
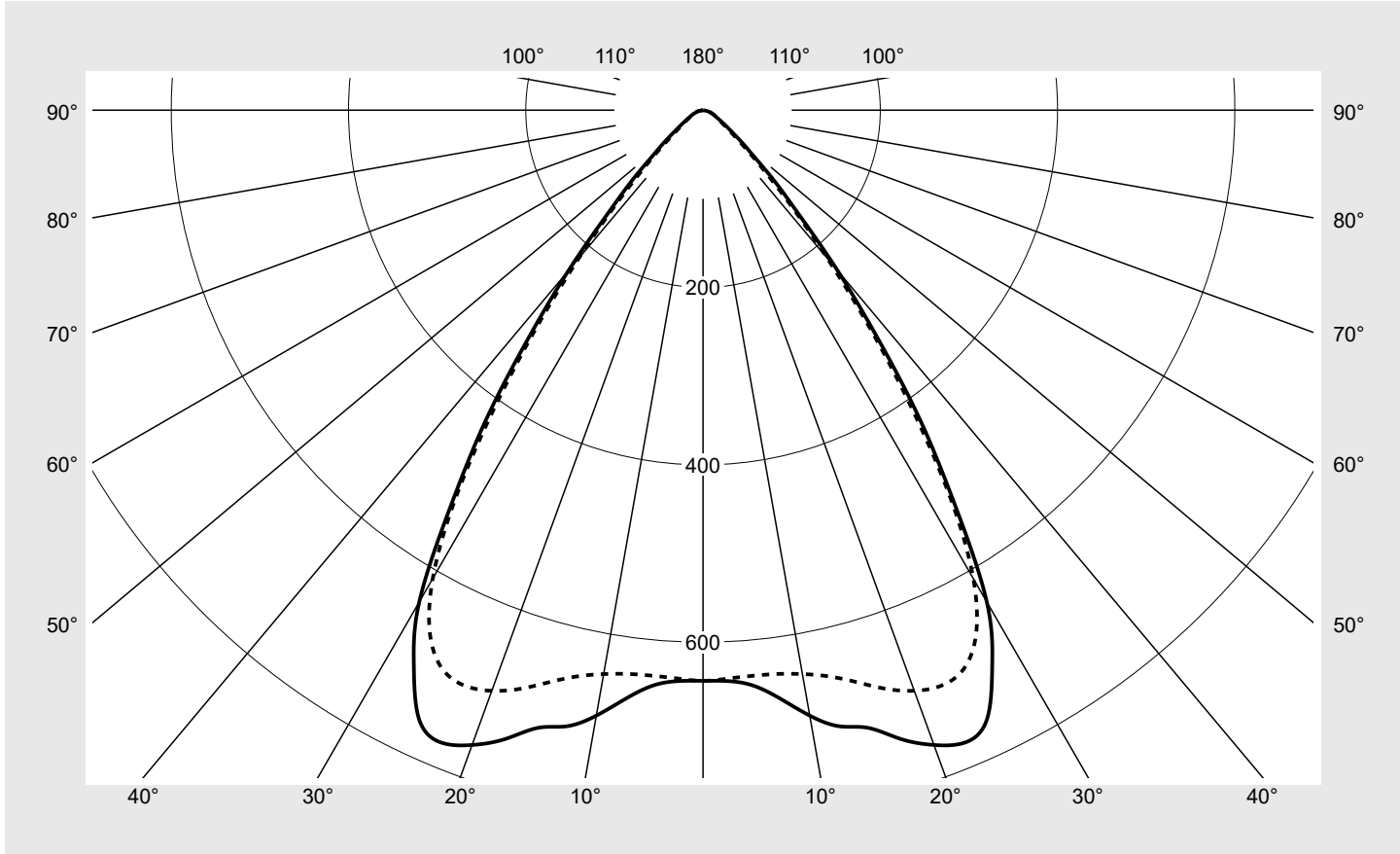


Photometric test report

Family Highbay 11	Order number: 51HN12DA4FDA02 EAN: 4069025241184	LP number 59710_56
	Version primary light control with lens, PMMA, housing, white, wide distribution, with Node BT Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 15000 lm Power consumption = 73.7 W Luminous efficacy = 203.5 lm/W	serial documentation 30.01.2025



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
		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		
0,0°	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	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°	
45,0°		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	

