

Photometric test report

Family
Highbay 11

Order number: 51HN12DB4HDA
EAN: 4069025230607

LP number
59710_148

serial
documentation
14.02.2025

siteco



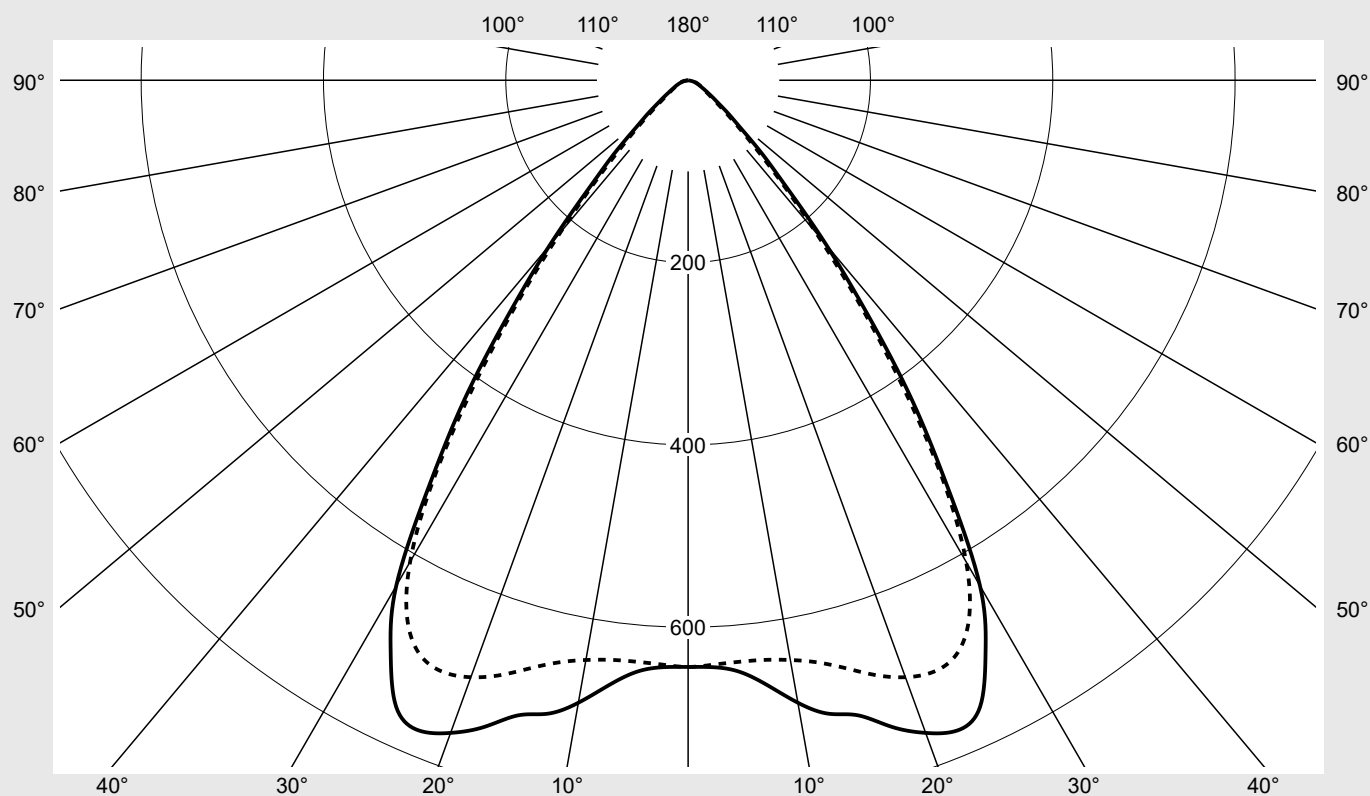
Version primary light control with lens, PMMA, housing, white, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 20000 lm
Power consumption = 94.9 W
Luminous efficacy = 210.7 lm/W

