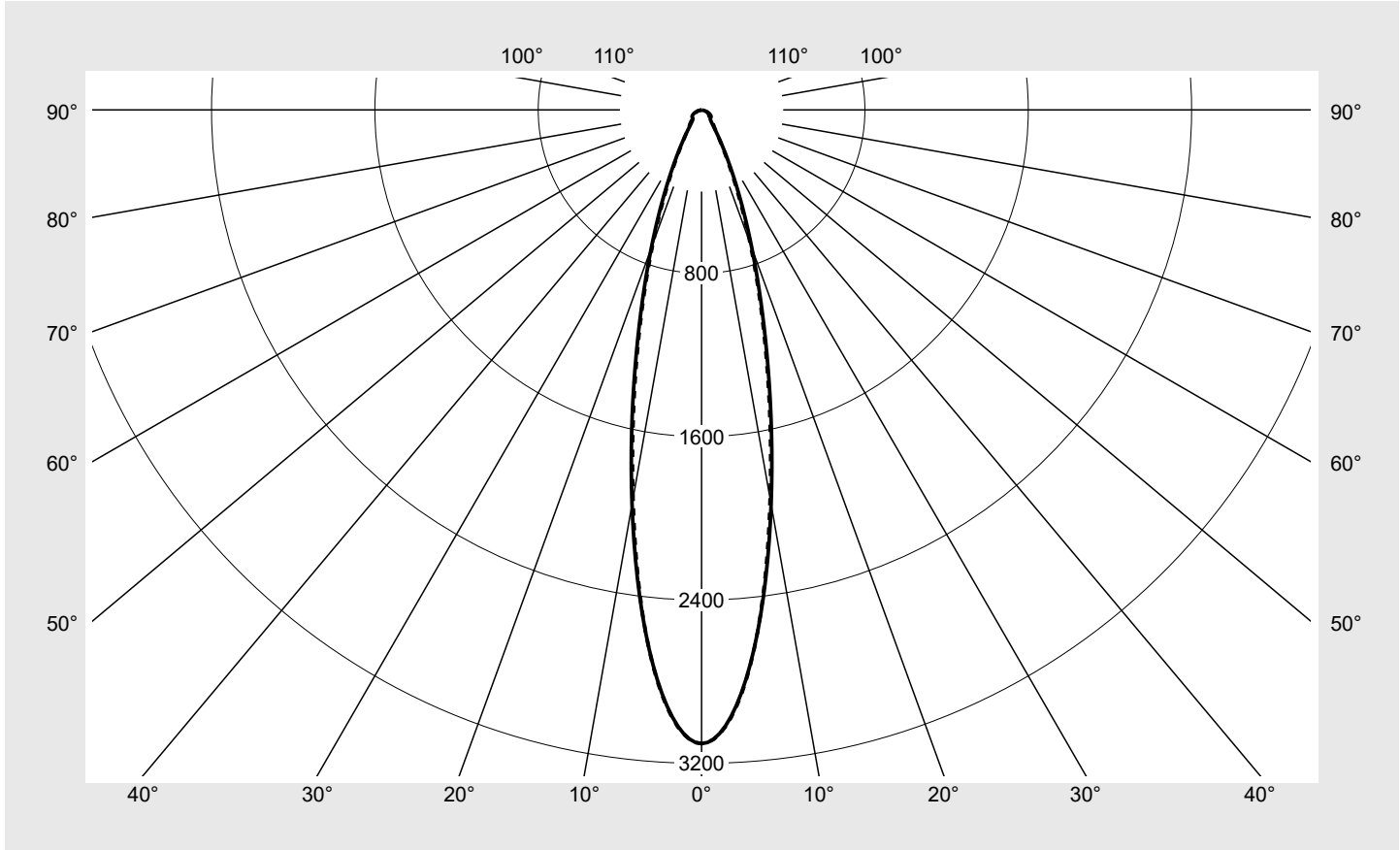


Photometric test report

Family Highbay 11	Order number: 51HLA1D34SCA + 59HL91001 EAN: 4058352322949 + 4058352323519	LP number 58920_5
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 = 46860 lm Power consumption = 284.4 W Luminous efficacy = 164.8 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: 51HLA1D34SCA + 59HL91001 EAN: 4058352322949 + 4058352323519	LP number 58920_5
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Table of values for luminous intensities	Maximum luminous intensity
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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: 51HLA1D34SCA + 59HL91001 EAN: 4058352322949 + 4058352323519	LP number 58920_5
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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	19.0	20.2	19.4	20.5	20.8	18.0	19.1	18.3	19.5	19.8
	3H	20.5	21.5	20.9	21.8	22.2	19.4	20.4	19.7	20.7	21.1
	4H	20.8	21.8	21.2	22.1	22.5	19.9	20.8	20.3	21.2	21.6
	6H	20.9	21.8	21.4	22.2	22.6	20.2	21.1	20.6	21.4	21.8
	8H	21.0	21.7	21.4	22.1	22.5	20.4	21.1	20.8	21.5	21.9
