

Photometric test report

Family Highbay 11	Order number: 51HN11DB4QDA01 EAN: 4069025358189	LP number 59711_52
	Version	primary light control with lens, PMMA, housing, white, narrow distribution, with multisensor node BT
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 36000 lm Power consumption = 178.2 W Luminous efficacy = 202 lm/W
		serial documentation 30.01.2025
		siteco



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

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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	19.5	20.7	19.9	21.0	21.3	18.3	19.5	18.7	19.8
	3H	19.8	20.8	20.1	21.1	21.5	18.6	19.7	19.0	20.0
	4H	19.8	20.8	20.2	21.1	21.5	18.8	19.7	19.2	20.1
	6H	19.9	20.7	20.3	21.1	21.5	18.9	19.7	19.3	20.1
	8H	20.0	20.7	20.4	21.0	21.5	19.0	19.7	19.4	20.1
	12H	19.9	20.6	20.3	21.0	21.4	19.0	19.7	19.5	20.1
4H	2H	19.6	20.5	20.0	20.9	21.3	18.5	19.5	18.9	19.8
	3H	19.9	20.7	20.3	21.1	21.5	18.9	19.7	19.4	20.1
	4H	20.0	20.7	20.5	21.1	21.6	19.1	19.8	19.6	20.2
	6H	20.1	20.7	20.6	21.1	21.6	19.3	19.9	19.8	20.3
	8H	20.1	20.6	20.6	21.1	21.5	19.4	19.9	19.9	20.4
	12H	20.1	20.5	20.6	21.0	21.5	19.5	19.9	20.0	20.4
8H	4H	20.0	20.5	20.5	21.0	21.5	19.2	19.7	19.6	20.1
	6H	20.1	20.5	20.6	21.0	21.5	19.4	19.8	19.9	20.3
	8H	20.1	20.4	20.6	20.9	21.5	19.5	19.8	20.0	20.3
	12H	20.0	20.3	20.6	20.9	21.4	19.6	19.9	20.1	20.4
12H	4H	20.0	20.4	20.5	20.9	21.4	19.1	19.6	19.6	20.0
	6H	20.1	20.4	20.6	20.9	21.4	19.4	19.7	19.9	20.2
	8H	20.1	20.4	20.6	20.9	21.4	19.5	19.8	20.0	20.3

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°	28517.0	27564.9	26323.2	24676.8	23087.8	21577.4	21094.4	
50,0°	21378.3	20634.0	19760.0	18586.8	17193.1	15850.6	15401.9	
55,0°	15512.2	15092.2	14569.3	13812.5	12748.5	11636.6	11168.9	
60,0°	10643.1	10654.6	10852.8	10368.8	9752.2	8798.7	8359.5	
65,0°	8171.5	8033.6	8215.8	8082.9	7912.1	7110.3	6721.0	
70,0°	6331.0	6254.7	6719.4	6345.5	6585.1	6062.4	5793.8	
75,0°	5550.1	5208.7	5220.5	5150.0	5313.2	5540.2	5530.3	
80,0°	4049.0	3898.8	3771.6	3839.8	4290.5	5210.4	5316.4	
85,0°	1498.5	1480.1	1548.1	1750.1	2686.6	3955.6	4482.6	

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LP number
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Luminance values in cd/m²

