

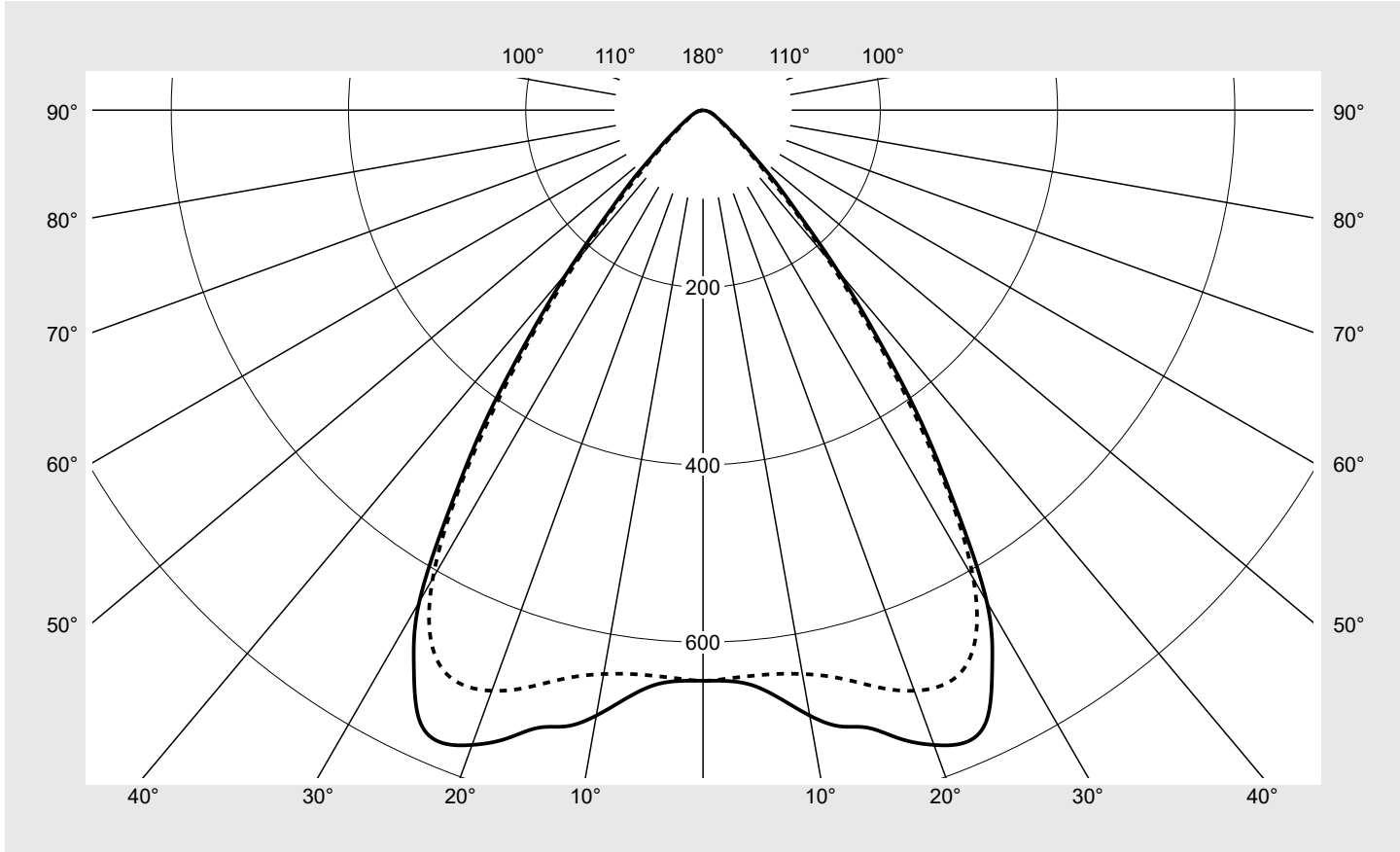


Photometric test report

Family Highbay 11	Order number: 51HN12DA4FDA3S EAN: 4069025321084	LP number 59710_262
	Version	primary light control with lens, PMMA, housing, white, wide distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	AC-mode
	Rated values	Net luminous flux = 15000 lm Power consumption = 77.0 W Luminous efficacy = 194.8 lm/W
		serial documentation 24.02.2025
		

