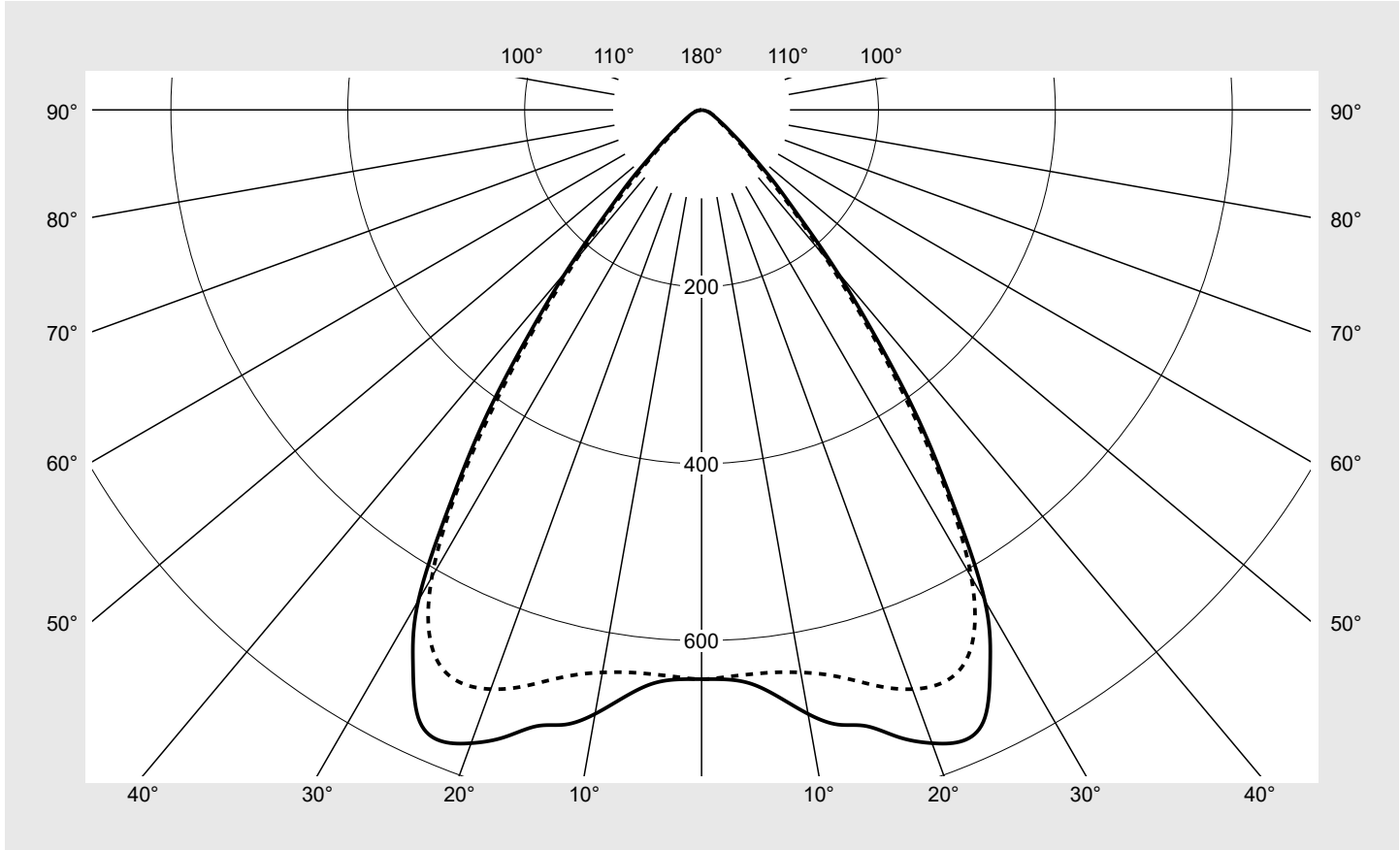


Photometric test report

Family Highbay 11	Order number: 51HN12DA4FDA3S EAN: 4069025321084	LP number 59710_290
	Version primary light control with lens, PMMA, housing, white, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting emergency light operation: 3 h Rated values Net luminous flux = 1010 lm Power consumption = 6.0 W Luminous efficacy = 168.3 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

