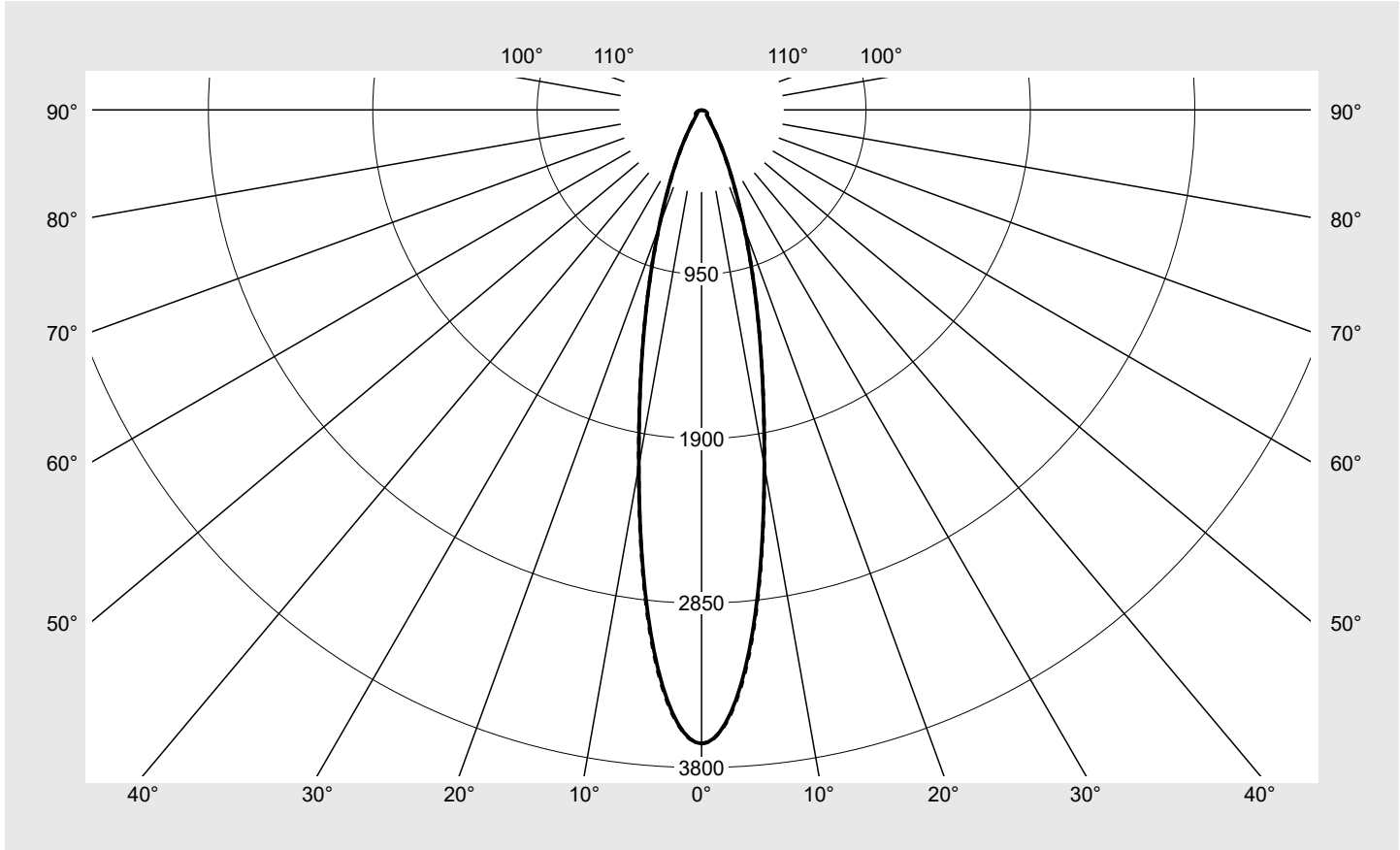


Photometric test report

Family Highbay 21	Order number: 51HLA1D24MLB EAN: 4058352417911	LP number 58918_16
	Version narrow distribution, UGR≤22 Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI	serial documentation 01.07.2020
	Rated values Net luminous flux = 26940 lm Power consumption = 171.1 W Luminous efficacy = 157.5 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 21	Order number: 51HLA1D24MLB EAN: 4058352417911	LP number 58918_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°	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 21	Order number: 51HLA1D24MLB EAN: 4058352417911	LP number 58918_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	16.6	17.7	16.9	18.0	18.3	15.3	16.5	15.7	16.8	17.1
	3H	18.5	19.4	18.9	19.8	20.1	16.9	17.9	17.3	18.2	18.6
	4H	19.0	19.9	19.4	20.3	20.7	17.6	18.5	18.0	18.9	19.3
	6H	19.3	20.1	19.7	20.5	20.9	18.3	19.1	18.7	19.5	19.9
	8H	19.4	20.1	19.8	20.4	20.8	18.6	19.3	19.0	19.7	20.1
	12H	19.3	20.0	19.7	20.4	20.8	18.7	19.3	19.1	19.7	20.1
4H	2H	17.4	18.3	17.8	18.6	19.0	16.5	17.4	16.9	17.8	18.1
	3H	19.4	20.1	19.8	20.5	20.9	18.2	19.0	18.6	19.4	19.8
	4H	20.0	20.7	20.5	21.1	21.6	19.0	19.7	19.4	20.1	20.5
