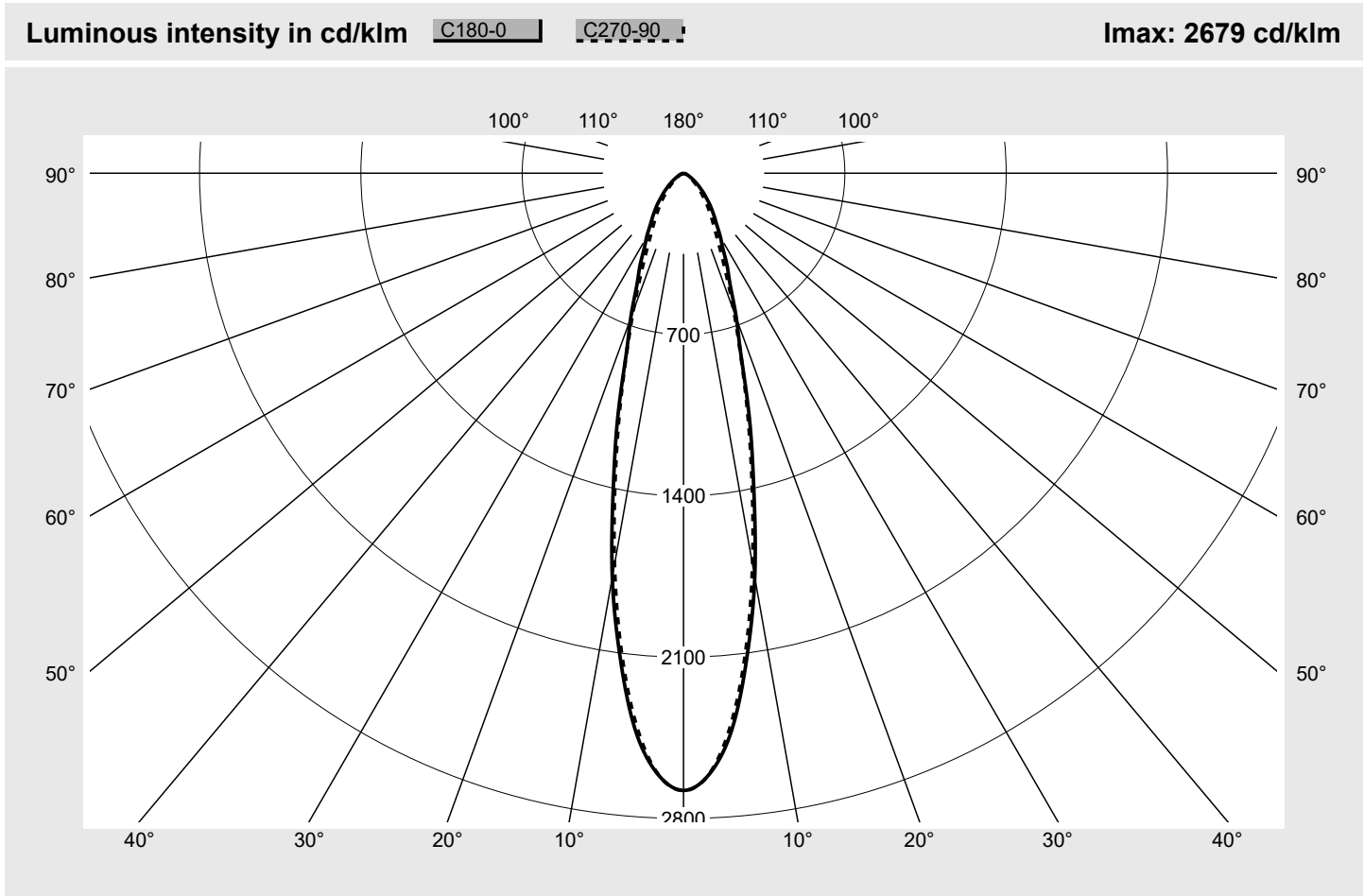


Photometric test report

Family Highbay 11	Order number 51HN11DB4RMA	LP number 59711_343
	Version	primary light control with lens, PMMA, housing, white, for Modario® rail, narrow distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 42500 lm Power consumption = 213.7 W Luminous efficacy = 198.9 lm/W
		serial documentation 18.03.2025
		