Luminous intensity in cd/klm
C180-0
C270-90
Imax: 772 cd/klm



Classifications	
DIN 5040	A 6 0
CIE	N1=88 N2=98 N3=100 N4=100 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities	Maximum luminous intensity
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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	
0,0°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	1.0	1.0
2,5°	644.5	645.1	645.0	644.3	644.2	643.7	641.7	7.7	8.7
5,0°	651.5	652.3	650.7	647.5	645.3	643.2	640.4	15.5	24.1
7,5°	669.6	669.1	664.2	657.2	651.2	645.8	641.3	23.5	47.6
10,0°	693.4	691.0	681.5	670.0	659.9	651.2	645.8	31.9	79.6
12,5°	711.8	709.4	700.3	685.9	671.9	660.7	654.0	40.7	120.2
15,0°	721.3	721.7	717.1	704.9	689.4	675.9	667.7	49.7	169.9
17,5°	743.8	740.8	737.9	726.5	708.9	693.0	684.2	59.4	229.3
20,0°	761.9	761.9	759.6	745.2	724.0	705.6	696.8	69.2	298.5
22,5°	772.0	771.2	770.0	754.7	731.1	710.8	702.6	78.2	376.7
25,0°	758.1	756.6	756.3	743.6	722.7	703.3	695.6	85.1	461.8
27,5°	706.7	709.5	709.5	700.0	685.7	672.3	667.0	87.8	549.7
30,0°	640.4	635.6	633.7	626.6	621.7	614.1	609.9	85.8	635.5
32,5°	530.6	537.6	535.6	526.2	530.2	524.1	520.8	78.1	713.6
35,0°	428.2	426.4	425.9	411.9	420.8	414.2	411.4	66.0	779.6
37,5°	322.5	323.4	327.0	311.0	319.4	310.8	308.2	53.0	832.6
40,0°	236.1	234.0	241.6	230.8	230.9	219.8	218.4	40.7	873.3
42,5°	162.3	165.3	172.9	171.1	161.7	151.3	150.8	30.2	903.5
45,0°	117.3	114.9	119.4	122.5	109.3	102.6	102.3	21.9	925.4
47,5°	80.5	81.4	82.8	85.5	75.2	71.4	70.8	15.9	941.3
50,0°	59.4	58.0	58.0	59.0	52.9	50.5	49.6	11.7	953.0
52,5°	43.3	42.8	42.8	43.0	39.3	37.2	36.6	8.9	961.8
55,0°	33.3	32.4	32.9	33.7	30.5	28.7	28.3	7.1	968.9
57,5°	25.9	25.4	25.9	26.8	24.5	22.9	22.9	5.8	974.7
