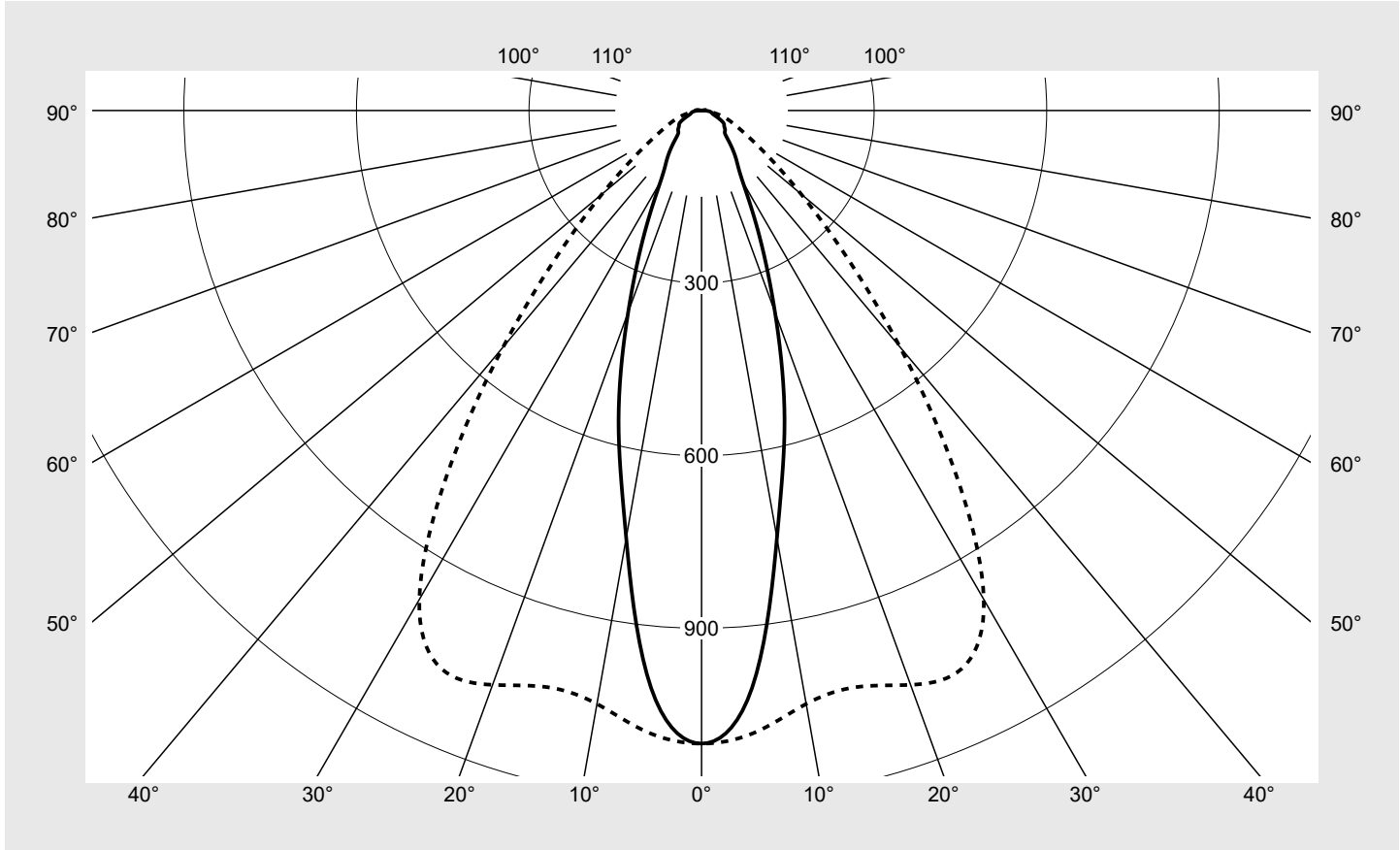


Photometric test report

Family Highbay 11	Order number: 51HLA1D14GLA + 59HL91003 EAN: 4058352361429 + 4058352341667	LP number 58930_10
Version	elliptical distribution, prismatic cover, polycarbonate	serial documentation 31.03.2020
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 14750 lm Power consumption = 94.8 W Luminous efficacy = 155.6 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 1100 cd/klm**



