

Photometric test report

Family
Highbay 21

Order number: 52HN12DB5QLA
EAN: 4069025445636

LP number
59723_254

serial
documentation
24.04.2025



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 = 36980 lm
Power consumption = 197.7 W
Luminous efficacy = 187.1 lm/W

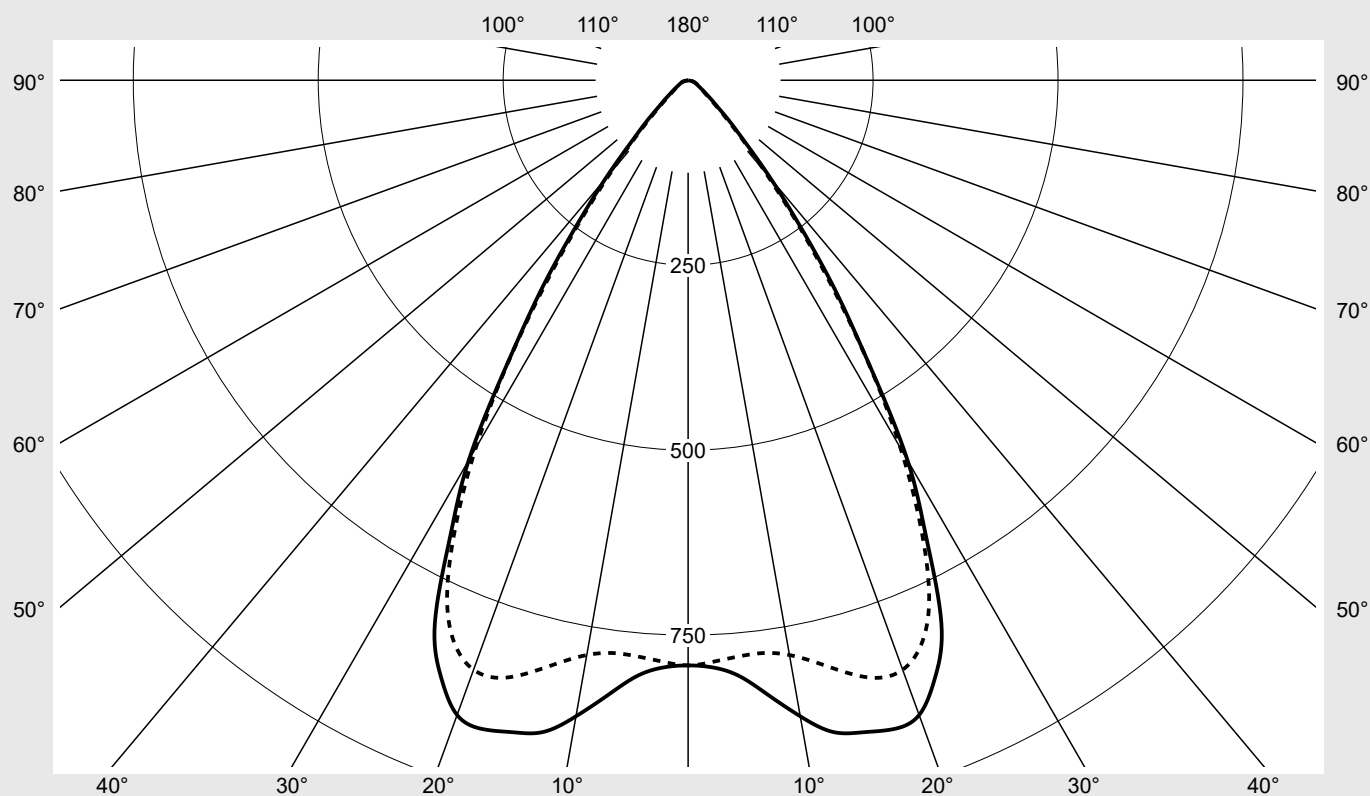
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 920 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=90 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

