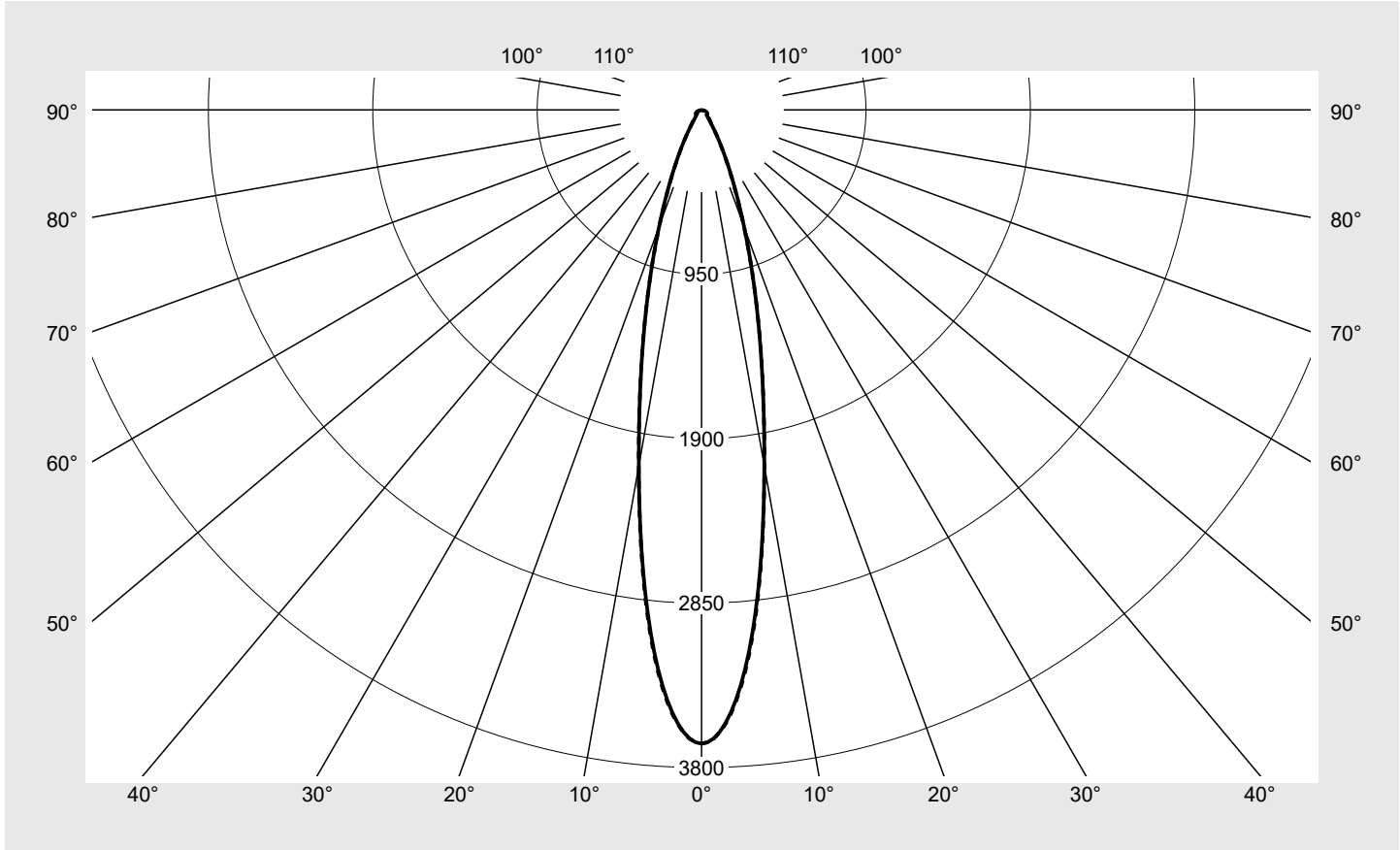


Photometric test report

Family Highbay 11	Order number: 51HLA1D14GLA EAN: 4058352361429	LP number 58918_12
Version	narrow distribution, UGR≤22	serial documentation 31.03.2020
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 16190 lm Power consumption = 94.9 W Luminous efficacy = 170.6 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 Imax: 3662 cd/klm