Classifications	
DIN 5040	A 6 1
CIE	N1=74 N2=91 N3=98 N4=99 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	98.8%
ϕ_o	1.2%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Highbay 11	Order number: 51HLA1D14GLA + 59HL91003 EAN: 4058352361429 + 4058352341667	LP number 58930_10
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°	1100.5	1100.5	1100.5	1100.5	1100.5	1100.5	1100.5	6.6	6.6
5°	1007.4	1012.6	1030.5	1050.3	1068.5	1084.3	1084.5	50.1	56.7
10°	754.5	764.3	802.1	872.8	956.7	1027.7	1047.4	84.5	141.2
15°	557.5	566.8	597.7	662.8	799.5	972.3	1037.7	104.0	245.1
20°	373.2	387.0	439.7	525.4	652.3	921.0	1062.4	113.8	358.9
25°	234.3	244.7	292.9	415.1	546.0	840.8	1070.5	115.5	474.5
30°	143.1	148.6	188.3	304.6	469.0	692.1	981.4	108.0	582.5
35°	105.9	103.3	117.7	214.5	378.8	510.3	770.1	92.4	674.8
40°	79.5	80.0	88.5	143.4	282.0	350.9	536.7	73.6	748.4
45°	58.1	60.9	72.4	96.5	198.2	234.0	350.0	55.9	804.4
50°	53.4	54.9	62.4	79.6	138.6	160.8	225.8	44.5	848.9
55°	48.1	50.3	55.7	66.3	98.9	115.0	146.7	36.2	885.1
60°	44.3	43.9	51.1	56.6	71.7	84.2	98.6	30.0	915.0
65°	34.0	35.6	41.1	46.8	54.4	63.8	70.1	24.3	939.4
70°	23.8	24.7	28.7	32.4	37.9	46.9	52.1	17.9	957.3
75°	19.1	18.8	21.0	22.6	25.4	31.6	36.3	13.0	970.3
80°	16.9	16.1	16.8	18.0	17.3	18.3	20.2	9.4	979.7
85°	11.8	11.5	13.4	12.5	10.6	11.0	13.0	6.5	986.2
90°	5.4	6.2	7.4	8.3	6.9	8.0	11.0	4.1	990.3
95°	3.3	4.0	5.5	6.4	5.6	6.3	9.3	3.1	993.4
100°	1.7	2.2	3.2	4.1	3.7	4.3	6.3	1.9	995.3
105°	1.0	1.0	1.4	2.1	2.5	3.4	4.9	1.2	996.5
110°	0.8	0.8	0.9	1.1	1.8	3.1	4.6	0.9	997.4
