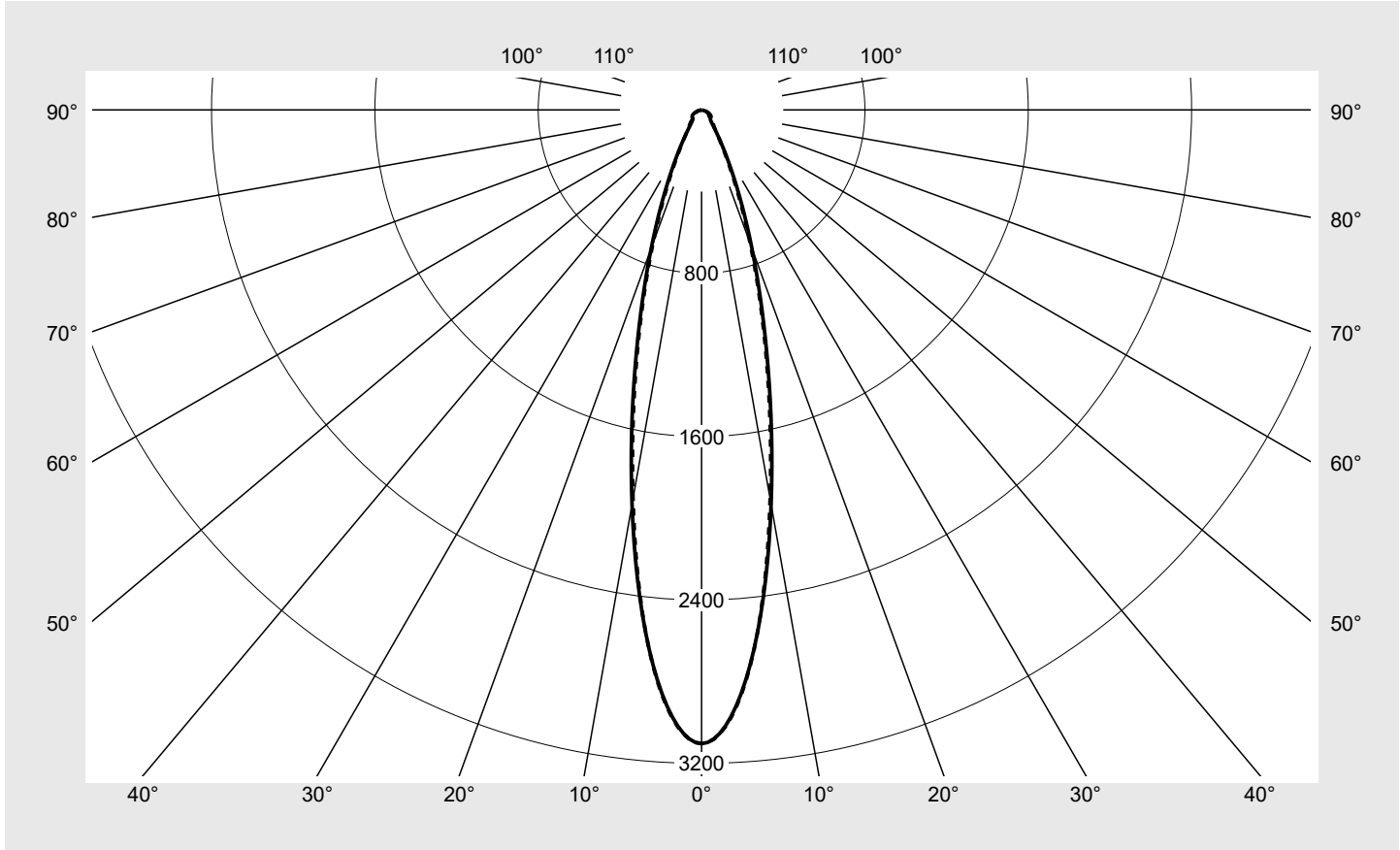


Photometric test report

Family Highbay 11	Order number: 51HLA1D14FCA + 59HL91002 EAN: 4058352321720 + 4058352341650	LP number 58920_12
Version	narrow 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 = 12800 lm Power consumption = 81.2 W Luminous efficacy = 157.6 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 + 59HL91002 EAN: 4058352321720 + 4058352341650	LP number 58920_12
Table of values for luminous intensities		Maximum luminous intensity



