

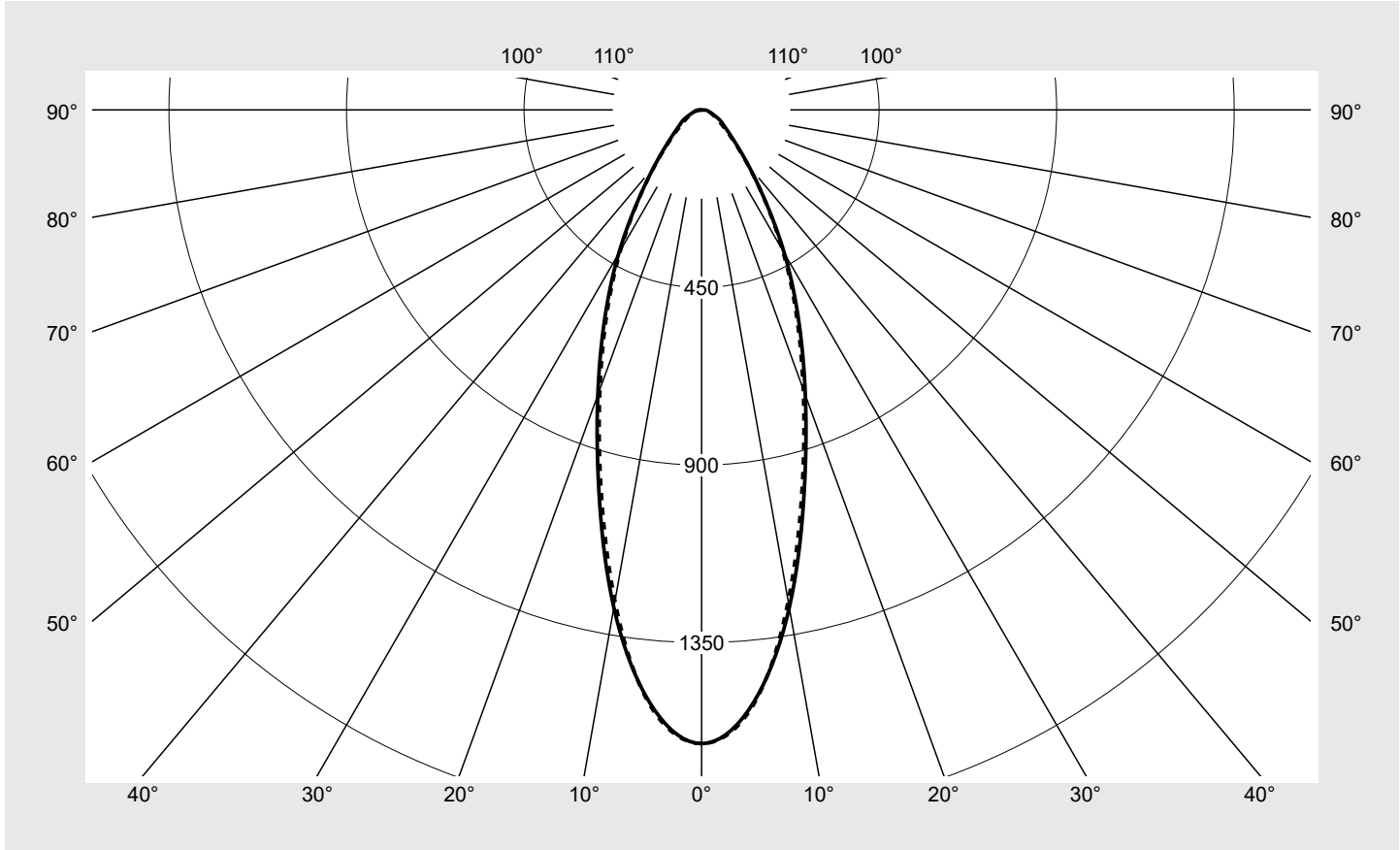


# Photometric test report

<b>Family</b> <b>Highbay 11</b>	<b>Order number: 51HLA1D24NCA + 59HL91004</b> <b>EAN: 4058352322932 + 4058352341674</b>	<b>LP number</b> <b>58926_4</b>
	<b>Version</b> narrow distribution, UGR≤25, prismatic cover, polycarbonate, LLD <b>Lamps</b> LED 4000 K   CRI ≥ 80 <b>Controlgear</b> ECG-DALI <b>Rated values</b> Net luminous flux = 30010 lm Power consumption = 189.6 W Luminous efficacy = 158.3 lm/W	<b>serial documentation</b> <b>13.06.2019</b>
		

