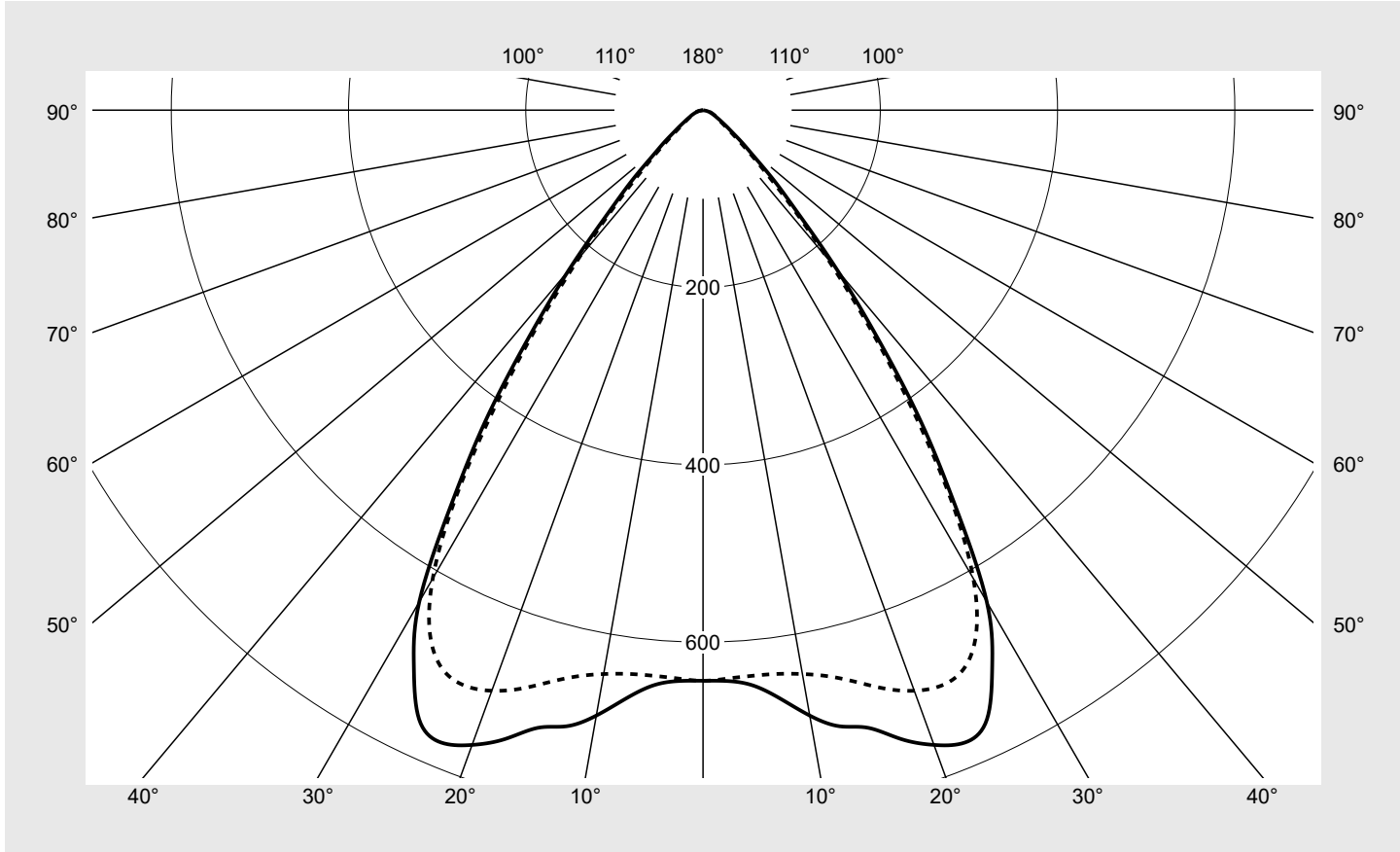


Photometric test report

Family Highbay 11	Order number: 51HN12DA5KDA EAN: 4069025424648	LP number 59710_422
	Version primary light control with lens, PMMA, housing, white, wide distribution	serial documentation 10.04.2025
	Lamps LED 5000 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode Rated values Net luminous flux = 22910 lm Power consumption = 117.2 W Luminous efficacy = 195.5 lm/W	



