

## Photometric test report

Family  
Highbay 11

Order number: 51HLA2D24MCAD  
EAN: 4058352341636

LP number  
58922\_27



Version	wide distribution, UGR≤22
Lamps	LED 4000 K   CRI ≥ 80
Controlgear	ECG-DALI
Setting	central accumulator DC – ECG emergency level 15%
Rated values	Net luminous flux = 4320 lm Power consumption = 28.2 W Luminous efficacy = 153.2 lm/W

serial  
documentation  
08.04.2021

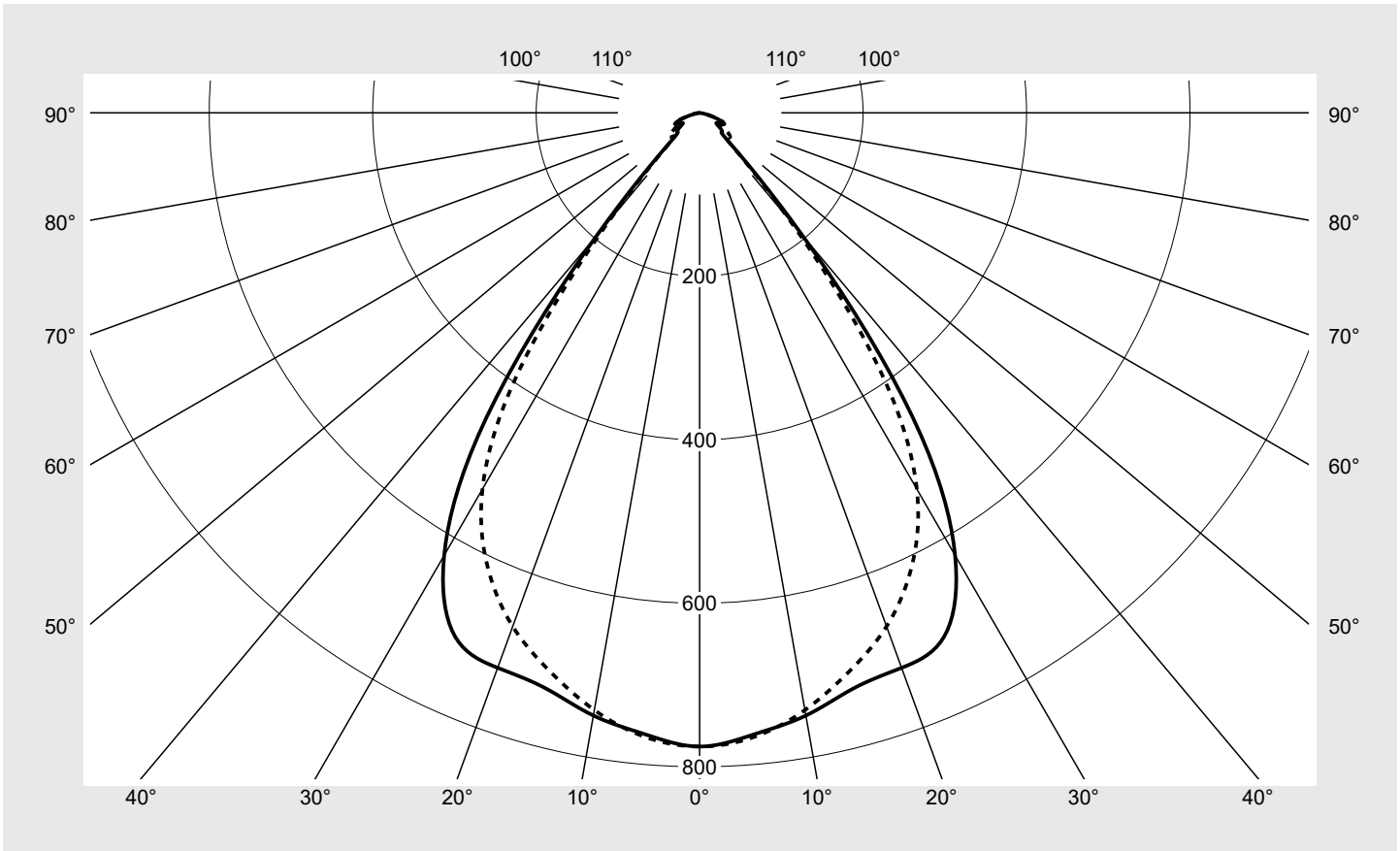
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Luminous intensity in cd/klm

