

Photometric test report

Family
Highbay 11

Order number: 51HN12DB4LDA
EAN: 4069025230621

LP number
59710_152

serial
documentation
14.02.2025

siteco



Version primary light control with lens, PMMA, housing, white, wide distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting AC-mode

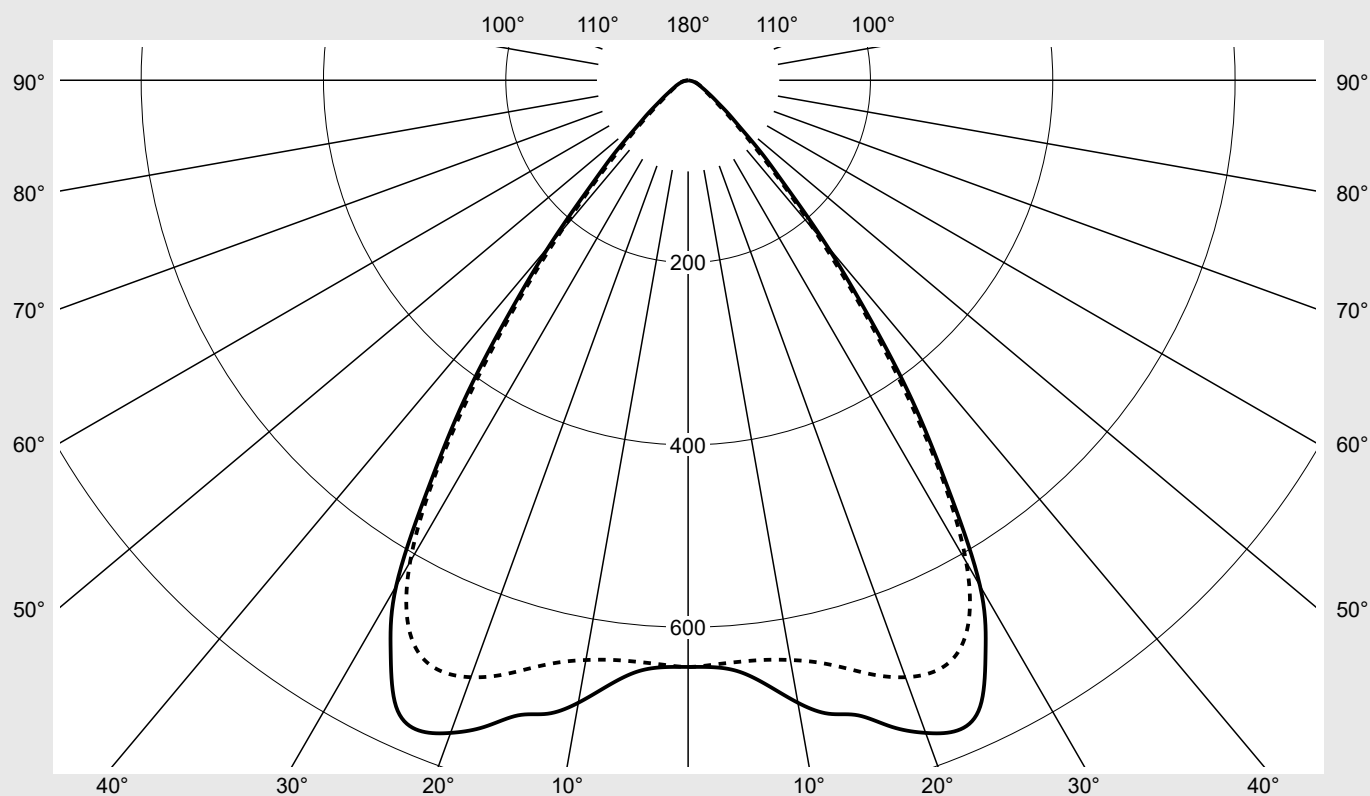
Rated values Net luminous flux = 26000 lm
Power consumption = 125.4 W
Luminous efficacy = 207.3 lm/W

