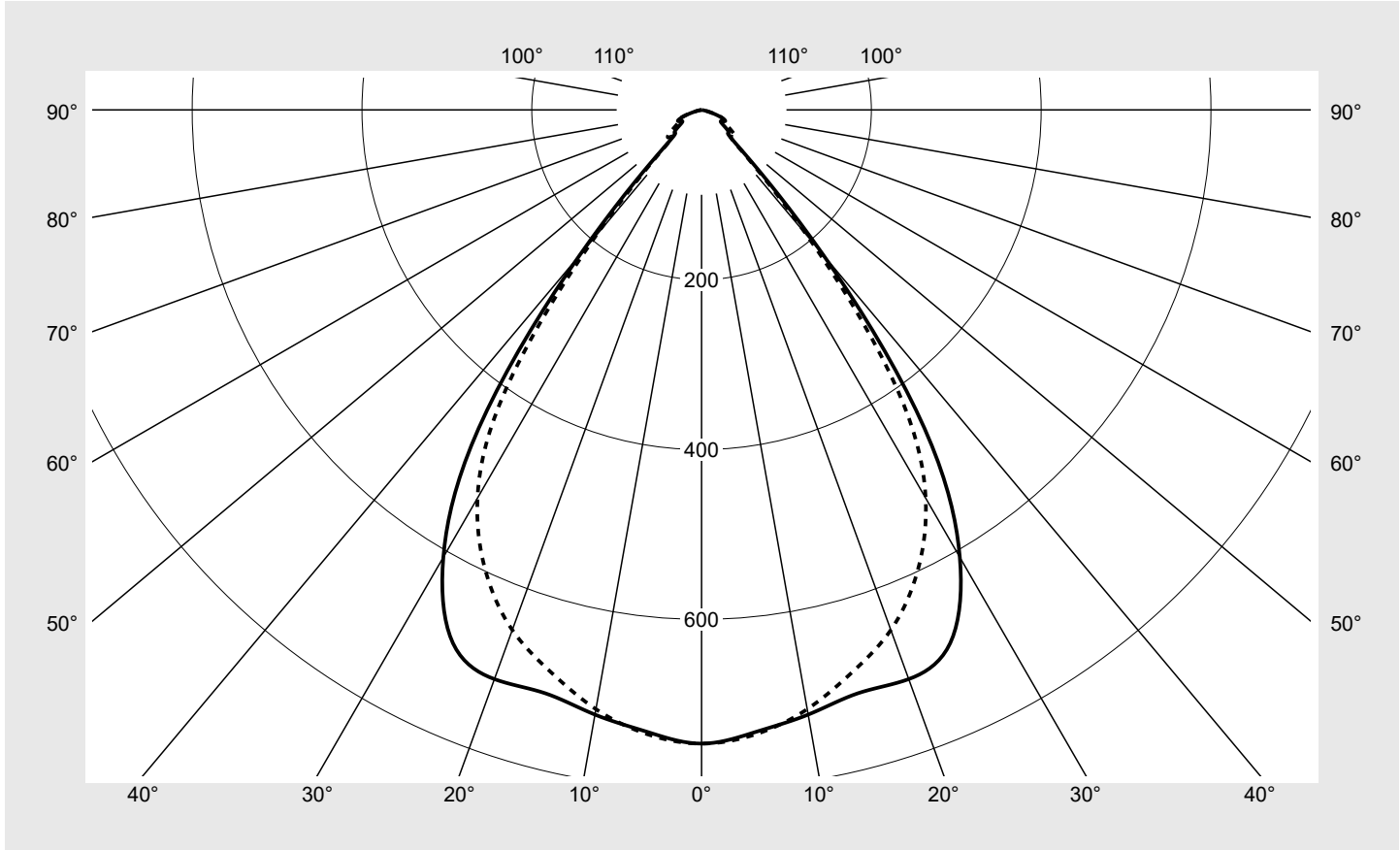


Photometric test report

Family Highbay 11	Order number: 51HLA2D14FCA + 59HL91002 EAN: 4058352322963 + 4058352341650	LP number 58924_12
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 = 12990 lm Power consumption = 81.2 W Luminous efficacy = 160 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: 51HLA2D14FCA + 59HL91002 EAN: 4058352322963 + 4058352341650	LP number 58924_12
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: 51HLA2D14FCA + 59HL91002 EAN: 4058352322963 + 4058352341650	LP number 58924_12
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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	20.5	21.7	20.8	22.1	22.4	20.0	21.3	20.4	21.6	21.9
	3H	20.8	21.9	21.1	22.2	22.6	20.4	21.5	20.7	21.8	22.2
	4H	20.8	21.9	21.2	22.2	22.6	20.5	21.5	20.9	21.9	22.2