	6H	20.3	20.9	20.8	21.3	21.8	19.7	20.3	20.1	20.7	21.2
	8H	20.4	20.9	20.8	21.3	21.8	19.9	20.4	20.4	20.9	21.4
	12H	20.3	20.8	20.8	21.2	21.7	20.0	20.4	20.5	20.9	21.4
8H	4H	20.3	20.8	20.8	21.3	21.8	19.5	20.0	19.9	20.4	20.9
	6H	20.7	21.1	21.2	21.6	22.1	20.3	20.6	20.8	21.1	21.6
	8H	20.7	21.1	21.2	21.6	22.1	20.5	20.8	21.0	21.3	21.8
	12H	20.6	21.0	21.2	21.5	22.0	20.5	20.8	21.1	21.4	21.9
12H	4H	20.3	20.8	20.8	21.2	21.7	19.5	19.9	19.9	20.4	20.9
	6H	20.7	21.1	21.2	21.5	22.1	20.2	20.6	20.7	21.1	21.6
	8H	20.7	21.0	21.2	21.5	22.1	20.5	20.8	21.0	21.3	21.8

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 600	B = 320
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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°		8168.6	8089.3	8916.1	10099.2	9964.5	9447.9	9226.1	
50°		9024.4	9154.3	10076.6	10677.3	8899.8	7231.6	7092.8	
55°		10111.2	10297.3	11064.7	10557.6	8798.0	7285.5	7324.9	
60°		10948.0	10999.7	11354.1	11118.4	9379.9	7689.7	7723.6	
65°		11213.6	11144.5	11439.0	11554.9	9743.1	8076.8	8144.8	
70°		10859.6	10774.7	11061.5	11338.0	9800.0	8218.9	8221.7	
75°		8611.1	9035.6	9736.6	10470.6	9385.3	8407.8	8456.1	
80°		5202.1	5551.1	6373.7	7440.3	8007.6	7770.0	8798.6	
85°		742.2	747.0	1020.7	1640.5	2915.5	3810.6	5522.0	

