

Photometric test report

Family
Highbay 11

Order number: 51HLA2D14GLA + 59HL91004
EAN: 4058352361467 + 4058352341674

LP number
58927_12

Version wide distribution, UGR≤25, prismatic cover, polycarbonate, LLD
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 15090 lm
Power consumption = 94.8 W
Luminous efficacy = 159.2 lm/W

serial
documentation
31.03.2020

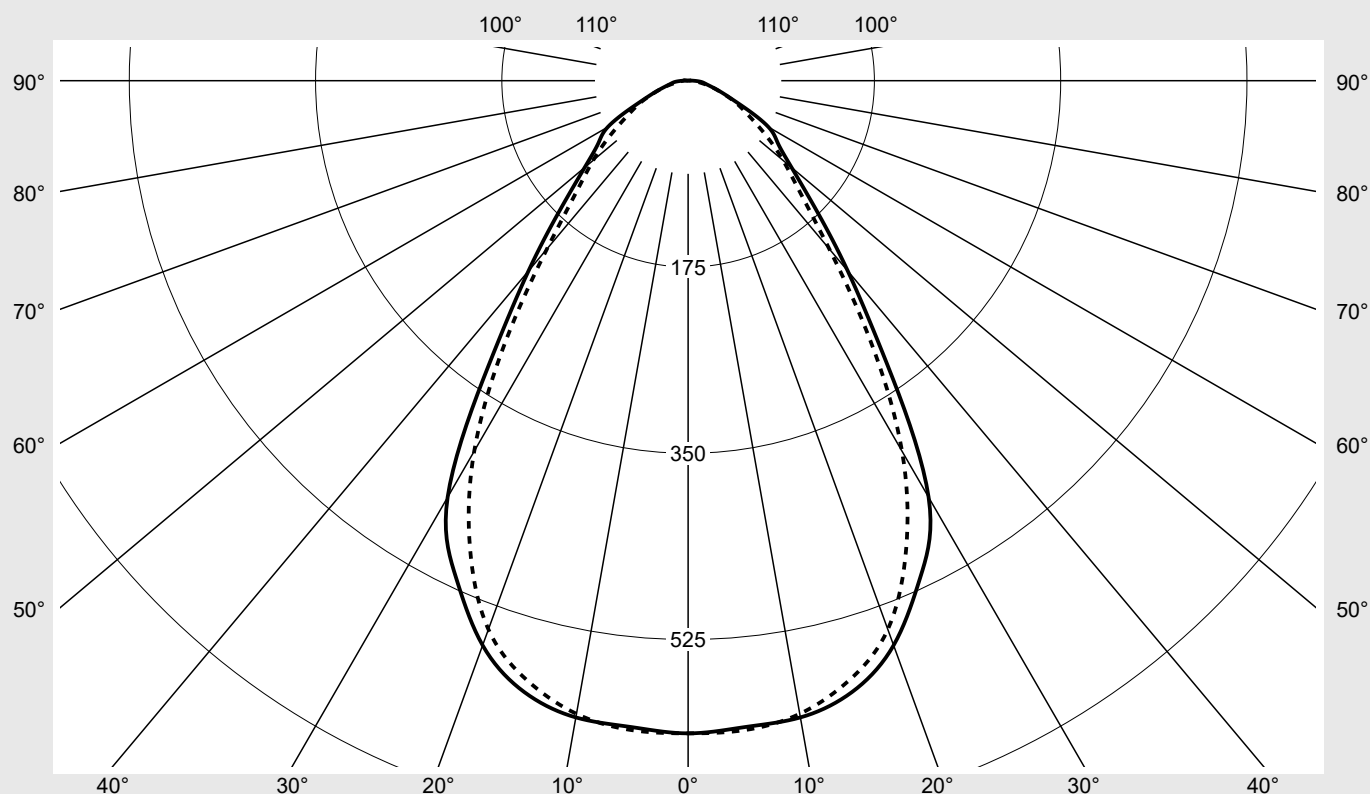
sitEco

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									
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	22.6	24.1	23.0	24.4	24.7	22.1	23.5	22.4	23.8	24.1
	3H	23.2	24.5	23.6	24.8	25.2	22.7	24.0	23.1	24.3	24.7
	4H	23.4	24.6	23.8	25.0	25.3	22.9	24.1	23.3	24.5	24.8
	6H	23.6	24.7	24.0	25.1	25.5	23.1	24.2	23.5	24.5	24.9
	8H	23.8	24.7	24.2	25.1	25.5	23.2	24.2	23.6	24.5	24.9
