

Photometric test report

Family Highbay 11	Order number: 51HN12DA4HEA EAN: 4069025684554	LP number 59710_117
	Version	primary light control with lens, PMMA, housing, white, wide distribution
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	AC-mode
	Rated values	Net luminous flux = 18500 lm Power consumption = 91.8 W Luminous efficacy = 201.5 lm/W
		serial documentation 14.02.2025
		

Luminous intensity in cd/klm
C180-0
C270-90
Imax: 772 cd/klm



Classifications	
DIN 5040	A 6 0
CIE	N1=88 N2=98 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°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	1.0	1.0
2,5°	644.5	645.1	645.0	644.3	644.2	643.7	641.7	7.7	8.7
5,0°	651.5	652.3	650.7	647.5	645.3	643.2	640.4	15.5	24.1
7,5°	669.6	669.1	664.2	657.2	651.2	645.8	641.3	23.5	47.6
10,0°	693.4	691.0	681.5	670.0	659.9	651.2	645.8	31.9	79.6
12,5°	711.8	709.4	700.3	685.9	671.9	660.7	654.0	40.7	120.2
15,0°	721.3	721.7	717.1	704.9	689.4	675.9	667.7	49.7	169.9
17,5°	743.8	740.8	737.9	726.5	708.9	693.0	684.2	59.4	229.3
20,0°	761.9	761.9	759.6	745.2	724.0	705.6	696.8	69.2	298.5
22,5°	772.0	771.2	770.0	754.7	731.1	710.8	702.6	78.2	376.7
25,0°	758.1	756.6	756.3	743.6	722.7	703.3	695.6	85.1	461.8
27,5°	706.7	709.5	709.5	700.0	685.7	672.3	667.0	87.8	549.7
30,0°	640.4	635.6	633.7	626.6	621.7	614.1	609.9	85.8	635.5
32,5°	530.6	537.6	535.6	526.2	530.2	524.1	520.8	78.1	713.6
35,0°	428.2	426.4	425.9	411.9	420.8	414.2	411.4	66.0	779.6
37,5°	322.5	323.4	327.0	311.0	319.4	310.8	308.2	53.0	832.6
40,0°	236.1	234.0	241.6	230.8	230.9	219.8	218.4	40.7	873.3
42,5°	162.3	165.3	172.9	171.1	161.7	151.3	150.8	30.2	903.5
45,0°	117.3	114.9	119.4	122.5	109.3	102.6	102.3	21.9	925.4
47,5°	80.5	81.4	82.8	85.5	75.2	71.4	70.8	15.9	941.3
50,0°	59.4	58.0	58.0	59.0	52.9	50.5	49.6	11.7	953.0
