

Photometric test report

Family Highbay 11	Order number: 51HN11DB5VMA EAN: 4069025424433	LP number 59711_445
	Version	primary light control with lens, PMMA, housing, white, for Modario® rail, narrow distribution
	Lamps	LED 5000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 55810 lm Power consumption = 294.9 W Luminous efficacy = 189.3 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

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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

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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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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	21.1	22.2	21.4	22.5	22.9	19.9	21.0	20.2	21.3
	3H	21.3	22.3	21.7	22.7	23.0	20.2	21.2	20.5	21.5
	4H	21.4	22.3	21.8	22.7	23.0	20.3	21.2	20.7	21.6
	6H	21.4	22.2	21.8	22.6	23.0	20.4	21.3	20.8	21.6
	8H	21.5	22.2	21.9	22.6	23.0	20.5	21.3	21.0	21.7
	12H	21.4	22.1	21.9	22.5	22.9	20.5	21.2	21.0	21.6
4H	2H	21.1	22.1	21.5	22.4	22.8	20.1	21.0	20.5	21.4
	3H	21.4	22.2	21.9	22.6	23.0	20.5	21.2	20.9	21.6
	4H	21.5	22.2	22.0	22.7	23.1	20.6	21.3	21.1	21.8
	6H	21.6	22.2	22.1	22.6	23.1	20.8	21.4	21.3	21.9
	8H	21.6	22.1	22.1	22.6	23.1	20.9	21.4	21.4	21.9
	12H	21.6	22.0	22.1	22.5	23.0	21.0	21.4	21.5	21.9
8H	4H	21.5	22.0	22.0	22.5	23.0	20.7	21.2	21.2	21.6
	6H	21.6	22.0	22.1	22.5	23.0	20.9	21.3	21.4	21.8
	8H	21.6	22.0	22.1	22.5	23.0	21.0	21.4	21.5	21.9
	12H	21.6	21.9	22.1	22.4	22.9	21.1	21.4	21.6	21.9
12H	4H	21.5	21.9	22.0	22.4	22.9	20.7	21.1	21.2	21.6
	6H	21.6	21.9	22.1	22.4	23.0	20.9	21.2	21.4	21.7
	8H	21.6	21.9	22.1	22.4	22.9	21.0	21.3	21.5	21.8

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 B = 264	
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°
			Luminance in cd/m²				
45,0° 50,0° 55,0° 60,0°	γ		44209.2	42733.3	40808.3	38255.8	35792.5
			33142.2	31988.4	30633.5	28814.7	26654.1
			24048.2	23397.1	22586.4	21413.2	19763.8
			16499.7	16517.6	16824.8	16074.5	15118.7
65,0° 70,0° 75,0° 80,0°	γ		12668.1	12454.4	12736.8	12530.7	12265.9
			9814.8	9696.6	10417.0	9837.3	10208.8
			8604.1	8074.9	8093.2	7983.9	8237.0
			6277.1	6044.2	5847.0	5952.7	6651.5
85,0°	γ		2323.1	2294.6	2399.9	2713.1	4165.0

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LP number
59711_445

Luminance values in cd/m²

γ 65°

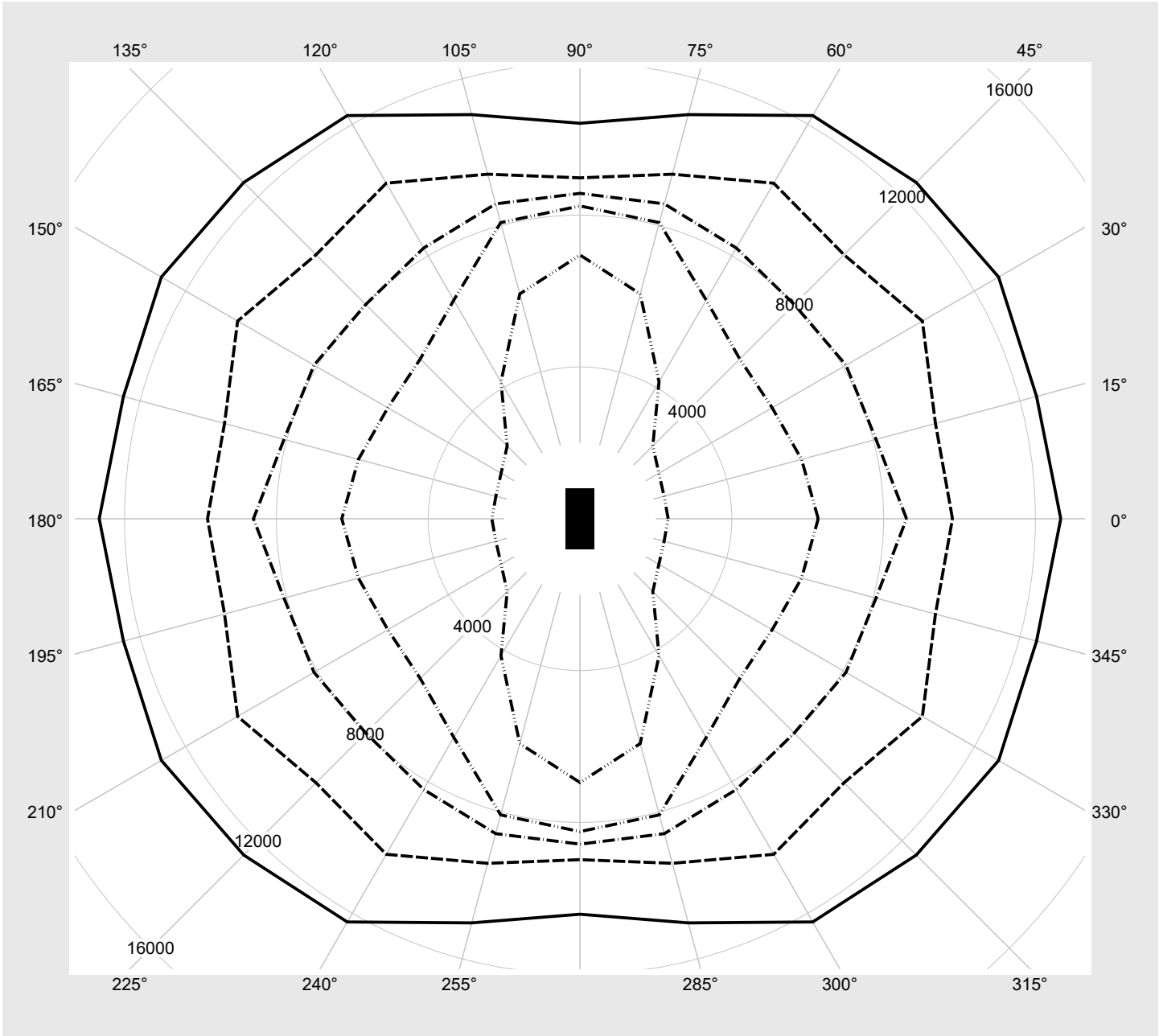
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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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	55810	294.9
95	240	252	53025	277.9
90	226	250	50152	261.0
85	213	248	47487	245.4
80	199	245	44591	228.3
75	186	243	41867	213.0
70	173	240	39133	197.7
65	160	237	36347	182.3
60	147	234	33543	167.1
55	134	231	30723	152.1
50	121	227	27879	137.1
45	108	223	25022	122.4
40	96	218	22349	108.5
35	84	213	19642	95.1
30	71	207	16690	80.6
25	59	201	13932	67.4
20	47	192	11131	54.2
15	35	181	8303	41.2
10	24	168	5680	29.3
5	12	142	2780	15.7
2	5	110	1077	7.9