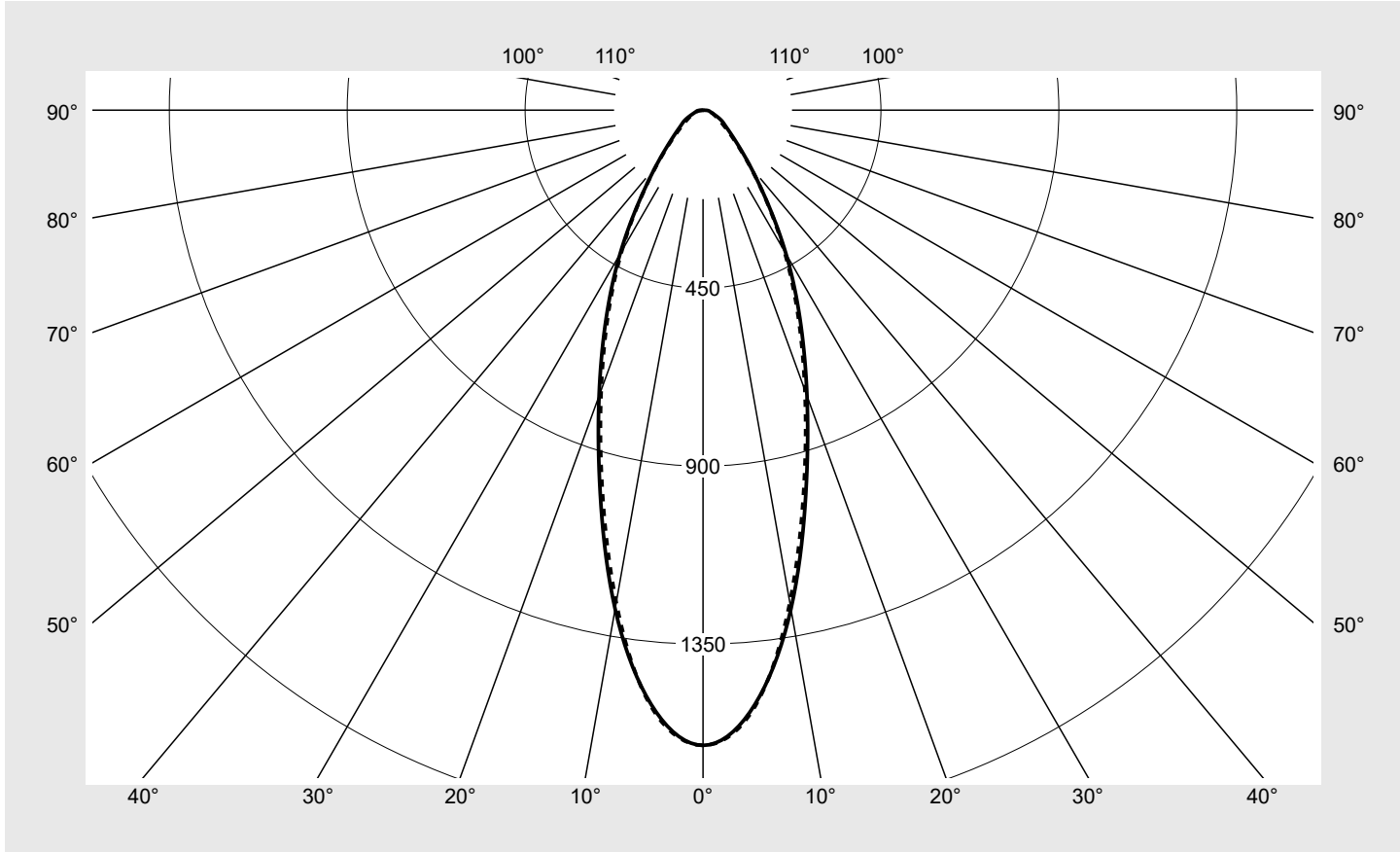


Photometric test report

Family Highbay 11	Order number: 51HLA1D14GLA + 59HL91004 EAN: 4058352361429 + 4058352341674	LP number 58926_10
Version	narrow distribution, UGR≤25, prismatic cover, polycarbonate, LLD	serial documentation 31.03.2020
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 15010 lm Power consumption = 94.8 W Luminous efficacy = 158.3 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 1606 cd/klm**



