
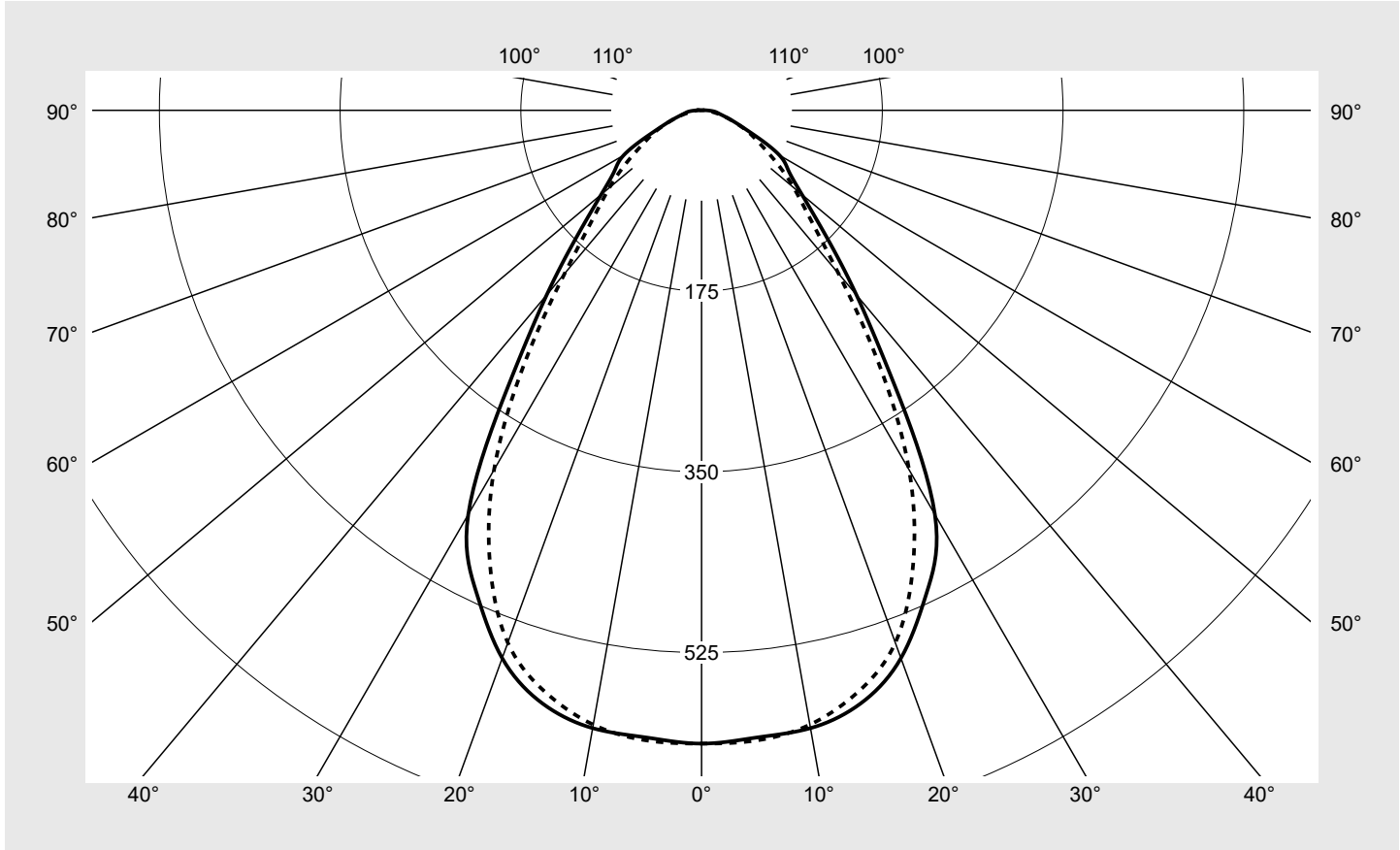


Photometric test report

Family Highbay 11	Order number: 51HLA2D34SCA + 59HL91004 EAN: 4058352474860 + 4058352341674	LP number 58927_16
	Version wide distribution, UGR≤25, prismatic cover, polycarbonate, LLD Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 45240 lm Power consumption = 284.2 W Luminous efficacy = 159.2 lm/W	serial documentation 04.05.2021
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 613 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=71 N2=92 N3=98 N4=99 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	99.2%
ϕ_o	0.8%

