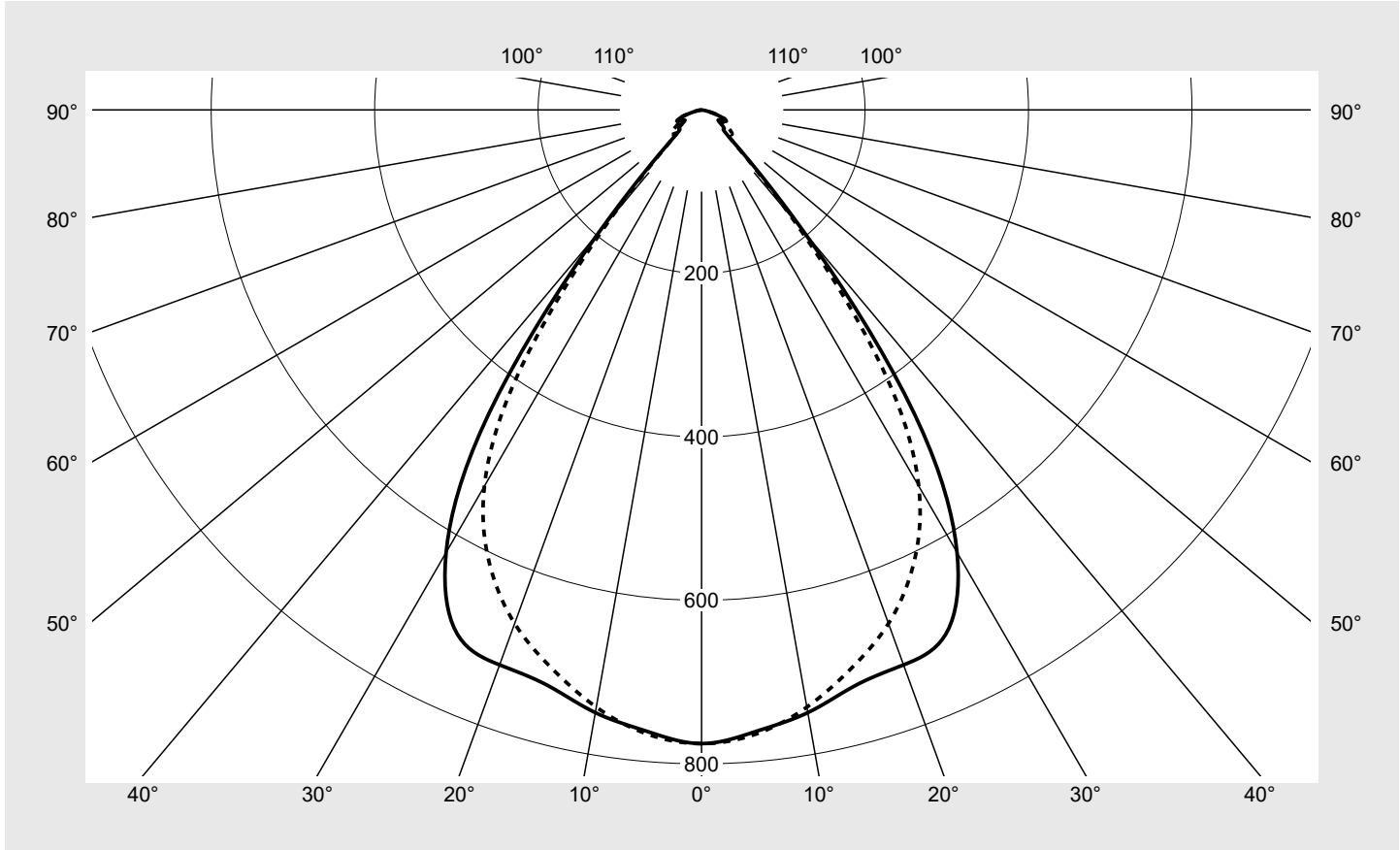


Photometric test report

Family Highbay 11	Order number: 51HLASD14FGA EAN: 4058352367407	LP number 58922_16
	Version wide distribution, UGR≤22 Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 14400 lm Power consumption = 81.3 W Luminous efficacy = 177.1 lm/W	serial documentation 07.01.2020
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 775 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=89 N2=96 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: 51HLASD14FGA EAN: 4058352367407	LP number 58922_16
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°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	4.6	4.6
5°	763.3	765.5	767.8	768.1	766.5	768.2	766.4	36.6	41.3
10°	748.7	752.6	756.7	755.9	749.0	745.7	741.9	71.5	112.7
15°	728.8	736.6	748.6	748.7	732.9	716.3	707.4	104.1	216.8
20°	722.5	731.1	745.9	741.9	711.6	682.4	668.7	134.6	351.4
25°	707.4	710.1	723.4	713.1	669.4	627.0	613.5	158.4	509.9
30°	625.1	622.7	643.6	650.9	594.8	541.3	531.4	165.9	675.7
35°	454.3	465.0	515.3	546.7	478.1	404.7	385.8	148.3	824.0
40°	194.7	222.6	276.1	324.0	261.7	198.8	171.4	86.1	910.1
45°	52.4	51.4	56.0	64.9	54.8	51.5	51.3	21.3	931.5
50°	36.0	31.0	27.7	34.1	33.7	39.2	46.8	14.5	946.0
55°	27.7	25.7	21.5	23.0	24.8	33.2	42.0	12.2	958.2
60°	24.8	27.6	25.1	19.0	18.2	24.5	32.6	11.3	969.5
65°	33.0	23.0	22.5	18.8	16.0	23.0	31.5	11.2	980.7
70°	25.9	19.0	18.9	17.8	15.3	19.4	28.1	10.1	990.8
