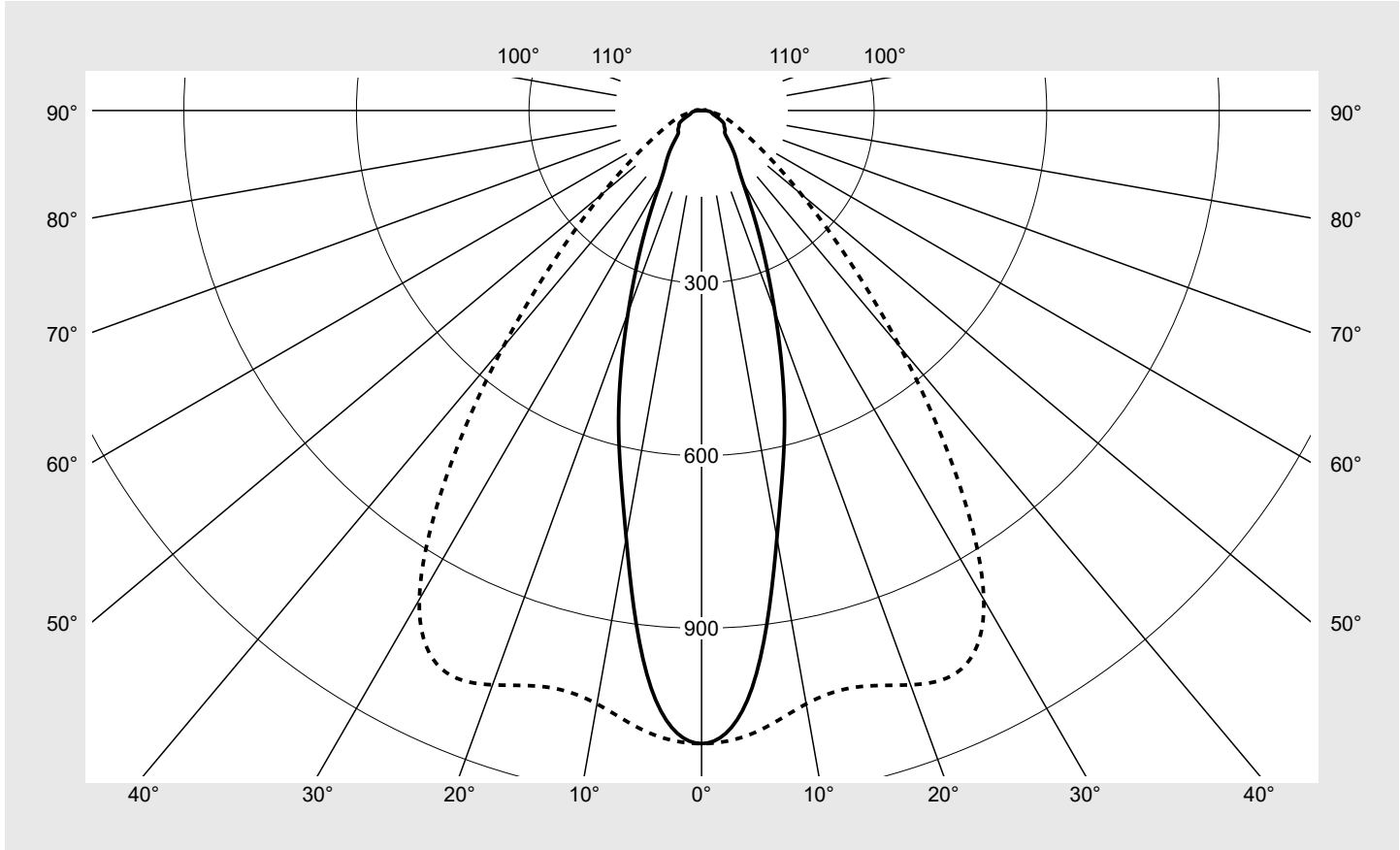


Photometric test report

Family Highbay 11	Order number: 51HLA1D24NLA + 59HL91003 EAN: 4058352361443 + 4058352341667	LP number 58930_11
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 = 29500 lm Power consumption = 189.7 W Luminous efficacy = 155.5 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: 51HLA1D24NLA + 59HL91003 EAN: 4058352361443 + 4058352341667	LP number 58930_11
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: 51HLA1D24NLA + 59HL91003 EAN: 4058352361443 + 4058352341667	LP number 58930_11
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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	17.7	19.0	18.0	19.3	19.7	24.2	25.6	24.5	25.9	26.2
	3H	18.8	20.0	19.2	20.4	20.7	24.9	26.1	25.3	26.5	26.8
	4H	19.3	20.4	19.6	20.8	21.2	25.3	26.3	25.6	26.7	27.1
