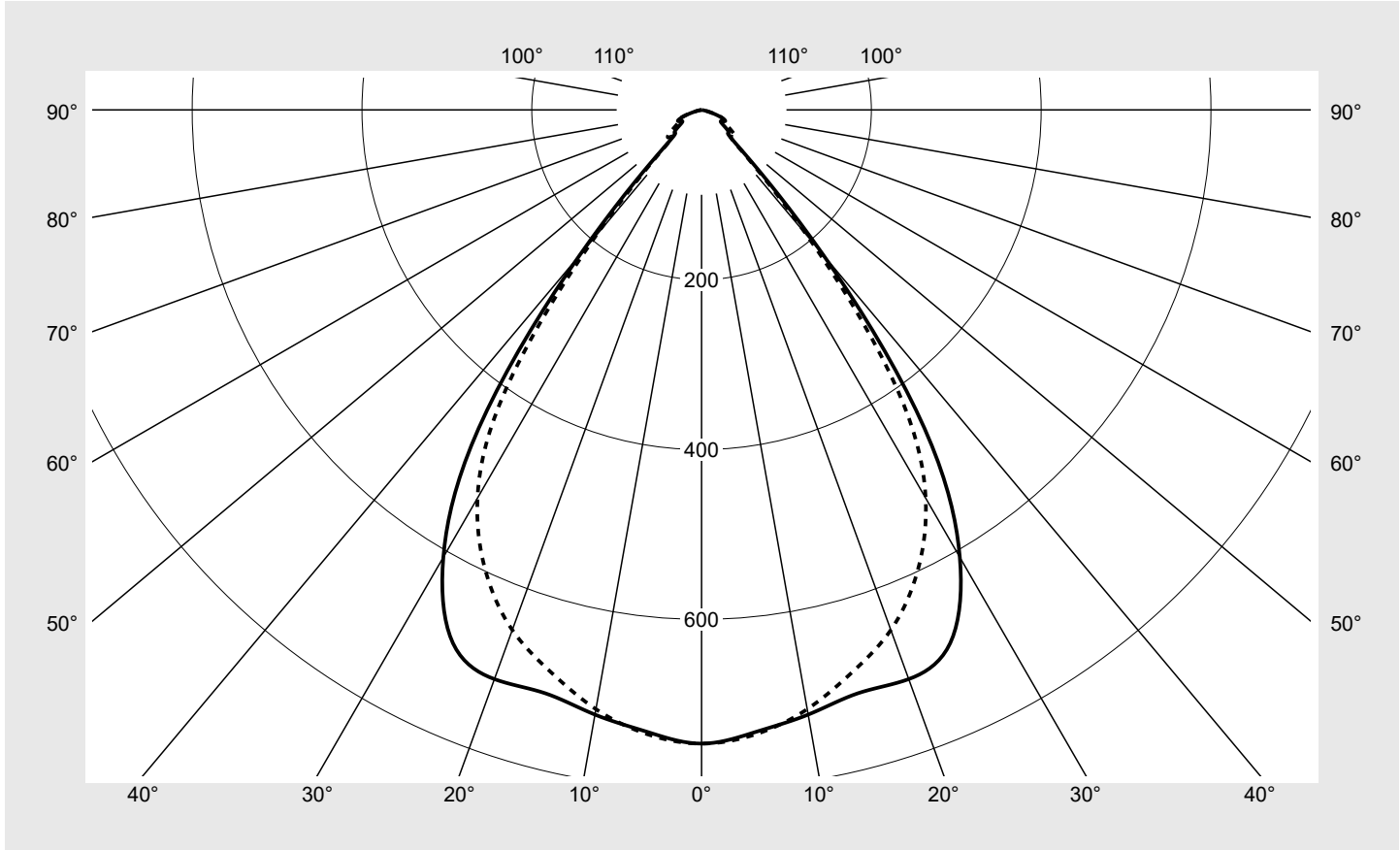


Photometric test report

Family Highbay 11	Order number: 51HLA2D24NCA + 59HL91002 EAN: 4058352322987 + 4058352341650	LP number 58924_14
Version	wide distribution, UGR≤22, cover panel, PC	serial documentation 13.06.2019
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 29910 lm Power consumption = 189.6 W Luminous efficacy = 157.8 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: 51HLA2D24NCA + 59HL91002 EAN: 4058352322987 + 4058352341650	LP number 58924_14
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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: 51HLA2D24NCA + 59HL91002 EAN: 4058352322987 + 4058352341650	LP number 58924_14
----------------------	--	-----------------------

