

Photometric test report

Family
Highbay 11

Order number: 51HN12DADKDA
EAN: 4069025444967

LP number
59710_475

serial
documentation
26.05.2025



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

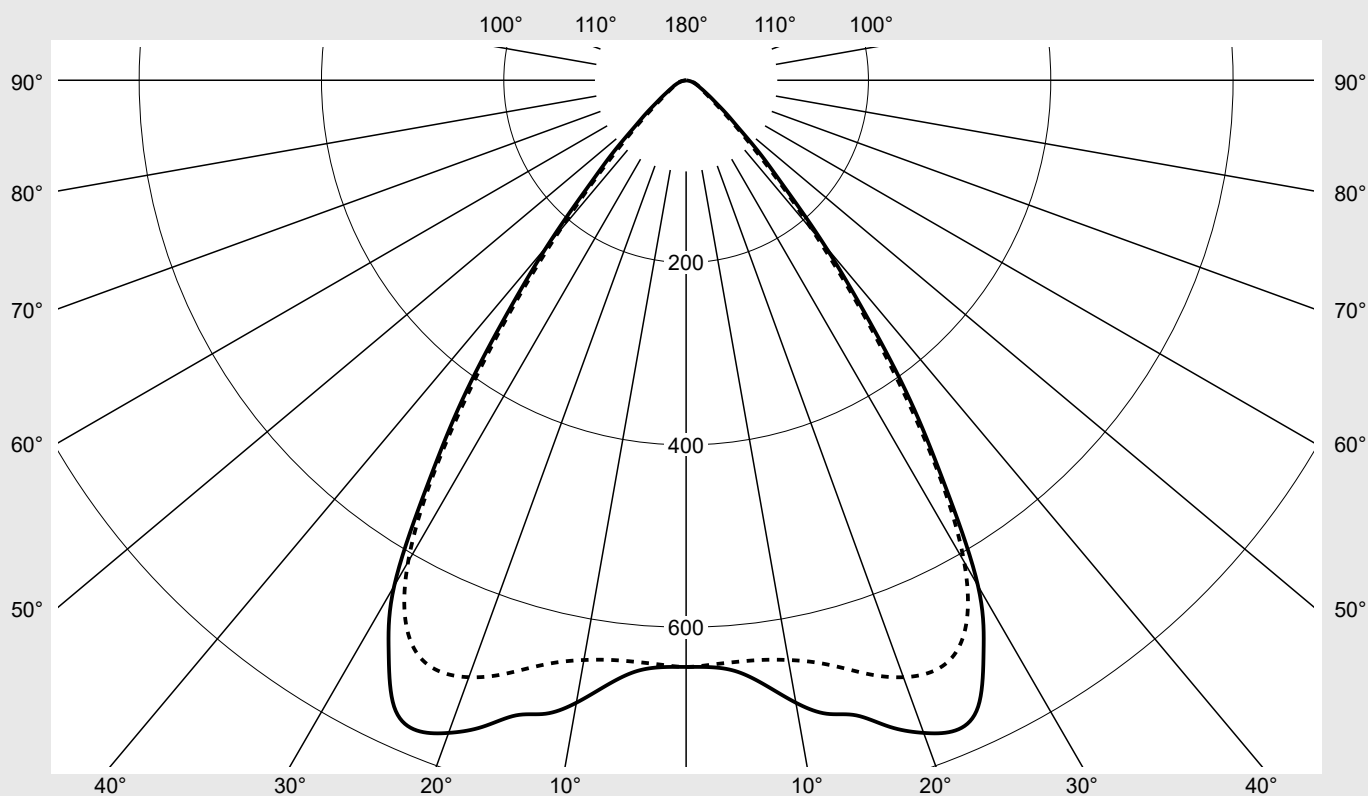
siteco

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	21.6	22.8	21.9	23.1	23.5	21.3	22.5	21.6	22.8	23.2
	3H	21.5	22.7	21.9	23.0	23.4	21.3	22.4	21.7	22.7	23.1
	4H	21.5	22.6	21.9	22.9	23.3	21.3	22.3	21.7	22.7	23.1
	6H	21.5	22.4	21.9	22.8	23.2	21.3	22.3	21.7	22.6	23.0
	8H	21.6	22.4	22.0	22.8	23.2	21.4	22.2	21.8	22.6	23.0
	12H	21.6	22.3	22.0	22.7	23.1	21.4	22.1	21.8	22.5	22.9
4H	2H	21.4	22.5	21.8	22.8	23.2	21.2	22.2	21.6	22.5	22.9
	3H	21.5	22.3	21.9	22.7	23.1	21.2	22.1	21.7	22.5	22.9
	4H	21.5	22.2	21.9	22.7	23.1	21.3	22.0	21.7	22.4	22.9
	6H	21.5	22.1	21.9	22.5	23.0	21.3	22.0	21.8	22.4	22.9
	8H	21.4	22.0	21.9	22.5	22.9	21.3	21.9	21.8	22.4	22.8
	12H	21.4	21.9	21.9	22.4	22.9	21.4	21.8	21.9	22.3	22.8
8H	4H	21.4	22.0	21.9	22.4	22.9	21.2	21.8	21.7	22.2	22.7
	6H	21.4	21.9	21.9	22.3	22.8	21.3	21.7	21.8	22.2	22.7
	8H	21.3	21.8	21.9	22.3	22.8	21.3	21.7	21.8	22.2	22.7
	12H	21.3	21.7	21.9	22.2	22.7	21.3	21.6	21.8	22.1	22.7
12H	4H	21.4	21.9	21.9	22.4	22.9	21.2	21.7	21.7	22.2	22.7
	6H	21.4	21.8	21.9	22.3	22.8	21.3	21.6	21.8	22.1	22.7
	8H	21.4	21.7	21.9	22.2	22.7	21.3	21.6	21.8	22.1	22.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 426 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°
		Luminance in cd/m²					
γ							
45,0°	35319.6	34584.2	35949.7	36871.2	32894.1	30884.4	30793.5
50,0°	19678.8	19213.5	19193.3	19536.0	17530.5	16714.8	16428.1
55,0°	12367.0	12036.3	12208.1	12488.3	11328.6	10649.0	10521.0
60,0°	8894.9	8586.7	9022.2	9293.0	8700.8	8057.5	8160.1
65,0°	7505.5	6827.5	7277.3	7591.1	7433.4	6874.3	7262.7
70,0°	6451.0	5885.9	6510.8	6299.2	6910.3	6290.4	6869.9
75,0°	5316.4	4924.1	4910.9	5252.2	5457.0	5841.1	6511.4
80,0°	3589.3	3349.0	3544.0	3828.4	4321.2	5082.4	5793.4
85,0°	1433.7	1426.4	1472.8	1724.3	2549.9	3397.4	4401.2

