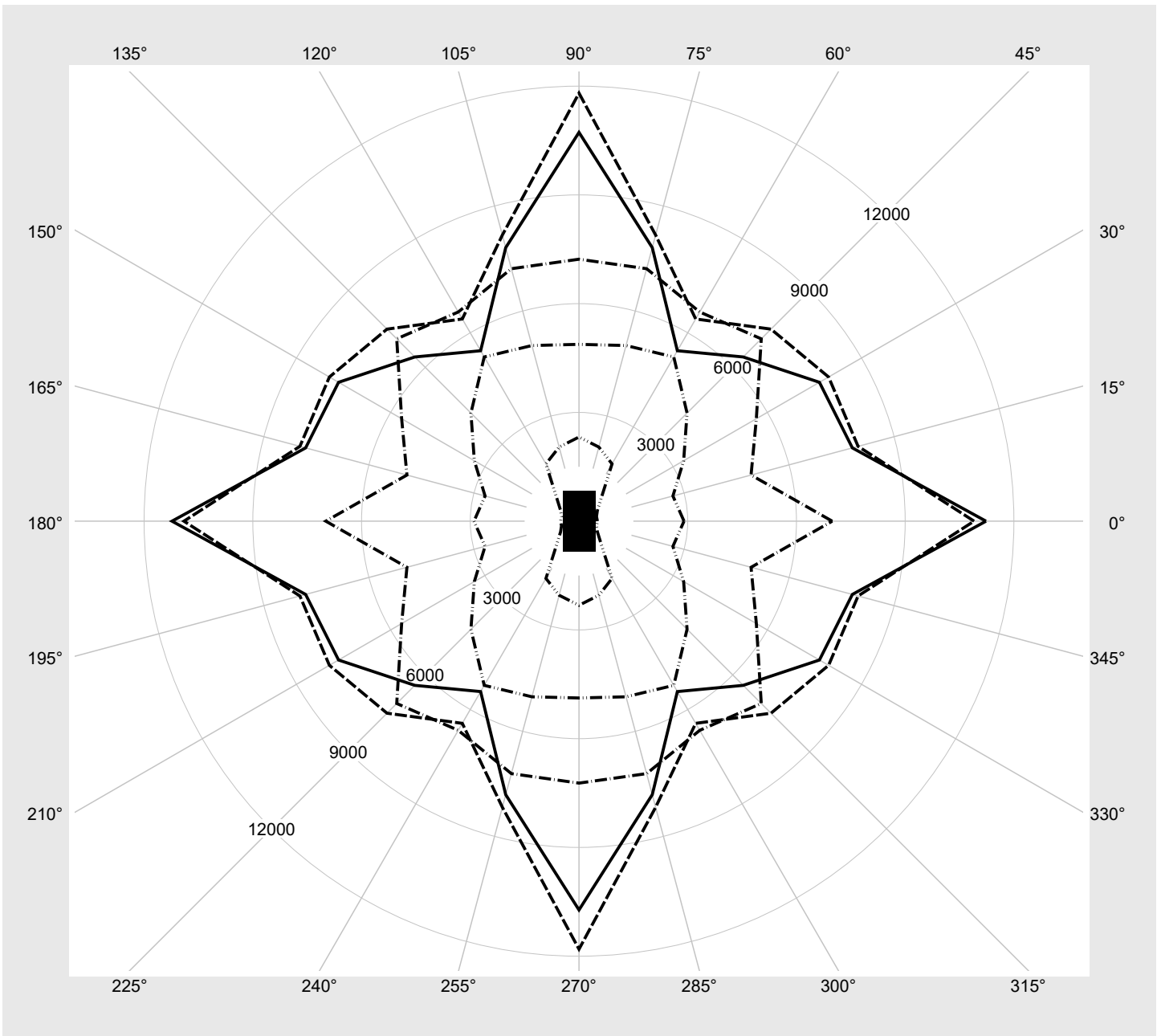
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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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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	27600	171.1
95	240	252	26209	161.3
90	227	250	24884	152.0
85	213	248	23458	142.3
80	200	245	22116	133.3
75	186	243	20660	123.5
70	173	240	19286	114.7
65	160	237	17904	105.8
60	148	234	16606	97.5
55	135	231	15194	88.7
50	122	227	13767	79.9
45	110	223	12436	71.8
40	97	219	10988	63.2
35	85	214	9641	55.2
30	73	208	8280	47.2
25	61	202	6911	39.4
20	49	194	5528	31.5
15	37	183	4134	23.7
10	25	169	2729	16.0
5	14	148	1432	8.9
1	5	110	364	3.2