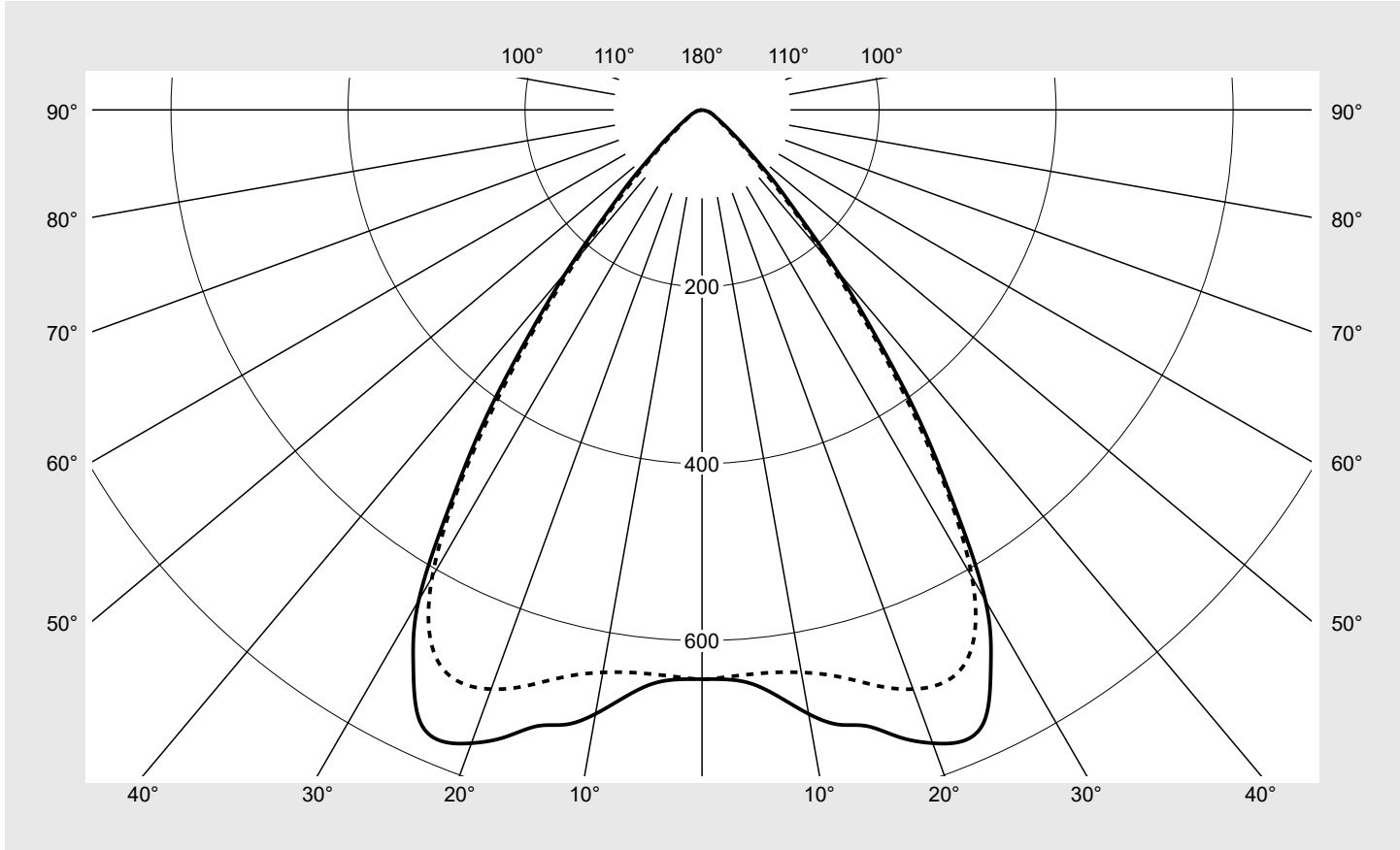


Photometric test report

Family Highbay 11	Order number: 51HN12DA5FDA EAN: 4069025424617	LP number 59710_421
	Version	primary light control with lens, PMMA, housing, white, wide distribution
	Lamps	LED 5000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	AC-mode
	Rated values	Net luminous flux = 14930 lm Power consumption = 73.2 W Luminous efficacy = 204 lm/W
		serial documentation 10.04.2025
		