	6H	19.9	21.0	20.3	21.3	21.7	25.5	26.5	25.9	26.8	27.2
	8H	20.3	21.3	20.7	21.6	22.0	25.6	26.5	26.1	26.9	27.3
	12H	20.6	21.5	21.0	21.9	22.3	25.7	26.5	26.2	26.9	27.3
4H	2H	18.8	19.9	19.2	20.3	20.7	24.1	25.3	24.5	25.7	26.1
	3H	20.0	21.0	20.5	21.4	21.8	25.0	26.0	25.4	26.4	26.8
	4H	20.6	21.4	21.0	21.8	22.3	25.4	26.3	25.9	26.7	27.1
	6H	21.3	22.0	21.7	22.5	22.9	25.7	26.5	26.2	26.9	27.4
	8H	21.6	22.3	22.1	22.8	23.3	25.9	26.5	26.4	27.0	27.5
	12H	22.0	22.6	22.5	23.1	23.6	26.1	26.6	26.6	27.1	27.6
8H	4H	21.0	21.7	21.5	22.1	22.6	25.4	26.1	25.9	26.6	27.0
	6H	21.9	22.4	22.4	22.9	23.4	25.8	26.4	26.3	26.9	27.4
	8H	22.4	22.9	22.9	23.4	23.9	26.0	26.5	26.5	27.0	27.5
	12H	22.9	23.3	23.4	23.8	24.3	26.2	26.6	26.7	27.1	27.7
12H	4H	21.1	21.7	21.6	22.1	22.6	25.4	26.0	25.9	26.5	27.0
	6H	22.1	22.5	22.6	23.0	23.5	25.8	26.3	26.3	26.8	27.3
	8H	22.6	23.0	23.1	23.5	24.1	26.0	26.5	26.5	27.0	27.5