60,0°	20.9	20.2	21.2	21.8	20.4	18.9	19.2	4.9	979.5
62,5°	16.9	16.2	17.4	18.0	17.2	15.9	16.4	4.1	983.6
65,0°	14.9	13.6	14.4	15.1	14.8	13.6	14.4	3.6	987.2
67,5°	12.3	11.4	12.5	12.4	13.0	11.7	12.6	3.1	990.3
70,0°	10.4	9.5	10.5	10.1	11.1	10.1	11.0	2.7	993.0
72,5°	8.2	7.7	7.9	8.2	8.7	8.6	9.5	2.2	995.2
75,0°	6.5	6.0	6.0	6.4	6.6	7.1	7.9	1.7	996.9
77,5°	4.5	4.3	4.4	4.7	5.1	5.6	6.3	1.3	998.2
80,0°	2.9	2.7	2.9	3.1	3.5	4.1	4.7	0.9	999.1
82,5°	1.3	1.4	1.6	1.8	2.2	2.7	3.3	0.5	999.7
85,0°	0.6	0.6	0.6	0.7	1.0	1.4	1.8	0.3	999.9
87,5°	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.1	1000.0
90,0°	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	19.6	20.9	20.0	21.2	21.5
	3H	19.9	21.1	20.3	21.4	21.7	19.6	20.8	20.0	21.1	21.5
	4H	19.9	21.0	20.3	21.3	21.7	19.7	20.7	20.1	21.1	21.4
	6H	19.9	20.8	20.3	21.2	21.6	19.7	20.6	20.1	21.0	21.4
	8H	20.0	20.8	20.4	21.1	21.5	19.8	20.6	20.2	21.0	21.4
	12H	19.9	20.7	20.4	21.1	21.5	19.8	20.5	20.2	20.9	21.3
4H	2H	19.8	20.9	20.2	21.2	21.6	19.5	20.6	19.9	20.9	21.3
	3H	19.9	20.7	20.3	21.1	21.5	19.6	20.5	20.0	20.9	21.3
	4H	19.9	20.6	20.3	21.0	21.5	19.6	20.4	20.1	20.8	21.3
	6H	19.8	20.5	20.3	20.9	21.4	19.7	20.3	20.2	20.8	21.2
	8H	19.8	20.4	20.3	20.8	21.3	19.7	20.3	20.2	20.7	21.2
	12H	19.8	20.3	20.3	20.7	21.2	19.7	20.2	20.2	20.7	21.2
8H	4H	19.8	20.4	20.3	20.8	21.3	19.6	20.2	20.1	20.6	21.1
	6H	19.8	20.2	20.3	20.7	21.2	19.6	20.1	20.1	20.6	21.1
	8H	19.7	20.1	20.2	20.6	21.2	19.6	20.1	20.2	20.6	21.1
	12H	19.7	20.0	20.2	20.5	21.1	19.7	20.0	20.2	20.5	21.1
12H	4H	19.8	20.3	20.3	20.7	21.2	19.6	20.1	20.1	20.5	21.0
	6H	19.8	20.1	20.3	20.6	21.2	19.6	20.0	20.2	20.5	21.0
	8H	19.7	20.0	20.3	20.6	21.1	19.7	20.0	20.2	20.5	21.0