Photometric test report

Family Highbay 11	Order number: 51HN12DA4FDA3S EAN: 4069025321084	LP number 59710_290
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: 51HN12DA4FDA3S EAN: 4069025321084	LP number 59710_290
----------------------	--	------------------------

UGR-Table	Standard room	siteco								
-----------	---------------	--------	--	--	--	--	--	--	--	--

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	10.6	11.8	10.9	12.1	12.5	10.3	11.5	10.6	11.8	12.2
	3H	10.6	11.7	10.9	12.0	12.4	10.3	11.4	10.7	11.7	12.1
	4H	10.5	11.6	10.9	11.9	12.3	10.3	11.3	10.7	11.7	12.1
	6H	10.5	11.5	10.9	11.8	12.2	10.3	11.3	10.7	11.6	12.0
	8H	10.6	11.4	11.0	11.8	12.2	10.4	11.2	10.8	11.6	12.0
	12H	10.6	11.3	11.0	11.7	12.1	10.4	11.1	10.8	11.5	11.9
4H	2H	10.4	11.5	10.8	11.8	12.2	10.2	11.2	10.6	11.6	11.9
	3H	10.5	11.3	10.9	11.7	12.1	10.2	11.1	10.7	11.5	11.9
	4H	10.5	11.2	10.9	11.7	12.1	10.3	11.0	10.7	11.4	11.9
	6H	10.5	11.1	10.9	11.5	12.0	10.3	11.0	10.8	11.4	11.9
	8H	10.4	11.0	10.9	11.5	11.9	10.3	10.9	10.8	11.4	11.8
	12H	10.4	10.9	10.9	11.4	11.9	10.4	10.8	10.9	11.3	11.8
8H	4H	10.4	11.0	10.9	11.4	11.9	10.2	10.8	10.7	11.2	11.7
	6H	10.4	10.9	10.9	11.3	11.9	10.3	10.7	10.8	11.2	11.7
	8H	10.4	10.8	10.9	11.3	11.8	10.3	10.7	10.8	11.2	11.7
	12H	10.3	10.7	10.9	11.2	11.7	10.3	10.6	10.8	11.1	11.7
12H	4H	10.4	10.9	10.9	11.4	11.9	10.2	10.7	10.7	11.2	11.7
	6H	10.4	10.8	10.9	11.3	11.8	10.3	10.6	10.8	11.1	11.7
	8H	10.4	10.7	10.9	11.2	11.7	10.3	10.6	10.8	11.1	11.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
-----------------	---------------------------------	-------------------------------	--------------------

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°		1490.1	1459.1	1516.7	1555.6	1387.8	1303.0	1299.1		
50,0°		830.2	810.6	809.7	824.2	739.6	705.2	693.1		
55,0°		521.7	507.8	515.0	526.9	477.9	449.3	443.9		
60,0°		375.3	362.3	380.6	392.1	367.1	339.9	344.3		
65,0°		316.6	288.0	307.0	320.3	313.6	290.0	306.4		
70,0°		272.2	248.3	274.7	265.8	291.5	265.4	289.8		
75,0°		224.3	207.7	207.2	221.6	230.2	246.4	274.7		
80,0°		151.4	141.3	149.5	161.5	182.3	214.4	244.4		
85,0°		60.5	60.2	62.1	72.7	107.6	143.3	185.7		

Photometric test report

Family Highbay 11	Order number: 51HN12DA4FDA3S EAN: 4069025321084	LP number 59710_290
-----------------------------	--	-------------------------------

Luminance values in cd/m²
γ 65°
γ 70°
γ 75°
γ 80°
γ 85°
siteco