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	20.9	22.2	21.3	22.5	22.9	20.5	21.8	20.8	22.1	22.4
	3H	21.2	22.4	21.6	22.7	23.1	20.8	22.0	21.2	22.3	22.7
	4H	21.3	22.4	21.7	22.7	23.1	21.0	22.0	21.3	22.4	22.7
	6H	21.3	22.2	21.7	22.6	23.0	21.0	21.9	21.4	22.3	22.7
	8H	21.3	22.1	21.8	22.5	22.9	21.0	21.8	21.4	22.2	22.6
	12H	21.3	22.1	21.7	22.4	22.9	21.0	21.7	21.4	22.1	22.6
4H	2H	20.9	21.9	21.3	22.3	22.6	20.4	21.5	20.8	21.8	22.2
	3H	21.3	22.1	21.7	22.5	22.9	20.9	21.7	21.3	22.1	22.5
	4H	21.3	22.1	21.8	22.5	23.0	21.0	21.8	21.5	22.2	22.6
	6H	21.3	22.0	21.8	22.4	22.9	21.0	21.7	21.5	22.1	22.6
	8H	21.3	21.9	21.7	22.3	22.8	21.0	21.6	21.5	22.1	22.5
	12H	21.3	21.7	21.8	22.2	22.7	21.0	21.5	21.5	22.0	22.5
8H	4H	21.3	21.9	21.8	22.3	22.8	21.0	21.6	21.5	22.0	22.5
	6H	21.2	21.7	21.7	22.2	22.7	21.0	21.5	21.5	22.0	22.5
	8H	21.2	21.6	21.7	22.1	22.6	21.0	21.4	21.5	21.9	22.4
	12H	21.2	21.5	21.7	22.0	22.6	21.0	21.3	21.5	21.8	22.4
12H	4H	21.3	21.8	21.8	22.2	22.7	21.0	21.5	21.5	21.9	22.4
	6H	21.3	21.6	21.8	22.1	22.7	21.0	21.4	21.5	21.9	22.4
	8H	21.2	21.5	21.7	22.0	22.6	21.0	21.3	21.5	21.8	22.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 590 B = 312
-----------------	---------------------------------	-------------------------------	--------------------