siteco

C- planes	0,0° 180,0°	7,5° 172,5° 187,5° 352,5°	15,0° 165,0° 195,0° 345,0°	22,5° 157,5° 202,5° 337,5°	30,0° 150,0° 210,0° 330,0°	37,5° 142,5° 217,5° 322,5°	45,0° 135,0° 225,0° 315,0°
γ	Luminous intensity in cd/klm						
0,0°	791.0	791.0	791.0	791.0	791.0	791.0	791.0
2,5°	794.7	794.4	795.0	795.0	794.2	792.8	792.0
5,0°	809.1	811.4	809.6	807.9	804.8	800.8	797.1
7,5°	839.0	837.9	835.9	831.3	824.9	817.3	810.1
10,0°	873.0	873.9	866.7	857.6	846.5	834.6	825.0
12,5°	902.2	899.8	892.6	881.8	868.2	853.9	842.5
15,0°	912.4	911.0	905.2	895.6	883.1	869.5	858.7
17,5°	919.8	918.2	913.1	904.4	892.7	879.7	870.3
20,0°	913.1	910.4	906.8	900.7	891.6	880.0	870.9
22,5°	873.0	875.7	872.3	868.8	863.2	854.7	847.2
25,0°	810.1	803.4	805.6	804.0	800.6	794.9	789.9
27,5°	697.5	704.9	702.5	701.8	699.9	697.0	693.3
30,0°	593.2	587.4	585.8	584.9	582.5	580.2	578.9
32,5°	456.1	464.3	462.1	462.0	458.3	454.5	453.6
35,0°	347.7	343.4	342.9	343.5	340.5	335.4	333.2
37,5°	248.6	249.1	246.7	247.3	245.8	241.7	237.9
40,0°	174.7	169.8	171.0	172.0	172.0	169.5	166.1
42,5°	115.9	118.7	117.3	118.1	118.9	118.2	116.5
45,0°	82.2	79.8	80.4	81.1	81.3	81.6	80.9
47,5°	56.5	57.6	57.2	57.7	57.6	57.9	57.5
50,0°	42.4	41.3	41.7	42.1	42.1	42.1	42.0
52,5°	32.0	31.8	31.7	32.2	32.5	32.7	32.7
55,0°	25.6	24.9	25.0	25.6	26.1	26.6	26.9
57,5°	20.6	20.3	20.3	20.8	21.4	22.1	22.4
60,0°	17.2	16.8	16.6	17.2	18.2	18.6	18.9
62,5°	14.5	14.3	13.9	14.3	15.3	15.8	16.0
65,0°	13.1	12.5	12.0	12.2	13.0	13.5	13.7
67,5°	11.1	10.9	10.3	10.4	11.4	11.4	11.5
70,0°	9.4	9.0	8.7	8.7	9.6	9.3	9.5
72,5°	7.6	7.5	7.3	7.2	7.3	7.4	7.8
75,0°	5.9	5.7	5.6	5.7	5.6	5.7	6.1
77,5°	4.1	4.1	4.1	4.2	4.1	4.2	4.5
80,0°	2.6	2.5	2.5	2.7	2.7	2.8	2.9
82,5°	1.1	1.2	1.2	1.3	1.5	1.5	1.7
85,0°	0.5	0.5	0.5	0.5	0.5	0.5	0.6
87,5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3