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: 51HN12DA5KDA EAN: 4069025424648	LP number 59710_422
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: 51HN12DA5KDA EAN: 4069025424648	LP number 59710_422
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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	21.4	22.7	21.8	23.0	23.3	21.1	22.4	21.5	22.7	23.0
	3H	21.4	22.5	21.8	22.9	23.2	21.1	22.2	21.5	22.6	22.9
	4H	21.4	22.4	21.8	22.8	23.2	21.1	22.2	21.5	22.5	22.9
	6H	21.4	22.3	21.8	22.7	23.1	21.2	22.1	21.6	22.5	22.9
	8H	21.4	22.2	21.9	22.6	23.0	21.3	22.1	21.7	22.4	22.8
	12H	21.4	22.1	21.8	22.5	22.9	21.2	22.0	21.7	22.4	22.8
4H	2H	21.3	22.3	21.7	22.7	23.1	21.0	22.0	21.4	22.4	22.8
	3H	21.3	22.2	21.8	22.6	23.0	21.1	21.9	21.5	22.3	22.7
	4H	21.3	22.1	21.8	22.5	22.9	21.1	21.9	21.6	22.3	22.7
	6H	21.3	22.0	21.8	22.4	22.9	21.2	21.8	21.6	22.2	22.7
	8H	21.3	21.9	21.8	22.3	22.8	21.2	21.8	21.6	22.2	22.7
	12H	21.3	21.8	21.8	22.2	22.7	21.2	21.7	21.7	22.1	22.6
8H	4H	21.3	21.8	21.7	22.3	22.8	21.1	21.6	21.5	22.1	22.6
	6H	21.2	21.7	21.7	22.2	22.7	21.1	21.6	21.6	22.1	22.6
	8H	21.2	21.6	21.7	22.1	22.6	21.1	21.5	21.6	22.0	22.6
	12H	21.2	21.5	21.7	22.0	22.6	21.2	21.5	21.7	22.0	22.5
12H	4H	21.3	21.7	21.8	22.2	22.7	21.1	21.5	21.6	22.0	22.5
	6H	21.2	21.6	21.8	22.1	22.6	21.1	21.5	21.6	22.0	22.5
	8H	21.2	21.5	21.7	22.0	22.6	21.1	21.4	21.6	21.9	22.5

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°		33800.0	33096.2	34403.0	35284.8	31478.9	29555.6	29468.6	
50,0°		18832.1	18386.8	18367.5	18695.5	16776.3	15995.7	15721.2	
55,0°		11834.9	11518.4	11682.9	11951.0	10841.2	10190.9	10068.3	
60,0°		8512.2	8217.2	8634.0	8893.1	8326.4	7710.8	7809.0	
65,0°		7182.6	6533.8	6964.2	7264.5	7113.6	6578.6	6950.2	
70,0°		6173.5	5632.7	6230.6	6028.1	6613.0	6019.8	6574.3	
75,0°		5087.6	4712.2	4699.6	5026.3	5222.2	5589.8	6231.3	
80,0°		3434.9	3205.0	3391.5	3663.6	4135.2	4863.7	5544.2	
85,0°		1372.0	1365.0	1409.4	1650.1	2440.1	3251.2	4211.8	