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 1606 cd/klm**



Classifications	
DIN 5040	A 6 1
CIE	N1=80 N2=93 N3=98 N4=99 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	99.1%
$\phi_o$	0.9%

Measurement conditions
DIN EN 13032 and DIN 5032

## Photometric test report

Family Highbay 11	Order number: 51HLA1D24NCA + 59HL91004 EAN: 4058352322932 + 4058352341674	LP number 58926_4
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°	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	9.6	9.6
5°	1507.9	1508.7	1512.2	1513.3	1508.7	1511.4	1513.0	72.2	81.8
10°	1280.6	1272.9	1259.5	1248.8	1248.0	1260.8	1264.2	120.0	201.7
15°	1004.5	985.6	950.6	929.5	940.1	972.0	986.2	136.5	338.3
20°	768.9	734.9	677.5	651.2	671.3	724.2	753.2	131.9	470.1
25°	579.4	536.1	467.6	439.1	462.6	526.2	566.8	116.0	586.1
30°	419.8	378.2	316.2	288.9	311.0	371.2	410.7	95.0	681.2
35°	281.6	253.0	209.3	188.3	206.3	251.7	279.5	72.8	753.9
40°	186.8	169.4	140.2	125.9	140.1	168.6	184.1	54.6	808.5
45°	126.3	118.0	99.1	89.3	99.3	113.9	120.8	41.5	850.1
50°	90.6	86.0	74.8	68.1	73.3	80.0	82.7	32.8	882.9
55°	68.9	67.2	61.4	56.4	57.0	58.6	59.3	27.3	910.2
60°	55.5	53.3	51.3	48.2	46.1	44.3	44.2	23.2	933.4
65°	39.9	40.4	40.9	39.4	37.9	35.0	34.2	19.1	952.4
70°	27.7	27.4	28.0	26.9	26.9	26.7	27.3	14.0	966.5
75°	20.8	20.4	20.1	18.4	17.7	18.4	20.0	10.2	976.7
80°	16.9	16.2	16.1	14.4	12.1	10.7	10.9	7.5	984.2
85°	12.6	12.2	12.3	10.2	7.8	6.8	7.3	5.4	989.6
90°	4.9	5.5	6.5	6.9	5.5	5.3	6.3	3.2	992.8
95°	3.0	3.5	4.8	5.4	4.4	4.2	5.3	2.4	995.2
100°	1.8	2.0	2.9	3.6	2.9	2.5	3.1	1.5	996.6
105°	1.4	1.2	1.3	1.8	1.9	1.8	2.1	0.9	997.5
110°	1.1	1.0	0.9	0.8	1.2	1.2	1.9	0.6	998.1
115°	1.0	0.9	0.7	0.6	1.0	0.9	1.7	0.4	998.5
120°	0.8	0.7	0.5	0.5	0.8	0.9	1.5	0.4	998.9
125°	0.6	0.5	0.5	0.5	0.6	0.8	1.2	0.3	999.2
130°	0.8	0.8	0.8	0.8	0.8	1.0	1.1	0.4	999.5
135°	1.2	1.2	1.2	1.2	1.2	1.2	1.3	0.5	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: 51HLA1D24NCA + 59HL91004 EAN: 4058352322932 + 4058352341674	LP number 58926_4
----------------------	--	----------------------

