


Photometric test report

Family Highbay 11	Order number: 51HN11DADKDA EAN: 4069025444929	LP number 59711_452
	Version	primary light control with lens, PMMA, housing, white, narrow distribution
	Lamps	LED 4000 K CRI ≥ 90
	Controlgear	ECG-DALI
	Setting	AC-mode
Rated values	Net luminous flux = 23940 lm Power consumption = 146.6 W Luminous efficacy = 163.3 lm/W	serial documentation 26.05.2025
		

Luminous intensity in cd/klm
C180-0
C270-90
Imax: 2679 cd/klm



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=97 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

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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°	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	
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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	20.5	21.7	20.9	22.0	22.3	19.3	20.5	19.7	20.8	21.1
	3H	20.8	21.8	21.1	22.1	22.5	19.6	20.7	20.0	21.0	21.3
	4H	20.8	21.8	21.2	22.1	22.5	19.8	20.7	20.2	21.1	21.4
	6H	20.9	21.7	21.3	22.1	22.5	19.9	20.7	20.3	21.1	21.5
	8H	20.9	21.7	21.4	22.0	22.4	20.0	20.7	20.4	21.1	21.5
	12H	20.9	21.6	21.3	22.0	22.4	20.0	20.7	20.5	21.1	21.5
4H	2H	20.6	21.5	21.0	21.9	22.3	19.5	20.5	19.9	20.8	21.2
	3H	20.9	21.7	21.3	22.1	22.5	19.9	20.7	20.4	21.1	21.5
	4H	21.0	21.7	21.5	22.1	22.6	20.1	20.8	20.6	21.2	21.7
	6H	21.1	21.7	21.6	22.1	22.6	20.3	20.9	20.8	21.3	21.8
	8H	21.1	21.6	21.6	22.0	22.5	20.4	20.9	20.9	21.4	21.8
	12H	21.1	21.5	21.6	22.0	22.5	20.5	20.9	20.9	21.4	21.9
8H	4H	21.0	21.5	21.5	22.0	22.5	20.1	20.7	20.6	21.1	21.6
	6H	21.1	21.5	21.6	22.0	22.5	20.4	20.8	20.9	21.3	21.8
	8H	21.1	21.4	21.6	21.9	22.5	20.5	20.8	21.0	21.3	21.9
	12H	21.0	21.3	21.6	21.8	22.4	20.5	20.8	21.1	21.4	21.9
12H	4H	21.0	21.4	21.5	21.9	22.4	20.1	20.6	20.6	21.0	21.5
	6H	21.1	21.4	21.6	21.9	22.4	20.4	20.7	20.9	21.2	21.7
	8H	21.0	21.3	21.6	21.9	22.4	20.5	20.8	21.0	21.3	21.8

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°		37927.6	36661.4	35009.9	32820.1	30706.8	28697.9	28055.5	
50,0°		28433.1	27443.2	26280.8	24720.4	22866.9	21081.2	20484.5	
55,0°		20631.2	20072.6	19377.1	18370.6	16955.6	15476.6	14854.6	
60,0°		14155.3	14170.6	14434.2	13790.4	12970.5	11702.2	11118.1	
65,0°		10868.1	10684.8	10927.0	10750.2	10523.1	9456.8	8939.0	
70,0°		8420.2	8318.8	8936.8	8439.5	8758.2	8063.0	7705.7	
75,0°		7381.6	6927.6	6943.2	6849.4	7066.6	7368.4	7355.3	
80,0°		5385.2	5185.4	5016.2	5106.9	5706.4	6929.8	7070.8	
85,0°		1993.0	1968.6	2058.9	2327.6	3573.2	5260.9	5961.9	

