

Photometric test report

Family
Highbay 11

Order number: 51HN12DB6KDA
EAN: 4069025424952

LP number
59710_435

serial
documentation
10.04.2025

siteco



Version primary light control with lens, PMMA, housing, white, wide distribution
Lamps LED 6500 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 24640 lm
Power consumption = 125.3 W
Luminous efficacy = 196.6 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	19.2	20.5	19.6	20.8	21.2	18.9	20.2	19.3	20.5	20.9
	3H	19.2	20.4	19.6	20.7	21.1	19.0	20.1	19.3	20.4	20.8
	4H	19.2	20.3	19.6	20.6	21.0	19.0	20.0	19.4	20.4	20.8
	6H	19.2	20.1	19.6	20.5	20.9	19.0	19.9	19.4	20.3	20.7
	8H	19.3	20.1	19.7	20.5	20.9	19.1	19.9	19.5	20.3	20.7
	12H	19.3	20.0	19.7	20.4	20.8	19.1	19.8	19.5	20.2	20.6
4H	2H	19.1	20.2	19.5	20.5	20.9	18.9	19.9	19.2	20.2	20.6
	3H	19.2	20.0	19.6	20.4	20.8	18.9	19.8	19.3	20.2	20.6
	4H	19.2	19.9	19.6	20.3	20.8	19.0	19.7	19.4	20.1	20.6
	6H	19.1	19.8	19.6	20.2	20.7	19.0	19.7	19.5	20.1	20.6
	8H	19.1	19.7	19.6	20.2	20.6	19.0	19.6	19.5	20.1	20.5
	12H	19.1	19.6	19.6	20.1	20.6	19.1	19.5	19.6	20.0	20.5
8H	4H	19.1	19.7	19.6	20.1	20.6	18.9	19.5	19.4	19.9	20.4
	6H	19.1	19.6	19.6	20.0	20.5	19.0	19.4	19.5	19.9	20.4
	8H	19.0	19.5	19.5	19.9	20.5	19.0	19.4	19.5	19.9	20.4
	12H	19.0	19.4	19.6	19.9	20.4	19.0	19.3	19.5	19.8	20.4
12H	4H	19.1	19.6	19.6	20.0	20.5	18.9	19.4	19.4	19.8	20.3
	6H	19.1	19.5	19.6	19.9	20.5	19.0	19.3	19.5	19.8	20.3
	8H	19.0	19.4	19.6	19.9	20.4	19.0	19.3	19.5	19.8	20.3

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°	18176.2	17797.7	18500.4	18974.7	16928.0	15893.7	15846.9
50,0°	10127.1	9887.6	9877.2	10053.6	9021.5	8601.8	8454.2
55,0°	6364.3	6194.1	6282.5	6426.7	5829.9	5480.2	5414.3
60,0°	4577.5	4418.9	4643.0	4782.3	4477.6	4146.5	4199.3
65,0°	3862.5	3513.6	3745.0	3906.5	3825.4	3537.7	3737.5
70,0°	3319.8	3029.0	3350.6	3241.7	3556.2	3237.2	3535.4
75,0°	2735.9	2534.0	2527.2	2702.9	2808.3	3005.9	3350.9
80,0°	1847.1	1723.5	1823.8	1970.1	2223.8	2615.5	2981.4
85,0°	737.8	734.0	757.9	887.4	1312.2	1748.3	2264.9