75°	12.6	8.9	10.2	12.8	12.0	13.0	13.0	6.1	996.9
80°	3.5	3.2	4.0	5.1	6.3	6.1	5.9	2.6	999.6
85°	0.3	0.3	0.4	0.5	1.1	1.3	1.4	0.4	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: 51HLASD14FGA EAN: 4058352367407	LP number 58922_16
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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	20.4	21.7	20.7	22.0	22.3	19.9	21.2	20.2	21.5	21.8
	3H	20.8	21.9	21.2	22.3	22.6	20.4	21.5	20.8	21.9	22.2
	4H	20.9	22.0	21.3	22.3	22.7	20.6	21.7	21.0	22.0	22.4
	6H	20.9	21.9	21.4	22.2	22.6	20.7	21.6	21.1	22.0	22.4
	8H	21.0	21.8	21.4	22.2	22.6	20.8	21.6	21.2	22.0	22.4
	12H	21.0	21.7	21.4	22.1	22.5	20.8	21.5	21.2	21.9	22.3
4H	2H	20.3	21.4	20.7	21.7	22.1	19.8	20.8	20.2	21.2	21.6
	3H	20.9	21.7	21.3	22.1	22.5	20.4	21.3	20.9	21.7	22.1
	4H	21.0	21.8	21.5	22.2	22.6	20.7	21.5	21.2	21.9	22.4
	6H	21.0	21.7	21.5	22.1	22.6	20.9	21.5	21.4	22.0	22.4
	8H	21.0	21.6	21.5	22.0	22.5	20.9	21.5	21.4	21.9	22.4
	12H	21.0	21.5	21.5	21.9	22.4	20.9	21.4	21.4	21.9	22.4
8H	4H	21.0	21.6	21.5	22.1	22.6	20.8	21.4	21.3	21.8	22.3
	6H	21.0	21.5	21.5	22.0	22.5	21.0	21.5	21.5	21.9	22.4
	8H	21.0	21.4	21.5	21.9	22.5	21.0	21.4	21.5	21.9	22.4
	12H	21.0	21.3	21.5	21.8	22.4	21.0	21.3	21.5	21.8	22.4
12H	4H	21.1	21.5	21.5	22.0	22.5	20.8	21.3	21.3	21.7	22.2
	6H	21.1	21.4	21.6	21.9	22.5	21.0	21.4	21.5	21.9	22.4
	8H	21.0	21.4	21.5	21.9	22.4	21.0	21.3	21.5	21.8	22.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 300 B = 320
