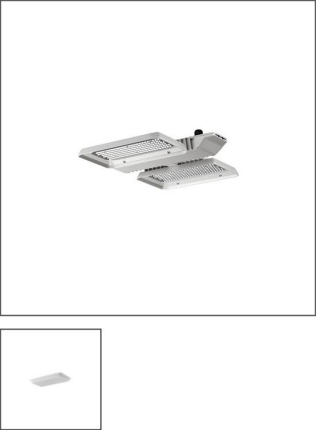
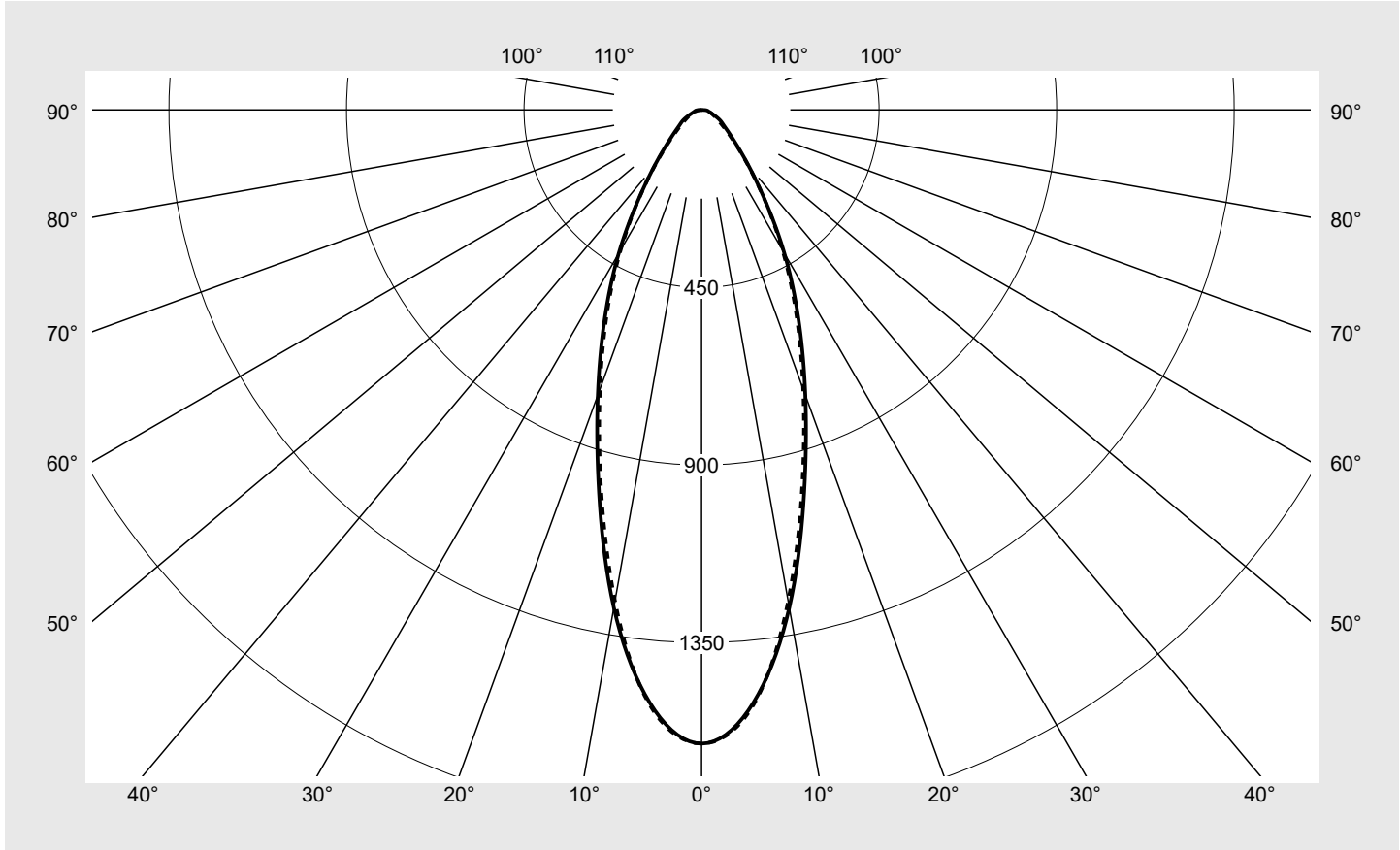