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Luminance values in cd/m²

γ 65°

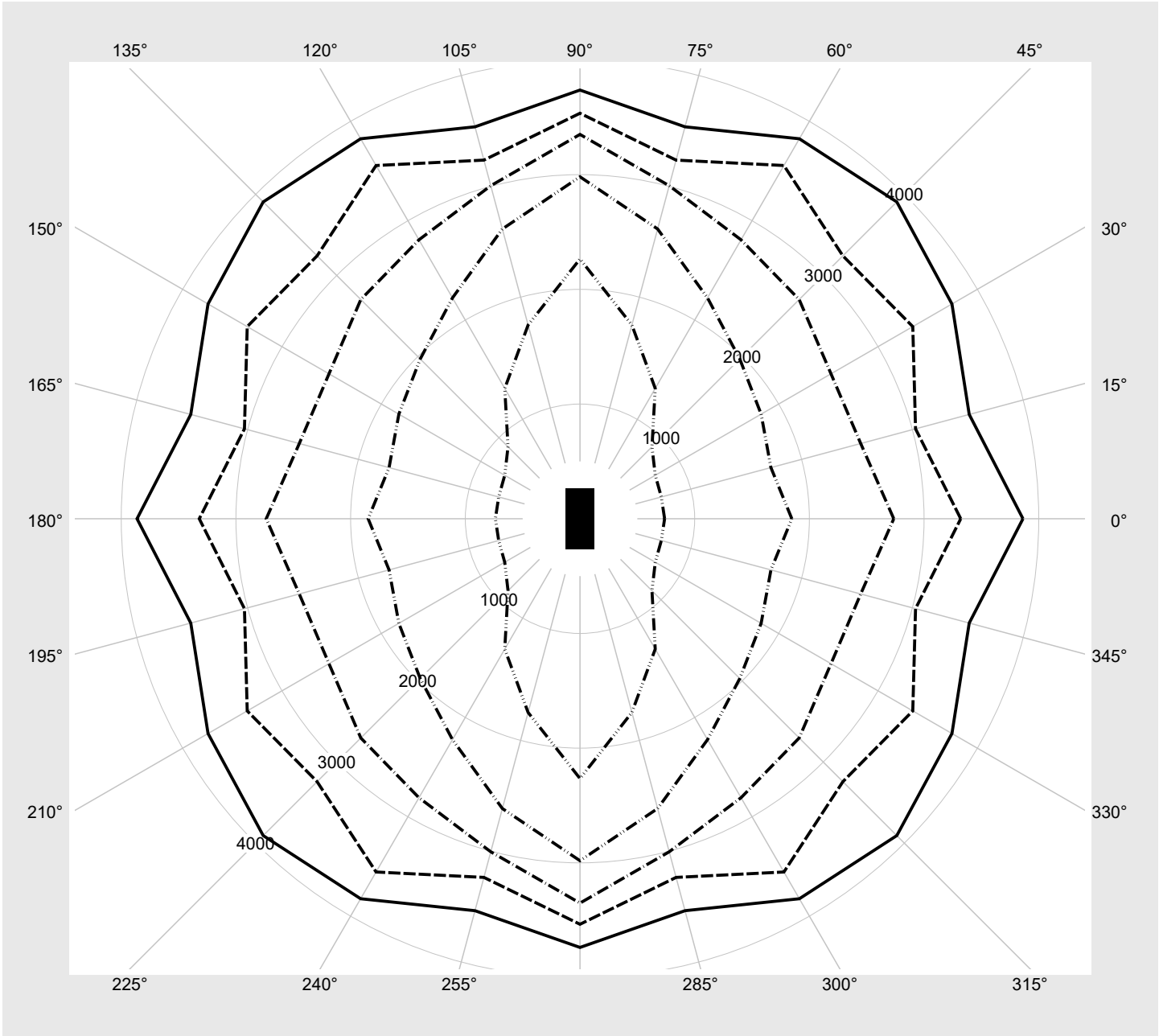
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C

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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	24640	125.3
95	241	252	23426	118.6
90	228	250	22203	112.1
85	215	248	20981	105.6
80	202	246	19748	99.1
75	189	243	18515	92.6
70	176	241	17276	86.1
65	163	238	16031	79.8
60	150	235	14783	73.4
55	137	231	13522	66.8
50	125	228	12359	61.1
45	112	224	11092	54.6
40	99	219	9814	48.4
35	87	215	8633	42.7
30	74	209	7344	36.5
25	62	202	6152	30.7
20	50	194	4955	25.0
15	37	183	3648	19.0
10	25	169	2440	13.3
5	13	145	1222	7.4
2	6	117	512	4.0