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

$\eta_{LB}$  100.0%  
 $\phi_u$  100.0%  
 $\phi_o$  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 $\gamma$	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	13.8	15.1	14.2	15.4	15.7	13.3	14.6	13.6	14.9	15.2
	3H	14.2	15.3	14.6	15.7	16.0	13.8	14.9	14.2	15.3	15.6
	4H	14.3	15.4	14.7	15.7	16.1	14.0	15.1	14.4	15.4	15.8
	6H	14.4	15.3	14.8	15.7	16.1	14.1	15.1	14.5	15.4	15.8
	8H	14.4	15.2	14.8	15.6	16.0	14.2	15.0	14.6	15.4	15.8
	12H	14.4	15.1	14.8	15.5	15.9	14.2	14.9	14.6	15.3	15.7
4H	2H	13.7	14.8	14.1	15.1	15.5	13.2	14.3	13.6	14.6	15.0
	3H	14.3	15.1	14.7	15.5	15.9	13.8	14.7	14.3	15.1	15.5
	4H	14.4	15.2	14.9	15.6	16.0	14.1	14.9	14.6	15.3	15.8
	6H	14.4	15.1	14.9	15.5	16.0	14.3	15.0	14.8	15.4	15.9
	8H	14.4	15.0	14.9	15.4	15.9	14.3	14.9	14.8	15.3	15.8
	12H	14.4	14.9	14.9	15.4	15.9	14.3	14.8	14.8	15.3	15.8
8H	4H	14.4	15.0	14.9	15.5	16.0	14.2	14.8	14.7	15.2	15.7
	6H	14.5	14.9	15.0	15.4	15.9	14.4	14.9	14.9	15.3	15.8
	8H	14.4	14.8	14.9	15.3	15.9	14.4	14.8	14.9	15.3	15.8
	12H	14.4	14.7	14.9	15.2	15.8	14.4	14.8	15.0	15.3	15.8
12H	4H	14.5	14.9	15.0	15.4	15.9	14.2	14.7	14.7	15.1	15.6
	6H	14.5	14.9	15.0	15.3	15.9	14.4	14.8	14.9	15.3	15.8
	8H	14.4	14.8	15.0	15.3	15.8	14.4	14.7	14.9	15.2	15.8

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Luminance table		Max. for $\gamma \geq 65^\circ$								Photometric dimensions in mm:		L = 600 B = 320	
C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>											
		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°		1666.5	1636.2	1782.1	2063.9	1744.5	1639.8	1631.2					
50°		1260.2	1086.2	971.3	1194.7	1180.6	1371.4	1636.5					
55°		1085.9	1007.6	842.9	904.2	971.4	1301.4	1647.5					
60°		1115.9	1244.1	1129.2	856.7	818.2	1103.3	1465.9					
65°		1757.8	1222.3	1199.1	1002.6	849.6	1222.6	1678.6					
70°		1706.3	1247.9	1244.8	1172.6	1008.0	1278.9	1848.0					
75°		1093.6	769.4	884.5	1113.3	1042.9	1128.5	1131.0					
80°		453.5	419.9	521.9	660.0	818.6	785.1	763.4					
85°		79.5	78.2	91.6	133.5	285.5	331.2	363.2					

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**Luminance values in cd/m<sup>2</sup>**     γ 65°   γ 70°   γ 75°   γ 80°   γ 85°     **siteco**