Classifications		Luminaire light output ratios	
DIN 5040	A 7 0	η_{LB}	100.0%
CIE	N1=85 N2=97 N3=100	ϕ_u	100.0%
	N4=100 N5=100	ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Highbay 11	Order number 51HN11DB4RMA	LP number 59711_343
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0,0°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	4.0	4.0
2,5°	2608.0	2619.4	2619.4	2616.5	2617.6	2616.2	2606.1	31.3	35.3
5,0°	2420.1	2415.7	2414.1	2408.4	2406.6	2402.3	2391.7	57.6	92.8
7,5°	2113.4	2116.1	2112.3	2103.0	2097.6	2090.5	2079.6	75.2	168.1
10,0°	1780.1	1768.7	1762.7	1751.6	1743.6	1735.2	1724.7	83.4	251.5
12,5°	1410.1	1409.3	1404.7	1395.9	1388.1	1380.5	1373.1	82.8	334.3
15,0°	1106.5	1097.8	1095.0	1089.4	1083.1	1078.4	1073.9	77.3	411.5
17,5°	830.1	840.2	835.5	831.1	826.6	824.9	824.1	68.5	480.0
20,0°	671.1	661.9	651.8	643.2	639.9	639.4	641.0	60.8	540.8
22,5°	531.9	530.5	514.2	498.9	497.0	496.6	496.8	53.4	594.2
25,0°	450.6	441.3	420.6	401.3	399.0	395.8	392.4	47.9	642.1
27,5°	370.8	368.7	351.4	331.7	326.8	321.1	316.0	43.1	685.2
30,0°	320.4	312.1	300.8	284.1	278.0	270.2	264.7	39.7	724.9
32,5°	271.0	266.8	259.0	245.6	238.0	229.0	224.7	36.5	761.4
35,0°	235.8	228.9	222.7	210.5	201.6	193.0	191.7	33.3	794.7
37,5°	204.4	197.8	191.5	181.1	172.0	164.3	162.4	30.3	825.0
40,0°	176.7	170.7	163.1	154.3	146.1	138.3	135.6	27.3	852.2
42,5°	147.6	145.5	138.6	130.6	123.2	115.8	113.3	24.2	876.4
45,0°	126.0	121.8	116.3	109.0	102.0	95.3	93.2	21.1	897.6
47,5°	103.2	101.5	97.1	90.9	84.6	78.4	76.7	18.3	915.9
50,0°	85.9	82.9	79.4	74.6	69.1	63.7	61.9	15.5	931.4
52,5°	69.0	67.2	64.5	61.0	56.2	51.6	49.7	13.0	944.4
55,0°	55.6	54.1	52.2	49.5	45.7	41.7	40.0	10.9	955.3
57,5°	43.6	43.1	41.8	39.8	37.0	33.6	32.2	9.0	964.3
60,0°	33.2	33.3	33.9	32.4	30.5	27.5	26.1	7.4	971.7
62,5°	25.9	26.0	27.0	26.2	25.1	22.4	21.3	6.1	977.8
65,0°	21.6	21.2	21.7	21.3	20.9	18.8	17.7	5.1	982.9
67,5°	17.0	17.1	17.8	17.0	17.3	15.6	14.8	4.3	987.2
70,0°	13.5	13.4	14.4	13.6	14.1	13.0	12.4	3.5	990.7
72,5°	11.0	10.8	10.9	10.9	11.0	10.7	10.6	2.8	993.5
75,0°	9.0	8.4	8.4	8.3	8.6	9.0	8.9	2.3	995.8
77,5°	6.6	6.4	6.2	6.2	6.6	7.3	7.4	1.8	997.5
80,0°	4.4	4.2	4.1	4.2	4.7	5.7	5.8	1.3	998.8
82,5°	2.0	2.1	2.2	2.4	3.0	3.9	4.1	0.8	999.6
85,0°	0.8	0.8	0.8	1.0	1.5	2.2	2.4	0.4	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

