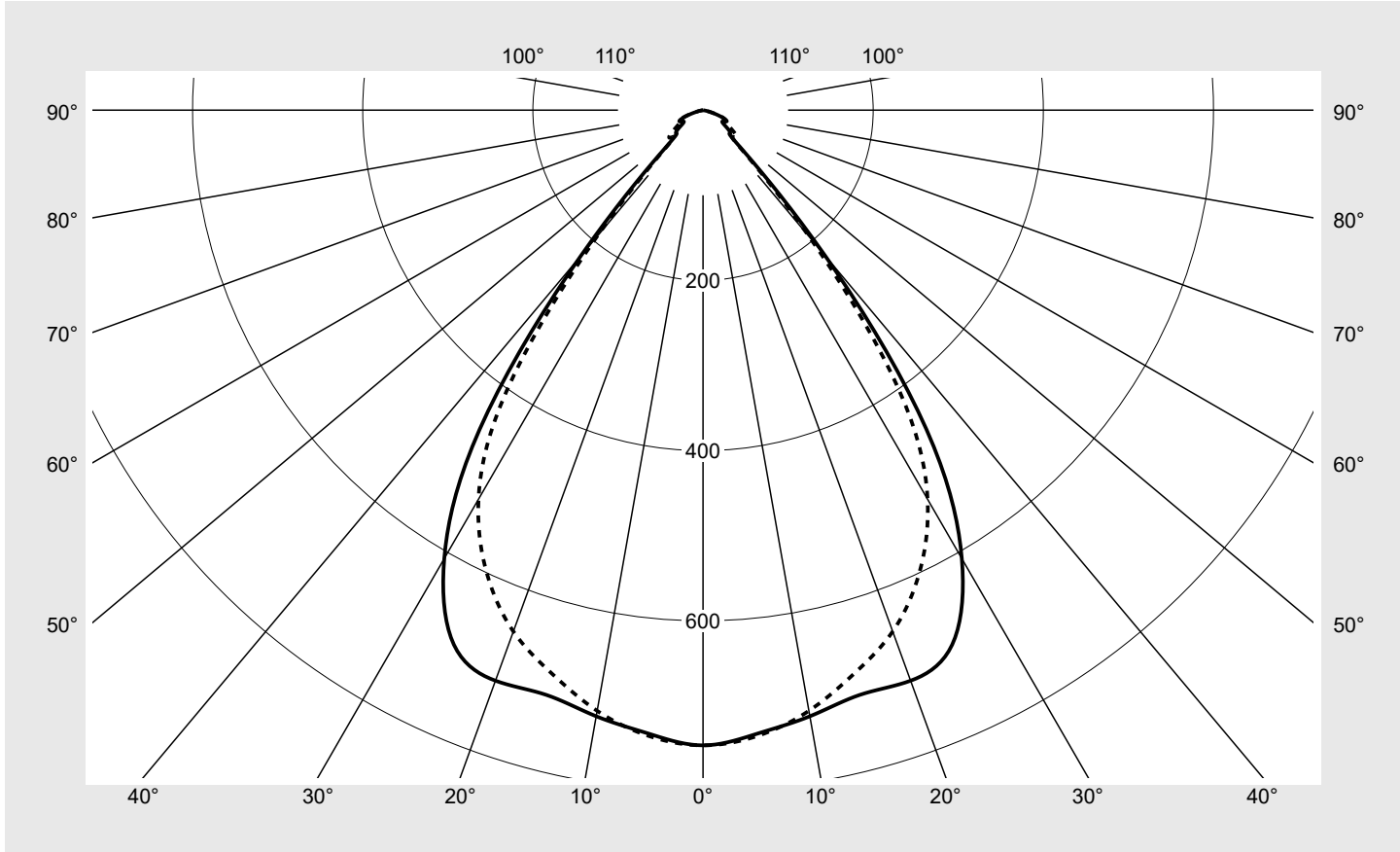


Photometric test report

Family Highbay 11	Order number: 51HLA2D24MCAD + 59HL91001 EAN: 4058352341636 + 4058352323519	LP number 58924_25
Version	wide distribution, UGR≤22, toughened safety glass	serial documentation 08.04.2021
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Setting	central accumulator DC – ECG emergency level 15%	
Rated values	Net luminous flux = 4120 lm Power consumption = 28.2 W Luminous efficacy = 146.1 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 746 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=88 N2=97 N3=100 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

Photometric test report

Family Highbay 11	Order number: 51HLA2D24MCAD + 59HL91001 EAN: 4058352341636 + 4058352323519	LP number 58924_25
Table of values for luminous intensities		Maximum luminous intensity