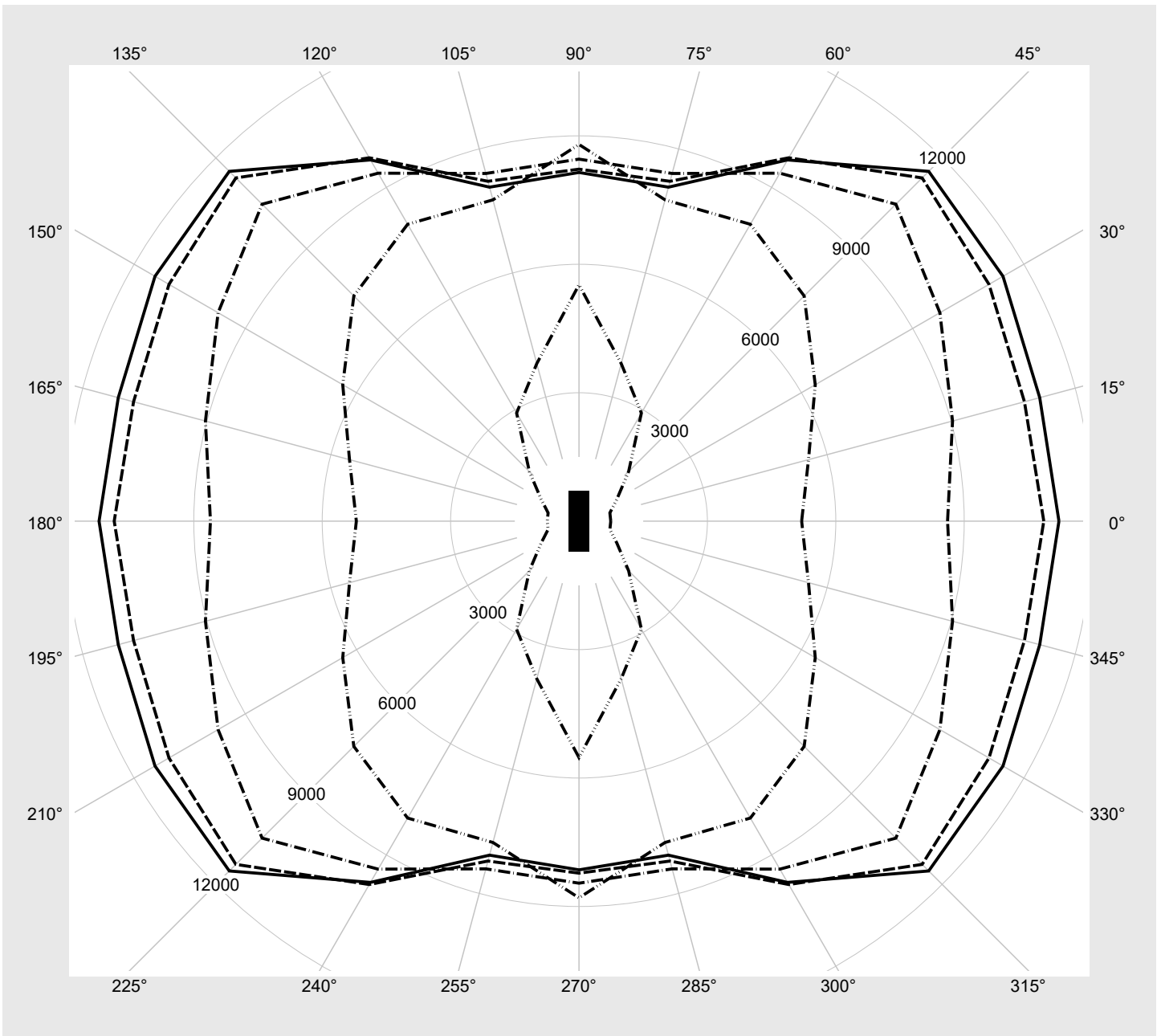
Photometric test report

Family
Highbay 21

Order number: 51HLA1D24MLB
EAN: 4058352417911

LP number
58918_16

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



Photometric test report

Family Highbay 21	Order number: 51HLA1D24MLB EAN: 4058352417911	LP number 58918_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	26940	171.1
95	240	252	25583	161.2
90	227	250	24289	152.0
85	213	248	22897	142.3
80	200	245	21588	133.3
75	186	243	20166	123.5
70	173	240	18825	114.7
65	160	237	17476	105.7
60	148	234	16208	97.5
55	135	231	14830	88.6
50	122	227	13438	79.9
45	110	223	12139	71.8
40	97	219	10725	63.2
35	85	214	9410	55.1
30	73	208	8082	47.2
25	61	202	6745	39.4
20	49	194	5395	31.5
15	37	183	4035	23.7
10	25	169	2664	16.0
5	14	148	1398	8.9
1	5	110	355	3.2