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
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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°	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	
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	19.4	20.7	19.8	21.0	21.3	19.1	20.4	19.5	20.7	21.0
	3H	19.4	20.6	19.8	20.9	21.2	19.1	20.3	19.5	20.6	21.0
	4H	19.4	20.5	19.8	20.8	21.2	19.2	20.2	19.6	20.6	20.9
	6H	19.4	20.3	19.8	20.7	21.1	19.2	20.1	19.6	20.5	20.9
	8H	19.5	20.3	19.9	20.6	21.1	19.3	20.1	19.7	20.5	20.9
	12H	19.4	20.2	19.9	20.6	21.0	19.3	20.0	19.7	20.4	20.8
4H	2H	19.3	20.4	19.7	20.7	21.1	19.0	20.1	19.4	20.4	20.8
	3H	19.4	20.2	19.8	20.6	21.0	19.1	20.0	19.5	20.4	20.8
	4H	19.4	20.1	19.8	20.5	21.0	19.2	19.9	19.6	20.3	20.8
	6H	19.3	20.0	19.8	20.4	20.9	19.2	19.8	19.7	20.3	20.7
	8H	19.3	19.9	19.8	20.3	20.8	19.2	19.8	19.7	20.2	20.7
	12H	19.3	19.8	19.8	20.3	20.8	19.3	19.7	19.7	20.2	20.7
8H	4H	19.3	19.9	19.8	20.3	20.8	19.1	19.7	19.6	20.1	20.6
	6H	19.3	19.7	19.8	20.2	20.7	19.1	19.6	19.6	20.1	20.6
	8H	19.2	19.6	19.7	20.1	20.7	19.2	19.6	19.7	20.1	20.6
	12H	19.2	19.5	19.7	20.0	20.6	19.2	19.5	19.7	20.0	20.6
12H	4H	19.3	19.8	19.8	20.2	20.7	19.1	19.6	19.6	20.0	20.5
	6H	19.3	19.6	19.8	20.1	20.7	19.1	19.5	19.7	20.0	20.5
	8H	19.2	19.5	19.8	20.1	20.6	19.2	19.5	19.7	20.0	20.5

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°	19179.4	18780.1	19521.6	20022.0	17862.3	16771.0	16721.6
50,0°	10686.0	10433.4	10422.4	10608.5	9519.5	9076.6	8920.8
55,0°	6715.6	6536.0	6629.3	6781.5	6151.7	5782.7	5713.2
60,0°	4830.2	4662.8	4899.3	5046.3	4724.7	4375.4	4431.1
65,0°	4075.7	3707.5	3951.7	4122.1	4036.5	3732.9	3943.8
70,0°	3503.1	3196.2	3535.5	3420.6	3752.5	3415.9	3730.5
75,0°	2886.9	2673.9	2666.7	2852.1	2963.3	3171.9	3535.9
80,0°	1949.1	1818.6	1924.5	2078.9	2346.5	2759.9	3146.0
85,0°	778.5	774.5	799.7	936.4	1384.6	1844.8	2389.9