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 + 59HL91002 EAN: 4058352321720 + 4058352341650	LP number 58920_12
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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	18.3	19.5	18.7	19.8	20.1	17.3	18.5	17.6	18.8	19.1
	3H	19.8	20.8	20.2	21.1	21.5	18.7	19.7	19.0	20.0	20.4
	4H	20.1	21.1	20.5	21.4	21.8	19.2	20.1	19.6	20.5	20.9
	6H	20.3	21.1	20.7	21.5	21.9	19.5	20.4	19.9	20.7	21.1
	8H	20.3	21.0	20.7	21.4	21.8	19.7	20.4	20.1	20.8	21.2
	12H	20.3	20.9	20.7	21.3	21.8	19.7	20.3	20.1	20.7	21.1
4H	2H	19.1	20.0	19.4	20.4	20.7	18.3	19.2	18.7	19.6	20.0
	3H	20.6	21.4	21.0	21.8	22.2	19.8	20.5	20.2	20.9	21.4
	4H	21.0	21.7	21.5	22.1	22.6	20.3	21.0	20.8	21.4	21.9
	6H	21.1	21.7	21.6	22.2	22.6	20.7	21.3	21.1	21.7	22.2
	8H	21.1	21.7	21.6	22.1	22.6	20.7	21.3	21.2	21.7	22.2
	12H	21.1	21.5	21.6	22.0	22.5	20.7	21.2	21.2	21.7	22.2
8H	4H	21.2	21.7	21.7	22.1	22.6	20.6	21.1	21.0	21.5	22.0
	6H	21.3	21.8	21.8	22.2	22.7	21.0	21.4	21.5	21.8	22.4
	8H	21.3	21.7	21.8	22.2	22.7	21.0	21.4	21.5	21.9	22.4
	12H	21.3	21.6	21.8	22.1	22.6	21.0	21.3	21.5	21.8	22.4
12H	4H	21.2	21.6	21.7	22.1	22.6	20.6	21.0	21.0	21.5	22.0
	6H	21.3	21.7	21.8	22.2	22.7	20.9	21.3	21.4	21.8	22.3
	8H	21.3	21.6	21.8	22.1	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 = 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°		11760.9	11829.2	12761.4	13980.6	13489.3	12634.2	12364.7	
50°		12716.5	12976.9	13924.4	14370.3	12361.6	10698.1	10489.7	
55°		13696.4	13955.3	14725.1	14287.5	12426.6	10645.3	10577.6	
60°		14004.3	14113.1	14502.2	14510.6	12577.5	10704.5	10566.3	
65°		13378.6	13305.8	13636.9	13984.7	12202.8	10524.9	10423.2	
70°		11564.1	11474.6	11859.7	12278.1	11161.5	9932.8	9899.8	
75°		8098.6	8358.6	8886.8	9672.9	9044.3	8814.8	9044.3	
80°		4280.7	4459.3	4958.2	5500.4	5932.9	5984.9	7252.7	
85°		734.0	737.2	903.1	1241.4	1777.6	2144.6	2915.3	