52,5°	43.3	42.8	42.8	43.0	39.3	37.2	36.6	8.9	961.8
55,0°	33.3	32.4	32.9	33.7	30.5	28.7	28.3	7.1	968.9
57,5°	25.9	25.4	25.9	26.8	24.5	22.9	22.9	5.8	974.7
60,0°	20.9	20.2	21.2	21.8	20.4	18.9	19.2	4.9	979.5
62,5°	16.9	16.2	17.4	18.0	17.2	15.9	16.4	4.1	983.6
65,0°	14.9	13.6	14.4	15.1	14.8	13.6	14.4	3.6	987.2
67,5°	12.3	11.4	12.5	12.4	13.0	11.7	12.6	3.1	990.3
70,0°	10.4	9.5	10.5	10.1	11.1	10.1	11.0	2.7	993.0
72,5°	8.2	7.7	7.9	8.2	8.7	8.6	9.5	2.2	995.2
75,0°	6.5	6.0	6.0	6.4	6.6	7.1	7.9	1.7	996.9
77,5°	4.5	4.3	4.4	4.7	5.1	5.6	6.3	1.3	998.2
80,0°	2.9	2.7	2.9	3.1	3.5	4.1	4.7	0.9	999.1
82,5°	1.3	1.4	1.6	1.8	2.2	2.7	3.3	0.5	999.7
85,0°	0.6	0.6	0.6	0.7	1.0	1.4	1.8	0.3	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	20.7	21.9	21.0	22.2	22.6	20.4	21.6	20.7	22.0	22.3
	3H	20.7	21.8	21.0	22.1	22.5	20.4	21.5	20.8	21.8	22.2
	4H	20.6	21.7	21.0	22.0	22.4	20.4	21.4	20.8	21.8	22.2
	6H	20.6	21.6	21.0	21.9	22.3	20.4	21.4	20.8	21.7	22.1
	8H	20.7	21.5	21.1	21.9	22.3	20.5	21.3	20.9	21.7	22.1
	12H	20.7	21.4	21.1	21.8	22.2	20.5	21.2	20.9	21.6	22.1
4H	2H	20.5	21.6	20.9	21.9	22.3	20.3	21.3	20.7	21.7	22.0
	3H	20.6	21.4	21.0	21.8	22.2	20.3	21.2	20.8	21.6	22.0
	4H	20.6	21.3	21.0	21.8	22.2	20.4	21.1	20.8	21.5	22.0
	6H	20.6	21.2	21.0	21.6	22.1	20.4	21.1	20.9	21.5	22.0
	8H	20.5	21.1	21.0	21.6	22.0	20.4	21.0	20.9	21.5	21.9
	12H	20.6	21.0	21.0	21.5	22.0	20.5	20.9	21.0	21.4	21.9
8H	4H	20.5	21.1	21.0	21.5	22.0	20.3	20.9	20.8	21.3	21.8
	6H	20.5	21.0	21.0	21.4	22.0	20.4	20.8	20.9	21.3	21.8
	8H	20.5	20.9	21.0	21.4	21.9	20.4	20.8	20.9	21.3	21.8
	12H	20.4	20.8	21.0	21.3	21.8	20.4	20.7	20.9	21.2	21.8
12H	4H	20.5	21.0	21.0	21.5	22.0	20.3	20.8	20.8	21.3	21.8
	6H	20.5	20.9	21.0	21.4	21.9	20.4	20.7	20.9	21.2	21.8
	8H	20.5	20.8	21.0	21.3	21.8	20.4	20.7	20.9	21.2	21.8