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Luminance values in cd/m²

γ 65°

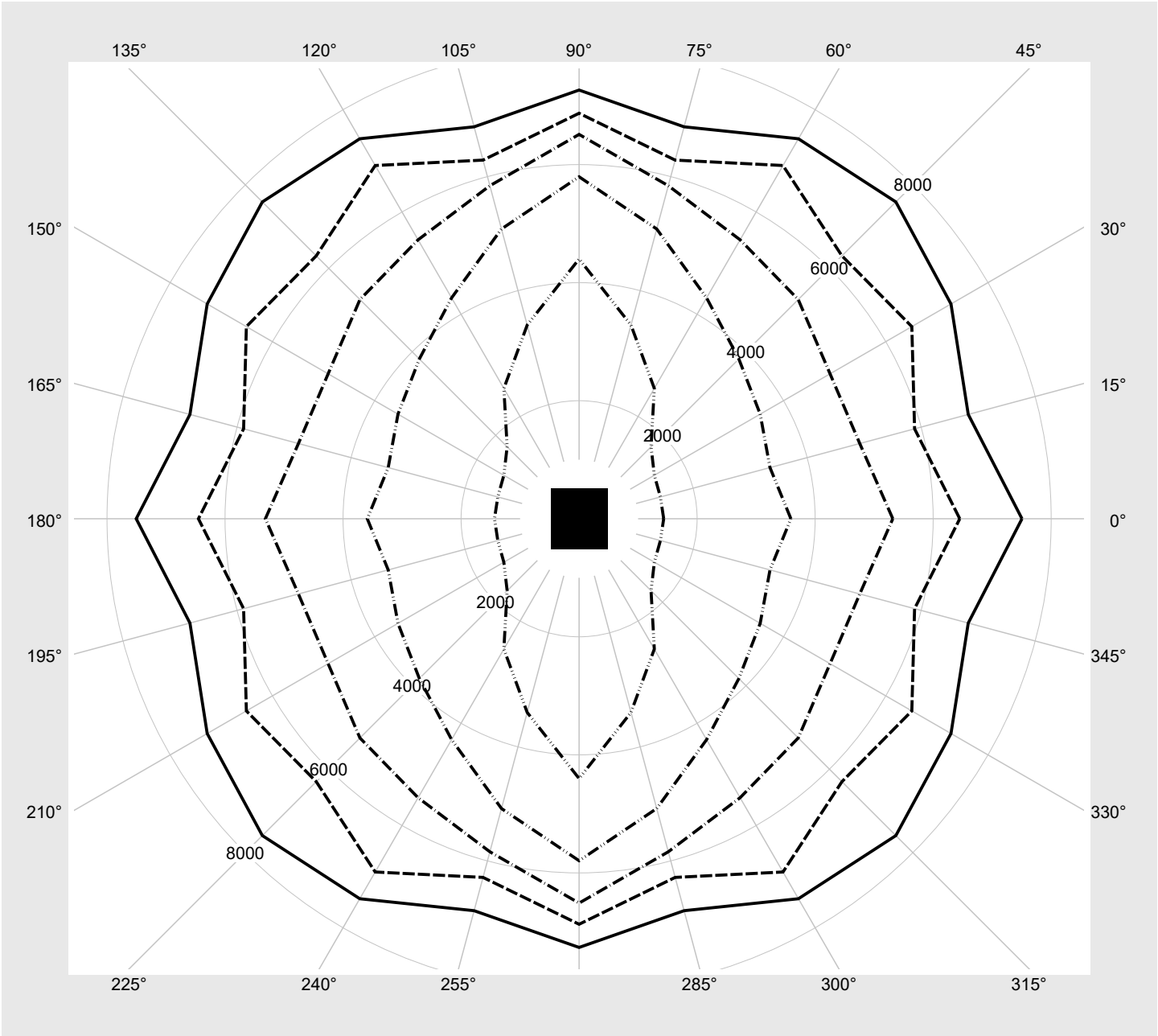
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Dimming levels table environmental temperature: 25°C		sit eco

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