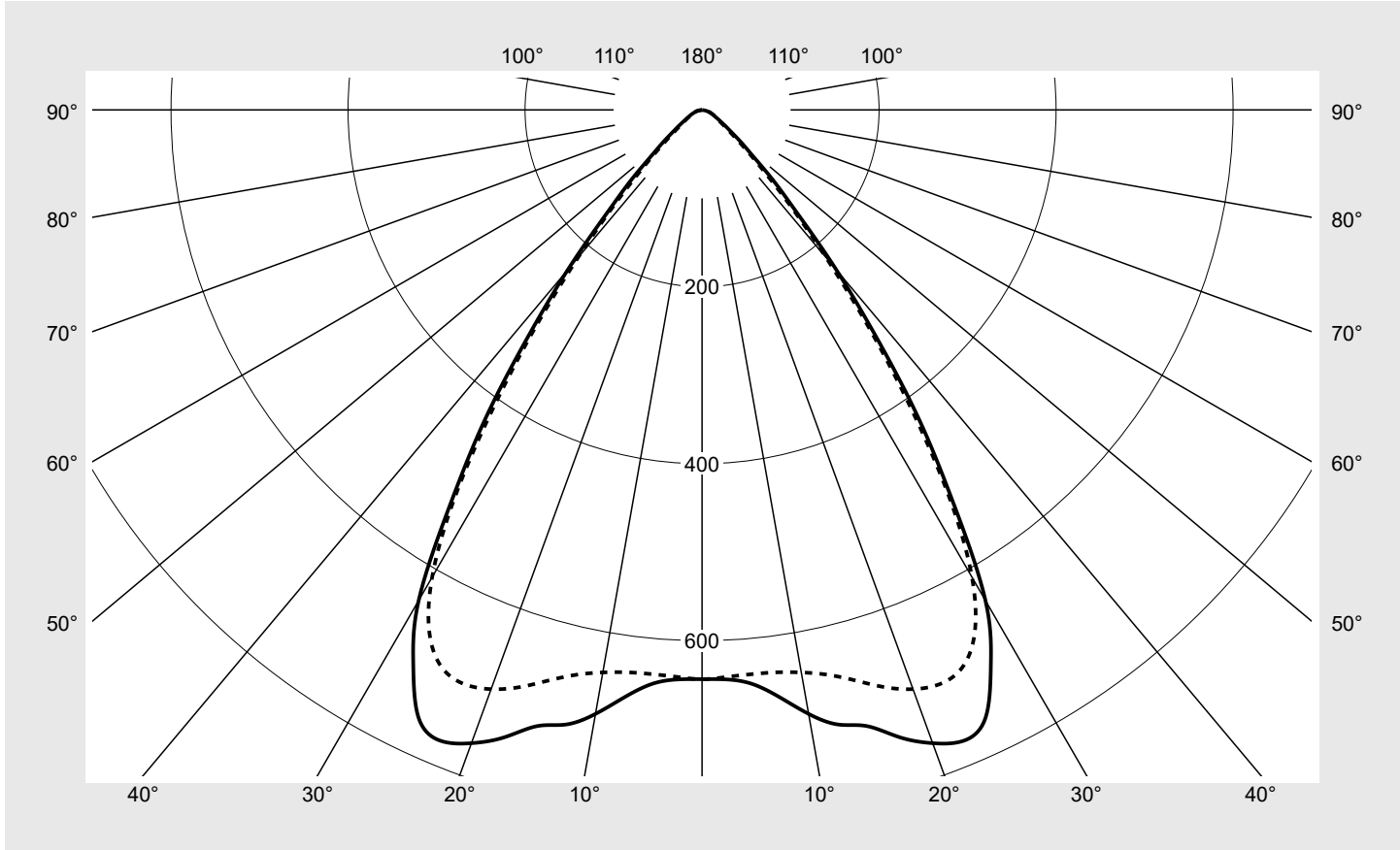


Photometric test report

Family Highbay 11	Order number: 51HN12DA4EBA EAN: 4069025446589	LP number 59710_471
	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 = 10000 lm Power consumption = 47.7 W Luminous efficacy = 209.6 lm/W	serial documentation 13.05.2025