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°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	3.7	3.7
5°	609.6	611.1	612.7	613.1	612.4	613.5	612.4	29.3	32.9
10°	607.4	608.6	610.2	610.3	606.5	606.0	604.0	57.9	90.8
15°	594.6	597.6	602.3	599.6	593.1	586.2	583.4	84.4	175.1
20°	564.4	569.0	575.3	578.9	566.2	554.6	548.6	106.3	281.4
25°	515.6	519.2	532.1	539.9	522.8	495.8	484.8	120.1	401.5
30°	451.9	458.6	489.1	475.0	449.8	415.9	401.9	124.0	525.5
35°	327.1	344.0	384.2	395.7	355.4	317.3	299.0	110.5	636.0
40°	233.3	244.0	283.0	307.1	269.8	223.2	206.3	90.8	726.9
45°	168.2	173.3	198.5	225.5	193.2	156.5	149.2	71.4	798.3
50°	126.9	129.4	133.3	144.3	131.1	119.6	116.5	54.5	852.8
55°	103.2	99.6	94.5	87.8	94.2	91.0	89.0	42.1	895.0
60°	87.2	78.0	70.2	56.0	68.9	67.5	66.1	33.0	928.0
65°	55.4	55.0	48.9	35.9	50.1	50.3	50.2	24.3	952.2
70°	35.3	34.3	31.3	21.7	32.3	34.6	34.5	16.2	968.5
75°	23.4	22.4	19.9	14.1	19.6	21.8	22.9	10.7	979.2
80°	16.6	15.4	13.9	10.7	12.1	12.4	12.8	7.1	986.3
85°	12.0	10.4	9.7	7.3	6.9	6.7	7.4	4.6	990.9
90°	4.7	4.3	4.8	4.8	4.6	4.2	4.5	2.5	993.4
95°	2.6	2.7	3.5	3.9	3.7	3.3	3.9	1.8	995.3
100°	1.7	1.8	2.2	2.7	2.5	2.3	2.8	1.2	996.5
105°	1.5	1.3	1.3	1.5	1.7	1.9	2.3	0.8	997.3
110°	1.2	1.1	0.9	0.8	1.2	1.2	2.0	0.6	997.9
115°	1.1	1.0	0.8	0.7	1.1	1.0	1.8	0.5	998.4
120°	0.9	0.8	0.7	0.6	0.9	1.0	1.5	0.4	998.8
125°	0.8	0.7	0.6	0.6	0.8	1.0	1.3	0.3	999.2
130°	0.9	0.8	0.8	0.8	0.8	1.0	1.2	0.4	999.6
135°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	0.4	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	22.7	24.1	23.0	24.4	24.8	22.2	23.7	22.6	24.0	24.3
	3H	23.3	24.6	23.7	24.9	25.3	22.9	24.2	23.3	24.5	24.9
	4H	23.5	24.7	23.9	25.0	25.4	23.1	24.3	23.5	24.7	25.1
	6H	23.7	24.7	24.1	25.1	25.5	23.3	24.4	23.7	24.8	25.2
	8H	23.8	24.8	24.3	25.2	25.6	23.4	24.4	23.9	24.8	25.2
	12H	23.9	24.8	24.4	25.2	25.7	23.5	24.4	23.9	24.8	25.2
4H	2H	22.8	24.0	23.2	24.4	24.7	22.4	23.6	22.8	24.0	24.3
	3H	23.5	24.5	24.0	24.9	25.3	23.2	24.2	23.7	24.6	25.0
	4H	23.8	24.7	24.3	25.1	25.5	23.6	24.4	24.0	24.9	25.3
	6H	24.1	24.9	24.5	25.3	25.7	23.8	24.6	24.3	25.0	25.5
	8H	24.2	24.9	24.7	25.4	25.9	23.9	24.6	24.4	25.0	25.5
	12H	24.4	25.0	24.9	25.5	26.0	24.0	24.6	24.5	25.1	25.5
8H	4H	23.8	24.5	24.3	25.0	25.4	23.6	24.3	24.1	24.7	25.2
	6H	24.2	24.8	24.7	25.2	25.7	23.9	24.5	24.4	24.9	25.4
	8H	24.4	24.9	24.9	25.4	25.9	24.0	24.5	24.5	25.0	25.5
	12H	24.7	25.1	25.2	25.6	26.1	24.2	24.6	24.7	25.1	25.6
12H	4H	23.8	24.4	24.3	24.9	25.4	23.6	24.2	24.1	24.7	25.2
	6H	24.2	24.7	24.7	25.2	25.7	23.9	24.4	24.4	24.9	25.4
	8H	24.4	24.9	25.0	25.4	25.9	24.1	24.5	24.6	25.0	25.5

