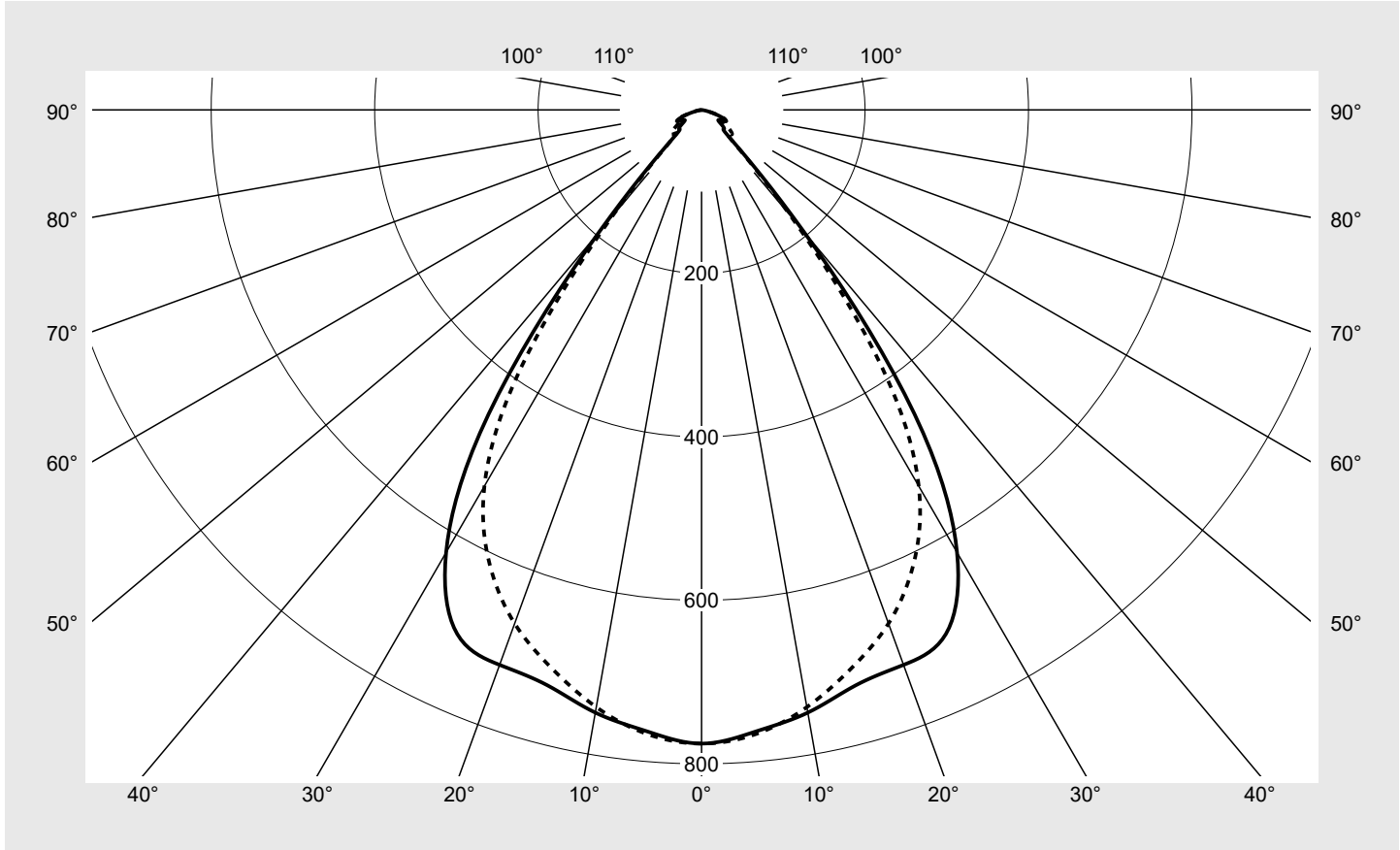


Photometric test report

Family Highbay 11	Order number: 51HLA2D14GLA EAN: 4058352361467	LP number 58922_18
Version	wide distribution, UGR≤22	serial documentation 31.03.2020
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 16580 lm Power consumption = 94.8 W Luminous efficacy = 174.9 lm/W	



