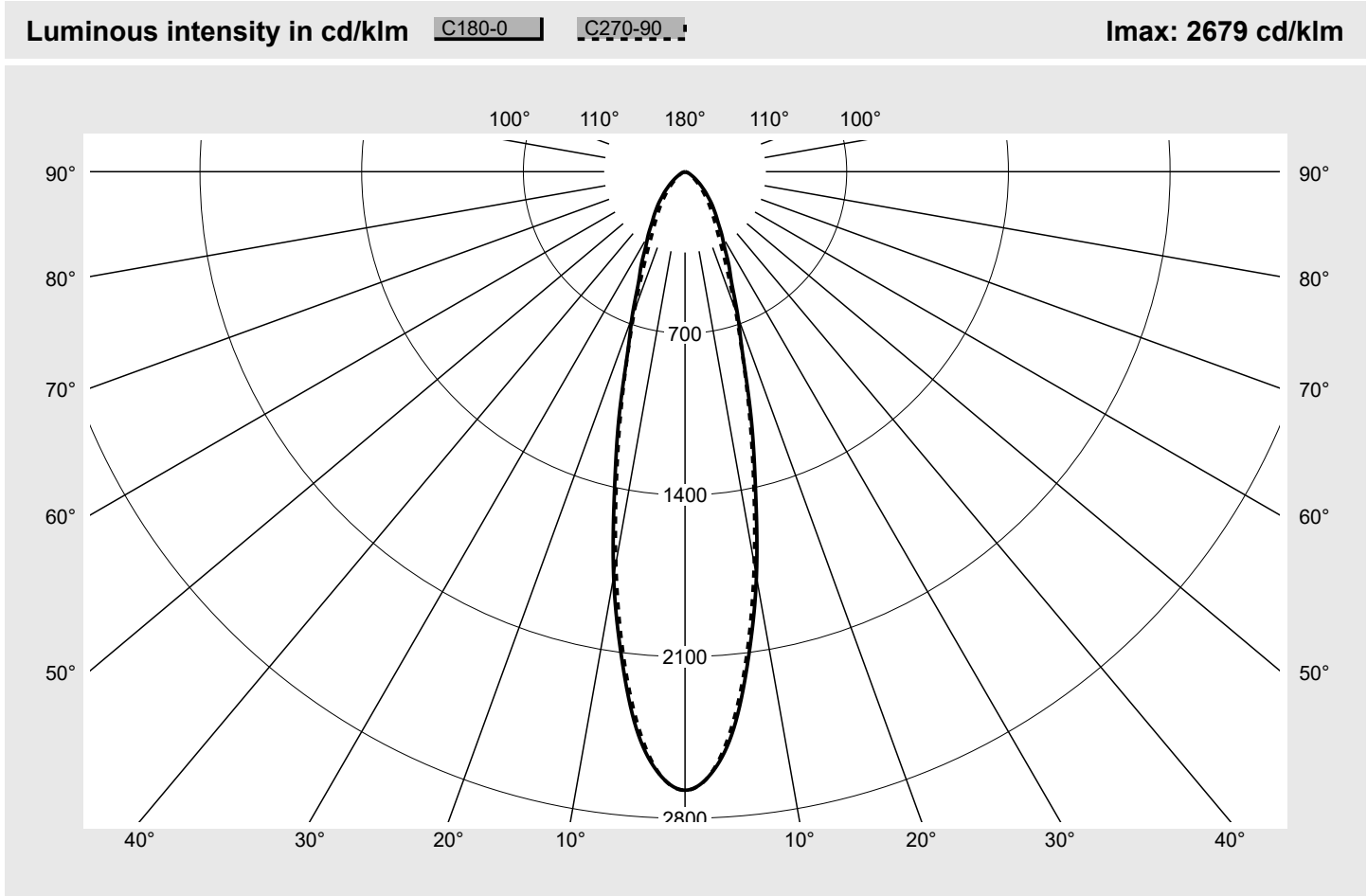


Photometric test report

Family Highbay 11	Order number: 51HN11DB6TMA EAN: 4069025424532	LP number 59711_446
	Version	primary light control with lens, PMMA, housing, white, for Modario® rail, narrow distribution
	Lamps	LED 6500 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 53100 lm Power consumption = 295.1 W Luminous efficacy = 179.9 lm/W
		serial documentation 10.04.2025
		