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

Photometric test report

Family Highbay 11	Order number: 51HN12DA5FDA EAN: 4069025424617	LP number 59710_421
Table of values for luminous intensities		Maximum luminous intensity

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

Photometric test report

Family Highbay 11	Order number: 51HN12DA5FDA EAN: 4069025424617	LP number 59710_421
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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	21.0	20.3	21.4	21.7	19.6	20.8	20.0	21.1	21.5
	4H	19.9	20.9	20.3	21.3	21.7	19.7	20.7	20.1	21.0	21.4
	6H	19.9	20.8	20.3	21.2	21.6	19.7	20.6	20.1	21.0	21.4
	8H	19.9	20.7	20.4	21.1	21.5	19.8	20.6	20.2	21.0	21.4
	12H	19.9	20.6	20.4	21.0	21.5	19.8	20.5	20.2	20.9	21.3
4H	2H	19.8	20.8	20.2	21.2	21.6	19.5	20.6	19.9	20.9	21.3
	3H	19.8	20.7	20.3	21.1	21.5	19.6	20.4	20.0	20.8	21.3
	4H	19.8	20.6	20.3	21.0	21.5	19.6	20.4	20.1	20.8	21.2
	6H	19.8	20.5	20.3	20.9	21.4	19.7	20.3	20.1	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	20.2	20.8	21.3	19.6	20.1	20.0	20.6	21.1
	6H	19.7	20.2	20.2	20.7	21.2	19.6	20.1	20.1	20.6	21.1
	8H	19.7	20.1	20.2	20.6	21.1	19.6	20.1	20.1	20.5	21.1
	12H	19.7	20.0	20.2	20.5	21.1	19.7	20.0	20.2	20.5	21.0
12H	4H	19.8	20.3	20.3	20.7	21.2	19.6	20.0	20.1	20.5	21.0
	6H	19.8	20.1	20.3	20.6	21.1	19.6	20.0	20.1	20.5	21.0
	8H	19.7	20.0	20.2	20.5	21.1	19.6	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/m²								
45,0°		22026.8	21568.2	22419.8	22994.4	20514.2	19260.8	19204.1
50,0°		12272.5	11982.3	11969.7	12183.5	10932.8	10424.1	10245.2
55,0°		7712.6	7506.3	7613.5	7788.3	7065.0	6641.2	6561.3
60,0°		5547.2	5355.0	5626.6	5795.5	5426.2	5025.0	5089.0
65,0°		4680.7	4257.9	4538.4	4734.1	4635.8	4287.1	4529.3
70,0°		4023.1	3670.7	4060.4	3928.4	4309.6	3923.0	4284.4
75,0°		3315.5	3070.9	3062.6	3275.5	3403.2	3642.8	4060.8
80,0°		2238.4	2088.6	2210.2	2387.5	2694.9	3169.6	3613.0
85,0°		894.1	889.5	918.5	1075.4	1590.2	2118.7	2744.8

