

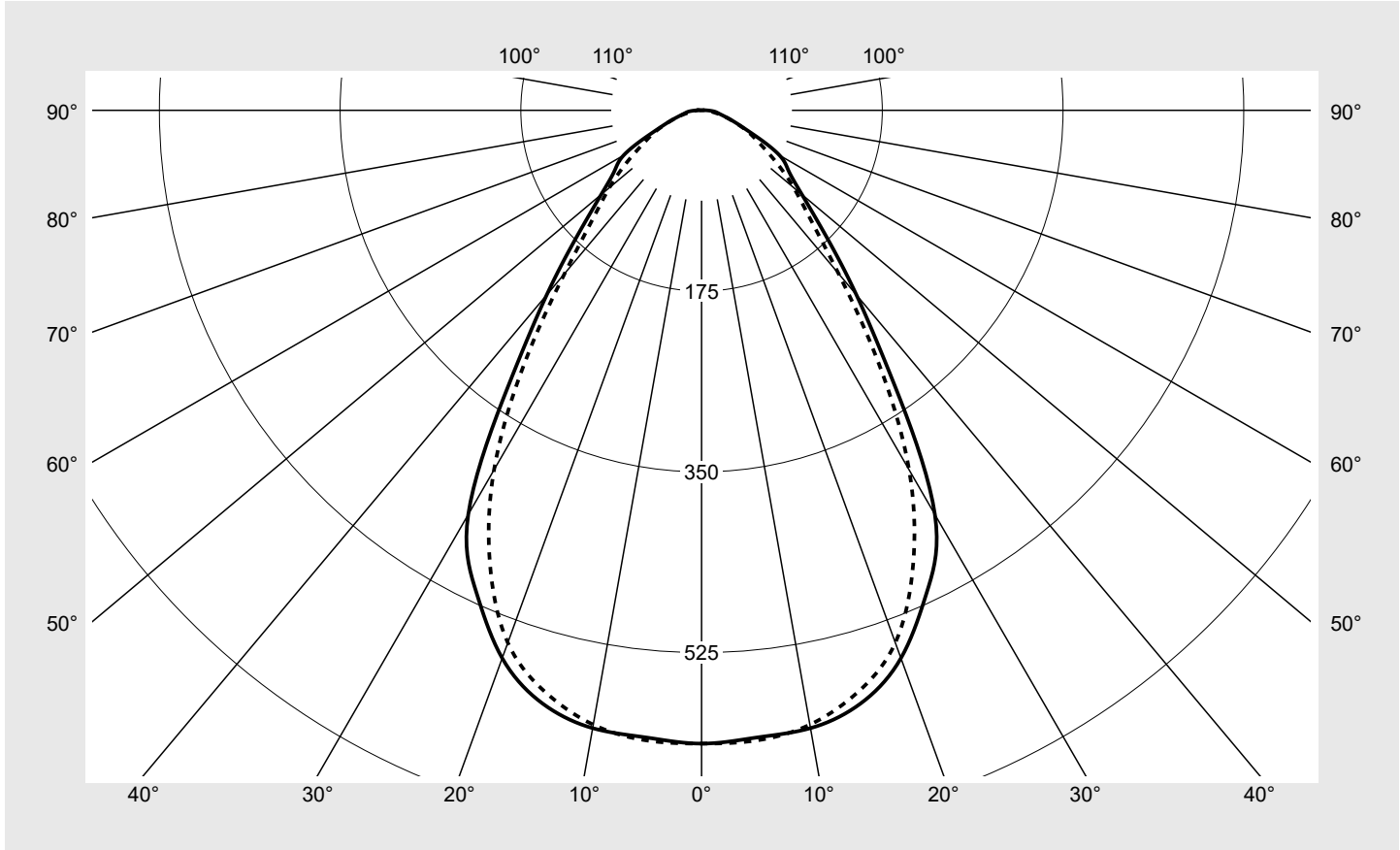


# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HLA2D24MCAD + 59HL91004</b> <b>EAN: 4058352341636 + 4058352341674</b>	<b>LP number</b> <b>58927_15</b>
	<b>Version</b> wide distribution, UGR≤25, prismatic cover, polycarbonate, LLD <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Setting</b> central accumulator DC – ECG emergency level 15% <b>Rated values</b> Net luminous flux = 3930 lm Power consumption = 28.2 W Luminous efficacy = 139.4 lm/W	<b>serial documentation</b> <b>08.04.2021</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 613 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=71 N2=92 N3=98 N4=99 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	99.2%
$\phi_o$	0.8%

Measurement conditions
DIN EN 13032 and DIN 5032

## Photometric test report

Family Highbay 11	Order number: 51HLA2D24MCAD + 59HL91004 EAN: 4058352341636 + 4058352341674	LP number 58927_15
Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