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: 51HLA2D14GLA EAN: 4058352361467	LP number 58922_18
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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°	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: 51HLA2D14GLA EAN: 4058352361467	LP number 58922_18
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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	20.9	22.2	21.2	22.5	22.8	20.4	21.7	20.7	22.0	22.3
	3H	21.3	22.4	21.7	22.8	23.1	20.9	22.0	21.3	22.4	22.7
	4H	21.4	22.5	21.8	22.8	23.2	21.1	22.2	21.5	22.5	22.9
	6H	21.4	22.4	21.8	22.7	23.1	21.2	22.1	21.6	22.5	22.9
	8H	21.5	22.3	21.9	22.7	23.1	21.3	22.1	21.7	22.5	22.9
	12H	21.5	22.2	21.9	22.6	23.0	21.3	22.0	21.7	22.4	22.8
4H	2H	20.8	21.8	21.2	22.2	22.6	20.3	21.3	20.7	21.7	22.1
	3H	21.4	22.2	21.8	22.6	23.0	20.9	21.8	21.3	22.2	22.6
	4H	21.5	22.3	22.0	22.7	23.1	21.2	22.0	21.7	22.4	22.9
	6H	21.5	22.2	22.0	22.6	23.1	21.4	22.0	21.8	22.5	22.9
	8H	21.5	22.1	22.0	22.5	23.0	21.4	22.0	21.9	22.4	22.9
	12H	21.5	22.0	22.0	22.4	22.9	21.4	21.9	21.9	22.4	22.9
8H	4H	21.5	22.1	22.0	22.6	23.0	21.3	21.9	21.7	22.3	22.8
	6H	21.5	22.0	22.0	22.5	23.0	21.5	21.9	22.0	22.4	22.9
	8H	21.5	21.9	22.0	22.4	22.9	21.5	21.9	22.0	22.4	22.9
	12H	21.5	21.8	22.0	22.3	22.9	21.5	21.8	22.0	22.3	22.9
12H	4H	21.5	22.0	22.0	22.5	23.0	21.3	21.8	21.8	22.2	22.7
	6H	21.6	21.9	22.1	22.4	23.0	21.5	21.8	22.0	22.3	22.9
	8H	21.5	21.8	22.0	22.3	22.9	21.5	21.8	22.0	22.3	22.9

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° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45°		12792.2	12559.2	13679.0	15842.6	13390.6	12587.0	12521.1
50°		9673.0	8337.9	7455.5	9170.8	9062.5	10527.1	12561.6
55°		8335.3	7734.6	6469.9	6940.2	7456.0	9989.3	12646.2
60°		8565.3	9549.7	8667.9	6575.7	6280.7	8468.9	11251.9
65°		13492.8	9382.1	9203.9	7695.9	6521.8	9384.9	12885.1
70°		13097.3	9578.7	9555.0	9001.0	7737.1	9816.5	14185.5
75°		8394.6	5905.5	6789.0	8545.4	8004.9	8662.1	8681.5
80°		3481.1	3223.5	4006.2	5066.4	6283.8	6026.2	5860.1
85°		610.3	600.4	703.5	1024.5	2191.7	2542.4	2788.1