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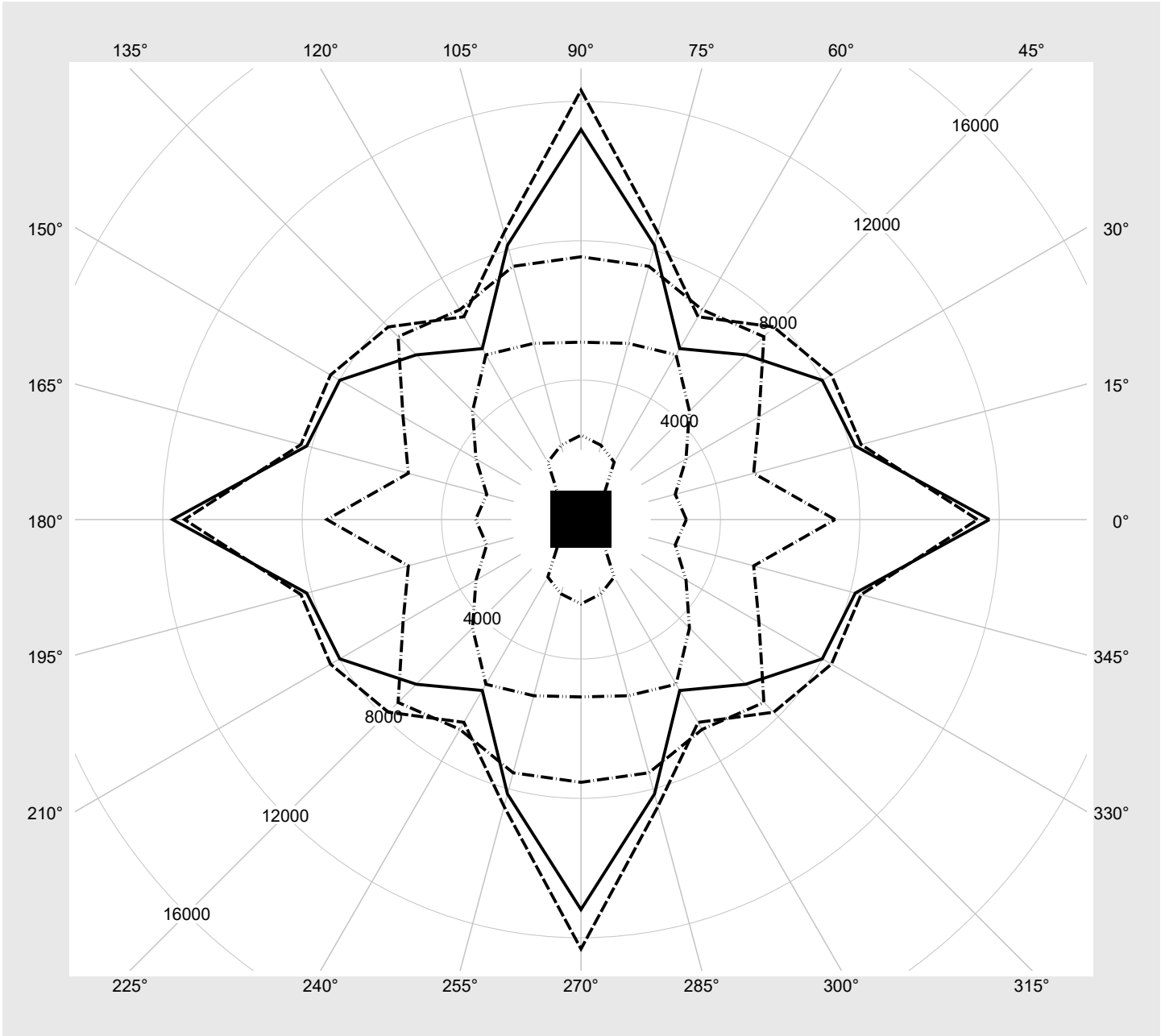
C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		11110.2	10907.8	11880.5	13759.5	11629.9	10932.0	10874.7
50°		8401.1	7241.6	6475.2	7965.0	7871.0	9143.0	10910.0
55°		7239.3	6717.6	5619.2	6027.7	6475.7	8675.8	10983.5
60°		7439.1	8294.1	7528.2	5711.1	5454.9	7355.4	9772.5
65°		11718.7	8148.5	7993.7	6684.0	5664.3	8151.0	11191.0
70°		11375.2	8319.2	8298.6	7817.5	6719.8	8525.8	12320.3
75°		7290.8	5129.1	5896.4	7421.8	6952.3	7523.2	7540.0
80°		3023.4	2799.6	3479.4	4400.3	5457.6	5233.9	5089.6
85°		530.1	521.5	611.0	889.8	1903.5	2208.1	2421.5

Photometric test report

Family Highbay 11	Order number: 51HLASD14FGA EAN: 4058352367407	LP number 58922_16
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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: 51HLASD14FGA EAN: 4058352367407	LP number 58922_16
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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	14400	81.3
95	241	252	13703	77.1
90	227	250	12946	72.5
85	214	248	12241	68.4
80	201	245	11528	64.2
75	188	243	10811	60.1
70	175	240	10091	56.0
65	162	238	9358	51.9
60	149	234	8626	47.9
55	137	231	7946	44.2
50	124	228	7202	40.2
45	111	224	6456	36.2
40	99	219	5758	32.5
35	87	215	5058	28.9
30	74	209	4296	24.9
25	62	202	3588	21.3
20	50	194	2874	17.7
15	38	184	2156	14.0
10	26	171	1430	10.4
5	14	148	703	6.8
1	5	110	155	4.1