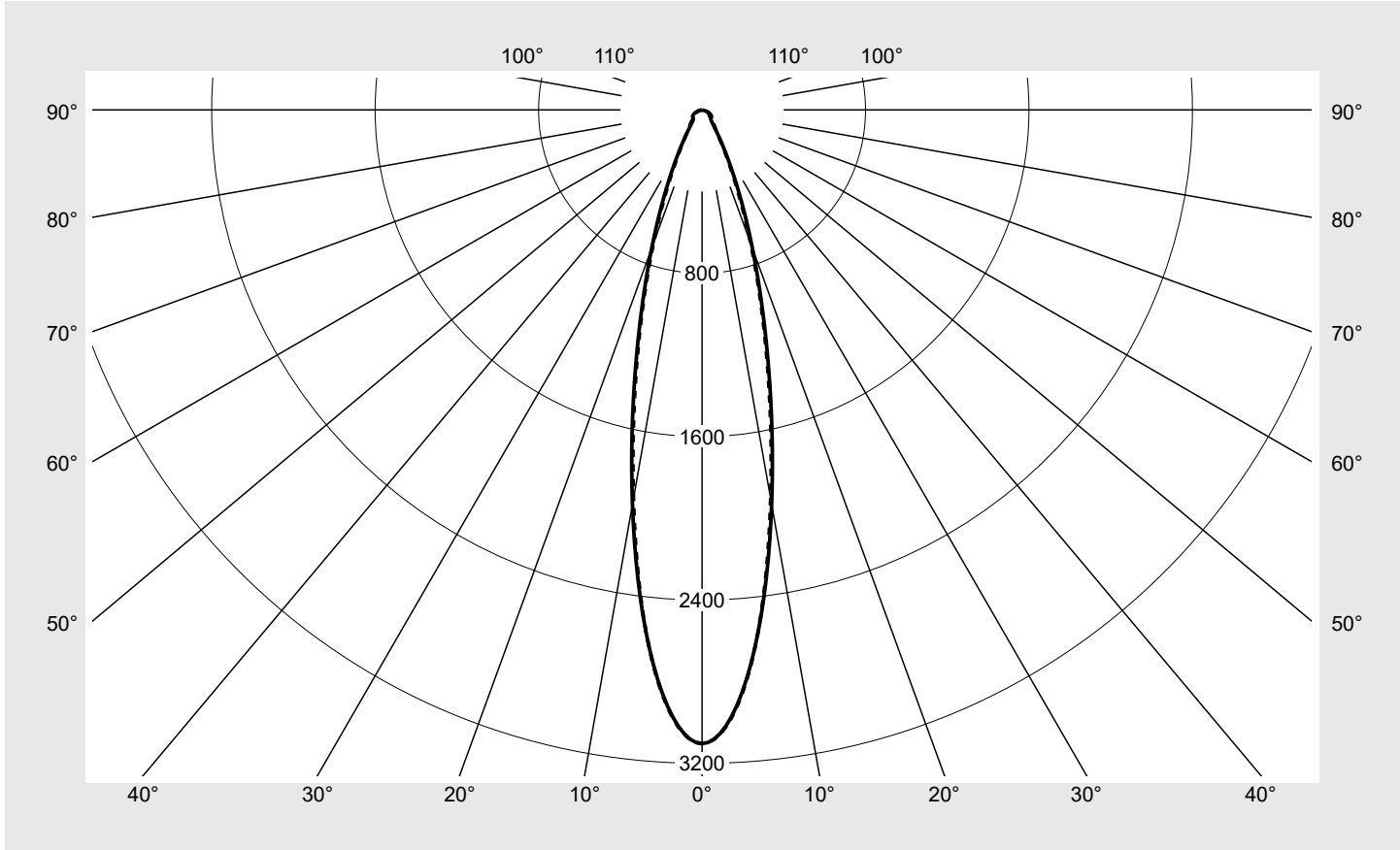


Photometric test report

Family Highbay 11	Order number: 51HLA1D14FCA + 59HL91001 EAN: 4058352321720 + 4058352323519	LP number 58920_2
Version	narrow distribution, UGR≤22, toughened safety glass	serial documentation 13.06.2019
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 13570 lm Power consumption = 81.2 W Luminous efficacy = 167.1 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 3103 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=94 N3=99 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: 51HLA1D14FCA + 59HL91001 EAN: 4058352321720 + 4058352323519	LP number 58920_2
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°	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	18.6	18.6
5°	2728.1	2725.7	2734.5	2735.8	2731.2	2739.6	2732.7	130.6	149.1
10°	1961.3	1955.1	1962.7	1959.8	1944.6	1940.4	1933.3	185.8	334.9
15°	1234.5	1231.5	1237.4	1233.6	1223.5	1217.2	1209.8	174.2	509.0
20°	720.2	721.2	730.7	731.8	720.5	706.3	696.1	134.9	644.0
25°	391.5	395.5	407.7	412.0	396.6	377.5	368.6	91.5	735.4
30°	203.6	206.8	216.0	219.0	212.4	200.7	194.3	57.3	792.7
35°	109.3	109.5	113.4	118.8	120.5	117.6	115.6	36.3	829.0
40°	71.8	72.6	76.4	83.5	87.0	87.1	87.3	28.5	857.5
45°	59.8	60.1	64.9	71.1	68.6	64.2	62.9	25.2	882.8
50°	58.8	60.0	64.4	66.4	57.1	49.4	48.5	24.6	907.3
55°	56.5	57.6	60.7	58.9	51.3	43.9	43.6	24.1	931.5
60°	50.4	50.7	52.1	52.2	45.2	38.5	38.0	22.4	953.8
65°	40.7	40.4	41.4	42.5	37.1	32.0	31.7	19.0	972.8