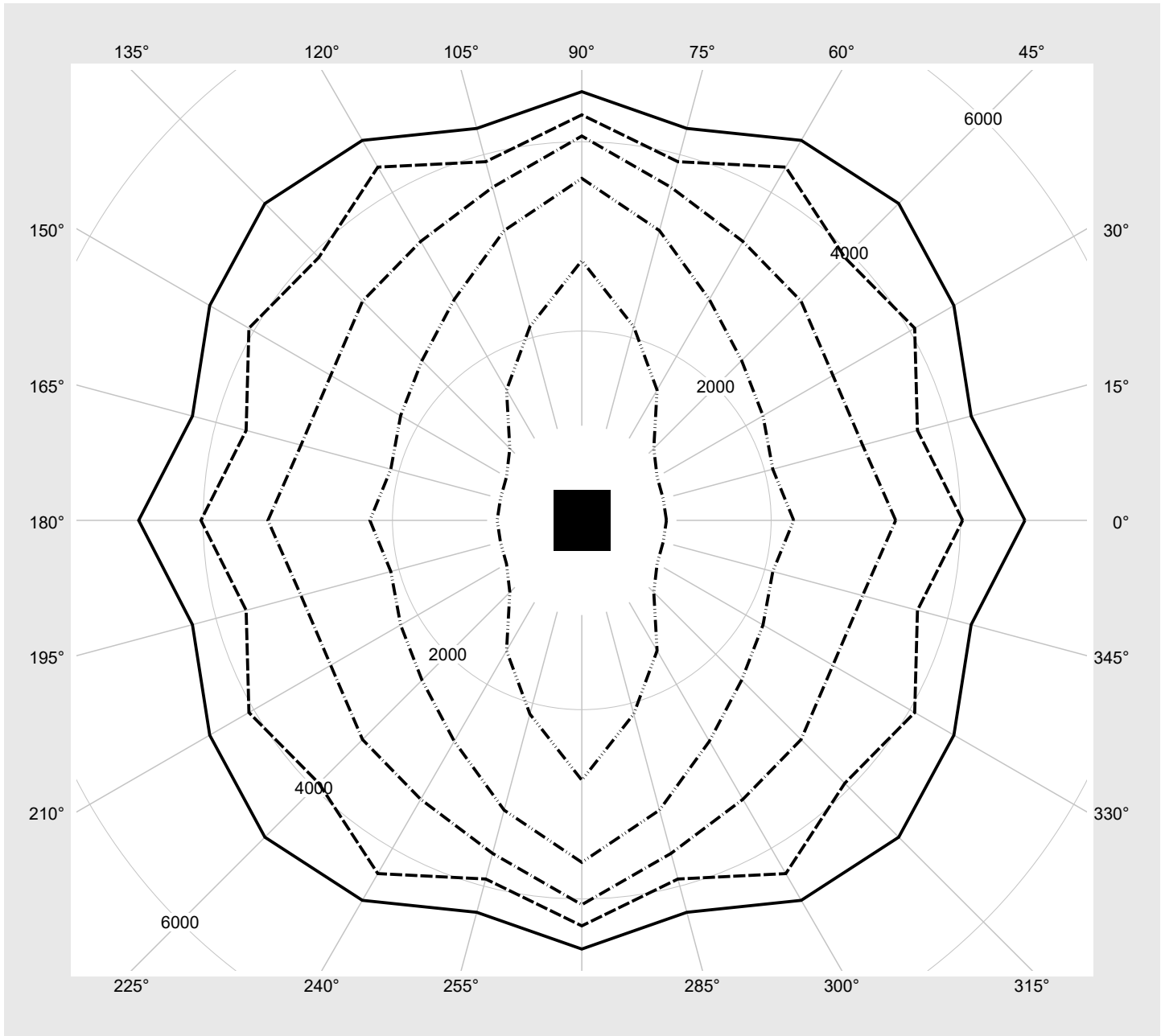
Photometric test report

Family Highbay 11	Order number: 51HN12DA5FDA EAN: 4069025424617	LP number 59710_421
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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HN12DA5FDA EAN: 4069025424617	LP number 59710_421
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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	14930	73.2
95	241	252	14197	69.4
90	227	250	13409	65.3
85	214	248	12674	61.5
80	201	245	11932	57.8
75	188	243	11191	53.9
70	175	240	10443	50.2
65	162	238	9689	46.4
60	149	234	8934	42.7
55	137	231	8233	39.3
50	124	228	7465	35.6
45	111	224	6699	31.9
40	99	219	5987	28.6
35	86	214	5206	24.9
30	74	209	4484	21.7
25	62	202	3759	18.3
20	49	194	2963	14.8
15	37	183	2227	11.6
10	25	169	1488	8.2
5	13	145	738	4.7
2	5	110	238	2.5