



Photometric test report

Family Highbay 11	Order number: 51HN12DADFDA EAN: 4069025444950	LP number 59710_473
	Version primary light control with lens, PMMA, housing, white, wide distribution Lamps LED 4000 K CRI ≥ 90 Controlgear ECG-DALI Setting AC-mode	serial documentation 26.05.2025
	Rated values Net luminous flux = 13320 lm Power consumption = 73.3 W Luminous efficacy = 181.7 lm/W	

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° 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
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	19.5	20.8	19.9	21.1	21.4	19.2	20.5	19.6	20.8	21.1
	3H	19.5	20.6	19.9	21.0	21.3	19.2	20.4	19.6	20.7	21.1
	4H	19.5	20.5	19.9	20.9	21.3	19.3	20.3	19.7	20.7	21.0
	6H	19.5	20.4	19.9	20.8	21.2	19.3	20.2	19.7	20.6	21.0
	8H	19.6	20.3	20.0	20.7	21.1	19.4	20.2	19.8	20.6	21.0
	12H	19.5	20.3	20.0	20.6	21.1	19.4	20.1	19.8	20.5	20.9
4H	2H	19.4	20.4	19.8	20.8	21.2	19.1	20.2	19.5	20.5	20.9
	3H	19.4	20.3	19.9	20.7	21.1	19.2	20.0	19.6	20.4	20.9
	4H	19.4	20.2	19.9	20.6	21.1	19.2	20.0	19.7	20.4	20.8
	6H	19.4	20.1	19.9	20.5	21.0	19.3	19.9	19.7	20.4	20.8
	8H	19.4	20.0	19.9	20.4	20.9	19.3	19.9	19.8	20.3	20.8
	12H	19.4	19.9	19.9	20.3	20.8	19.3	19.8	19.8	20.3	20.8
8H	4H	19.4	20.0	19.8	20.4	20.9	19.2	19.8	19.6	20.2	20.7
	6H	19.3	19.8	19.8	20.3	20.8	19.2	19.7	19.7	20.2	20.7
	8H	19.3	19.7	19.8	20.2	20.7	19.2	19.7	19.7	20.1	20.7
	12H	19.3	19.6	19.8	20.1	20.7	19.3	19.6	19.8	20.1	20.6
12H	4H	19.4	19.9	19.9	20.3	20.8	19.2	19.7	19.7	20.1	20.6
	6H	19.4	19.7	19.9	20.2	20.7	19.2	19.6	19.7	20.1	20.6
	8H	19.3	19.6	19.8	20.1	20.7	19.2	19.6	19.8	20.1	20.6

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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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°	90° 270°
			Luminance in cd/m²					
45,0°		19651.5	19242.3	20002.1	20514.8	18302.0	17183.8	17133.2
50,0°		10949.1	10690.2	10679.0	10869.7	9753.8	9300.0	9140.4
55,0°		6880.9	6696.9	6792.5	6948.4	6303.1	5925.0	5853.8
60,0°		4949.0	4777.5	5019.9	5170.5	4841.0	4483.1	4540.2
65,0°		4176.0	3798.8	4049.0	4223.6	4135.9	3824.8	4040.9
70,0°		3589.3	3274.9	3622.5	3504.8	3844.8	3499.9	3822.3
75,0°		2958.0	2739.7	2732.4	2922.3	3036.2	3249.9	3622.9
80,0°		1997.1	1863.4	1971.8	2130.1	2404.2	2827.8	3223.4
85,0°		797.7	793.6	819.4	959.4	1418.7	1890.3	2448.8