Photometric test report

Family Highbay 11	Order number: 51HLA1D14FCA + 59HL91004 EAN: 4058352321720 + 4058352341674	LP number 58926_2
	Version narrow distribution, UGR≤22, prismatic cover, polycarbonate, LLD	serial documentation 13.06.2019
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 13040 lm Power consumption = 81.2 W Luminous efficacy = 160.6 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 I_{max}: 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: 51HLA1D14FCA + 59HL91004 EAN: 4058352321720 + 4058352341674	LP number 58926_2
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: 51HLA1D14FCA + 59HL91004 EAN: 4058352321720 + 4058352341674	LP number 58926_2
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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	19.4	20.7	19.7	21.0	21.3	18.8	20.1	19.2	20.4	20.7
	3H	20.2	21.3	20.6	21.7	22.0	19.6	20.8	20.0	21.1	21.5
	4H	20.5	21.6	20.9	21.9	22.3	20.0	21.1	20.4	21.4	21.8
	6H	20.9	21.9	21.4	22.3	22.7	20.2	21.2	20.7	21.6	22.0
	8H	21.3	22.1	21.7	22.5	22.9	20.4	21.2	20.8	21.6	22.0
	12H	21.5	22.3	21.9	22.7	23.1	20.5	21.3	20.9	21.6	22.1
4H	2H	19.7	20.7	20.1	21.1	21.5	19.2	20.3	19.6	20.6	21.0
	3H	20.6	21.5	21.1	21.9	22.3	20.2	21.1	20.6	21.4	21.9
	4H	21.1	21.9	21.6	22.3	22.7	20.6	21.4	21.1	21.8	22.3
	6H	21.7	22.3	22.1	22.8	23.2	20.9	21.6	21.4	22.1	22.5
	8H	22.0	22.6	22.5	23.0	23.5	21.1	21.7	21.5	22.1	22.6
	12H	22.3	22.9	22.8	23.3	23.8	21.2	21.7	21.7	22.2	22.7
8H	4H	21.3	21.9	21.7	22.3	22.8	20.8	21.4	21.3	21.8	22.3
	6H	22.0	22.5	22.5	22.9	23.4	21.2	21.7	21.7	22.2	22.7
	8H	22.4	22.8	22.9	23.3	23.8	21.4	21.8	21.9	22.3	22.8
	12H	22.9	23.2	23.4	23.7	24.3	21.6	21.9	22.1	22.4	23.0
12H	4H	21.3	21.8	21.8	22.2	22.7	20.8	21.4	21.3	21.8	22.3
	6H	22.0	22.4	22.5	22.9	23.4	21.3	21.7	21.8	22.2	22.7
	8H	22.5	22.8	23.0	23.4	23.9	21.5	21.9	22.0	22.4	22.9