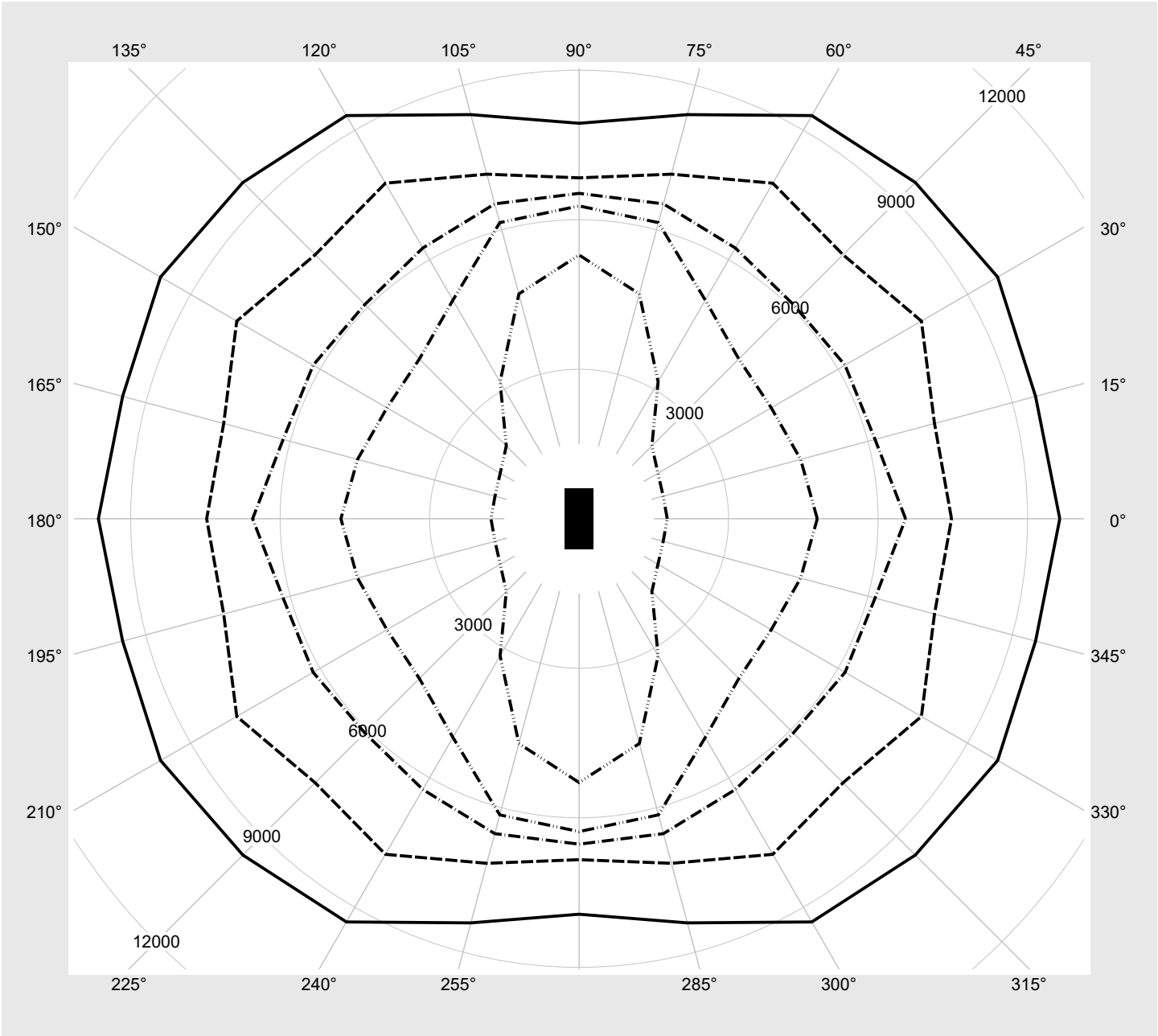
Family Highbay 11		Order number 51HN11DB4RMA						LP number 59711_343		
UGR-Table		Standard room						siteco		
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		View crosswise (C0)					View endwise (C90)			
x	y									
2H	2H	20.1	21.3	20.5	21.6	21.9	18.9	20.1	19.3	20.4
	3H	20.3	21.4	20.7	21.7	22.1	19.2	20.2	19.6	20.6
	4H	20.4	21.4	20.8	21.7	22.1	19.3	20.3	19.7	20.6
	6H	20.5	21.3	20.9	21.7	22.1	19.5	20.3	19.9	20.7
	8H	20.5	21.2	21.0	21.6	22.0	19.6	20.3	20.0	20.7
	12H	20.5	21.1	20.9	21.5	22.0	19.6	20.3	20.0	20.7
4H	2H	20.2	21.1	20.6	21.5	21.8	19.1	20.0	19.5	20.4
	3H	20.5	21.3	20.9	21.7	22.1	19.5	20.3	19.9	20.7
	4H	20.6	21.3	21.0	21.7	22.1	19.7	20.4	20.1	20.8
	6H	20.7	21.3	21.1	21.7	22.2	19.9	20.5	20.4	20.9
	8H	20.7	21.2	21.1	21.6	22.1	20.0	20.5	20.5	20.9
	12H	20.7	21.1	21.1	21.5	22.0	20.0	20.5	20.5	20.9
8H	4H	20.6	21.1	21.1	21.6	22.0	19.7	20.2	20.2	20.7
	6H	20.7	21.1	21.2	21.6	22.1	20.0	20.4	20.5	20.9
	8H	20.6	21.0	21.2	21.5	22.0	20.1	20.4	20.6	20.9
	12H	20.6	20.9	21.1	21.4	22.0	20.1	20.4	20.7	20.9
12H	4H	20.6	21.0	21.1	21.5	22.0	19.7	20.1	20.2	20.6
	6H	20.6	21.0	21.2	21.5	22.0	19.9	20.3	20.5	20.8
	8H	20.6	20.9	21.2	21.4	22.0	20.0	20.3	20.6	20.8

