

Photometric test report

Family
Highbay 11

Order number: 51HN12DB5LDA
EAN: 4069025424853

LP number
59710_431

serial
documentation
10.04.2025

siteco



Version primary light control with lens, PMMA, housing, white, wide distribution
Lamps LED 5000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 25890 lm
Power consumption = 125.4 W
Luminous efficacy = 206.5 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	20.5	19.8	20.9	21.2	19.1	20.3	19.5	20.6	21.0
	4H	19.4	20.4	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	20.2	19.9	20.6	21.0	19.3	20.1	19.7	20.5	20.9
	12H	19.4	20.2	19.9	20.5	21.0	19.3	20.0	19.7	20.4	20.8
4H	2H	19.3	20.3	19.7	20.7	21.1	19.0	20.1	19.4	20.4	20.8
	3H	19.3	20.2	19.8	20.6	21.0	19.1	19.9	19.5	20.3	20.8
	4H	19.3	20.1	19.8	20.5	21.0	19.1	19.9	19.6	20.3	20.7
	6H	19.3	20.0	19.8	20.4	20.9	19.2	19.8	19.6	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	20.2	20.7	19.2	19.7	19.7	20.2	20.7
8H	4H	19.3	19.9	19.7	20.3	20.8	19.1	19.7	19.5	20.1	20.6
	6H	19.3	19.7	19.7	20.2	20.7	19.1	19.6	19.6	20.1	20.6
	8H	19.2	19.6	19.7	20.1	20.6	19.1	19.6	19.6	20.0	20.6
	12H	19.2	19.5	19.7	20.0	20.6	19.2	19.5	19.7	20.0	20.5
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	20.6	19.1	19.5	19.6	20.0	20.5
	8H	19.2	19.5	19.7	20.0	20.6	19.1	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°	19098.3	18700.6	19439.0	19937.2	17786.7	16700.0	16650.9
50,0°	10640.8	10389.2	10378.3	10563.7	9479.2	9038.2	8883.1
55,0°	6687.2	6508.4	6601.3	6752.8	6125.7	5758.2	5689.0
60,0°	4809.7	4643.0	4878.5	5025.0	4704.7	4356.9	4412.4
65,0°	4058.4	3691.8	3935.0	4104.7	4019.5	3717.1	3927.1
70,0°	3488.2	3182.7	3520.5	3406.1	3736.6	3401.4	3714.7
75,0°	2874.7	2662.6	2655.5	2840.0	2950.8	3158.4	3520.9
80,0°	1940.8	1810.9	1916.3	2070.1	2336.6	2748.2	3132.7
85,0°	775.2	771.3	796.4	932.4	1378.8	1837.0	2379.8

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Luminance values in cd/m²

γ 65°

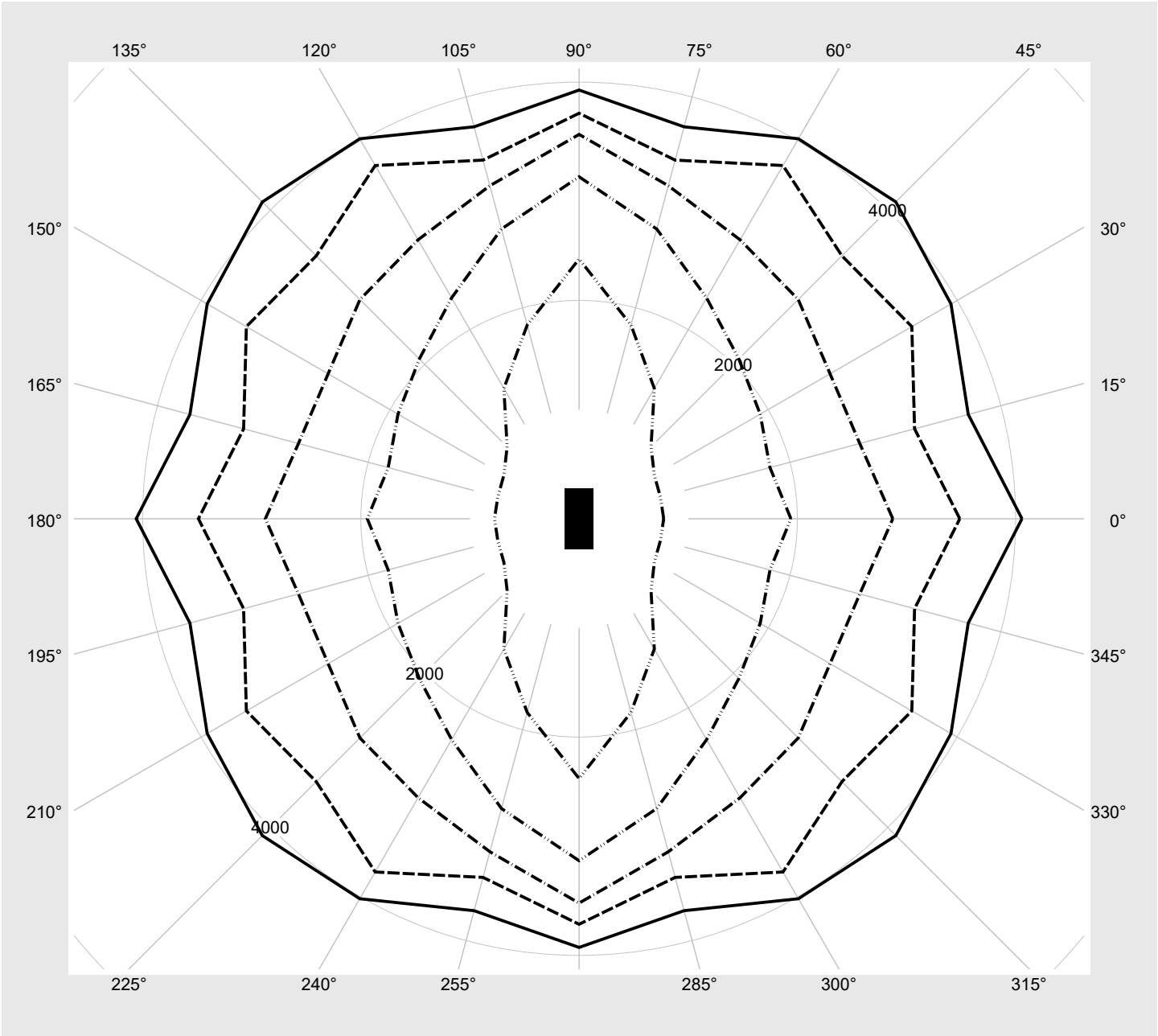
γ 70°

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	25890	125.4
95	241	252	24619	118.7
90	228	250	23337	112.2
85	214	248	21958	105.2
80	201	245	20665	98.6
75	188	243	19373	92.2
70	175	240	18074	85.7
65	163	238	16866	79.9
60	150	235	15557	73.4
55	137	231	14232	66.9
50	124	228	12908	60.7
45	112	224	11677	54.7
40	99	219	10333	48.4
35	87	215	9089	42.7
30	74	209	7728	36.5
25	62	202	6470	30.8
20	50	194	5206	25.1
15	38	184	3929	19.5
10	25	169	2545	13.3
5	13	145	1254	7.4
2	6	117	499	4.0