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	18.5	19.8	18.9	20.1	20.4	18.2	19.5	18.6	19.8	20.1	
	3H	18.5	19.6	18.9	20.0	20.3	18.2	19.4	18.6	19.7	20.1	
	4H	18.5	19.5	18.9	19.9	20.3	18.3	19.3	18.7	19.7	20.0	
	6H	18.5	19.4	18.9	19.8	20.2	18.3	19.2	18.7	19.6	20.0	
	8H	18.6	19.3	19.0	19.7	20.1	18.4	19.2	18.8	19.6	20.0	
	12H	18.5	19.3	19.0	19.6	20.1	18.4	19.1	18.8	19.5	19.9	
4H	2H	18.4	19.4	18.8	19.8	20.2	18.1	19.2	18.5	19.5	19.9	
	3H	18.4	19.3	18.9	19.7	20.1	18.2	19.1	18.6	19.4	19.9	
	4H	18.4	19.2	18.9	19.6	20.1	18.2	19.0	18.7	19.4	19.9	
	6H	18.4	19.1	18.9	19.5	20.0	18.3	18.9	18.7	19.4	19.8	
	8H	18.4	19.0	18.9	19.4	19.9	18.3	18.9	18.8	19.3	19.8	
	12H	18.4	18.9	18.9	19.3	19.8	18.3	18.8	18.8	19.3	19.8	
8H	4H	18.4	19.0	18.9	19.4	19.9	18.2	18.8	18.7	19.2	19.7	
	6H	18.4	18.8	18.9	19.3	19.8	18.2	18.7	18.7	19.2	19.7	
	8H	18.3	18.7	18.8	19.2	19.8	18.2	18.7	18.7	19.1	19.7	
	12H	18.3	18.6	18.8	19.1	19.7	18.3	18.6	18.8	19.1	19.6	
12H	4H	18.4	18.9	18.9	19.3	19.8	18.2	18.7	18.7	19.1	19.6	
	6H	18.4	18.7	18.9	19.2	19.8	18.2	18.6	18.7	19.1	19.6	
	8H	18.3	18.6	18.8	19.1	19.7	18.2	18.6	18.8	19.1	19.6	

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°	14753.4	14446.2	15016.6	15401.5	13740.2	12900.8	12862.8
50,0°	8220.0	8025.7	8017.2	8160.4	7322.7	6982.0	6862.2
55,0°	5165.8	5027.7	5099.5	5216.5	4732.1	4448.2	4394.7
60,0°	3715.5	3586.7	3768.7	3881.8	3634.4	3365.7	3408.6
65,0°	3135.1	2851.9	3039.8	3170.9	3105.0	2871.5	3033.7
70,0°	2694.7	2458.6	2719.6	2631.2	2886.5	2627.6	2869.6
75,0°	2220.7	2056.8	2051.3	2193.9	2279.5	2439.9	2719.9
80,0°	1499.3	1398.9	1480.3	1599.1	1805.0	2123.0	2420.0
85,0°	598.9	595.8	615.2	720.3	1065.1	1419.1	1838.4