70°	28.4	28.2	29.2	30.2	27.5	24.4	24.3	14.2	987.1
75°	15.1	15.6	16.5	18.0	16.8	16.4	16.8	8.8	995.8
80°	5.3	5.6	6.2	6.9	7.4	7.5	9.1	3.7	999.5
85°	0.5	0.5	0.6	0.8	1.1	1.3	1.8	0.5	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: 51HLA1D14FCA + 59HL91001 EAN: 4058352321720 + 4058352323519	LP number 58920_2
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UGR-Table	Standard room	siteco
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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	18.5	19.7	18.9	20.0	20.3	17.5	18.7	17.8	19.0	19.3
	3H	20.0	21.0	20.4	21.4	21.7	18.9	19.9	19.2	20.2	20.6
	4H	20.3	21.3	20.7	21.6	22.0	19.4	20.3	19.8	20.7	21.1
	6H	20.5	21.3	20.9	21.7	22.1	19.7	20.6	20.1	20.9	21.3
	8H	20.5	21.2	20.9	21.6	22.0	19.9	20.6	20.3	21.0	21.4
	12H	20.5	21.1	20.9	21.5	22.0	19.9	20.5	20.3	20.9	21.3
4H	2H	19.3	20.2	19.7	20.6	20.9	18.5	19.4	18.9	19.8	20.2
	3H	20.8	21.6	21.2	22.0	22.4	20.0	20.7	20.4	21.1	21.6
	4H	21.2	21.9	21.7	22.3	22.8	20.5	21.2	21.0	21.6	22.1
	6H	21.3	21.9	21.8	22.4	22.8	20.9	21.5	21.3	21.9	22.4
	8H	21.3	21.9	21.8	22.3	22.8	20.9	21.5	21.4	21.9	22.4
	12H	21.3	21.7	21.8	22.2	22.7	20.9	21.4	21.4	21.9	22.4
8H	4H	21.4	21.9	21.9	22.4	22.8	20.8	21.3	21.3	21.7	22.2
	6H	21.5	22.0	22.0	22.4	22.9	21.2	21.6	21.7	22.0	22.6
	8H	21.5	21.9	22.0	22.4	22.9	21.2	21.6	21.7	22.1	22.6
	12H	21.5	21.8	22.0	22.3	22.8	21.2	21.5	21.7	22.0	22.6
12H	4H	21.4	21.8	21.9	22.3	22.8	20.8	21.2	21.3	21.7	22.2
	6H	21.5	21.9	22.0	22.4	22.9	21.1	21.5	21.6	22.0	22.5