	6H	20.8	21.7	21.2	22.1	22.5	20.5	21.4	20.9	21.8	22.2
	8H	20.8	21.7	21.3	22.0	22.4	20.5	21.3	21.0	21.7	22.1
	12H	20.8	21.6	21.3	22.0	22.4	20.5	21.3	20.9	21.7	22.1
4H	2H	20.4	21.4	20.8	21.8	22.2	19.9	21.0	20.3	21.3	21.7
	3H	20.8	21.6	21.2	22.0	22.4	20.4	21.2	20.8	21.6	22.0
	4H	20.8	21.6	21.3	22.0	22.5	20.5	21.3	21.0	21.7	22.1
	6H	20.8	21.5	21.3	21.9	22.4	20.5	21.2	21.0	21.6	22.1
	8H	20.8	21.4	21.3	21.8	22.3	20.5	21.1	21.0	21.6	22.0
	12H	20.8	21.3	21.3	21.7	22.2	20.5	21.0	21.0	21.5	22.0
8H	4H	20.8	21.4	21.3	21.8	22.3	20.5	21.1	21.0	21.5	22.0
	6H	20.8	21.2	21.3	21.7	22.2	20.5	21.0	21.0	21.5	22.0
	8H	20.7	21.1	21.2	21.6	22.2	20.5	20.9	21.0	21.4	21.9
	12H	20.7	21.0	21.2	21.5	22.1	20.5	20.8	21.0	21.3	21.9
12H	4H	20.8	21.3	21.3	21.8	22.3	20.5	21.0	21.0	21.4	21.9
	6H	20.8	21.1	21.3	21.6	22.2	20.5	20.9	21.0	21.4	21.9
	8H	20.7	21.0	21.2	21.5	22.1	20.5	20.8	21.0	21.3	21.9

