
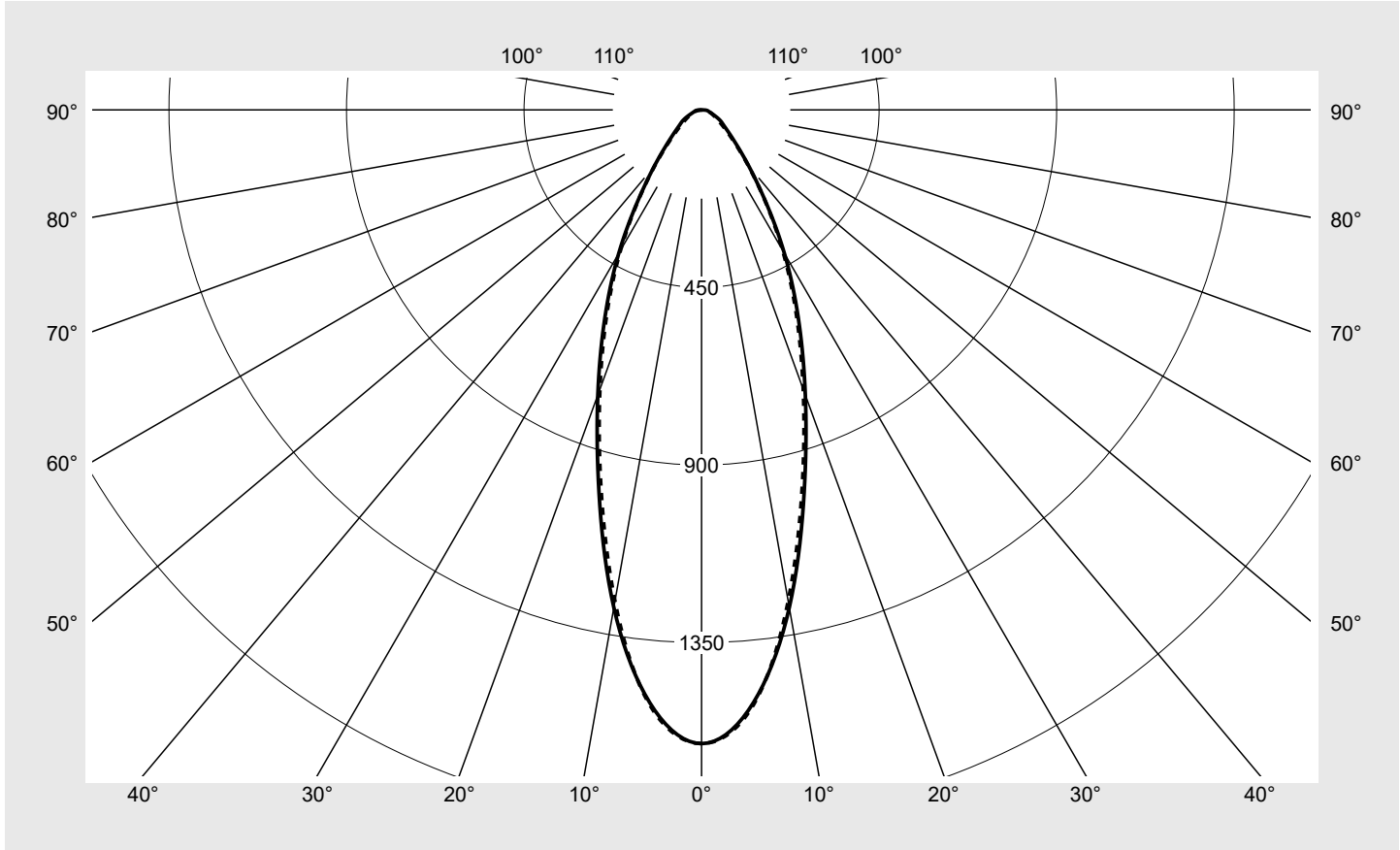


Photometric test report

Family Highbay 11	Order number: 51HLA1D34SCA + 59HL91004 EAN: 4058352322949 + 4058352341674	LP number 58926_5
	Version narrow distribution, UGR≤25, prismatic cover, polycarbonate, LLD	serial documentation 13.06.2019
	Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 45020 lm Power consumption = 284.4 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