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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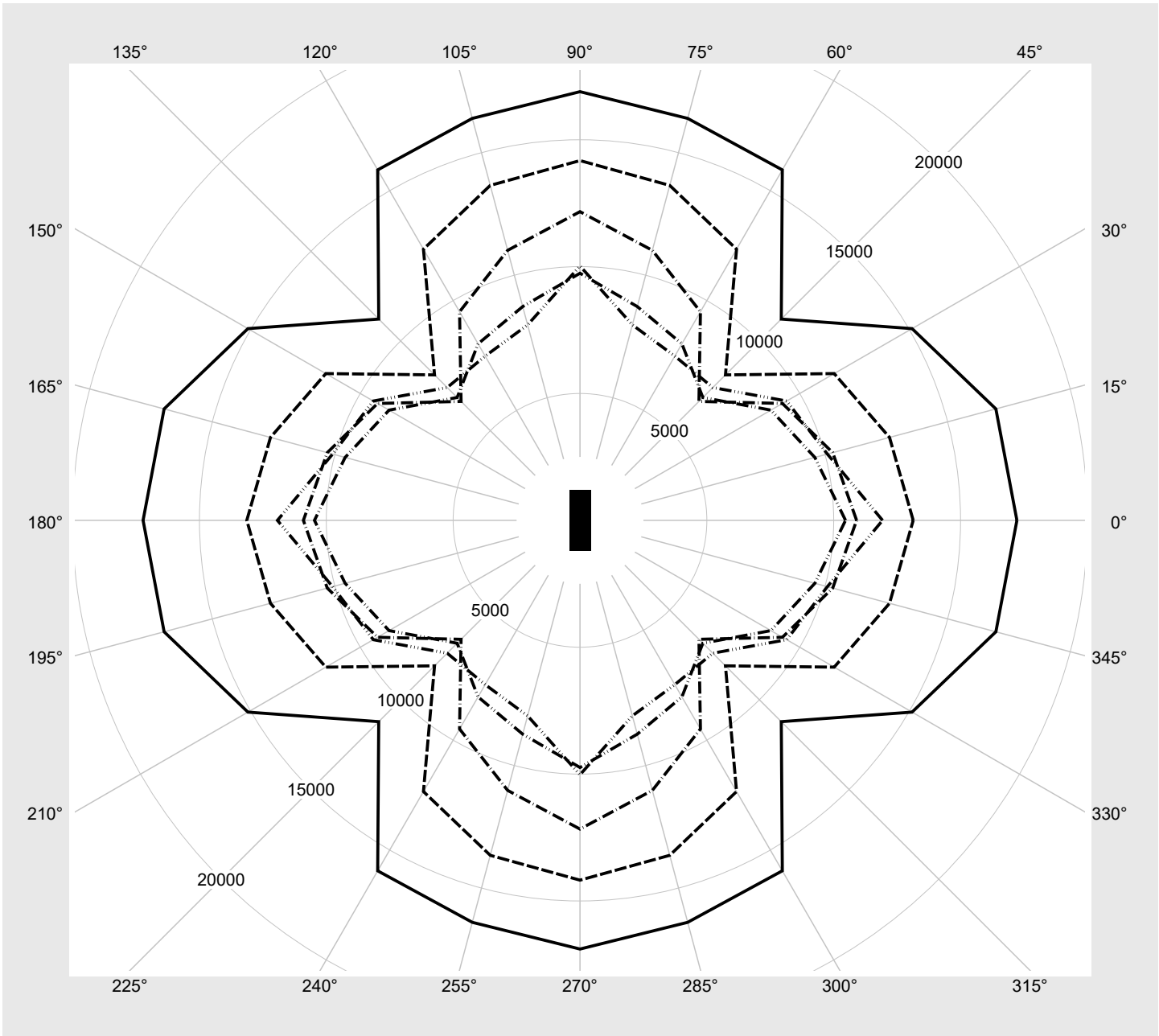
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45°		33394.1	34289.6	39304.4	44875.6	38808.9	31830.6	30805.8
50°		27402.2	27820.8	28683.8	31257.1	28701.1	26564.1	26347.5
55°		24633.8	23644.8	22457.4	21029.2	22831.5	22448.0	22429.1
60°		23463.8	20872.2	18799.3	15117.4	18886.9	18904.2	18978.4
65°		17221.4	16970.6	15113.9	11219.8	15949.1	16400.9	16895.4
70°		13133.8	12630.9	11569.9	8108.2	12341.6	13666.7	14180.0
75°		10903.0	10312.6	9214.4	6629.5	9494.1	11018.0	12166.4
80°		10466.7	9583.8	8689.8	6848.4	8034.5	8723.3	9740.0
85°		11926.1	10095.3	9406.8	7403.5	7475.0	7976.1	10025.5

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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	45240	284.2
95	240	252	42920	268.2
90	227	250	40738	253.5
85	213	248	38374	237.5
80	200	245	36155	222.6
75	187	243	33915	208.3
70	174	240	31662	193.8
65	161	237	29384	179.6
60	148	234	27094	165.4
55	136	231	24947	152.1
50	123	227	22618	138.1
45	111	224	20448	125.0
40	98	219	18080	111.2
35	86	214	15876	98.2
30	74	209	13651	85.6
25	61	202	11229	72.1
20	49	194	8975	59.3
15	37	183	6705	46.7
10	26	171	4600	35.0
5	14	148	2296	22.4
1	4	102	365	11.9