115°	0.7	0.7	0.7	0.9	1.5	2.8	4.1	0.8	998.2
120°	0.6	0.6	0.6	0.6	1.2	2.0	3.3	0.6	998.7
125°	0.5	0.5	0.5	0.6	1.1	1.4	2.5	0.4	999.1
130°	0.6	0.6	0.7	0.8	1.0	1.2	1.9	0.4	999.5
135°	1.0	1.0	1.1	1.2	1.2	1.3	1.6	0.5	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 + 59HL91003 EAN: 4058352361429 + 4058352341667	LP number 58930_10
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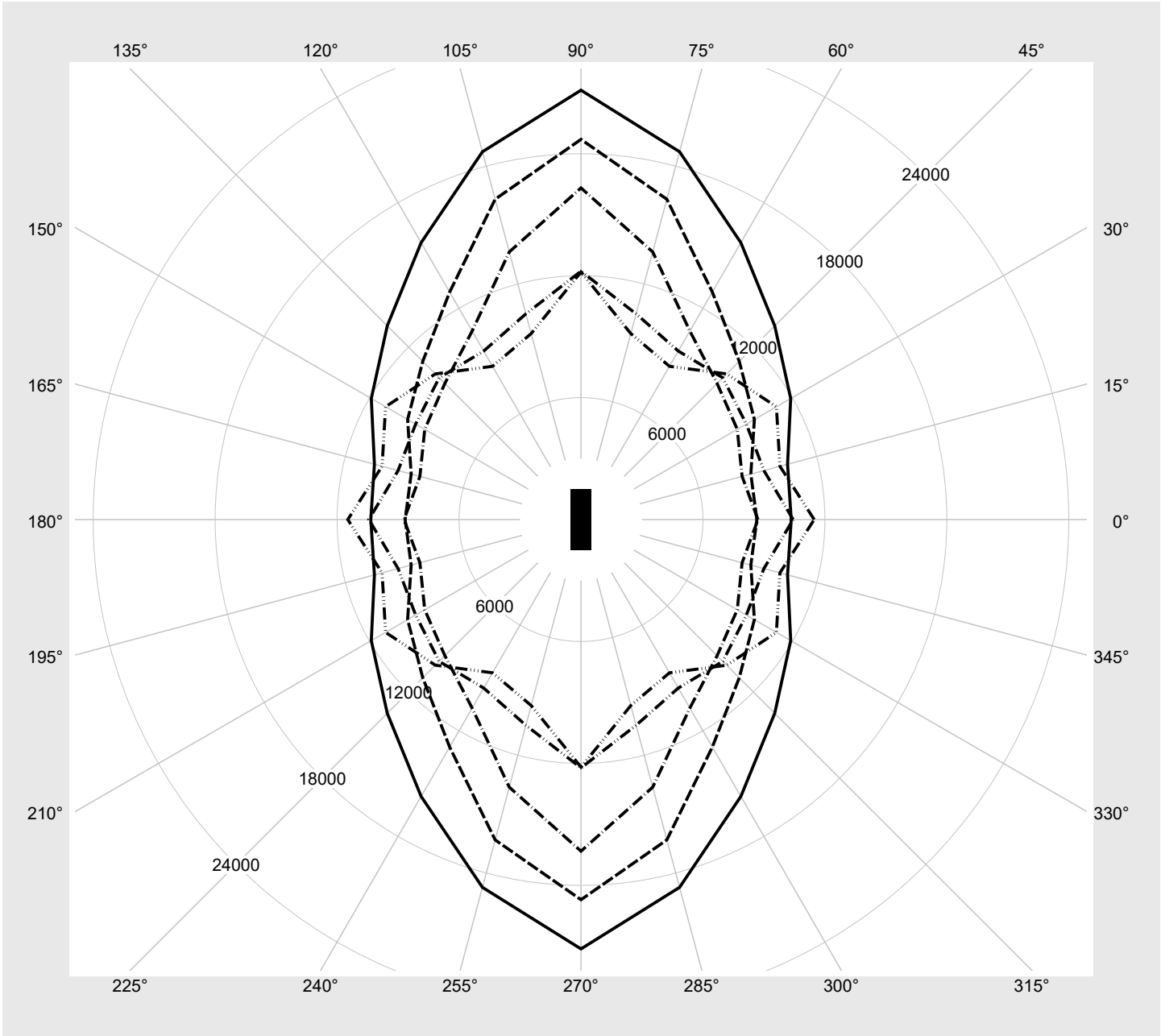
UGR-Table		Standard room									
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	17.6	19.0	18.0	19.3	19.6	24.1	25.4	24.4	25.8	26.1
	3H	18.7	20.0	19.1	20.3	20.7	24.8	26.0	25.2	26.3	26.7
	4H	19.2	20.4	19.6	20.7	21.1	25.1	26.2	25.5	26.5	26.9
	6H	19.8	20.9	20.2	21.3	21.7	25.3	26.3	25.7	26.6	27.0
	8H	20.2	21.2	20.6	21.6	22.0	25.4	26.3	25.9	26.7	27.1
	12H	20.5	21.5	20.9	21.9	22.3	25.5	26.3	26.0	26.7	27.1
4H	2H	18.8	19.8	19.2	20.2	20.6	24.0	25.2	24.4	25.6	25.9
	3H	20.0	20.9	20.4	21.3	21.7	24.8	25.8	25.3	26.2	26.6
	4H	20.5	21.4	20.9	21.8	22.2	25.2	26.1	25.7	26.5	27.0
	6H	21.2	21.9	21.6	22.4	22.8	25.5	26.3	26.0	26.7	27.2
	8H	21.6	22.3	22.0	22.7	23.2	25.7	26.3	26.2	26.8	27.2
	12H	21.9	22.6	22.4	23.0	23.5	25.8	26.4	26.3	26.8	27.3
8H	4H	20.9	21.6	21.4	22.0	22.5	25.2	25.9	25.7	26.4	26.9
	6H	21.8	22.3	22.3	22.8	23.3	25.6	26.2	26.1	26.6	27.1
	8H	22.3	22.8	22.8	23.3	23.8	25.8	26.3	26.3	26.7	27.3
	12H	22.8	23.2	23.3	23.7	24.2	25.9	26.3	26.5	26.9	27.4
12H	4H	21.0	21.5	21.5	22.0	22.5	25.2	25.8	25.7	26.3	26.8
	6H	21.9	22.4	22.4	22.9	23.4	25.6	26.1	26.1	26.6	27.1
	8H	22.5	22.9	23.0	23.4	23.9	25.8	26.2	26.3	26.7	27.3