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: 51HN11DB6TMA EAN: 4069025424532	LP number 59711_446
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: 51HN11DB6TMA EAN: 4069025424532							LP number 59711_446	
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	20.9	22.1	21.2	22.4	22.7	19.7	20.9	20.0	21.2	21.5
	3H	21.1	22.1	21.5	22.5	22.8	20.0	21.0	20.4	21.3	21.7
	4H	21.2	22.1	21.6	22.5	22.9	20.1	21.1	20.5	21.4	21.8
	6H	21.2	22.1	21.7	22.4	22.8	20.3	21.1	20.7	21.5	21.9
	8H	21.3	22.0	21.7	22.4	22.8	20.4	21.1	20.8	21.5	21.9
	12H	21.3	21.9	21.7	22.3	22.7	20.4	21.1	20.8	21.4	21.9
4H	2H	20.9	21.9	21.3	22.2	22.6	19.9	20.8	20.3	21.2	21.6
	3H	21.3	22.0	21.7	22.4	22.8	20.3	21.1	20.7	21.5	21.9
	4H	21.4	22.1	21.8	22.5	22.9	20.5	21.2	20.9	21.6	22.0
	6H	21.4	22.0	21.9	22.5	22.9	20.7	21.3	21.1	21.7	22.2
	8H	21.4	22.0	21.9	22.4	22.9	20.8	21.3	21.2	21.7	22.2
	12H	21.4	21.8	21.9	22.3	22.8	20.8	21.2	21.3	21.7	22.2
8H	4H	21.4	21.9	21.8	22.3	22.8	20.5	21.0	21.0	21.5	21.9
	6H	21.4	21.9	21.9	22.3	22.9	20.7	21.2	21.2	21.6	22.1
	8H	21.4	21.8	21.9	22.3	22.8	20.8	21.2	21.3	21.7	22.2
	12H	21.4	21.7	21.9	22.2	22.7	20.9	21.2	21.4	21.7	22.3
12H	4H	21.3	21.8	21.8	22.2	22.7	20.5	20.9	21.0	21.4	21.9
	6H	21.4	21.8	21.9	22.3	22.8	20.7	21.1	21.2	21.6	22.1
	8H	21.4	21.7	21.9	22.2	22.8	20.8	21.1	21.3	21.6	22.2

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°
γ	Luminance in cd/m²						
45,0°	42062.5	40658.3	38826.7	36398.2	34054.5	31826.7	31114.2
50,0°	31532.9	30435.2	29146.0	27415.5	25359.9	23379.6	22717.8
55,0°	22880.4	22261.0	21489.7	20373.5	18804.1	17163.9	16474.1
60,0°	15698.6	15715.5	16007.8	15293.9	14384.6	12978.0	12330.2
65,0°	12053.0	11849.6	12118.3	11922.2	11670.3	10487.8	9913.5
70,0°	9338.2	9225.7	9911.1	9359.6	9713.0	8942.0	8545.8
75,0°	8186.3	7682.8	7700.2	7596.2	7837.0	8171.7	8157.1
80,0°	5972.3	5750.7	5563.1	5663.7	6328.5	7685.3	7841.6
85,0°	2210.3	2183.2	2283.4	2581.4	3962.8	5834.5	6611.8