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 612 B = 330	H(C0) = 21 H(C90) = 21	H(C180) = 21 H(C270) = 21
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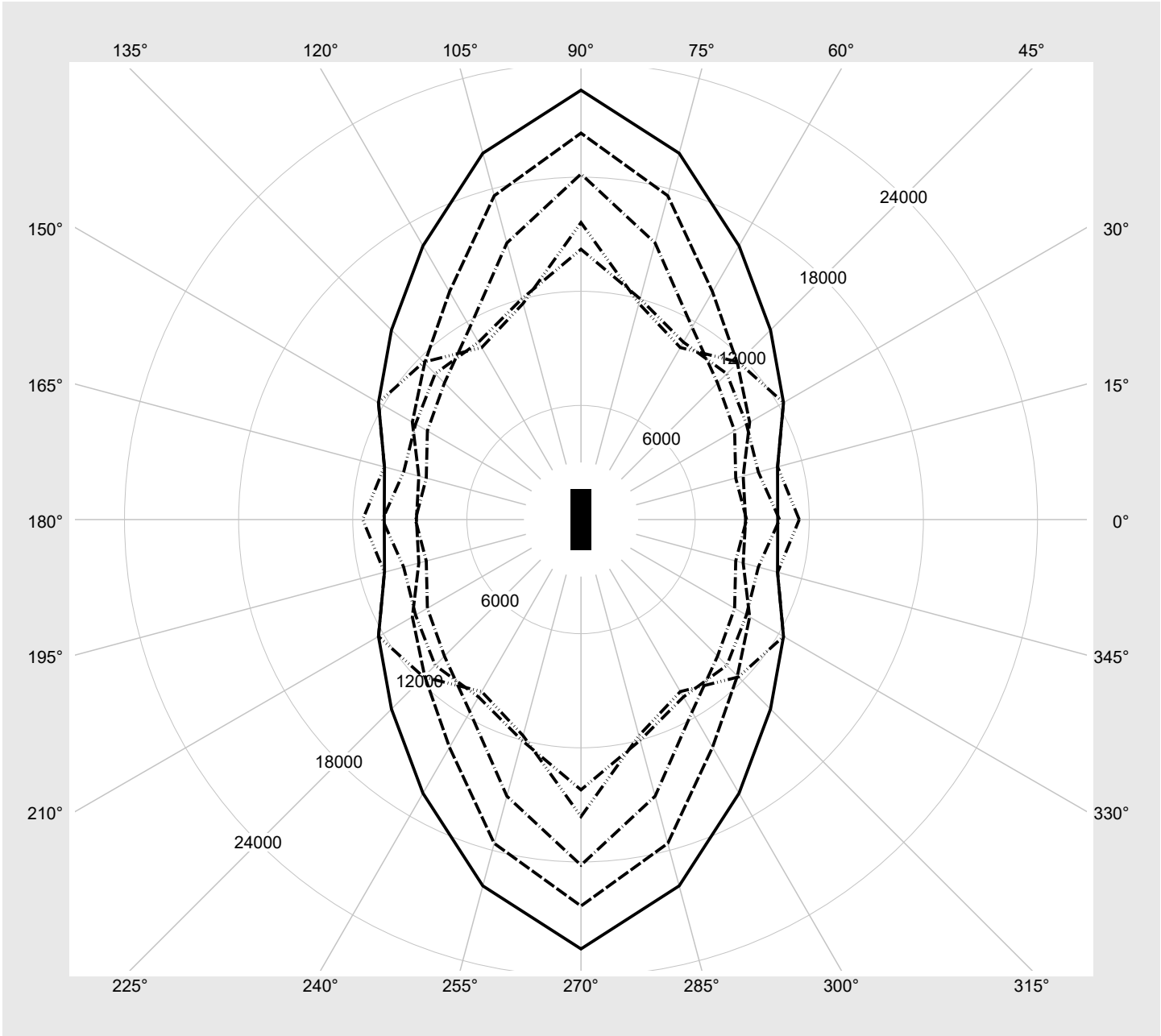
C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m²								
45°		11288.6	11748.0	13947.1	18636.8	38576.1	46048.6	69904.8
50°		11281.7	11505.1	13062.2	16718.7	29350.4	34507.9	49302.9
55°		11224.1	11640.8	12862.1	15375.7	23141.5	27340.1	35624.0
60°		11645.5	11429.0	13270.9	14763.0	18919.3	22650.3	27197.1
65°		10343.3	10696.2	12293.5	14091.4	16616.9	19939.8	22574.3
70°		8652.5	8828.0	10237.6	11627.2	13827.5	17626.3	20317.7
75°		8705.6	8421.6	9325.7	10153.8	11677.9	15055.7	18169.8
80°		10438.5	9652.4	10043.3	10842.6	10770.2	12015.9	14210.4
85°		11474.0	10702.7	12294.1	11703.9	10443.3	11763.0	15614.6

Photometric test report

Family Highbay 11	Order number: 51HLA1D24NLA + 59HL91003 EAN: 4058352361443 + 4058352341667	LP number 58930_11
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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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	29500	189.7
95	240	252	27987	179.0
90	227	250	26565	169.1
85	213	247	25024	158.4
80	200	245	23577	148.6
75	187	243	22116	139.0
70	174	240	20647	129.4
65	161	237	19162	119.8
60	148	234	17668	110.4
55	136	231	16268	101.5
50	123	228	14749	92.1
45	110	224	13216	82.8
40	98	220	11791	74.2
35	86	215	10353	65.6
30	74	210	8903	57.1
25	61	204	7323	48.1
20	49	197	5853	39.6
15	37	188	4373	31.2
10	26	177	3000	23.3
5	14	161	1498	14.9