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: 51HN12DA4EBA EAN: 4069025446589	LP number 59710_471
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

Photometric test report

Family Highbay 11	Order number: 51HN12DA4EBA EAN: 4069025446589	LP number 59710_471
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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	18.5	19.8	18.9	20.1	20.4	18.2	19.5	18.6	19.8	20.1
	3H	18.5	19.6	18.9	20.0	20.3	18.2	19.4	18.6	19.7	20.1
	4H	18.5	19.5	18.9	19.9	20.3	18.3	19.3	18.7	19.7	20.0
	6H	18.5	19.4	18.9	19.8	20.2	18.3	19.2	18.7	19.6	20.0
	8H	18.6	19.3	19.0	19.7	20.1	18.4	19.2	18.8	19.6	20.0
	12H	18.5	19.3	19.0	19.6	20.1	18.4	19.1	18.8	19.5	19.9
4H	2H	18.4	19.4	18.8	19.8	20.2	18.1	19.2	18.5	19.5	19.9
	3H	18.4	19.3	18.9	19.7	20.1	18.2	19.1	18.6	19.4	19.9
	4H	18.4	19.2	18.9	19.6	20.1	18.2	19.0	18.7	19.4	19.9
	6H	18.4	19.1	18.9	19.5	20.0	18.3	18.9	18.7	19.4	19.8
	8H	18.4	19.0	18.9	19.4	19.9	18.3	18.9	18.8	19.3	19.8
	12H	18.4	18.9	18.9	19.3	19.8	18.3	18.8	18.8	19.3	19.8
8H	4H	18.4	19.0	18.9	19.4	19.9	18.2	18.8	18.7	19.2	19.7
	6H	18.4	18.8	18.9	19.3	19.8	18.2	18.7	18.7	19.2	19.7
	8H	18.3	18.7	18.8	19.2	19.8	18.2	18.7	18.7	19.1	19.7
	12H	18.3	18.6	18.8	19.1	19.7	18.3	18.6	18.8	19.1	19.6
12H	4H	18.4	18.9	18.9	19.3	19.8	18.2	18.7	18.7	19.1	19.6
	6H	18.4	18.7	18.9	19.2	19.8	18.2	18.6	18.7	19.1	19.6
	8H	18.3	18.6	18.8	19.1	19.7	18.2	18.6	18.8	19.1	19.6

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°		14753.4	14446.2	15016.6	15401.5	13740.2	12900.8	12862.8	
50,0°		8220.0	8025.7	8017.2	8160.4	7322.7	6982.0	6862.2	
55,0°		5165.8	5027.7	5099.5	5216.5	4732.1	4448.2	4394.7	
60,0°		3715.5	3586.7	3768.7	3881.8	3634.4	3365.7	3408.6	
65,0°		3135.1	2851.9	3039.8	3170.9	3105.0	2871.5	3033.7	
70,0°		2694.7	2458.6	2719.6	2631.2	2886.5	2627.6	2869.6	
75,0°		2220.7	2056.8	2051.3	2193.9	2279.5	2439.9	2719.9	
80,0°		1499.3	1398.9	1480.3	1599.1	1805.0	2123.0	2420.0	
85,0°		598.9	595.8	615.2	720.3	1065.1	1419.1	1838.4	