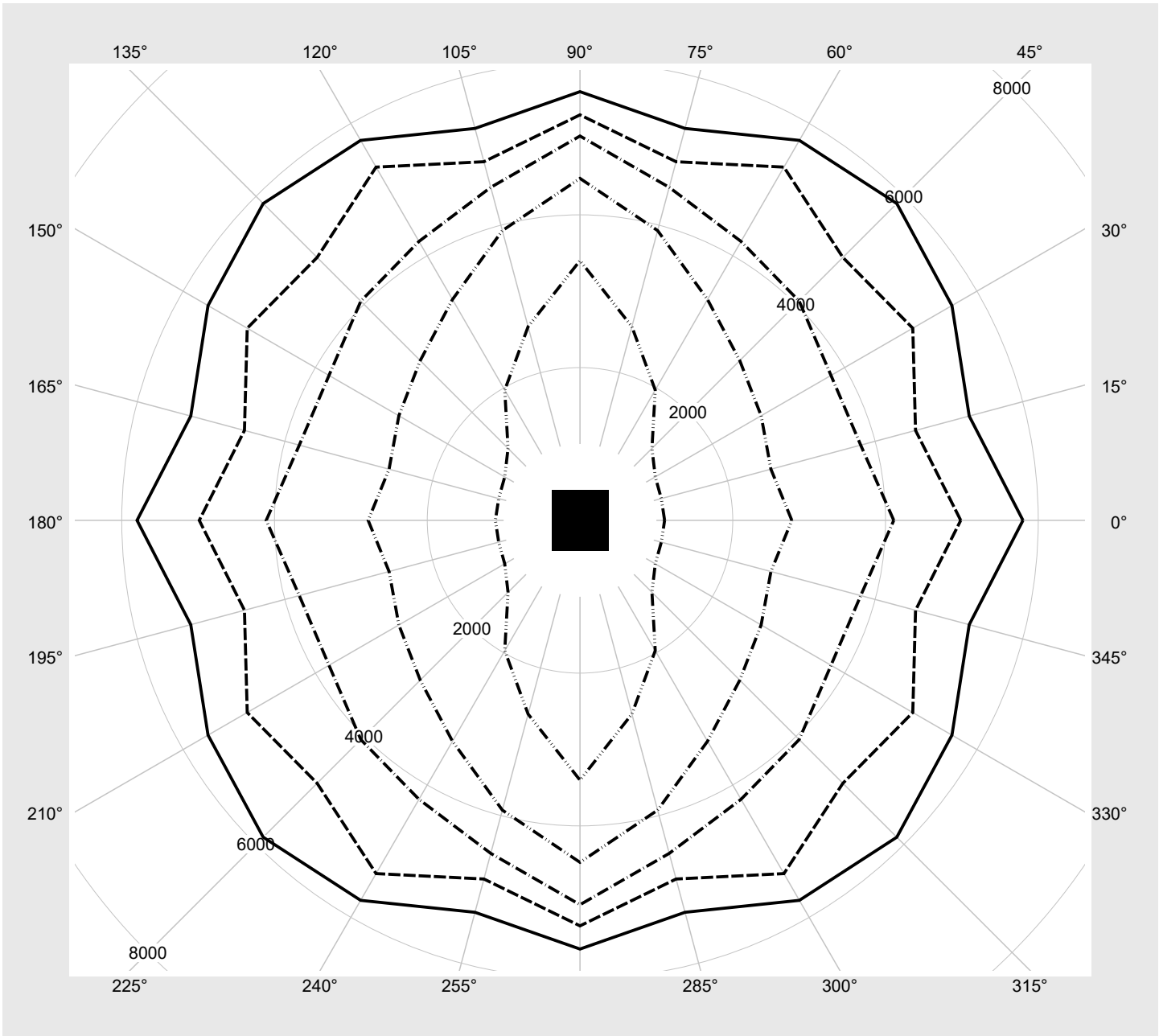
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45,0°		27293.8	26725.5	27780.7	28492.8	25419.5	23866.4	23796.1	
50,0°		15207.1	14847.5	14831.9	15096.8	13547.0	12916.6	12695.0	
55,0°		9556.8	9301.2	9434.0	9650.5	8754.3	8229.2	8130.3	
60,0°		6873.7	6635.5	6972.0	7181.3	6723.7	6226.5	6305.8	
65,0°		5800.0	5276.1	5623.6	5866.1	5744.3	5312.3	5612.4	
70,0°		4985.1	4548.4	5031.3	4867.8	5340.1	4861.0	5308.8	
75,0°		4108.3	3805.1	3795.0	4058.7	4217.0	4513.8	5031.8	
80,0°		2773.7	2588.0	2738.6	2958.4	3339.2	3927.5	4476.9	
85,0°		1107.9	1102.2	1138.1	1332.5	1970.4	2625.4	3401.1	

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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	sITeco
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Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	18500	91.8
95	241	252	17603	86.9
90	227	250	16637	81.7
85	214	248	15730	76.9
80	201	245	14822	72.3
75	188	243	13906	67.6
70	175	240	12985	62.8
65	162	238	12059	58.1
60	149	234	11124	53.2
55	136	231	10186	48.6
50	123	227	9242	44.0
45	110	223	8291	39.4
40	98	219	7407	35.2
35	85	214	6441	30.6
30	73	208	5543	26.5
25	61	202	4639	22.4
20	49	194	3726	18.2
15	37	183	2804	14.1
10	25	169	1879	10.0
5	13	145	945	5.7
2	5	110	318	2.8