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°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	3.7	3.7
5°	609.6	611.1	612.7	613.1	612.4	613.5	612.4	29.3	32.9
10°	607.4	608.6	610.2	610.3	606.5	606.0	604.0	57.9	90.8
15°	594.6	597.6	602.3	599.6	593.1	586.2	583.4	84.4	175.1
20°	564.4	569.0	575.3	578.9	566.2	554.6	548.6	106.3	281.4
25°	515.6	519.2	532.1	539.9	522.8	495.8	484.8	120.1	401.5
30°	451.9	458.6	489.1	475.0	449.8	415.9	401.9	124.0	525.5
35°	327.1	344.0	384.2	395.7	355.4	317.3	299.0	110.5	636.0
40°	233.3	244.0	283.0	307.1	269.8	223.2	206.3	90.8	726.9
45°	168.2	173.3	198.5	225.5	193.2	156.5	149.2	71.4	798.3
50°	126.9	129.4	133.3	144.3	131.1	119.6	116.5	54.5	852.8
55°	103.2	99.6	94.5	87.8	94.2	91.0	89.0	42.1	895.0
60°	87.2	78.0	70.2	56.0	68.9	67.5	66.1	33.0	928.0
65°	55.4	55.0	48.9	35.9	50.1	50.3	50.2	24.3	952.2
70°	35.3	34.3	31.3	21.7	32.3	34.6	34.5	16.2	968.5
75°	23.4	22.4	19.9	14.1	19.6	21.8	22.9	10.7	979.2
80°	16.6	15.4	13.9	10.7	12.1	12.4	12.8	7.1	986.3
85°	12.0	10.4	9.7	7.3	6.9	6.7	7.4	4.6	990.9
90°	4.7	4.3	4.8	4.8	4.6	4.2	4.5	2.5	993.4
95°	2.6	2.7	3.5	3.9	3.7	3.3	3.9	1.8	995.3
100°	1.7	1.8	2.2	2.7	2.5	2.3	2.8	1.2	996.5
105°	1.5	1.3	1.3	1.5	1.7	1.9	2.3	0.8	997.3
110°	1.2	1.1	0.9	0.8	1.2	1.2	2.0	0.6	997.9
115°	1.1	1.0	0.8	0.7	1.1	1.0	1.8	0.5	998.4
120°	0.9	0.8	0.7	0.6	0.9	1.0	1.5	0.4	998.8
125°	0.8	0.7	0.6	0.6	0.8	1.0	1.3	0.3	999.2
130°	0.9	0.8	0.8	0.8	0.8	1.0	1.2	0.4	999.6
135°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	0.4	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 + 59HL91004 EAN: 4058352341636 + 4058352341674	LP number 58927_15
----------------------	---	-----------------------

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	15.6	17.0	16.0	17.3	17.7	15.1	16.5	15.5	16.9	17.2
	3H	16.2	17.5	16.6	17.8	18.2	15.8	17.0	16.1	17.4	17.7
	4H	16.4	17.6	16.8	17.9	18.3	16.0	17.2	16.4	17.6	17.9
	6H	16.6	17.7	17.0	18.0	18.4	16.2	17.3	16.6	17.6	18.0
	8H	16.7	17.7	17.2	18.1	18.5	16.3	17.3	16.7	17.6	18.0
	12H	16.9	17.7	17.3	18.1	18.6	16.3	17.2	16.8	17.6	18.1
4H	2H	15.7	16.9	16.1	17.3	17.6	15.3	16.5	15.7	16.8	17.2
	3H	16.4	17.4	16.9	17.8	18.2	16.1	17.1	16.5	17.5	17.9
	4H	16.7	17.6	17.2	18.0	18.4	16.4	17.3	16.9	17.7	18.1
	6H	17.0	17.7	17.4	18.2	18.6	16.6	17.4	17.1	17.8	18.3
	8H	17.1	17.8	17.6	18.3	18.8	16.7	17.4	17.2	17.9	18.3
	12H	17.3	17.9	17.8	18.4	18.9	16.8	17.4	17.3	17.9	18.4
8H	4H	16.7	17.4	17.2	17.9	18.3	16.4	17.1	16.9	17.6	18.1
	6H	17.1	17.7	17.6	18.1	18.6	16.7	17.3	17.2	17.8	18.3
	8H	17.3	17.8	17.8	18.3	18.8	16.9	17.4	17.4	17.8	18.4
	12H	17.6	18.0	18.1	18.5	19.0	17.0	17.4	17.5	17.9	18.5
12H	4H	16.7	17.3	17.2	17.8	18.3	16.5	17.1	17.0	17.5	18.0
	6H	17.1	17.6	17.6	18.1	18.6	16.8	17.2	17.3	17.7	18.3
	8H	17.3	17.7	17.9	18.2	18.8	16.9	17.3	17.4	17.8	18.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 612	H(C0) = 21	H(C180) = 21
						B = 330	H(C90) = 21	H(C270) = 21
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°		4351.4	4455.7	5094.2	5803.3	5009.8	4104.0	3969.8
50°		3570.6	3613.4	3714.2	4036.7	3698.8	3418.4	3388.3
55°		3209.9	3069.2	2904.7	2711.4	2936.4	2882.0	2877.1
60°		3057.4	2707.3	2428.1	1945.2	2422.9	2419.9	2426.7
65°		2244.0	2199.2	1948.5	1439.9	2039.3	2091.4	2151.3
70°		1711.4	1634.6	1487.8	1036.8	1570.7	1733.3	1794.7
75°		1420.7	1332.0	1180.5	843.1	1199.9	1385.7	1525.3
80°		1363.9	1233.8	1106.3	863.0	1003.3	1081.1	1200.3
85°		1554.0	1290.8	1181.9	914.9	909.3	955.6	1183.7

**Photometric test report**

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HLA2D24MCAD + 59HL91004</b> <b>EAN: 4058352341636 + 4058352341674</b>	<b>LP number</b> <b>58927_15</b>
------------------------------------	---	-------------------------------------



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