Photometric test report

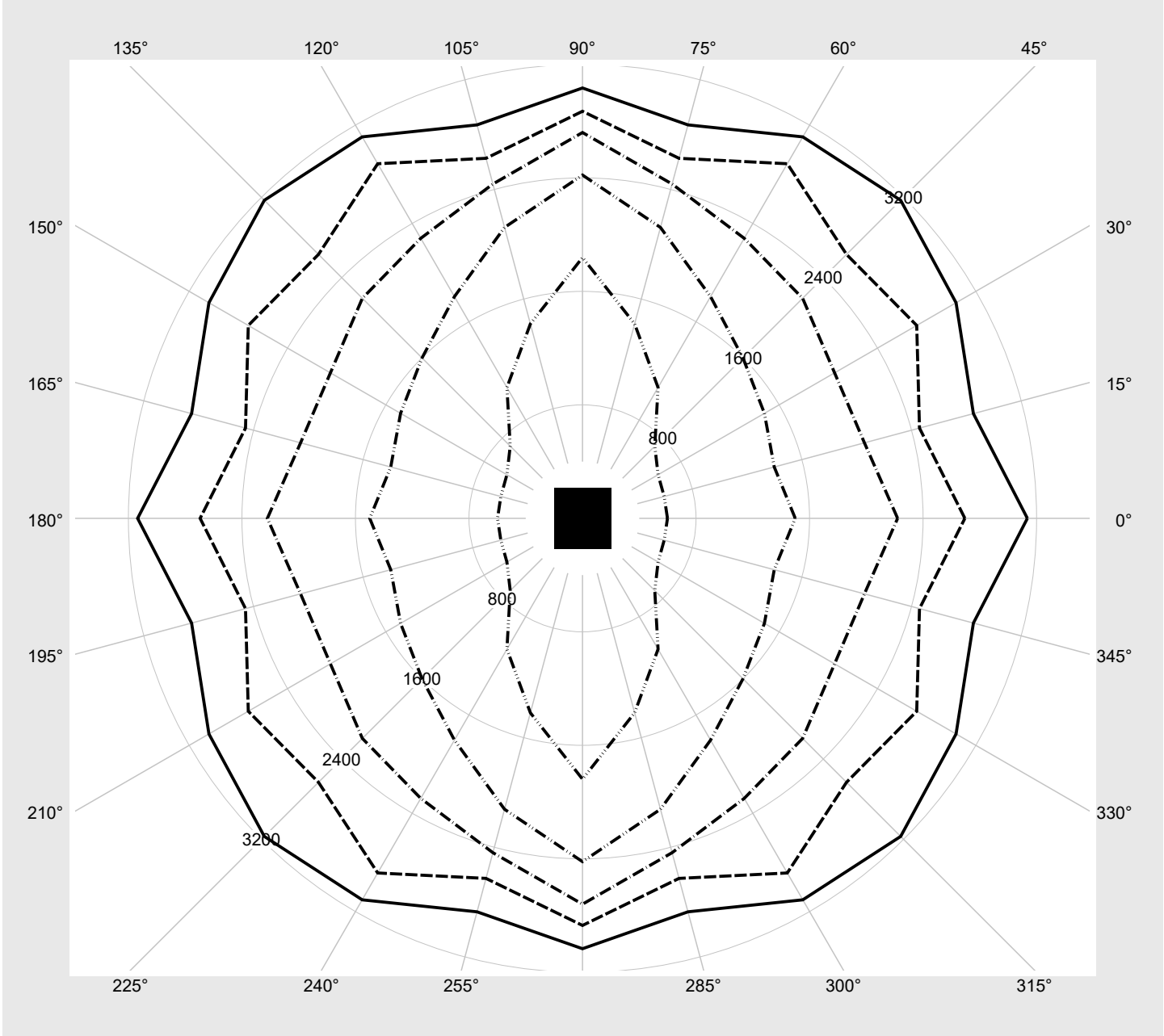
Family
Highbay 11

Order number: 51HN12DA4EBA
EAN: 4069025446589

LP number
59710_471

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



Photometric test report

Family Highbay 11	Order number: 51HN12DA4EBA EAN: 4069025446589	LP number 59710_471
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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	10000	47.7
95	241	252	9503	45.3
90	228	250	9006	42.8
85	215	248	8507	40.5
80	202	246	8001	38.0
75	189	243	7497	35.5
70	176	241	6993	33.2
65	163	238	6487	30.8
60	151	235	6017	28.6
55	138	232	5502	26.2
50	125	228	4989	23.9
45	113	224	4513	21.7
40	100	220	3995	19.3
35	88	215	3515	17.2
30	75	209	2989	14.8
25	63	203	2505	12.8
20	51	195	2019	10.6
15	38	184	1490	8.1
10	26	171	995	5.9
5	14	148	502	3.6
2	7	122	215	2.3