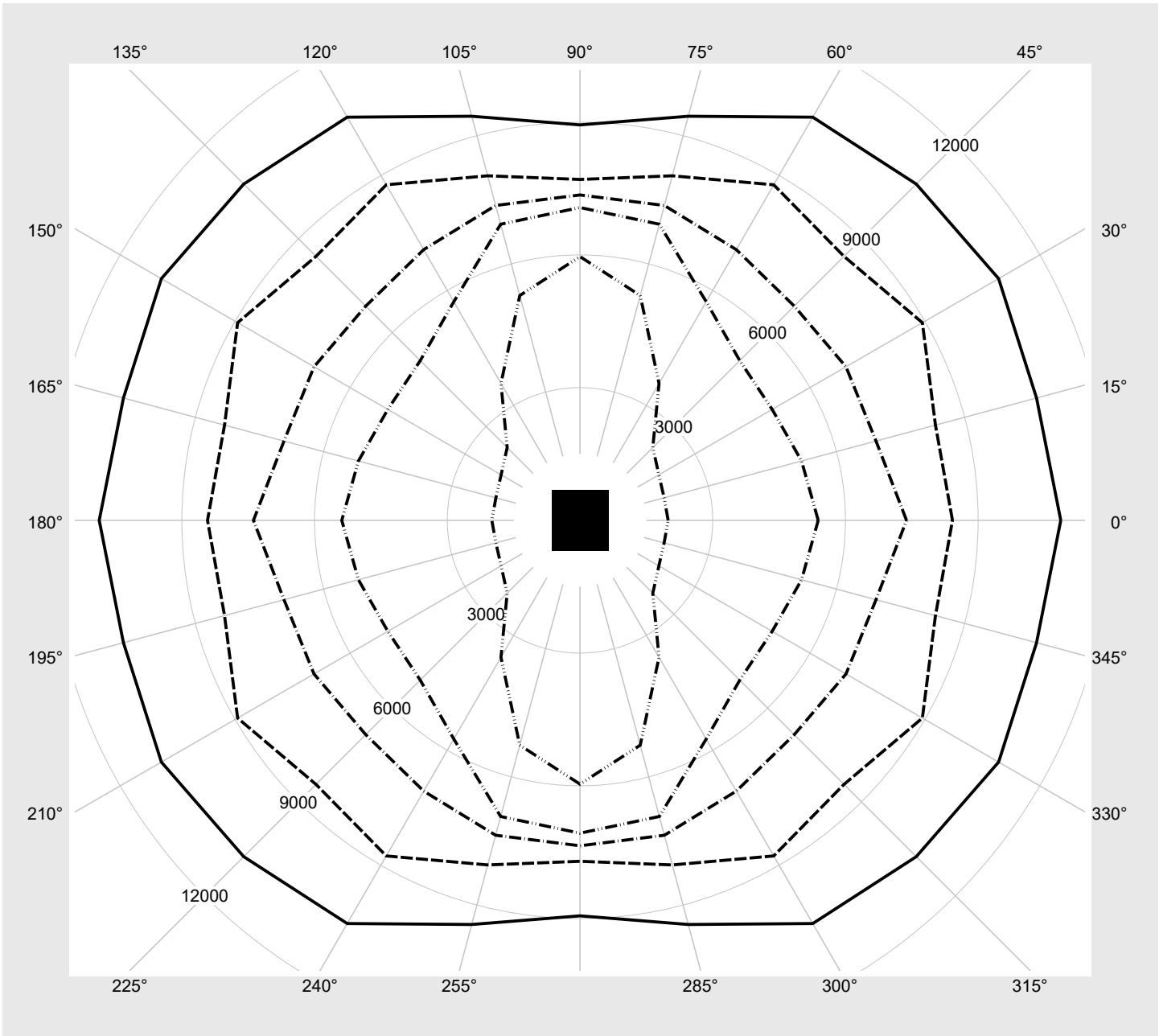
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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siteco



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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	23940	146.6
95	240	252	22780	137.9
90	225	250	21509	128.5
85	211	247	20315	120.0
80	198	245	19193	112.0
75	184	242	17965	103.6
70	170	239	16718	95.4
65	157	236	15541	87.7
60	144	233	14357	80.2
55	131	230	13150	72.7
50	118	226	11928	65.3
45	106	222	10784	58.5
40	93	217	9532	51.1
35	81	212	8355	44.5
30	69	206	7166	37.9
25	57	199	5957	31.5
20	46	191	4838	25.7
15	34	180	3597	19.4
10	23	166	2446	13.5
5	11	139	1171	7.0
2	5	110	528	3.7