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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

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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	21.2	20.3	21.5	21.8	19.5	20.8	19.8	21.1	21.4
	3H	20.7	21.9	21.1	22.2	22.5	20.3	21.5	20.7	21.8	22.2
	4H	21.1	22.1	21.5	22.5	22.9	20.7	21.8	21.1	22.1	22.5
	6H	21.5	22.4	21.9	22.8	23.2	21.0	22.0	21.4	22.3	22.7
	8H	21.8	22.6	22.2	23.0	23.4	21.2	22.0	21.6	22.4	22.8
	12H	22.0	22.8	22.5	23.2	23.6	21.3	22.1	21.7	22.5	22.9
4H	2H	20.2	21.3	20.6	21.6	22.0	19.9	20.9	20.3	21.3	21.6
	3H	21.2	22.1	21.6	22.5	22.9	20.9	21.8	21.3	22.2	22.6
	4H	21.7	22.5	22.1	22.9	23.3	21.4	22.1	21.8	22.6	23.0
	6H	22.2	22.9	22.7	23.3	23.8	21.7	22.4	22.2	22.8	23.3
	8H	22.6	23.2	23.0	23.6	24.1	21.9	22.5	22.3	22.9	23.4
	12H	22.9	23.4	23.4	23.9	24.4	22.0	22.6	22.5	23.0	23.5
8H	4H	21.8	22.4	22.3	22.9	23.4	21.5	22.1	22.0	22.6	23.1
	6H	22.6	23.1	23.1	23.5	24.0	22.0	22.5	22.5	23.0	23.5
	8H	23.0	23.4	23.5	23.9	24.4	22.2	22.6	22.7	23.1	23.7
	12H	23.5	23.8	24.0	24.3	24.9	22.4	22.8	23.0	23.3	23.9
12H	4H	21.9	22.4	22.4	22.8	23.3	21.6	22.1	22.1	22.6	23.1
	6H	22.6	23.0	23.1	23.5	24.1	22.1	22.5	22.6	23.0	23.5
	8H	23.1	23.5	23.6	24.0	24.5	22.3	22.7	22.9	23.2	23.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 918 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°		24961.5	23236.9	19532.5	17676.3	19838.0	23047.0	24817.5	
50°		19474.4	18396.5	16015.7	14669.5	15968.6	17674.8	18609.4	
55°		16363.2	15892.5	14535.2	13441.2	13752.3	14378.3	14868.2	
60°		14844.7	14196.7	13682.2	12952.2	12563.8	12339.3	12625.3	
65°		12352.8	12415.0	12590.9	12243.3	11993.7	11355.9	11469.8	
70°		10239.9	10040.1	10299.2	9992.3	10243.8	10498.9	11166.7	
75°		9633.8	9348.9	9229.8	8615.3	8504.4	9252.8	10560.9	
80°		10645.3	10061.0	9976.5	9162.8	8006.0	7534.1	8288.9	
85°		12426.8	11737.6	11897.5	10239.4	8326.5	8099.4	9878.1	