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Luminance values in cd/m²

γ 65°

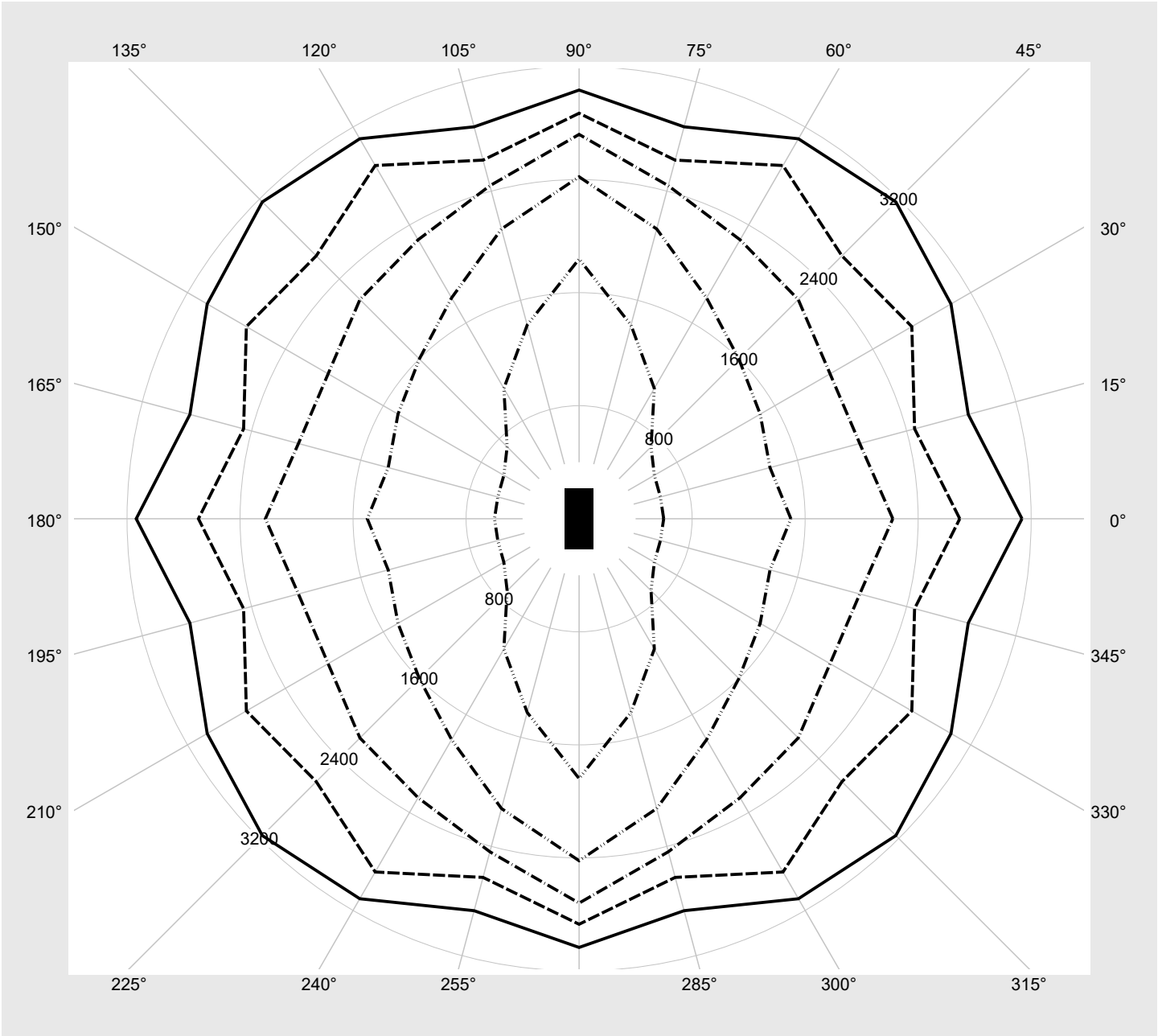
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	20000	94.9
95	241	252	19005	90.0
90	228	250	18010	85.0
85	215	248	17010	80.1
80	202	246	16006	75.3
75	189	243	14996	70.4
70	176	241	13982	65.4
65	163	238	12970	60.6
60	151	235	12030	56.0
55	138	232	11004	51.1
50	125	228	9978	46.4
45	113	224	9022	42.0
40	100	220	7988	37.3
35	88	215	7027	32.9
30	75	209	5979	28.2
25	63	203	5012	23.9
20	51	195	4038	19.6
15	38	184	2976	15.1
10	26	171	1996	10.7
5	14	148	1006	6.3
1	5	110	264	2.9