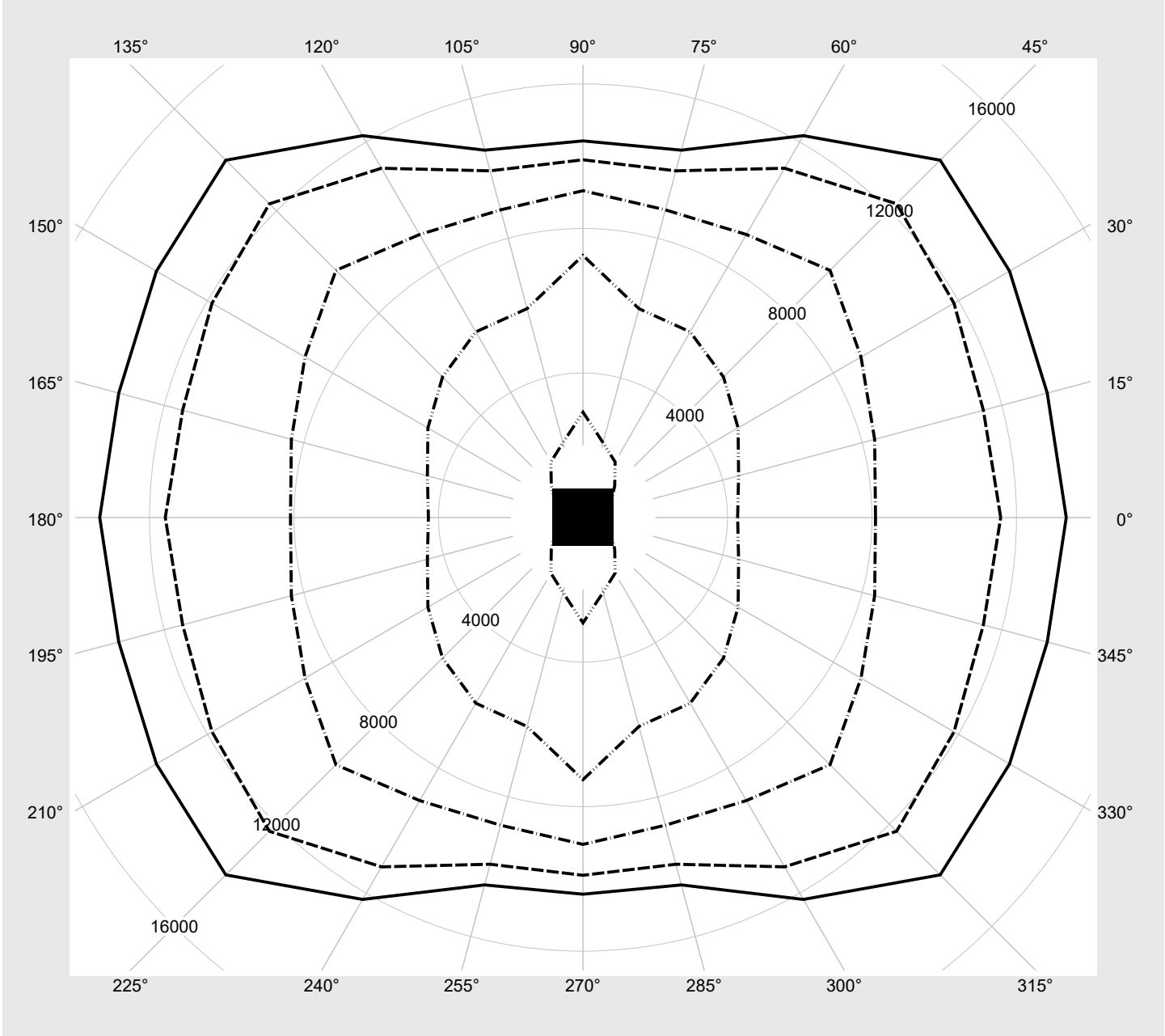
Photometric test report

Family Highbay 11	Order number: 51HLA1D14FCA + 59HL91002 EAN: 4058352321720 + 4058352341650	LP number 58920_12
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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Photometric test report

Family Highbay 11	Order number: 51HLA1D14FCA + 59HL91002 EAN: 4058352321720 + 4058352341650	LP number 58920_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	12800	81.2
95	241	252	12160	76.8
90	227	250	11520	72.5
85	214	248	10880	68.4
80	201	245	10240	64.2
75	188	243	9600	60.0
70	175	240	8960	56.0
65	162	238	8320	51.9
60	149	235	7680	48.0
55	136	232	7040	44.1
50	124	228	6400	40.1
45	111	225	5760	36.3
40	99	220	5120	32.5
35	86	216	4480	28.8
30	74	211	3840	25.1
25	62	205	3200	21.3
20	50	198	2560	17.6
15	38	190	1920	14.0
10	26	179	1279	10.4