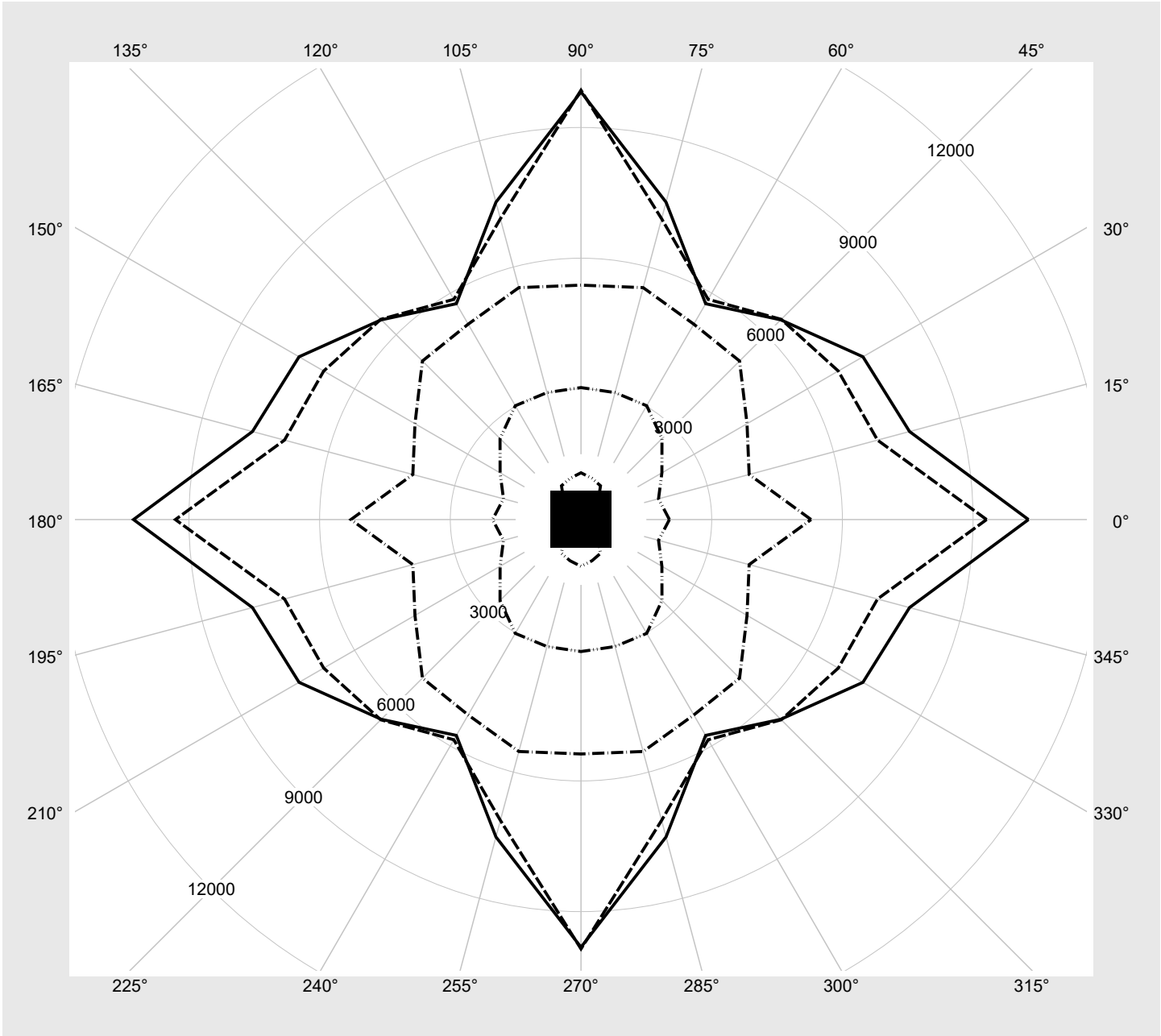
Luminance table		Max. for $\gamma \geq 65^\circ$							Photometric dimensions in mm:		L = 295	B = 312
C-planes	γ	0°	15°	30°	45°	60°	75°	90°				
		180°	165°	150°	135°	120°	105°		270°			
		195°	210°	225°	240°	255°	270°					
		345°	330°	315°	300°	285°						
		Luminance in cd/m ²										
45°		12638.5	13506.7	15996.1	18012.8	13689.8	12033.1	11728.9				
50°		9141.0	8128.1	7630.1	8609.6	8637.7	9713.6	11103.0				
55°		7722.6	7325.2	6518.4	6830.9	7205.4	8861.9	10726.7				
60°		7475.0	8374.3	7420.6	6195.5	6014.3	7299.7	9312.6				
65°		10271.7	7807.5	7473.2	6484.3	5721.9	7542.6	9817.2				
70°		9310.2	7046.4	6819.4	6500.5	5836.9	7149.6	9856.1				
75°		5281.2	3996.0	4400.6	5147.6	5179.3	5511.9	5381.0				
80°		2029.5	1842.5	2144.1	2628.5	3017.0	3017.8	3030.0				
85°		359.5	364.4	416.2	549.0	895.5	978.1	1073.6				

Photometric test report

Family Highbay 11	Order number: 51HLA2D14FCA + 59HL91002 EAN: 4058352322963 + 4058352341650	LP number 58924_12
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



Photometric test report

Family Highbay 11	Order number: 51HLA2D14FCA + 59HL91002 EAN: 4058352322963 + 4058352341650	LP number 58924_12
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Dimming levels table	environmental temperature: 25°C	siteco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	12990	81.2
95	241	252	12341	76.8
90	227	250	11691	72.5
85	214	248	11042	68.4
80	201	245	10392	64.2
75	188	243	9743	60.0
70	175	240	9093	56.0
65	162	238	8444	51.9
60	149	235	7794	48.0
55	136	232	7145	44.1
50	124	228	6495	40.2
45	111	225	5846	36.3
40	99	220	5196	32.5
35	86	216	4547	28.8
30	74	211	3897	25.1
25	62	205	3248	21.3
20	50	198	2598	17.6
15	38	190	1949	14.0
10	26	179	1298	10.4