γ 65°

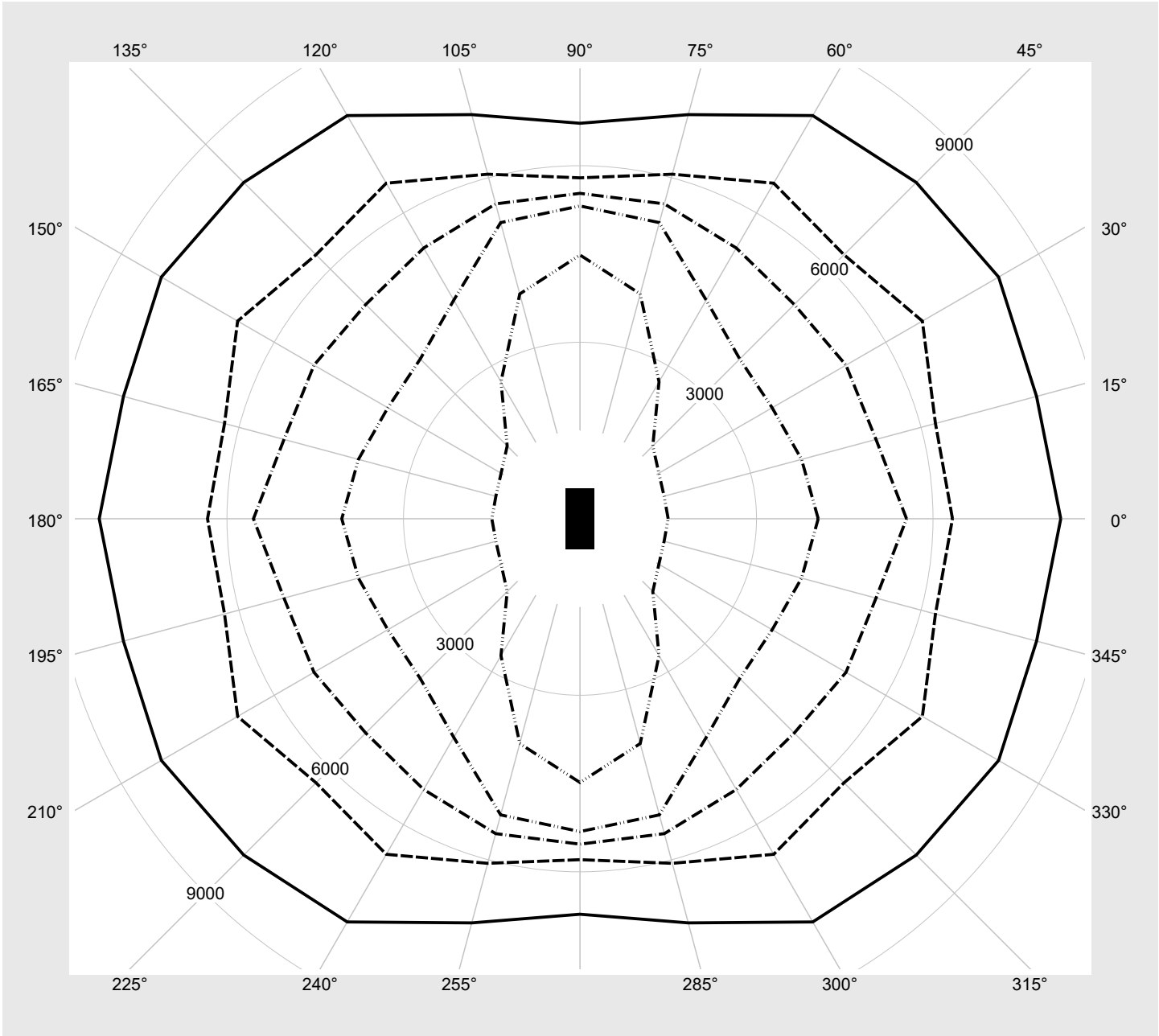
γ 70°

γ 75°

γ 80°

γ 85°

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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	36000	178.2
95	241	252	34258	168.8
90	227	250	32370	158.7
85	214	248	30612	149.5
80	201	245	28833	140.1
75	188	243	27050	131.0
70	175	240	25256	121.7
65	162	238	23457	112.7
60	149	234	21641	103.6
55	136	231	19822	94.6
50	123	227	17982	85.6
45	111	224	16268	77.4
40	98	219	14402	68.5
35	86	214	12670	60.4
30	73	208	10780	51.5
25	61	202	9014	43.5
20	49	194	7241	35.6
15	37	183	5454	27.7
10	25	169	3653	19.8
5	13	145	1834	11.6
1	4	102	463	5.3