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Luminance values in cd/m²

γ 65°

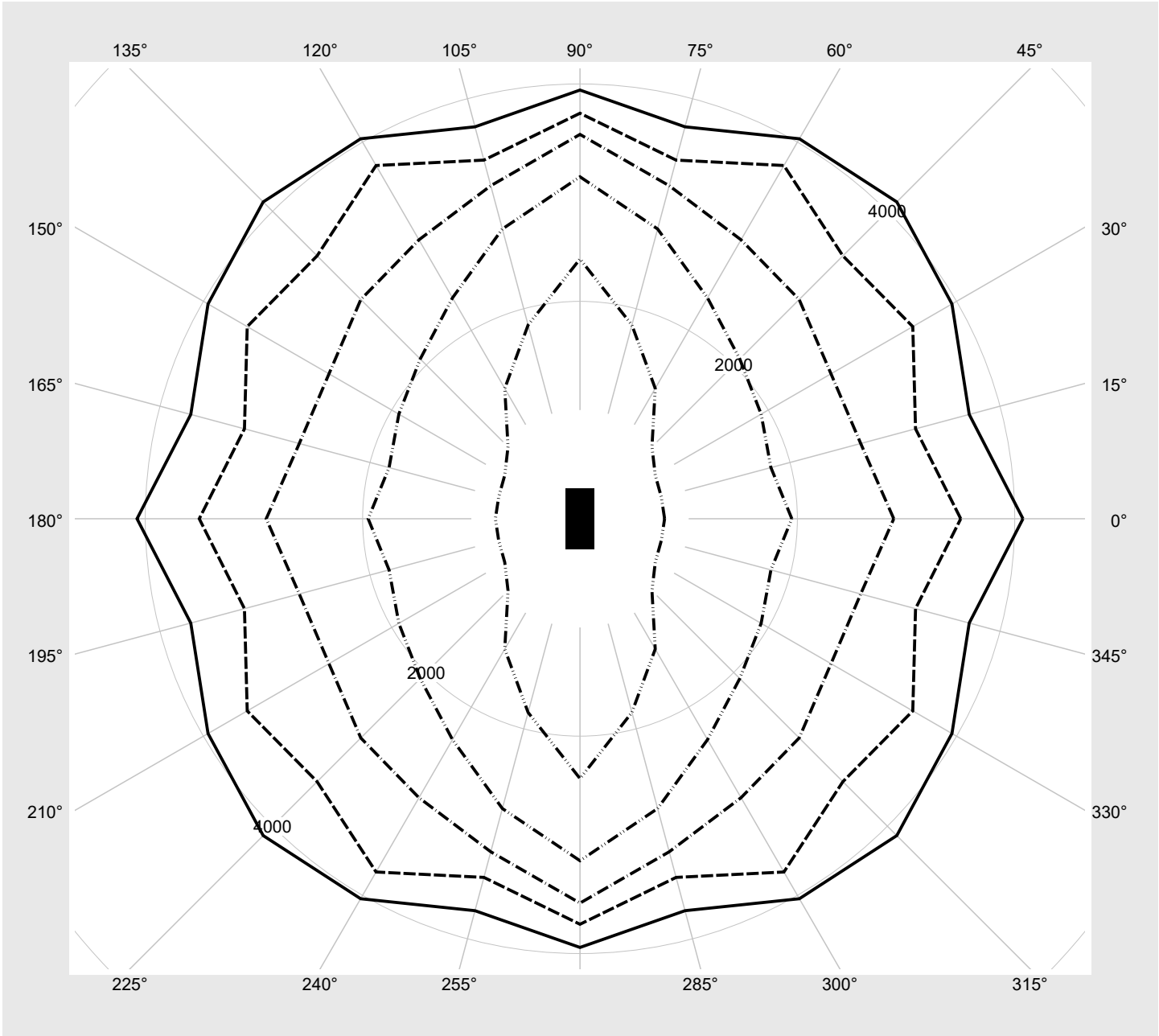
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table environmental temperature: 25°C		sit eco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26000	125.4
95	241	252	24724	118.7
90	228	250	23439	112.2
85	214	248	22054	105.2
80	201	245	20755	98.6
75	188	243	19459	92.2
70	175	240	18155	85.7
65	163	238	16943	79.9
60	150	235	15629	73.4
55	137	231	14297	66.9
50	124	228	12968	60.7
45	112	224	11732	54.7
40	99	219	10381	48.4
35	87	215	9132	42.7
30	74	209	7766	36.5
25	62	202	6501	30.8
20	50	194	5232	25.1
15	38	184	3949	19.5
10	25	169	2558	13.3
5	13	145	1260	7.4
2	6	117	502	4.0