UGR-Table	Standard room	siteco	
-----------	---------------	--------	--

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	19.9	21.2	20.2	21.5	21.8	19.4	20.7	19.8	21.0	21.3
	3H	20.7	21.8	21.1	22.2	22.5	20.3	21.4	20.6	21.7	22.1
	4H	21.1	22.1	21.5	22.5	22.8	20.7	21.7	21.1	22.1	22.4
	6H	21.5	22.4	21.9	22.8	23.2	20.9	21.9	21.3	22.3	22.7
	8H	21.8	22.6	22.2	23.0	23.4	21.1	21.9	21.5	22.3	22.7
	12H	22.0	22.8	22.5	23.2	23.6	21.2	22.0	21.6	22.4	22.8
4H	2H	20.2	21.3	20.6	21.6	22.0	19.8	20.9	20.2	21.2	21.6
	3H	21.2	22.1	21.6	22.5	22.9	20.8	21.7	21.3	22.1	22.5
	4H	21.7	22.4	22.1	22.9	23.3	21.3	22.1	21.7	22.5	22.9
	6H	22.2	22.9	22.7	23.3	23.8	21.6	22.3	22.1	22.8	23.2
	8H	22.5	23.1	23.0	23.6	24.1	21.8	22.4	22.3	22.8	23.3
	12H	22.9	23.4	23.4	23.9	24.4	22.0	22.5	22.4	22.9	23.4
8H	4H	21.8	22.4	22.3	22.9	23.3	21.5	22.1	22.0	22.5	23.0
	6H	22.5	23.0	23.0	23.5	24.0	21.9	22.4	22.4	22.9	23.4
	8H	23.0	23.4	23.5	23.9	24.4	22.1	22.6	22.6	23.0	23.6
	12H	23.5	23.8	24.0	24.3	24.9	22.3	22.7	22.9	23.2	23.7
12H	4H	21.8	22.3	22.3	22.8	23.3	21.5	22.0	22.0	22.5	23.0
	6H	22.6	23.0	23.1	23.5	24.0	22.0	22.4	22.5	22.9	23.5
	8H	23.1	23.4	23.6	23.9	24.5	22.2	22.6	22.8	23.1	23.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 612 B = 330	H(C0) = 21 H(C90) = 21	H(C180) = 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°	24958.7	23170.1	19426.2	17540.6	19650.7	22801.9	24540.3	
	50°	19472.2	18334.5	15913.4	14537.3	15791.2	17453.1	18363.6	
	55°	16361.4	15829.7	14426.0	13298.5	13571.9	14164.9	14635.0	
	60°	14843.0	14130.2	13560.3	12788.8	12367.6	12120.6	12387.9	
	65°	12351.5	12345.1	12455.8	12057.0	11767.3	11111.5	11206.5	
	70°	10238.7	9970.5	10163.0	9804.7	10004.3	10217.3	10844.8	
	75°	9632.8	9266.1	9073.7	8407.8	8247.8	8929.9	10160.1	
	80°	10644.1	9939.1	9745.9	8860.1	7671.8	7164.9	7838.0	
	85°	12425.4	11516.1	11470.3	9710.0	7772.2	7445.9	8949.5	

**Photometric test report**

<b>Family</b> Highbay 11	<b>Order number: 51HLA1D24NCA + 59HL91004</b> <b>EAN: 4058352322932 + 4058352341674</b>	<b>LP number</b> 58926_4
-----------------------------	--	-----------------------------