	12H	21.0	21.6	21.4	22.0	22.4	20.4	21.0	20.8	21.4	21.8
4H	2H	19.7	20.7	20.1	21.0	21.4	19.0	19.9	19.4	20.3	20.7
	3H	21.3	22.1	21.7	22.5	22.9	20.5	21.2	20.9	21.6	22.0
	4H	21.7	22.4	22.1	22.8	23.3	21.0	21.7	21.5	22.1	22.6
	6H	21.8	22.4	22.3	22.9	23.3	21.3	21.9	21.8	22.4	22.9
	8H	21.8	22.3	22.3	22.8	23.3	21.4	22.0	21.9	22.4	22.9
	12H	21.8	22.2	22.3	22.7	23.2	21.4	21.9	21.9	22.3	22.8
8H	4H	21.9	22.4	22.3	22.8	23.3	21.3	21.8	21.7	22.2	22.7
	6H	22.0	22.4	22.5	22.9	23.4	21.6	22.1	22.1	22.5	23.1
	8H	22.0	22.4	22.5	22.9	23.4	21.7	22.1	22.2	22.6	23.1
	12H	21.9	22.3	22.5	22.8	23.3	21.7	22.0	22.2	22.5	23.1
12H	4H	21.9	22.3	22.4	22.8	23.3	21.2	21.7	21.7	22.2	22.7
	6H	22.0	22.4	22.5	22.8	23.4	21.6	22.0	22.1	22.5	23.0
	8H	22.0	22.3	22.5	22.8	23.3	21.7	22.0	22.2	22.5	23.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 885
			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°		14352.0	14435.3	15572.9	17060.7	16461.2	15417.7	15088.8	
50°		15518.0	15835.9	16992.1	17536.2	15085.1	13055.0	12800.7	
55°		16713.9	17029.9	17969.3	17435.2	15164.4	12990.5	12908.0	
60°		17089.7	17222.4	17697.2	17707.4	15348.5	13062.8	12894.1	
65°		16326.0	16237.3	16641.3	17065.7	14891.2	12843.7	12719.6	
