

Photometric test report

Family
Highbay 11

Order number: 51HN12DBDLDA
EAN: 4069025444974

LP number
59710_477

serial
documentation
26.05.2025

siteco



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 = 26600 lm
Power consumption = 146.4 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
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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	19.5	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	20.6	21.0
	6H	19.5	20.4	19.9	20.8	21.2	19.3	20.2	19.7	20.6	21.0
	8H	19.5	20.3	20.0	20.7	21.1	19.4	20.2	19.8	20.6	21.0
	12H	19.5	20.2	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	20.8
	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	19.9	19.8	20.4	20.9	19.2	19.7	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	19.6	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	19.6	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 = 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°	19622.0	19213.4	19972.1	20484.0	18274.5	17158.0	17107.5
50,0°	10932.6	10674.2	10662.9	10853.3	9739.2	9286.0	9126.7
55,0°	6870.5	6686.8	6782.3	6938.0	6293.6	5916.1	5845.0
60,0°	4941.6	4770.4	5012.3	5162.8	4833.8	4476.4	4533.4
65,0°	4169.7	3793.1	4042.9	4217.3	4129.7	3819.1	4034.8
70,0°	3583.9	3269.9	3617.1	3499.5	3839.1	3494.7	3816.6
75,0°	2953.5	2735.6	2728.3	2917.9	3031.7	3245.1	3617.4
80,0°	1994.1	1860.6	1968.9	2126.9	2400.6	2823.6	3218.6
85,0°	796.5	792.4	818.2	958.0	1416.6	1887.4	2445.1

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Luminance values in cd/m²

γ 65°

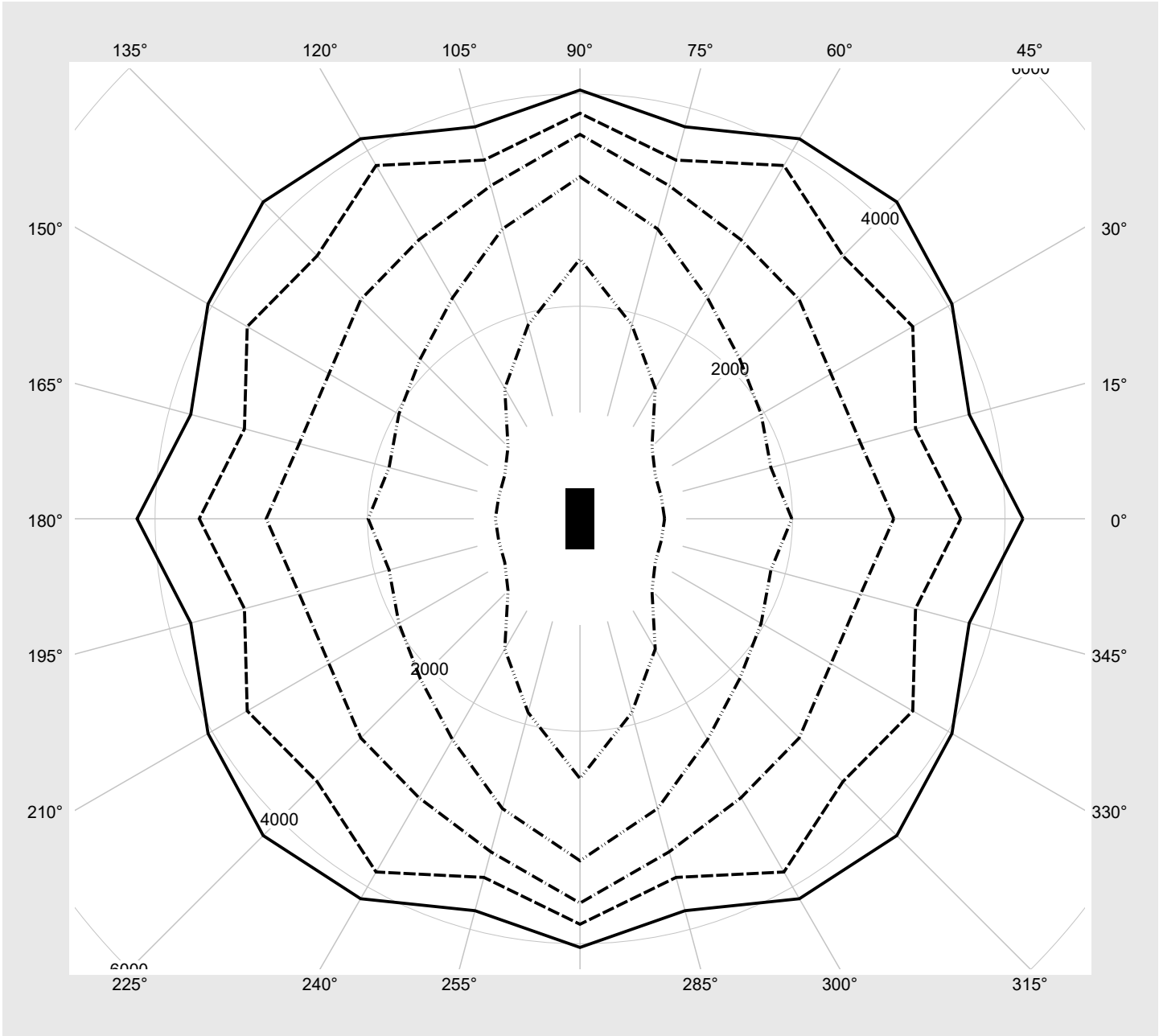
γ 70°

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	26600	146.4
95	240	252	25234	137.9
90	227	250	23955	129.9
85	213	248	22568	121.5
80	200	245	21264	113.7
75	187	243	19956	106.1
70	174	240	18638	98.5
65	161	237	17312	91.0
60	148	234	15977	83.4
55	135	231	14635	75.9
50	122	227	13272	68.3
45	110	223	12012	61.7
40	97	219	10633	54.2
35	85	214	9349	47.5
30	72	208	7949	40.3
25	60	201	6643	33.8
20	48	193	5332	27.3
15	36	182	4006	20.8
10	24	168	2676	14.3
5	12	142	1330	7.6
2	5	110	542	3.9