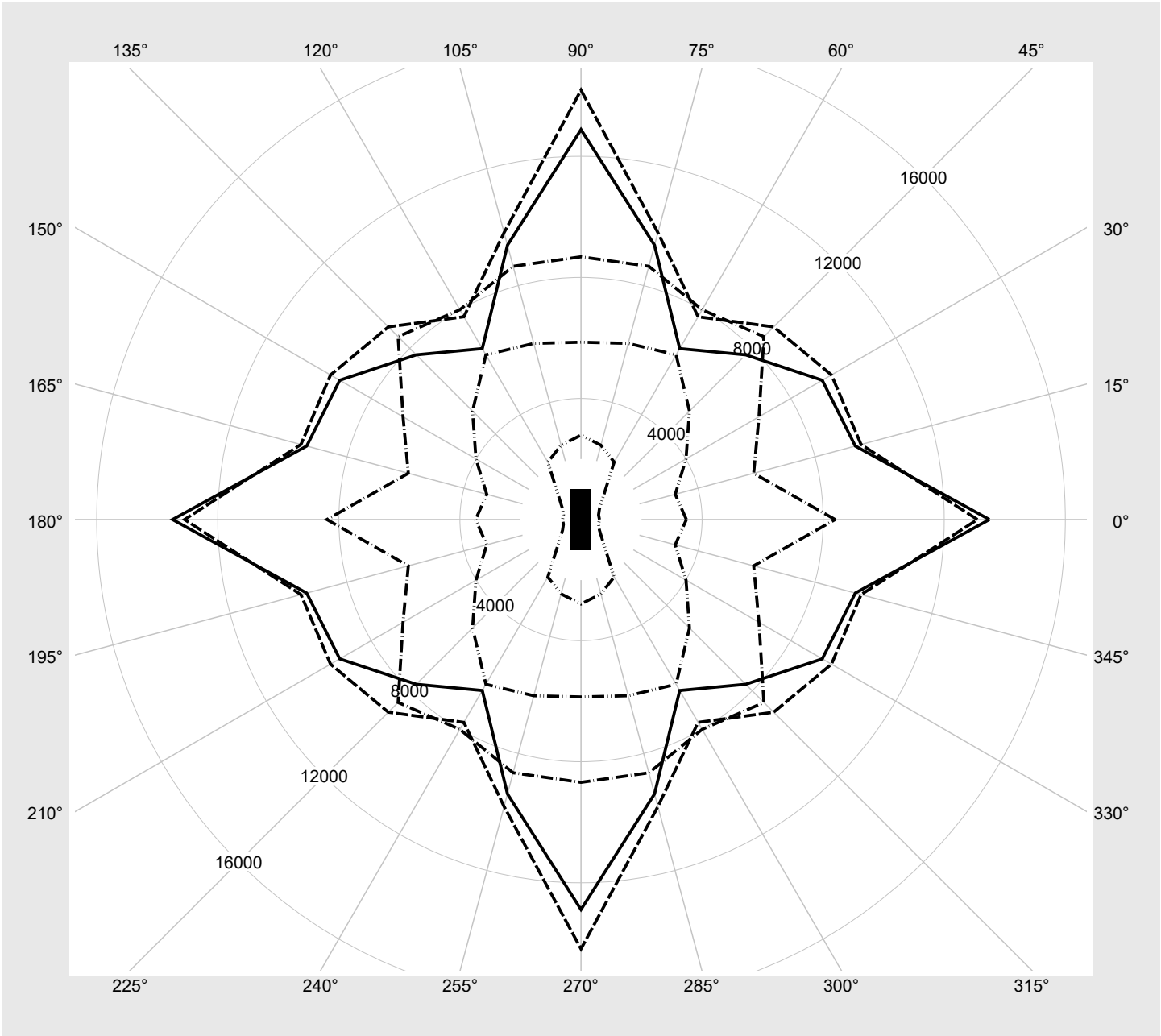
Photometric test report

Family Highbay 11	Order number: 51HLA2D14GLA EAN: 4058352361467	LP number 58922_18
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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: 51HLA2D14GLA EAN: 4058352361467	LP number 58922_18
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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	16580	94.8
95	240	252	15730	89.5
90	227	250	14930	84.6
85	213	247	14064	79.3
80	200	245	13251	74.3
75	187	243	12430	69.5
70	174	240	11604	64.7
65	161	237	10769	59.9
60	148	234	9930	55.2
55	136	231	9144	50.7
50	123	228	8290	46.0
45	110	224	7428	41.4
40	98	220	6626	37.1
35	86	215	5819	32.8
30	74	210	5003	28.6
25	61	204	4116	24.1
20	49	197	3290	19.8
15	37	188	2458	15.6
10	26	177	1686	11.7
5	14	161	842	7.4