Luminance table			Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 B = 264	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
		Luminance in cd/m²						
γ								
45,0°	33665.9	32541.9	31076.0	29132.3	27256.4	25473.3	24903.1	
50,0°	25238.2	24359.6	23327.8	21942.7	20297.5	18712.5	18182.8	
55,0°	18313.0	17817.2	17199.8	16306.4	15050.4	13737.6	13185.5	
60,0°	12564.8	12578.4	12812.3	12240.9	11513.1	10387.3	9868.8	
65,0°	9646.9	9484.2	9699.2	9542.3	9340.7	8394.2	7934.5	
70,0°	7474.1	7384.1	7932.6	7491.2	7774.1	7157.0	6839.9	
75,0°	6552.1	6149.2	6163.0	6079.8	6272.5	6540.5	6528.8	
80,0°	4780.1	4602.7	4452.6	4533.1	5065.2	6151.1	6276.3	
85,0°	1769.0	1747.4	1827.6	2066.1	3171.7	4669.8	5292.0	

Photometric test report

Family Highbay 11	Order number 51HN11DB4RMA	LP number 59711_343
Luminance values in cd/m²		γ 65° γ 70° γ 75° γ 80° γ 85°

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Photometric test report

Family Highbay 11	Order number 51HN11DB4RMA	LP number 59711_343
Dimming levels table		environmental temperature: 25°C

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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	42500	213.7
95	240	252	40311	201.5
90	227	250	38258	190.0
85	214	248	36193	178.8
80	200	245	33955	166.7
75	187	243	31858	155.5
70	174	240	29749	144.4
65	161	237	27625	133.3
60	148	234	25488	122.5
55	135	231	23337	111.6
50	122	227	21171	100.8
45	110	223	19157	90.8
40	97	219	16955	80.1
35	85	214	14901	70.3
30	73	208	12834	60.7
25	60	201	10579	50.1
20	48	193	8469	40.5
15	36	182	6345	31.1
10	24	168	4202	21.7
5	12	142	2034	12.0
1	4	102	581	5.4