Classifications	
DIN 5040	A 6 1
CIE	N1=80 N2=93 N3=98 N4=99 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	99.1%
ϕ_o	0.9%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Highbay 11	Order number: 51HLA1D14GLA + 59HL91004 EAN: 4058352361429 + 4058352341674	LP number 58926_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°	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	9.6	9.6
5°	1507.9	1508.7	1512.2	1513.3	1508.7	1511.4	1513.0	72.2	81.8
10°	1280.6	1272.9	1259.5	1248.8	1248.0	1260.8	1264.2	120.0	201.7
15°	1004.5	985.6	950.6	929.5	940.1	972.0	986.2	136.5	338.3
20°	768.9	734.9	677.5	651.2	671.3	724.2	753.2	131.9	470.1
25°	579.4	536.1	467.6	439.1	462.6	526.2	566.8	116.0	586.1
30°	419.8	378.2	316.2	288.9	311.0	371.2	410.7	95.0	681.2
35°	281.6	253.0	209.3	188.3	206.3	251.7	279.5	72.8	753.9
40°	186.8	169.4	140.2	125.9	140.1	168.6	184.1	54.6	808.5
45°	126.3	118.0	99.1	89.3	99.3	113.9	120.8	41.5	850.1
50°	90.6	86.0	74.8	68.1	73.3	80.0	82.7	32.8	882.9
55°	68.9	67.2	61.4	56.4	57.0	58.6	59.3	27.3	910.2
60°	55.5	53.3	51.3	48.2	46.1	44.3	44.2	23.2	933.4
65°	39.9	40.4	40.9	39.4	37.9	35.0	34.2	19.1	952.4
70°	27.7	27.4	28.0	26.9	26.9	26.7	27.3	14.0	966.5
75°	20.8	20.4	20.1	18.4	17.7	18.4	20.0	10.2	976.7
80°	16.9	16.2	16.1	14.4	12.1	10.7	10.9	7.5	984.2
85°	12.6	12.2	12.3	10.2	7.8	6.8	7.3	5.4	989.6
90°	4.9	5.5	6.5	6.9	5.5	5.3	6.3	3.2	992.8
95°	3.0	3.5	4.8	5.4	4.4	4.2	5.3	2.4	995.2
100°	1.8	2.0	2.9	3.6	2.9	2.5	3.1	1.5	996.6
105°	1.4	1.2	1.3	1.8	1.9	1.8	2.1	0.9	997.5
110°	1.1	1.0	0.9	0.8	1.2	1.2	1.9	0.6	998.1
115°	1.0	0.9	0.7	0.6	1.0	0.9	1.7	0.4	998.5
120°	0.8	0.7	0.5	0.5	0.8	0.9	1.5	0.4	998.9
125°	0.6	0.5	0.5	0.5	0.6	0.8	1.2	0.3	999.2
130°	0.8	0.8	0.8	0.8	0.8	1.0	1.1	0.4	999.5
135°	1.2	1.2	1.2	1.2	1.2	1.2	1.3	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 + 59HL91004 EAN: 4058352361429 + 4058352341674	LP number 58926_10
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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	19.9	21.1	20.2	21.5	21.8	19.3	20.6	19.7	20.9	21.2
	3H	20.7	21.8	21.0	22.1	22.5	20.1	21.3	20.5	21.6	21.9
	4H	21.0	22.1	21.4	22.4	22.8	20.5	21.5	20.9	21.9	22.3
	6H	21.4	22.4	21.8	22.8	23.1	20.7	21.7	21.1	22.1	22.5
	8H	21.7	22.6	22.2	23.0	23.4	20.9	21.7	21.3	22.1	22.5