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 306	H(C0) = 21	H(C180) = 21
						B = 330	H(C90) = 21	H(C270) = 21
C-planes	γ	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	270°
		195°	195°	210°	225°	240°	255°	
		345°	345°	330°	315°	300°	285°	
		Luminance in cd/m ²						
45°		11288.6	11651.3	13727.4	18223.3	37525.6	44639.0	67660.2
50°		11281.7	11393.9	12820.8	16283.8	28412.9	33267.2	47439.1
55°		11224.1	11508.1	12582.6	14905.7	22272.6	26182.7	34034.0
60°		11645.5	11274.4	12929.4	14229.1	18078.4	21513.0	25752.4
65°		10343.3	10522.1	11914.0	13480.6	15731.3	18736.2	21126.2
70°		8652.5	8651.1	9850.2	11010.6	12924.8	16318.5	18706.1
75°		8705.6	8206.2	8878.0	9472.2	10711.8	13632.9	16317.4
80°		10438.5	9316.9	9394.9	9867.7	9574.1	10478.7	12219.8
85°		11474.0	10132.5	11101.8	10135.1	8707.0	9472.9	12182.5

Photometric test report

Family Highbay 11	Order number: 51HLA1D14GLA + 59HL91003 EAN: 4058352361429 + 4058352341667	LP number 58930_10
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Luminance values in cd/m²
γ 65°
γ 70°
γ 75°
γ 80°
γ 85°
siteco



Photometric test report

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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	14750	94.8
95	240	252	13993	89.5
90	227	250	13282	84.6
85	213	247	12512	79.3
80	200	245	11789	74.3
75	187	243	11058	69.5
70	174	240	10323	64.7
65	161	237	9580	59.9
60	148	234	8834	55.2
55	136	231	8134	50.7
50	123	228	7375	46.0
45	110	224	6608	41.4
40	98	220	5895	37.1
35	86	215	5176	32.8
30	74	210	4451	28.6
25	61	204	3662	24.1
20	49	197	2927	19.8
15	37	188	2186	15.6
10	26	177	1500	11.7
5	14	161	749	7.4