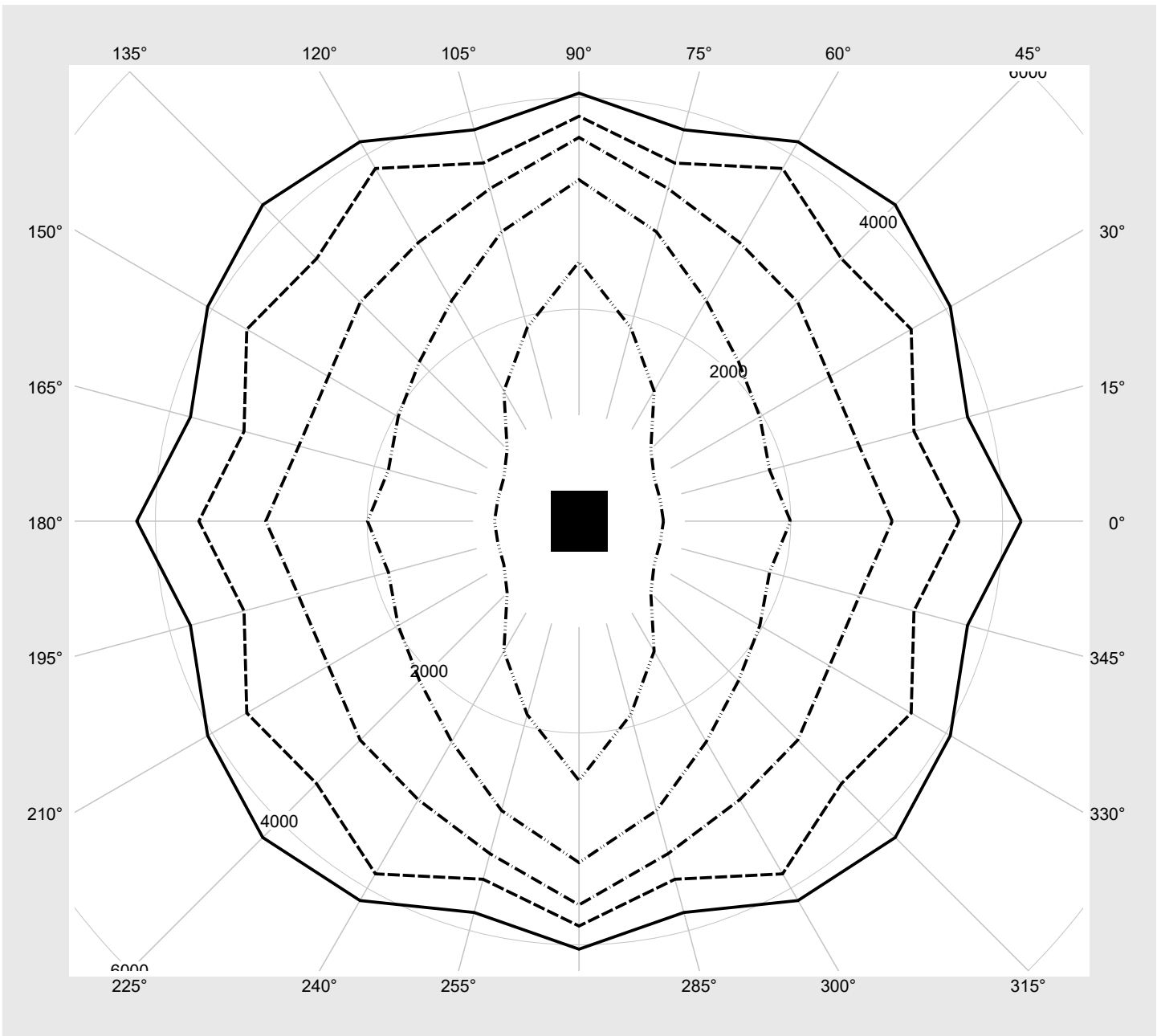
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Luminance values in cd/m²

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	13320	73.3
95	240	252	12635	69.1
90	227	250	11998	65.2
85	213	248	11300	61.0
80	200	245	10650	57.2
75	187	243	9997	53.3
70	174	240	9336	49.5
65	161	237	8669	45.8
60	148	234	8000	42.1
55	135	231	7322	38.3
50	122	227	6643	34.6
45	110	223	6011	31.3
40	97	219	5319	27.6
35	85	214	4678	24.4
30	72	208	3977	20.8
25	60	201	3326	17.5
20	48	193	2666	14.2
15	36	182	2005	11.1
10	24	168	1340	7.8
5	12	142	665	4.3
2	5	110	271	2.4