	12H	23.9	24.8	24.3	25.2	25.6	23.2	24.1	23.6	24.5	24.9
4H	2H	22.8	24.0	23.2	24.3	24.7	22.3	23.4	22.7	23.8	24.2
	3H	23.5	24.5	23.9	24.8	25.3	23.0	24.0	23.5	24.4	24.8
	4H	23.7	24.6	24.2	25.0	25.5	23.3	24.2	23.8	24.6	25.1
	6H	24.0	24.8	24.5	25.2	25.7	23.5	24.3	24.0	24.7	25.2
	8H	24.2	24.9	24.6	25.3	25.8	23.6	24.3	24.1	24.7	25.2
	12H	24.4	25.0	24.9	25.4	25.9	23.7	24.3	24.2	24.8	25.2
8H	4H	23.7	24.4	24.2	24.9	25.4	23.4	24.0	23.8	24.5	25.0
	6H	24.1	24.7	24.6	25.1	25.6	23.6	24.2	24.1	24.7	25.2
	8H	24.3	24.8	24.8	25.3	25.8	23.7	24.2	24.2	24.7	25.2
	12H	24.6	25.0	25.1	25.5	26.0	23.8	24.3	24.4	24.8	25.3
12H	4H	23.8	24.4	24.2	24.8	25.3	23.4	24.0	23.9	24.4	24.9
	6H	24.1	24.6	24.6	25.1	25.6	23.7	24.1	24.2	24.6	25.1
	8H	24.3	24.7	24.9	25.3	25.8	23.8	24.2	24.3	24.7	25.2