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°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	4.5	4.5
5°	735.3	737.5	739.7	739.9	738.3	739.6	738.0	35.3	39.7
10°	723.2	726.6	729.4	728.5	722.4	719.9	716.7	69.0	108.7
15°	711.3	717.1	725.5	723.9	708.1	693.6	685.6	100.9	209.6
20°	713.4	718.0	728.3	720.4	690.5	663.2	651.9	131.3	340.9
25°	693.0	694.9	704.2	693.3	653.0	614.7	601.0	154.7	495.6
30°	608.4	605.8	624.6	634.7	585.4	537.6	527.9	162.4	658.1
35°	457.7	465.3	511.3	544.0	482.6	417.8	402.1	149.4	807.5
40°	223.2	249.0	306.2	349.8	284.7	219.8	194.6	95.0	902.5
45°	63.3	67.7	80.1	90.2	68.6	60.3	58.8	27.6	930.1
50°	41.6	37.0	34.8	39.2	39.3	44.2	50.6	16.8	947.0
55°	31.4	29.8	26.5	27.8	29.3	36.0	43.6	14.0	961.0
60°	26.5	29.7	26.3	21.9	21.3	25.9	33.0	12.2	973.2
65°	30.8	23.4	22.4	19.4	17.1	22.6	29.4	11.2	984.4
70°	22.6	17.1	16.5	15.8	14.1	17.3	23.9	8.9	993.3
75°	9.7	7.3	8.1	9.4	9.5	10.1	9.9	4.8	998.1
80°	2.5	2.3	2.6	3.2	3.7	3.7	3.7	1.7	999.8
85°	0.2	0.2	0.3	0.3	0.6	0.6	0.7	0.2	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

Photometric test report

Family Highbay 11	Order number: 51HLA2D24MCAD + 59HL91001 EAN: 4058352341636 + 4058352323519	LP number 58924_25
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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	14.1	15.3	14.4	15.7	16.0	13.6	14.9	14.0	15.2	15.5
	3H	14.4	15.5	14.7	15.8	16.2	14.0	15.1	14.3	15.4	15.8
	4H	14.4	15.5	14.8	15.8	16.2	14.1	15.1	14.5	15.5	15.8
	6H	14.4	15.3	14.8	15.7	16.1	14.1	15.0	14.5	15.4	15.8
	8H	14.5	15.3	14.9	15.6	16.0	14.1	14.9	14.6	15.3	15.7
	12H	14.4	15.2	14.9	15.6	16.0	14.1	14.9	14.5	15.3	15.7
4H	2H	14.0	15.0	14.4	15.4	15.8	13.5	14.6	13.9	14.9	15.3
	3H	14.4	15.2	14.8	15.6	16.0	14.0	14.8	14.4	15.2	15.6
	4H	14.4	15.2	14.9	15.6	16.1	14.1	14.9	14.6	15.3	15.7
	6H	14.4	15.1	14.9	15.5	16.0	14.2	14.8	14.6	15.2	15.7
	8H	14.4	15.0	14.9	15.4	15.9	14.1	14.7	14.6	15.2	15.6
	12H	14.4	14.9	14.9	15.3	15.8	14.1	14.6	14.6	15.1	15.6
8H	4H	14.4	15.0	14.9	15.4	15.9	14.1	14.7	14.6	15.1	15.6
	6H	14.4	14.8	14.9	15.3	15.8	14.1	14.6	14.6	15.1	15.6
	8H	14.3	14.7	14.8	15.2	15.8	14.1	14.5	14.6	15.0	15.5
	12H	14.3	14.6	14.8	15.1	15.7	14.1	14.4	14.6	14.9	15.5
12H	4H	14.4	14.9	14.9	15.4	15.9	14.1	14.6	14.6	15.1	15.6
	6H	14.4	14.7	14.9	15.2	15.8	14.1	14.5	14.6	15.0	15.5
	8H	14.3	14.6	14.8	15.1	15.7	14.1	14.4	14.6	14.9	15.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 590		B = 312	
C-planes	γ	0°	15°	30°	45°	60°	75°	90°	270°
		180°	165°	150°	135°	120°	105°		
		195°	195°	210°	225°	240°	255°		
		345°	345°	330°	315°	300°	285°		
Luminance in cd/m ²									
45°		2004.3	2141.9	2536.7	2856.5	2171.0	1908.3	1860.0	
50°		1449.6	1289.0	1210.0	1365.3	1369.8	1540.4	1760.8	
55°		1224.7	1161.7	1033.7	1083.3	1142.7	1405.3	1701.1	
60°		1185.4	1328.0	1176.8	982.5	953.8	1157.6	1476.8	
65°		1628.9	1238.1	1185.1	1028.3	907.4	1196.1	1556.8	
70°		1476.4	1117.4	1081.5	1030.9	925.6	1133.8	1563.0	
75°		837.5	633.7	697.9	816.3	821.3	874.1	853.3	
80°		321.8	292.2	340.0	416.8	478.4	478.6	480.5	
85°		57.0	57.8	66.0	87.1	142.0	155.1	170.3	

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