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	γ	0° 180°	15°	30°	45°	60°	75°	90° 270°
			165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°	
Luminance in cd/m ²								
45,0°		22130.1	21669.3	22524.9	23102.3	20610.4	19351.1	19294.2
50,0°		12330.0	12038.5	12025.9	12240.6	10984.0	10473.0	10293.3
55,0°		7748.7	7541.5	7649.2	7824.8	7098.1	6672.3	6592.1
60,0°		5573.3	5380.1	5653.0	5822.7	5451.6	5048.5	5112.8
65,0°		4702.7	4277.9	4559.7	4756.3	4657.5	4307.2	4550.6
70,0°		4042.0	3687.9	4079.4	3946.8	4329.8	3941.4	4304.4
75,0°		3331.1	3085.3	3077.0	3290.9	3419.2	3659.8	4079.8
80,0°		2248.9	2098.4	2220.5	2398.7	2707.5	3184.5	3630.0
85,0°		898.3	893.7	922.8	1080.4	1597.7	2128.7	2757.6

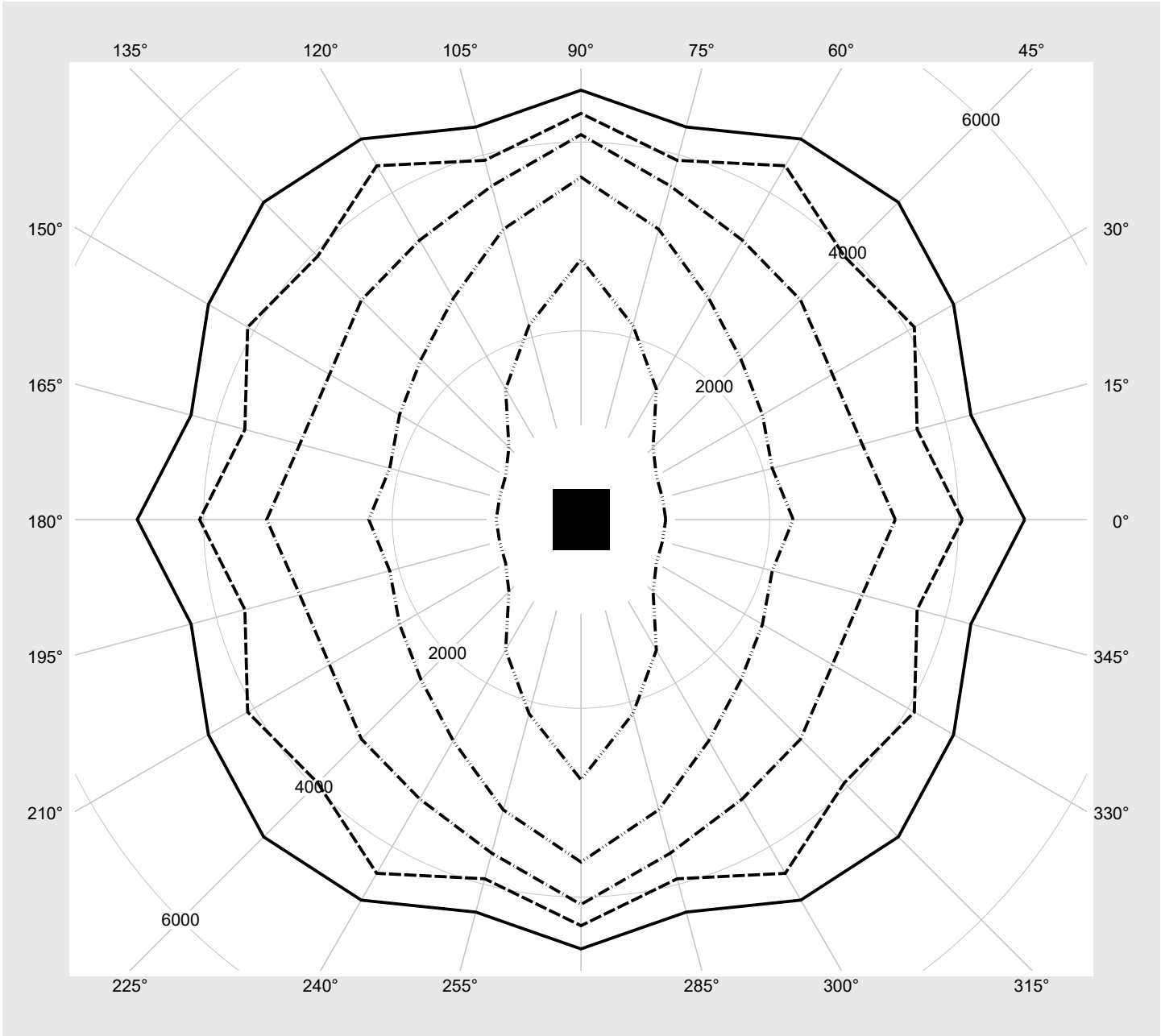
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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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	----	----	----	----
95	241	252	14266	73.2
90	227	250	13473	69.1
85	214	248	12736	65.3
80	201	245	11990	61.6
75	188	243	11246	57.7
70	175	240	10495	54.0
65	162	238	9737	50.2
60	149	234	8979	46.5
55	137	231	8274	43.1
50	124	228	7504	39.4
45	111	224	6733	35.7
40	99	219	6018	32.4
35	86	214	5233	28.7
30	74	209	4509	25.5
25	62	202	3779	22.1
20	49	194	2979	18.6
15	37	183	2239	15.4
10	25	169	1496	12.0
5	13	145	743	8.5
2	5	110	241	6.3