70°		14111.8	14002.6	14472.5	14983.1	13620.6	12121.1	12080.9	
75°		9882.8	10200.1	10844.7	11804.0	11036.8	10756.8	11036.8	
80°		5223.7	5441.7	6050.6	6712.2	7239.9	7303.5	8850.6	
85°		895.7	899.6	1102.1	1514.9	2169.2	2617.0	3557.5	

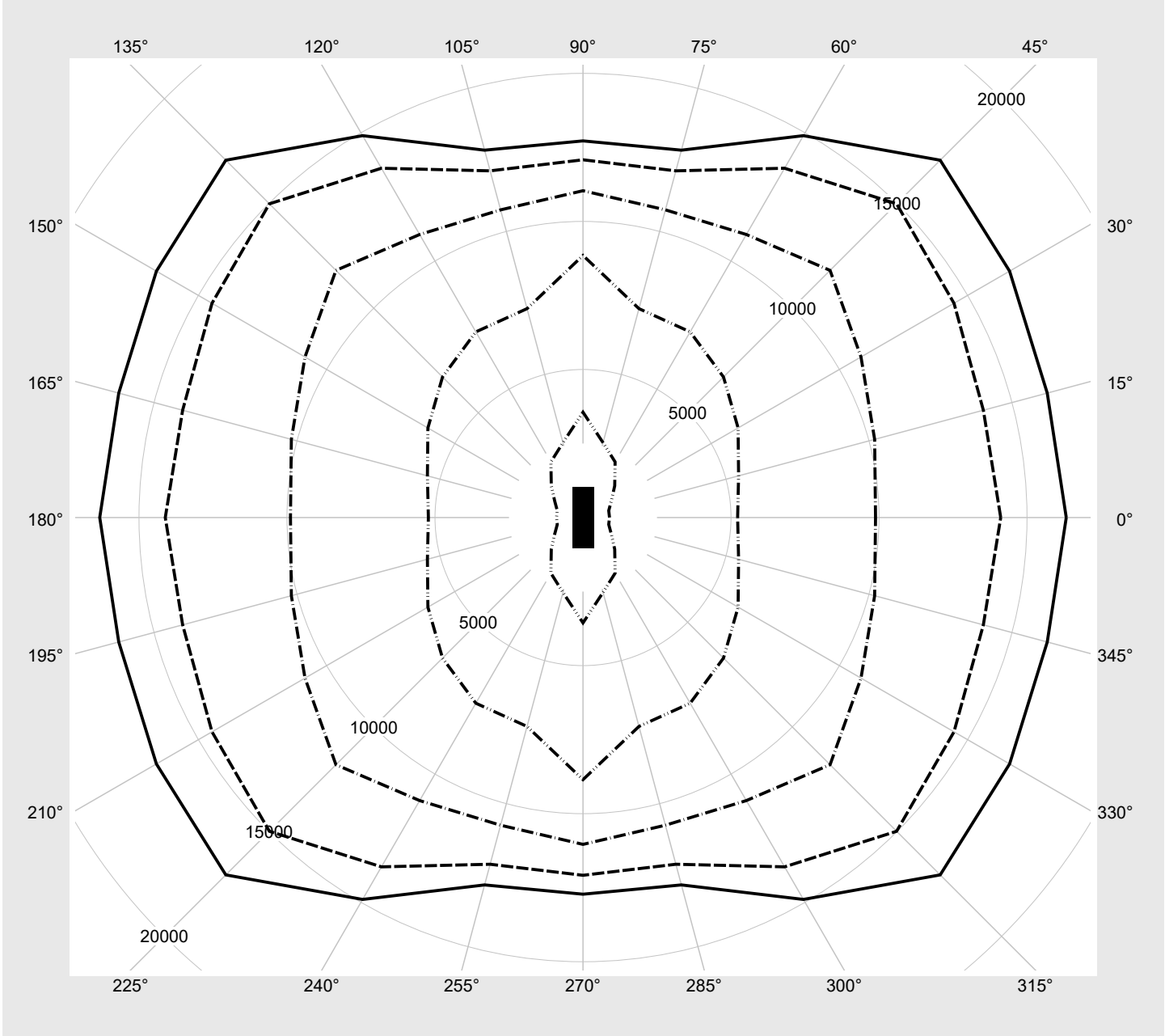
Photometric test report

Family Highbay 11	Order number: 51HLA1D34SCA + 59HL91001 EAN: 4058352322949 + 4058352323519	LP number 58920_5
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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: 51HLA1D34SCA + 59HL91001 EAN: 4058352322949 + 4058352323519	LP number 58920_5
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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	46860	284.4
95	240	252	44517	269.1
90	227	250	42174	253.8
85	213	248	39831	238.4
80	200	245	37488	223.3
75	187	243	35145	209.0
70	174	240	32802	194.4
65	161	237	30459	180.2
60	148	234	28116	166.3
55	135	231	25773	152.2
50	123	228	23430	138.5
45	110	224	21087	124.8
40	98	220	18744	111.5
35	85	215	16401	98.3
30	73	210	14058	85.3
25	61	204	11715	72.7
20	49	197	9372	59.8
15	37	188	7029	47.3
10	25	177	4685	34.6