Photometric test report

Family
Highbay 11

Order number: 51HN11DB6TMA
EAN: 4069025424532

LP number
59711_446

Luminance values in cd/m²

γ 65°

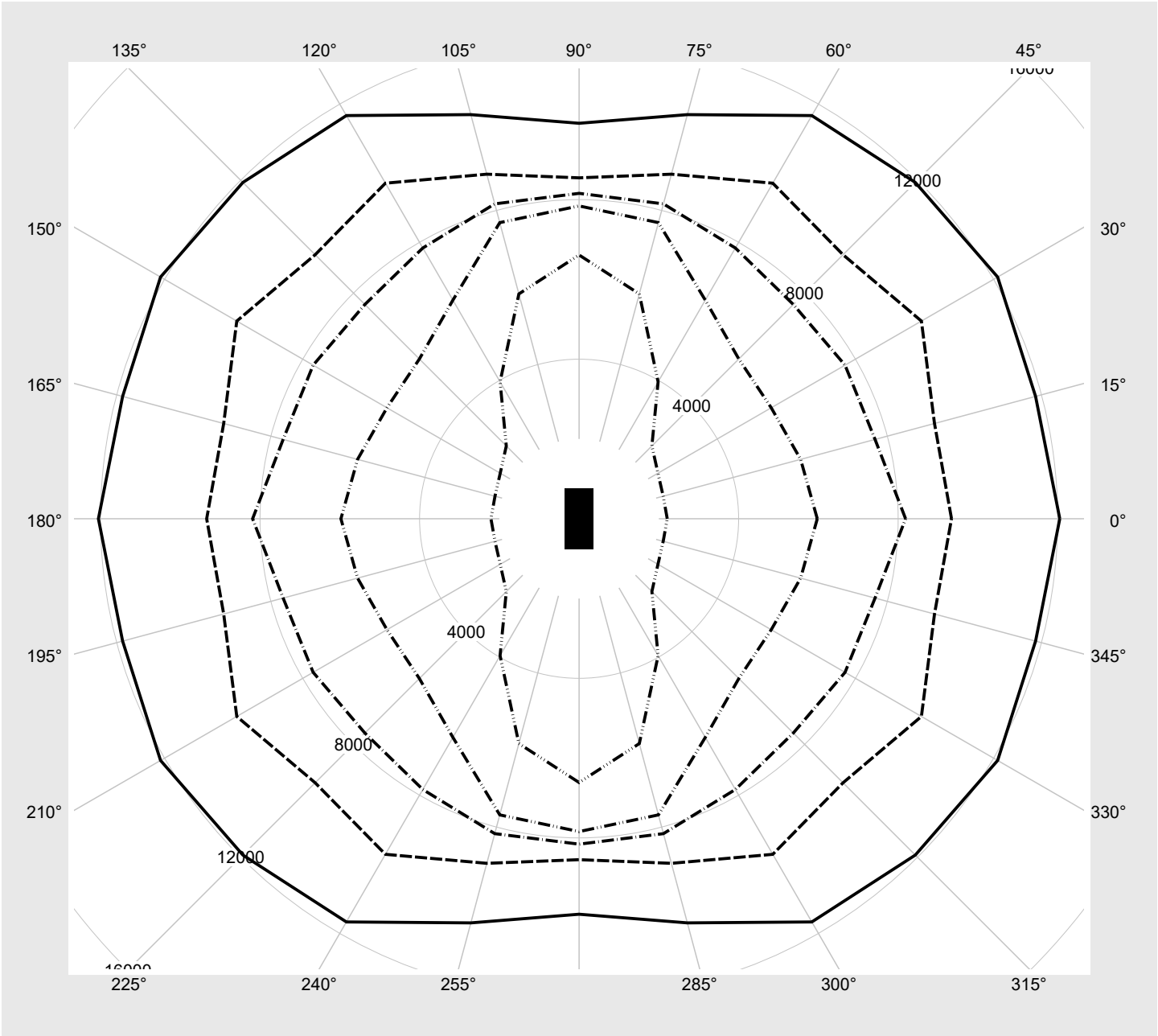
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HN11DB6TMA EAN: 4069025424532	LP number 59711_446
Dimming levels table environmental temperature: 25°C		sit eco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	53100	295.1
95	240	252	50469	278.0
90	226	250	47746	261.1
85	213	248	45219	245.4
80	199	245	42468	228.3
75	186	243	39879	213.0
70	173	240	37275	197.6
65	159	237	34418	181.0
60	147	234	31946	167.0
55	134	231	29255	152.0
50	121	227	26540	137.0
45	108	223	23813	122.3
40	96	218	21262	108.4
35	84	213	18680	95.0
30	71	207	15866	80.5
25	59	201	13239	67.3
20	47	192	10575	54.1
15	35	181	7891	41.2
10	24	168	5405	29.2
5	12	142	2664	15.7
2	5	110	1056	7.9