Classifications	
DIN 5040	A 7 0
CIE	N1=88 N2=95 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: 51HLA1D14GLA EAN: 4058352361429	LP number 58918_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°	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	21.9	21.9
5°	3142.6	3138.8	3148.7	3152.8	3150.8	3162.1	3157.3	150.5	172.4
10°	2088.2	2082.4	2095.8	2102.6	2097.1	2098.1	2092.4	199.3	371.8
15°	1265.5	1263.0	1272.3	1276.0	1271.9	1272.7	1269.2	180.2	552.0
20°	717.4	718.4	730.4	738.2	732.8	722.5	712.3	136.1	688.1
25°	380.2	383.6	397.1	405.5	395.8	382.2	373.9	90.4	778.5
30°	189.9	192.8	203.8	209.2	205.7	196.2	189.8	54.7	833.2
35°	93.4	93.2	98.1	106.1	108.6	103.6	99.4	31.8	865.0
40°	56.8	57.1	60.0	67.1	71.1	71.1	70.3	22.9	887.9
45°	41.2	40.8	44.9	50.9	50.2	47.6	46.5	18.0	905.9
50°	41.3	41.9	46.2	48.9	40.8	33.1	32.5	17.3	923.2
55°	41.3	42.1	45.2	43.2	36.0	29.8	29.9	17.4	940.6
60°	39.0	39.2	40.5	39.6	33.4	27.4	27.5	16.9	957.4
65°	33.8	33.6	34.5	34.8	29.3	24.3	24.5	15.4	972.8
70°	26.5	26.3	27.0	27.6	23.9	20.0	20.0	12.7	985.5
75°	15.9	16.7	18.0	19.3	17.3	15.5	15.6	9.0	994.6
80°	6.4	6.9	7.9	9.2	9.9	9.6	10.9	4.7	999.3
85°	0.5	0.5	0.6	1.0	1.8	2.4	3.4	0.7	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: 51HLA1D14GLA EAN: 4058352361429	LP number 58918_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	17.2	18.3	17.6	18.7	19.0	16.0	17.1	16.3	17.4	17.7
	3H	19.1	20.1	19.5	20.4	20.8	17.6	18.5	17.9	18.9	19.2
	4H	19.7	20.6	20.1	20.9	21.3	18.3	19.2	18.7	19.5	19.9
	6H	19.9	20.7	20.3	21.1	21.5	18.9	19.8	19.4	20.1	20.5
	8H	20.0	20.7	20.4	21.1	21.5	19.3	19.9	19.7	20.3	20.7
	12H	20.0	20.6	20.4	21.0	21.4	19.3	20.0	19.8	20.4	20.8
4H	2H	18.0	18.9	18.4	19.3	19.7	17.1	18.0	17.5	18.4	18.8
	3H	20.0	20.8	20.4	21.2	21.6	18.8	19.6	19.3	20.0	20.4
	4H	20.7	21.4	21.1	21.8	22.2	19.6	20.3	20.1	20.7	21.2
	6H	21.0	21.5	21.4	22.0	22.4	20.3	20.9	20.8	21.3	21.8
	8H	21.0	21.5	21.5	22.0	22.4	20.6	21.1	21.0	21.5	22.0
	12H	21.0	21.4	21.5	21.9	22.4	20.6	21.1	21.1	21.5	22.0
8H	4H	21.0	21.5	21.5	21.9	22.4	20.1	20.6	20.6	21.1	21.5
	6H	21.4	21.7	21.9	22.2	22.7	20.9	21.3	21.4	21.8	22.3
	8H	21.3	21.7	21.8	22.2	22.7	21.1	21.5	21.6	22.0	22.5
	12H	21.3	21.6	21.8	22.1	22.7	21.2	21.5	21.7	22.0	22.5
12H	4H	21.0	21.4	21.5	21.9	22.4	20.1	20.5	20.6	21.0	21.5
	6H	21.3	21.7	21.8	22.2	22.7	20.9	21.2	21.4	21.7	22.2
	8H	21.3	21.7	21.9	22.2	22.7	21.1	21.4	21.6	21.9	22.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 300		B = 320	
C-planes	0°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°		
γ	Luminance in cd/m ²								
45°	9818.1	9722.7	10716.6	12138.5	11976.6	11355.8	11089.1		
50°	10846.7	11002.9	12111.4	12833.4	10696.9	8691.9	8525.1		
55°	12152.9	12376.7	13299.0	12689.5	10574.6	8756.7	8804.0		
60°	13158.8	13220.8	13646.8	13363.5	11274.0	9242.5	9283.3		
65°	13477.9	13394.9	13748.9	13888.1	11710.5	9707.7	9789.5		
70°	13052.5	12950.4	13295.1	13627.5	11778.9	9878.5	9882.0		
75°	10350.0	10860.2	11702.7	12585.0	11280.5	10105.6	10163.6		
80°	6252.5	6672.1	7660.8	8942.7	9624.5	9339.0	10575.3		
85°	892.0	897.8	1226.8	1971.8	3504.3	4580.1	6637.0		