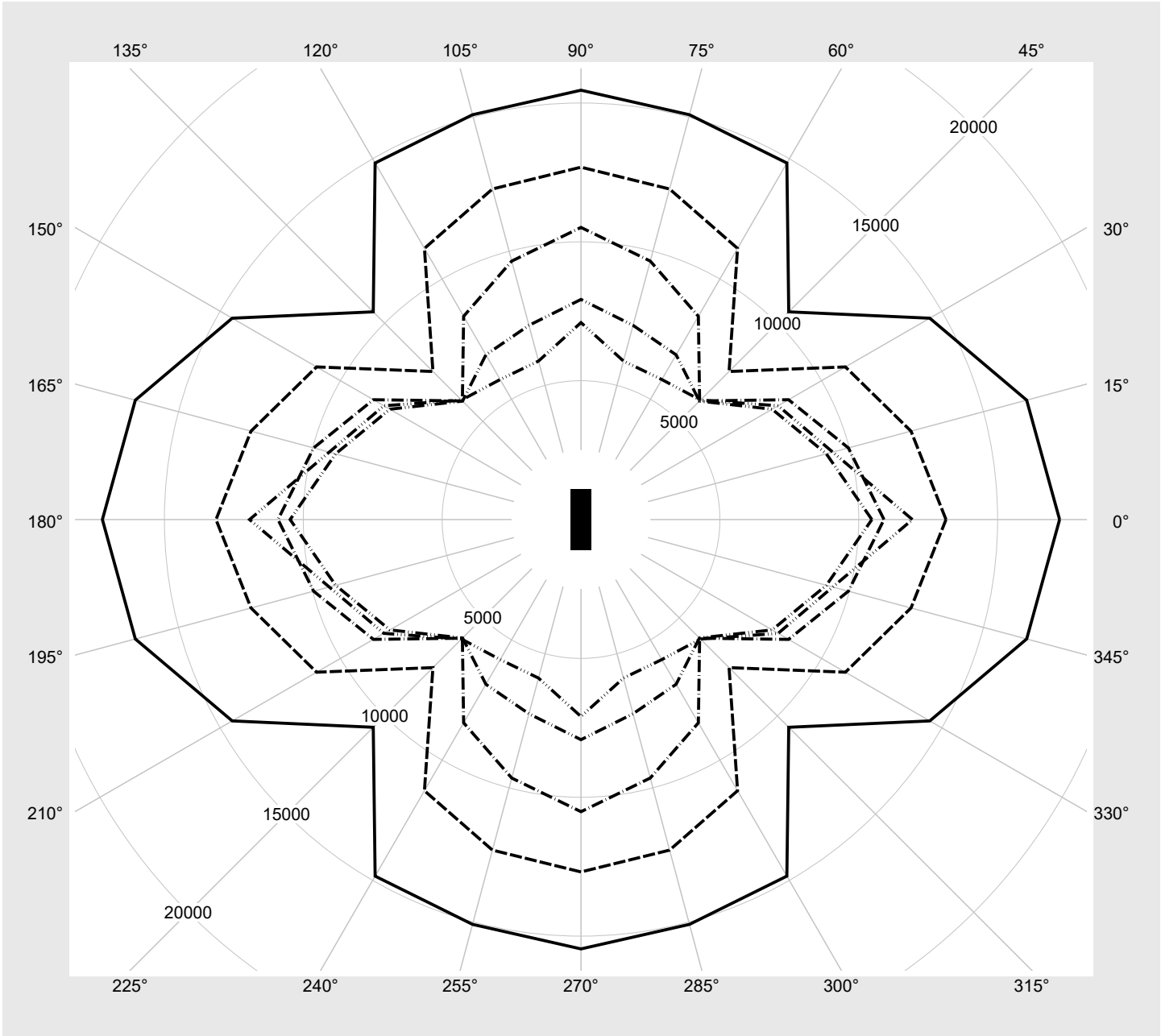
Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 306	H(C0) = 21	H(C180) = 21
						B = 330	H(C90) = 21	H(C270) = 21
C-planes	γ	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	270°
		195°	210°	225°	240°	255°	285°	
		345°	330°	315°	300°			
Luminance in cd/m ²								
45°		33416.3	33935.8	38504.6	43576.9	37424.6	30551.6	29506.5
50°		27420.4	27480.3	27995.6	30192.8	27497.0	25307.5	25036.1
55°		24650.1	23301.0	21821.3	20185.5	21702.9	21195.1	21108.4
60°		23479.3	20509.4	18166.4	14397.9	17779.5	17650.3	17645.9
65°		17232.8	16613.3	14501.3	10578.4	14825.6	15090.9	15460.6
70°		13142.5	12301.5	10993.4	7539.8	11274.9	12322.9	12688.7
75°		10910.2	9967.4	8630.3	6040.2	8452.5	9636.0	10519.5
80°		10473.6	9145.8	7947.0	6031.4	6849.3	7240.1	7926.1
85°		11934.0	9384.5	8195.9	6084.3	5821.8	5909.6	7092.1

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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	15090	94.8
95	240	252	14316	89.5
90	227	250	13588	84.6
85	213	247	12800	79.2
80	200	245	12060	74.2
75	187	243	11313	69.5
70	174	240	10561	64.7
65	161	237	9801	59.9
60	148	234	9037	55.2
55	136	231	8322	50.7
50	123	228	7544	46.0
45	110	224	6760	41.4
40	98	220	6031	37.1
35	86	215	5296	32.8
30	74	210	4554	28.6
25	61	204	3746	24.1
20	49	197	2994	19.8
15	37	188	2237	15.6
10	26	177	1535	11.7
5	14	161	766	7.4