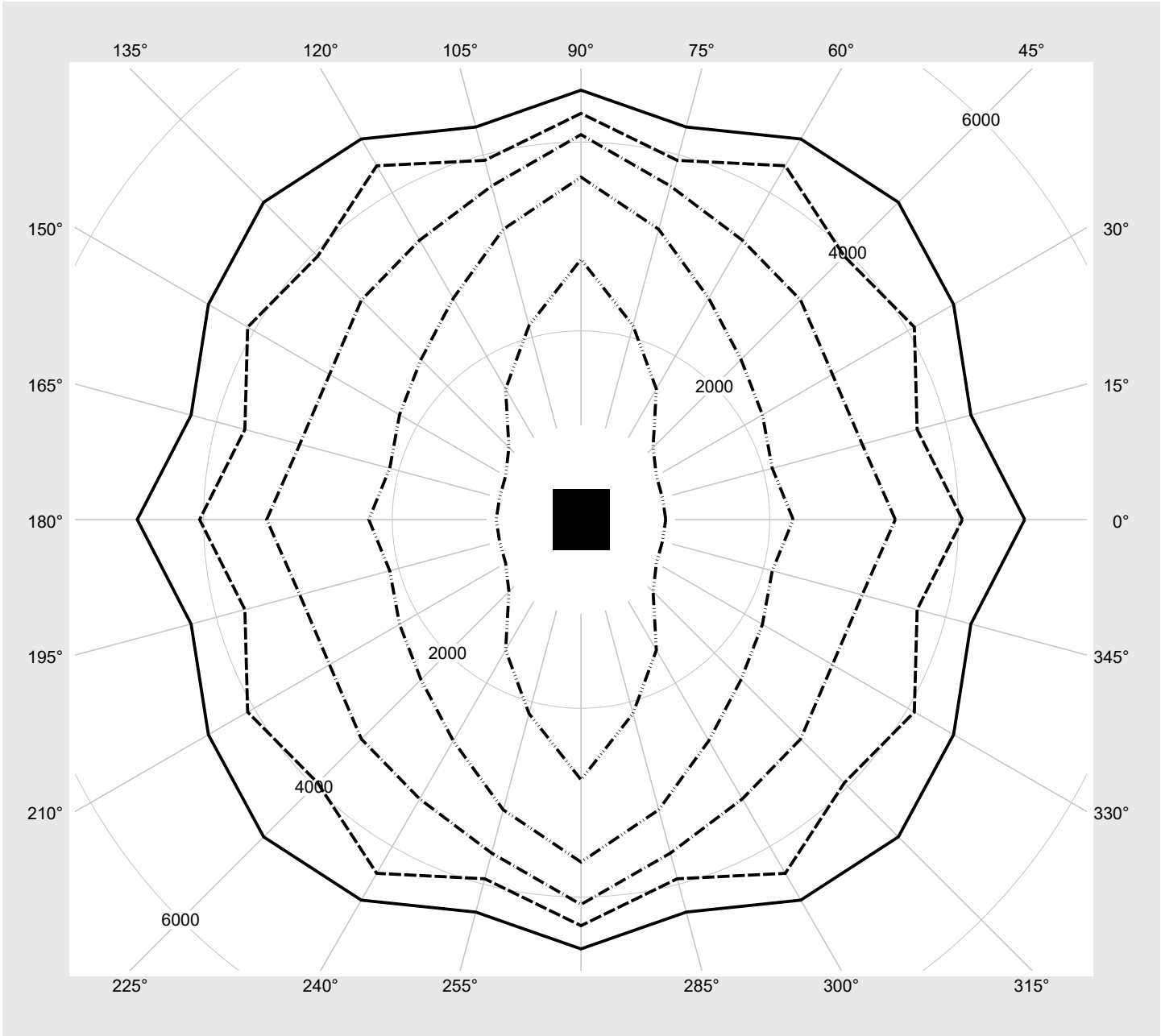
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Luminance values in cd/m²

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	69.9
90	227	250	13473	65.8
85	214	248	12736	62.0
80	201	245	11990	58.3
75	188	243	11246	54.4
70	175	240	10495	50.7
65	162	238	9737	46.9
60	149	234	8979	43.2
55	137	231	8274	39.8
50	124	228	7504	36.1
45	111	224	6733	32.4
40	99	219	6018	29.1
35	86	214	5233	25.4
30	74	209	4509	22.2
25	62	202	3779	18.8
20	49	194	2979	15.3
15	37	183	2239	12.1
10	25	169	1496	8.7
5	13	145	743	5.2
2	5	110	241	3.0