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Luminance values in cd/m²

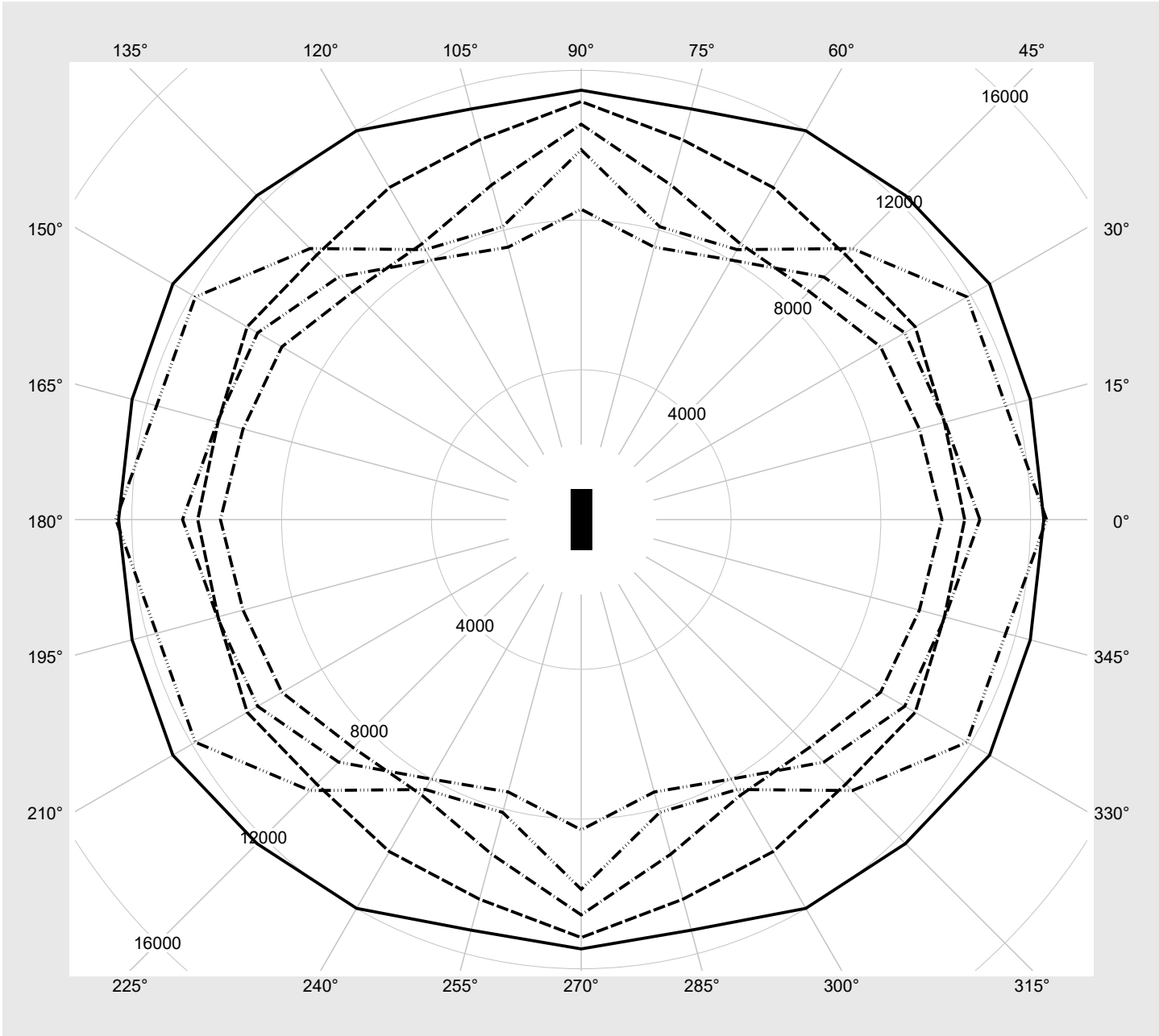
 γ 65°

 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	45020	284.4
95	240	252	42769	269.1
90	227	250	40518	253.8
85	213	248	38267	238.4
80	200	245	36016	223.3
75	187	243	33765	209.0
70	174	240	31514	194.4
65	161	237	29263	180.2
60	148	234	27012	166.3
55	135	231	24761	152.2
50	123	227	22510	138.5
45	110	224	20259	124.8
40	98	219	18008	111.5
35	85	214	15757	98.3
30	73	209	13506	85.3
25	61	202	11255	72.7
20	49	194	9004	59.8
15	37	184	6753	47.3
10	25	170	4501	34.6