
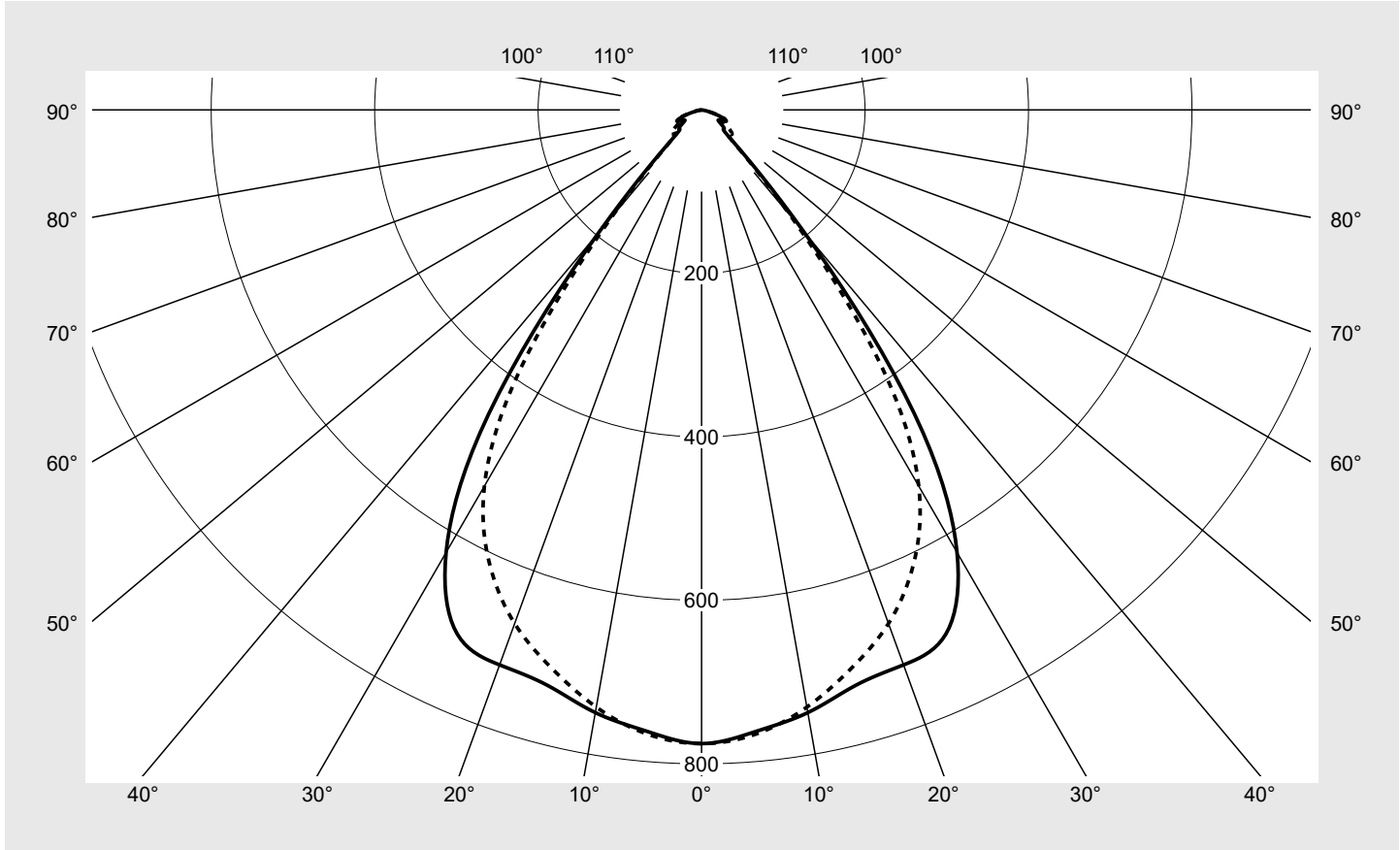


Photometric test report

Family Highbay 11	Order number: 51HLA2D14FCAD EAN: 4058352341629	LP number 58922_26
	Version wide distribution, UGR≤22 Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting central accumulator DC – ECG emergency level 15%	serial documentation 08.04.2021
	Rated values Net luminous flux = 2160 lm Power consumption = 14.0 W Luminous efficacy = 154.3 lm/W	

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	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

Luminance table		Max. for $\gamma \geq 65^\circ$								Photometric dimensions in mm:		L = 300 B = 320	
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°		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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Family
Highbay 11

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EAN: 4058352341629

LP number
58922_26

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