**Luminance values in cd/m<sup>2</sup>**

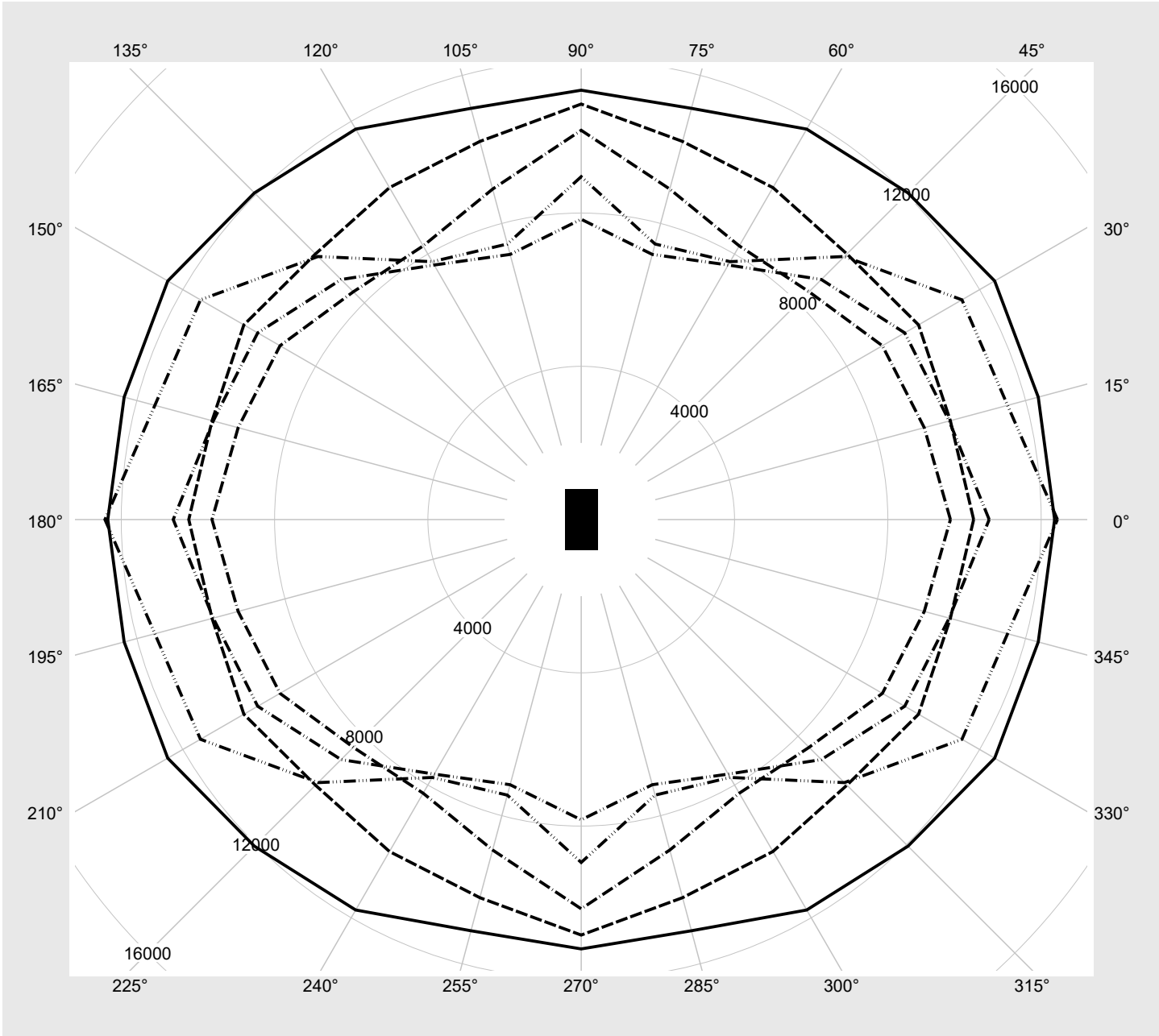
  $\gamma$  65°
 

  $\gamma$  70°
 

  $\gamma$  75°
 

  $\gamma$  80°
 

  $\gamma$  85°
 
siteco



## Photometric test report

Family Highbay 11	Order number: 51HLA1D24NCA + 59HL91004 EAN: 4058352322932 + 4058352341674	LP number 58926_4
----------------------	--	----------------------

<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	30010	189.6
95	240	252	28510	179.4
90	227	250	27009	169.2
85	213	248	25509	158.9
80	200	245	24008	148.9
75	187	243	22508	139.4
70	174	240	21007	129.6
65	161	237	19507	120.1
60	148	234	18006	110.8
55	135	231	16506	101.4
50	123	227	15005	92.3
45	110	224	13505	83.2
40	98	219	12004	74.4
35	85	214	10504	65.5
30	73	209	9003	56.9
25	61	202	7503	48.4
20	49	194	6002	39.9
15	37	184	4502	31.4
10	25	170	3000	23.0