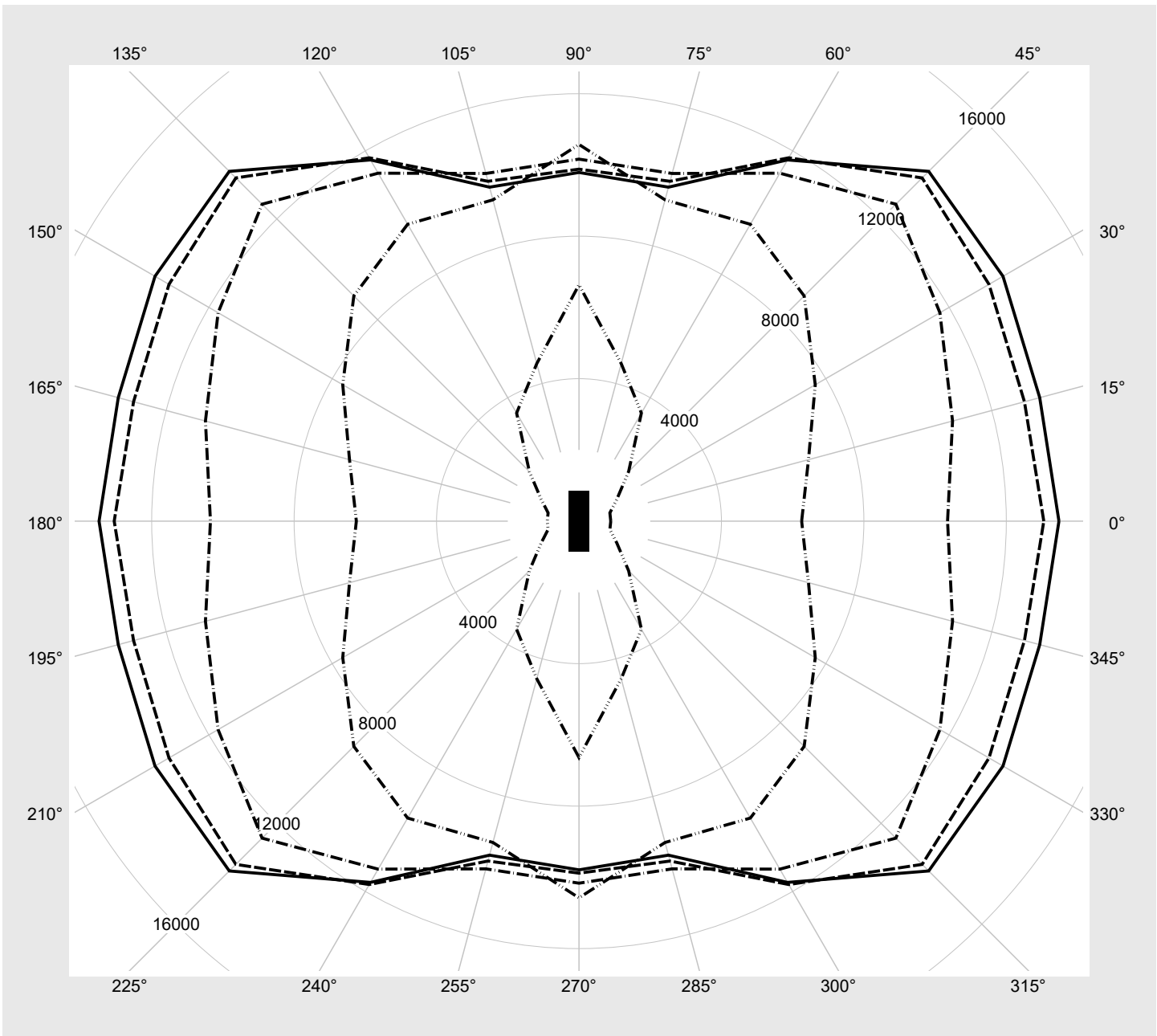
Photometric test report

Family
Highbay 11

Order number: 51HLA1D14GLA
EAN: 4058352361429

LP number
58918_12

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



Photometric test report

Family Highbay 11	Order number: 51HLA1D14GLA EAN: 4058352361429	LP number 58918_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	16190	94.9
95	240	252	15360	89.5
90	227	250	14579	84.6
85	213	247	13733	79.3
80	200	245	12940	74.3
75	187	243	12138	69.5
70	174	240	11331	64.7
65	161	237	10516	59.9
60	148	234	9696	55.2
55	136	231	8929	50.7
50	123	227	8095	46.0
45	110	224	7253	41.4
40	98	220	6470	37.1
35	86	215	5682	32.8
30	74	210	4886	28.6
25	61	204	4019	24.1
20	49	197	3212	19.8
15	37	188	2400	15.6
10	26	177	1647	11.7
5	14	161	822	7.4