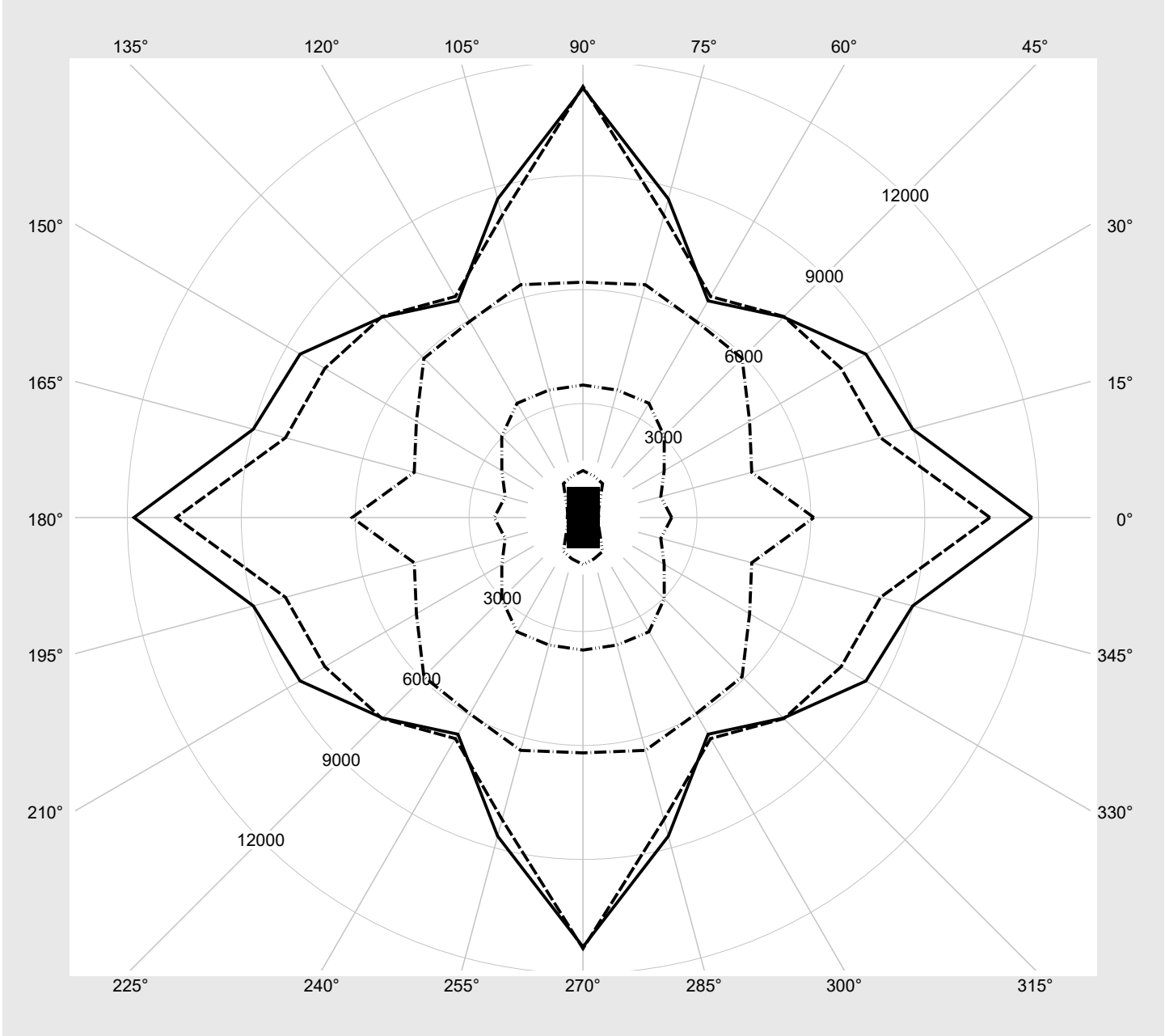
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		14550.3	15549.9	18415.8	20737.6	15760.6	13853.4	13503.2	
50°		10523.7	9357.7	8784.3	9912.0	9944.4	11183.0	12782.6	
55°		8890.8	8433.3	7504.4	7864.2	8295.3	10202.4	12349.4	
60°		8605.8	9641.1	8543.1	7132.7	6924.1	8404.0	10721.3	
65°		11825.5	8988.5	8603.7	7465.2	6587.5	8683.6	11302.2	
70°		10718.5	8112.3	7851.0	7483.8	6719.9	8231.1	11347.1	
75°		6080.1	4600.4	5066.3	5926.3	5962.7	6345.7	6195.0	
80°		2336.5	2121.2	2468.4	3026.1	3473.3	3474.3	3488.3	
85°		413.9	419.5	479.1	632.0	1031.0	1126.0	1236.0	

Photometric test report

Family Highbay 11	Order number: 51HLA2D24NCA + 59HL91002 EAN: 4058352322987 + 4058352341650	LP number 58924_14
------------------------------------	--	-------------------------------------



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



Photometric test report

Family Highbay 11	Order number: 51HLA2D24NCA + 59HL91002 EAN: 4058352322987 + 4058352341650	LP number 58924_14
----------------------	--	-----------------------

Dimming levels table	environmental temperature: 25°C	siteco
----------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	29910	189.6
95	240	252	28415	179.4
90	227	250	26919	169.2
85	213	248	25424	158.9
80	200	245	23928	148.9
75	187	243	22433	139.4
70	174	240	20937	129.5
65	161	237	19442	120.1
60	148	234	17946	110.8
55	135	231	16451	101.4
50	123	228	14955	92.3
45	110	224	13460	83.2
40	98	220	11964	74.4
35	85	215	10469	65.5
30	73	210	8973	56.9
25	61	204	7478	48.4
20	49	197	5982	39.9
15	37	188	4487	31.4
10	25	177	2990	23.0