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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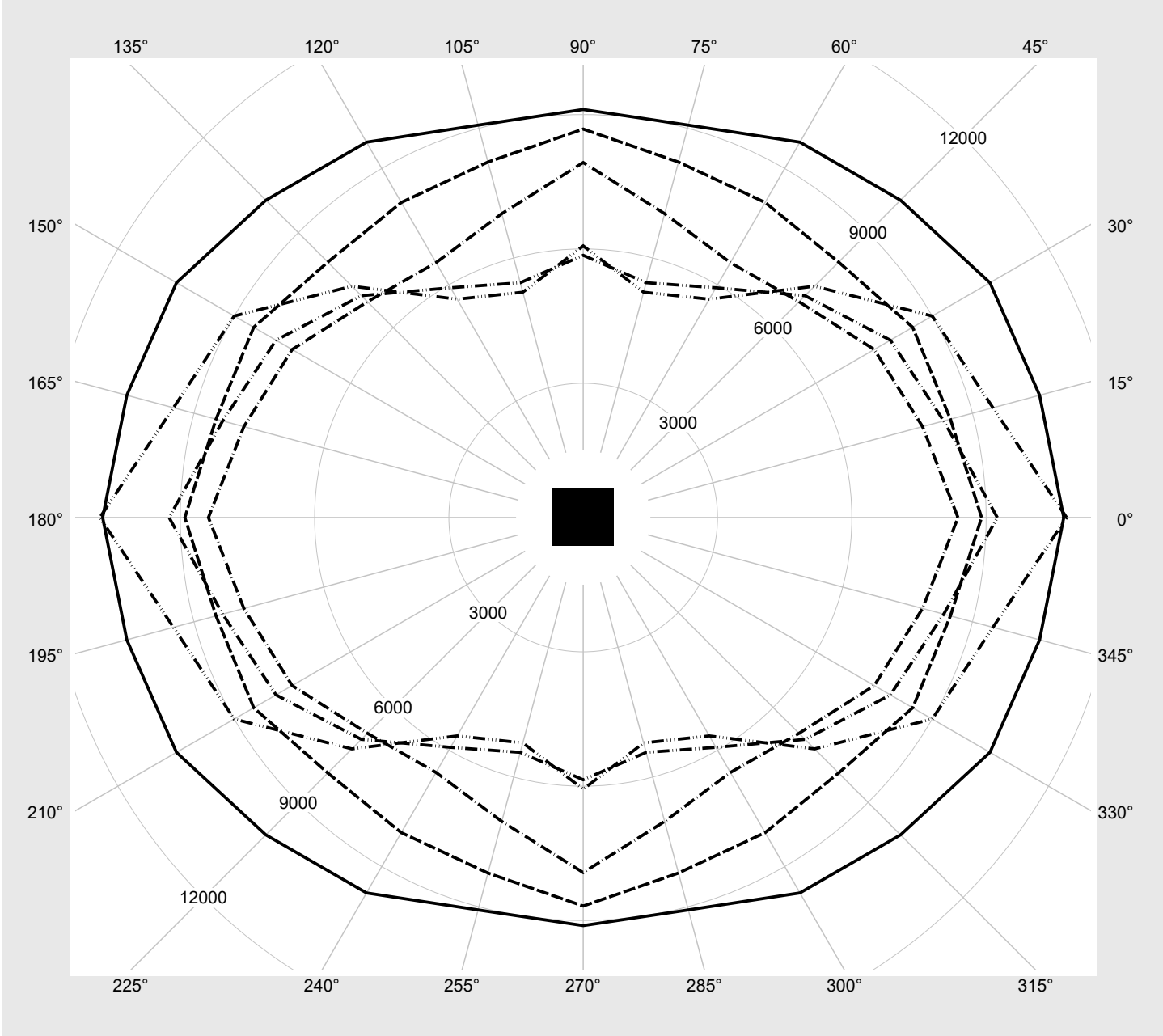
C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
	45°	21690.2	19970.1	16616.3	14905.3	16612.3	19209.3	20641.8	
	50°	16922.2	15779.4	13573.9	12304.8	13284.9	14622.2	15355.5	
	55°	14218.7	13599.9	12264.4	11203.7	11351.8	11788.8	12150.8	
	60°	12899.2	12113.7	11481.2	10712.0	10270.3	10004.4	10193.7	
	65°	10734.0	10553.8	10490.5	10024.0	9681.3	9073.5	9114.2	
	70°	8897.9	8491.2	8497.9	8068.8	8126.6	8220.5	8677.1	
	75°	8371.3	7846.7	7506.9	6816.3	6574.7	7027.0	7929.4	
	80°	9250.2	8337.4	7922.8	7007.5	5926.7	5430.1	5857.4	
	85°	10798.2	9474.9	9001.5	7307.3	5631.4	5211.1	6068.0	

Photometric test report

Family Highbay 11	Order number: 51HLA1D14FCA + 59HL91004 EAN: 4058352321720 + 4058352341674	LP number 58926_2
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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	13040	81.2
95	241	252	12388	76.8
90	227	250	11736	72.5
85	214	248	11084	68.4
80	201	245	10432	64.2
75	188	243	9780	60.0
70	175	240	9128	56.0
65	162	237	8476	51.9
60	149	234	7824	48.0
55	136	231	7172	44.1
50	124	228	6520	40.1
45	111	224	5868	36.3
40	99	219	5216	32.5
35	86	215	4564	28.8
30	74	209	3912	25.1
25	62	203	3260	21.3
20	50	195	2608	17.6
15	38	185	1956	14.0
10	26	170	1303	10.4