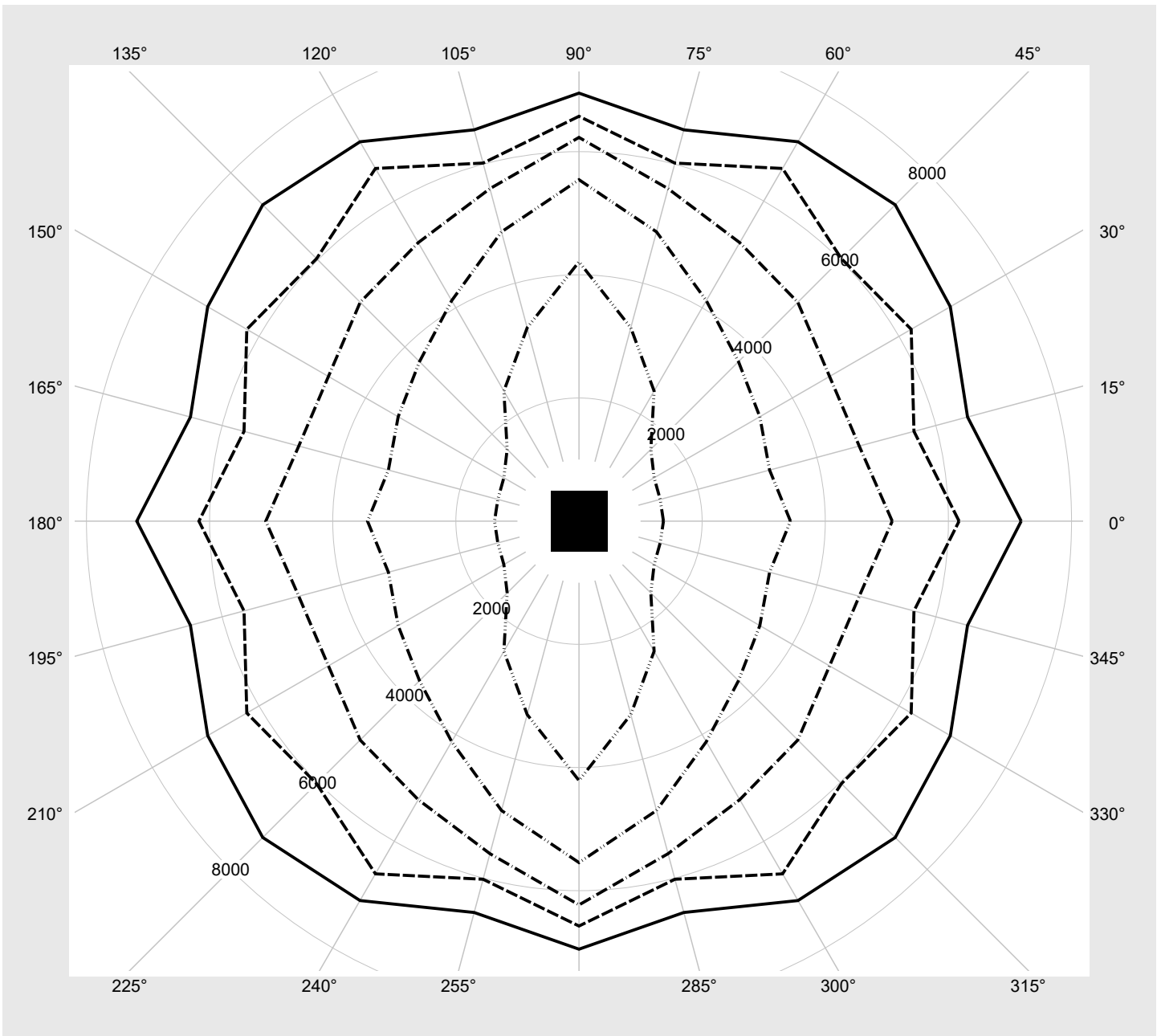
Photometric test report

Family
Highbay 11

Order number: 51HN12DA5KDA
EAN: 4069025424648

LP number
59710_422

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



Photometric test report

Family Highbay 11	Order number: 51HN12DA5KDA EAN: 4069025424648	LP number 59710_422
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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	22910	117.2
95	240	252	21730	110.5
90	227	250	20629	104.4
85	213	248	19431	97.8
80	200	245	18314	91.6
75	187	243	17185	85.6
70	174	240	16054	79.5
65	161	237	14910	73.5
60	148	234	13760	67.6
55	135	231	12600	61.6
50	122	227	11433	55.6
45	110	223	10349	50.1
40	97	219	9159	44.3
35	85	214	8055	38.9
30	72	208	6844	33.1
25	60	201	5720	27.8
20	48	193	4586	22.6
15	36	182	3435	17.4
10	24	168	2279	12.0
5	12	142	1106	6.5
2	6	117	517	3.8