	8H	21.5	21.8	22.0	22.3	22.9	21.2	21.5	21.7	22.0	22.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 295 B = 312
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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°		12468.4	12540.8	13529.1	14821.6	14300.8	13394.2	13108.6	
50°		13481.4	13757.6	14762.0	15234.7	13105.3	11341.6	11120.8	
55°		14520.3	14794.8	15611.0	15147.0	13174.2	11285.6	11213.9	
60°		14846.8	14962.1	15374.6	15383.5	13334.1	11348.4	11201.9	
65°		14183.4	14106.3	14457.2	14826.0	12936.9	11158.0	11050.2	
70°		12259.7	12164.9	12573.1	13016.7	11833.0	10530.3	10495.4	
75°		8585.7	8861.5	9421.4	10254.8	9588.3	9345.1	9588.3	
80°		4538.2	4727.5	5256.5	5831.3	6289.8	6344.9	7689.0	
85°		778.2	781.5	957.5	1316.1	1884.5	2273.6	3090.6	

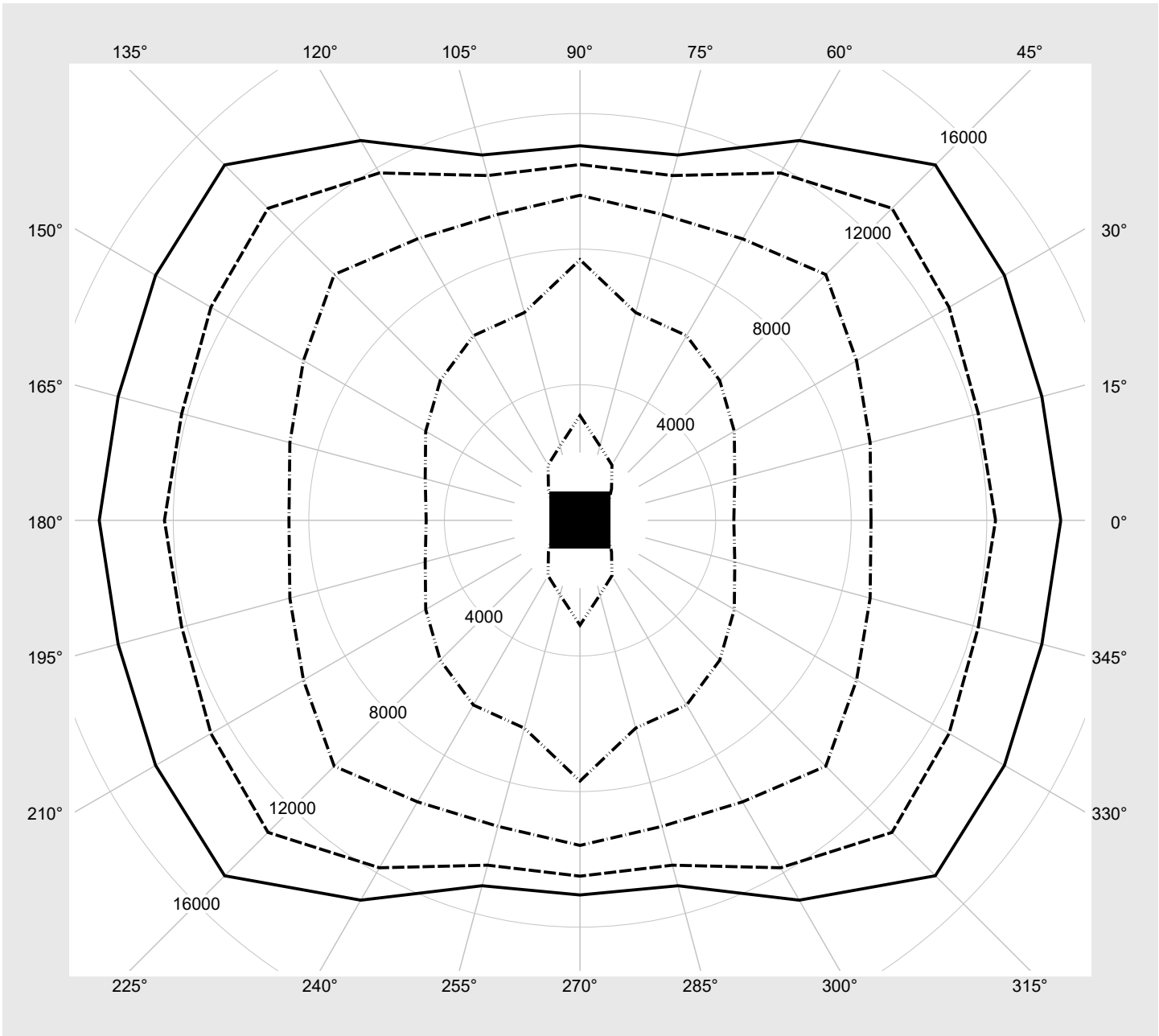
Photometric test report

Family Highbay 11	Order number: 51HLA1D14FCA + 59HL91001 EAN: 4058352321720 + 4058352323519	LP number 58920_2
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HLA1D14FCA + 59HL91001 EAN: 4058352321720 + 4058352323519	LP number 58920_2
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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	13570	81.2
95	241	252	12892	76.8
90	227	250	12213	72.5
85	214	248	11535	68.4
80	201	245	10856	64.2
75	188	243	10178	60.0
70	175	240	9499	56.0
65	162	238	8821	51.9
60	149	235	8142	48.0
55	136	232	7464	44.1
50	124	228	6785	40.1
45	111	225	6107	36.3
40	99	220	5428	32.5
35	86	216	4750	28.8
30	74	211	4071	25.1
25	62	205	3393	21.3
20	50	198	2714	17.6
15	38	190	2036	14.0
10	26	179	1356	10.4