	12H	22.0	22.8	22.4	23.1	23.6	21.0	21.7	21.4	22.1	22.6
4H	2H	20.2	21.2	20.6	21.6	21.9	19.7	20.7	20.1	21.1	21.5
	3H	21.1	22.0	21.6	22.4	22.8	20.7	21.5	21.1	21.9	22.4
	4H	21.6	22.4	22.0	22.8	23.2	21.1	21.9	21.6	22.3	22.7
	6H	22.2	22.8	22.6	23.3	23.7	21.4	22.1	21.9	22.5	23.0
	8H	22.5	23.1	23.0	23.5	24.0	21.6	22.2	22.0	22.6	23.1
	12H	22.8	23.3	23.3	23.8	24.3	21.7	22.2	22.2	22.7	23.2
8H	4H	21.7	22.3	22.2	22.8	23.3	21.3	21.9	21.8	22.3	22.8
	6H	22.5	22.9	22.9	23.4	23.9	21.7	22.2	22.2	22.7	23.2
	8H	22.9	23.3	23.4	23.8	24.3	21.9	22.3	22.4	22.8	23.3
	12H	23.4	23.7	23.9	24.2	24.8	22.1	22.4	22.6	22.9	23.5
12H	4H	21.8	22.3	22.3	22.7	23.2	21.3	21.8	21.8	22.3	22.8
	6H	22.5	22.9	23.0	23.4	23.9	21.8	22.2	22.3	22.7	23.2
	8H	23.0	23.3	23.5	23.8	24.4	22.0	22.4	22.5	22.9	23.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 306 B = 330	H(C0) = 21 H(C90) = 21	H(C180) = 21 H(C270) = 21
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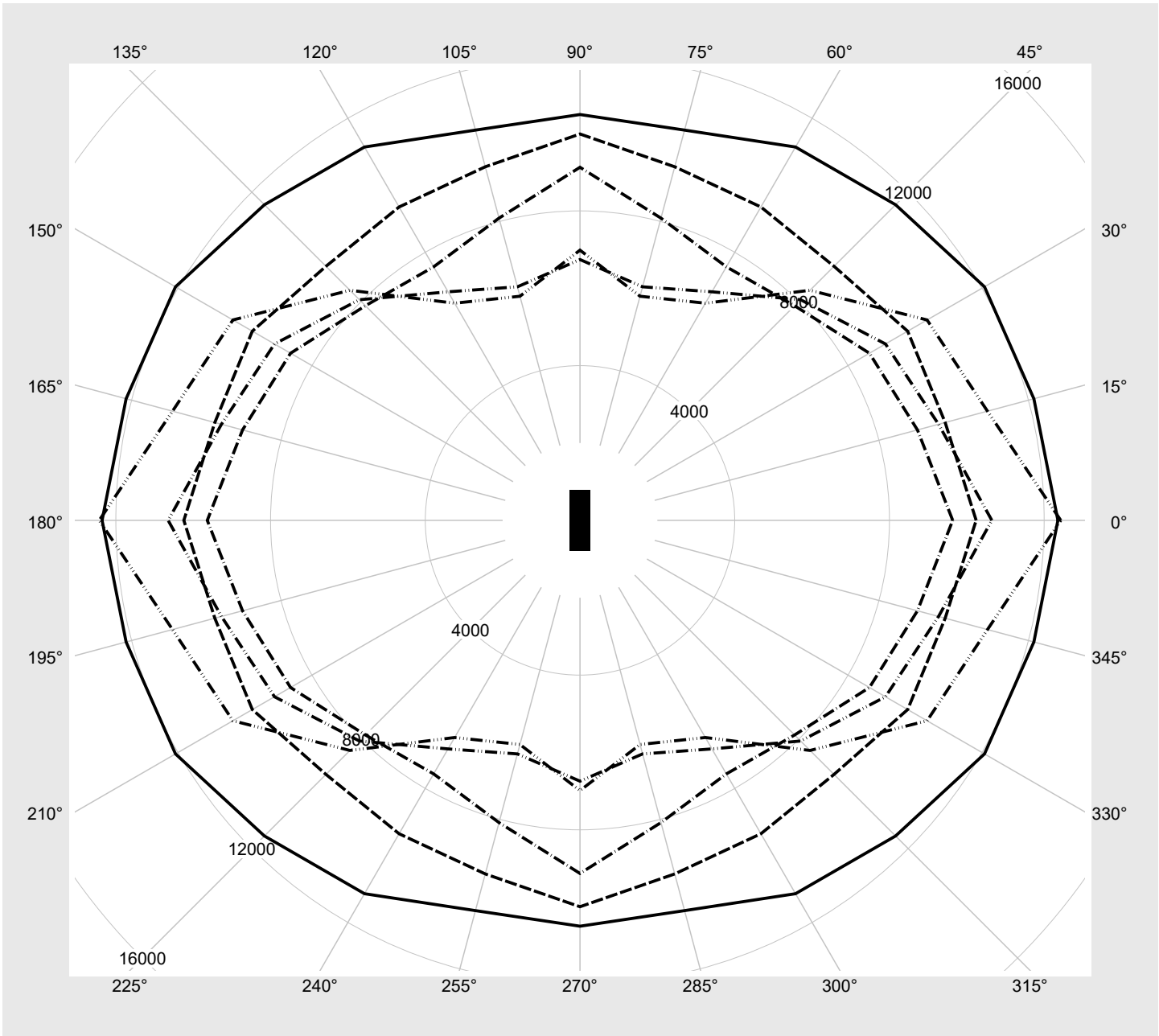
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		24967.0	22987.1	19126.6	17157.1	19121.9	22111.3	23760.2	
50°		19478.7	18163.3	15624.6	14163.8	15291.9	16831.2	17675.4	
55°		16366.8	15654.5	14117.3	12896.2	13066.7	13569.7	13986.5	
60°		14848.0	13943.8	13215.7	12330.3	11821.9	11515.8	11733.7	
65°		12355.6	12148.2	12075.3	11538.3	11143.8	10444.3	10491.2	
70°		10242.1	9774.0	9781.7	9287.8	9354.3	9462.4	9988.0	
75°		9636.0	9032.1	8641.0	7846.0	7568.0	8088.6	9127.3	
80°		10647.7	9596.9	9119.7	8066.1	6822.0	6250.4	6742.3	
85°		12429.6	10906.3	10361.3	8411.3	6482.2	5998.3	6984.8	

Photometric test report

Family Highbay 11	Order number: 51HLA1D14GLA + 59HL91004 EAN: 4058352361429 + 4058352341674	LP number 58926_10
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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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	15010	94.9
95	240	252	14240	89.5
90	227	250	13516	84.6
85	213	247	12732	79.3
80	200	245	11997	74.3
75	187	243	11253	69.5
70	174	240	10505	64.7
65	161	237	9749	59.9
60	148	234	8990	55.2
55	136	231	8278	50.7
50	123	227	7505	46.0
45	110	224	6724	41.4
40	98	220	5999	37.1
35	86	215	5268	32.8
30	74	210	4530	28.6
25	61	204	3726	24.1
20	49	197	2978	19.8
15	37	188	2225	15.6
10	26	177	1527	11.7
5	14	161	762	7.4