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Table of values for luminous intensities		Maximum luminous intensity
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C- planes	52,5° 127,5° 232,5° 307,5°	60,0° 120,0° 240,0° 300,0°	67,5° 112,5° 247,5° 292,5°	75,0° 105,0° 255,0° 285,0°	82,5° 97,5° 262,5° 277,5°	90,0° 270,0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0,0°	791.0	791.0	791.0	791.0	791.0	791.0	1.2	1.2
2,5°	791.3	790.7	790.0	789.4	788.0	786.7	9.5	10.7
5,0°	794.2	790.9	788.1	786.0	783.2	781.9	19.1	29.7
7,5°	803.7	797.3	791.2	786.8	782.5	780.9	29.0	58.7
10,0°	816.7	808.7	801.4	796.1	791.2	788.9	39.5	98.2
12,5°	833.0	825.3	818.6	813.6	808.7	806.6	50.4	148.6
15,0°	850.7	844.9	836.9	832.9	831.6	829.0	61.4	210.0
17,5°	864.2	859.8	856.6	853.6	849.6	847.0	72.4	282.5
20,0°	864.8	860.1	856.9	853.9	850.4	848.0	82.3	364.7
22,5°	841.4	836.7	833.2	829.7	826.8	824.5	89.2	453.9
25,0°	786.0	782.5	779.1	775.6	772.9	771.0	91.6	545.4
27,5°	691.2	689.6	687.4	684.8	682.7	681.4	87.8	633.3
30,0°	578.6	579.1	578.3	576.4	575.3	574.3	79.6	712.9
32,5°	454.5	456.7	457.0	455.4	454.6	454.3	67.4	780.2
35,0°	335.0	337.7	338.0	336.6	336.0	336.2	53.3	833.5
37,5°	239.3	241.4	241.0	239.6	239.1	239.2	40.5	874.0
40,0°	166.2	166.4	164.7	163.3	162.9	163.0	29.6	903.6
42,5°	115.3	113.5	111.1	110.0	109.8	109.7	21.3	924.9
45,0°	79.0	76.9	75.1	74.3	74.0	73.9	15.2	940.1
47,5°	56.0	54.4	53.1	52.3	51.9	51.7	11.2	951.3
50,0°	40.9	39.8	38.8	38.0	37.5	37.4	8.5	959.8
52,5°	31.8	30.8	29.9	29.1	28.8	28.7	6.8	966.6
55,0°	25.9	25.0	24.2	23.4	23.2	23.3	5.6	972.3
57,5°	21.7	20.8	20.1	19.5	19.4	19.6	4.8	977.0
60,0°	18.6	18.0	17.1	16.6	16.8	17.1	4.2	981.2
62,5°	16.0	15.6	14.7	14.4	14.7	15.1	3.6	984.8
65,0°	14.0	13.6	12.8	12.7	13.1	13.5	3.2	988.1
67,5°	12.0	12.1	11.2	11.1	11.6	12.1	2.9	991.0
70,0°	9.8	10.4	9.7	9.7	10.2	10.6	2.5	993.4
72,5°	7.8	8.3	8.3	8.3	8.8	9.1	2.1	995.5
75,0°	6.2	6.3	6.8	6.9	7.3	7.6	1.6	997.1
77,5°	4.6	4.9	5.3	5.5	5.8	6.0	1.3	998.4
80,0°	3.1	3.4	3.7	4.0	4.2	4.4	0.9	999.2
82,5°	1.8	2.1	2.4	2.6	2.8	2.9	0.5	999.7
85,0°	0.7	1.0	1.2	1.3	1.6	1.6	0.2	1000.0
87,5°	0.3	0.3	0.3	0.3	0.4	0.4	0.1	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	19.1	20.3	19.4	20.6	20.9	18.9	20.1	19.3	20.4	20.8
	3H	19.1	20.2	19.5	20.5	20.9	19.0	20.1	19.4	20.4	20.8
	4H	19.1	20.1	19.5	20.5	20.9	19.0	20.0	19.4	20.4	20.8
	6H	19.1	20.0	19.5	20.4	20.8	19.1	20.0	19.5	20.3	20.7
	8H	19.2	19.9	19.6	20.3	20.7	19.2	19.9	19.6	20.3	20.7
	12H	19.2	19.8	19.6	20.2	20.7	19.2	19.9	19.6	20.3	20.7
4H	2H	19.0	20.0	19.4	20.3	20.7	18.8	19.8	19.2	20.2	20.5
	3H	19.1	19.9	19.5	20.3	20.7	19.0	19.8	19.4	20.2	20.6
	4H	19.1	19.8	19.5	20.2	20.7	19.1	19.8	19.5	20.2	20.6
	6H	19.1	19.7	19.6	20.1	20.6	19.1	19.8	19.6	20.2	20.7
	8H	19.1	19.6	19.6	20.1	20.6	19.2	19.7	19.6	20.2	20.6
	12H	19.1	19.5	19.6	20.0	20.5	19.2	19.6	19.7	20.1	20.6
8H	4H	19.1	19.6	19.5	20.1	20.5	19.0	19.6	19.5	20.0	20.5
	6H	19.0	19.5	19.5	20.0	20.5	19.1	19.6	19.6	20.0	20.5
	8H	19.0	19.4	19.5	19.9	20.4	19.1	19.5	19.6	20.0	20.5
	12H	19.0	19.3	19.5	19.8	20.4	19.2	19.5	19.7	20.0	20.5
12H	4H	19.1	19.5	19.6	20.0	20.5	19.0	19.5	19.5	19.9	20.4
	6H	19.1	19.4	19.6	19.9	20.4	19.1	19.5	19.6	19.9	20.5
	8H	19.0	19.3	19.5	19.8	20.4	19.1	19.4	19.7	19.9	20.5

Luminance table		Max. for $\gamma \geq 65^\circ$									Photometric dimensions in mm:		L = 852 B = 264	
C-planes	0,0° 180,0°	10,0° 170,0° 190,0° 350,0°	20,0° 160,0° 200,0° 340,0°	30,0° 150,0° 210,0° 330,0°	40,0° 140,0° 220,0° 320,0°	50,0° 130,0° 230,0° 310,0°	60,0° 120,0° 240,0° 300,0°	70,0° 110,0° 250,0° 290,0°	80,0° 100,0° 260,0° 280,0°	90,0° 270,0°				
		Luminance in cd/m²												
γ														
45,0°		19118.9	18527.2	18805.6	18910.1	18949.1	18527.6	17869.4	17380.5	17219.3	17171.9			
50,0°		10845.8	10547.0	10744.4	10769.1	10767.6	10563.4	10184.1	9845.7	9630.7	9555.2			
55,0°		7343.1	7128.2	7286.8	7472.9	7673.6	7526.6	7154.2	6855.3	6668.5	6691.3			
60,0°		5649.4	5486.5	5578.9	5972.6	6160.3	6150.2	5924.6	5561.7	5497.1	5612.2			
65,0°		5083.4	4787.9	4685.2	5070.9	5304.1	5455.4	5302.0	4945.9	5036.8	5261.9			
70,0°		4537.3	4285.2	4146.2	4592.6	4492.1	4660.6	4986.8	4640.7	4824.8	5114.1			
75,0°		3731.3	3602.0	3618.6	3582.0	3692.1	3902.4	4022.2	4380.2	4549.9	4827.7			
80,0°		2433.2	2355.4	2506.0	2599.9	2643.2	2889.4	3217.2	3638.4	3910.3	4140.3			
85,0°		950.7	926.8	942.3	947.0	1035.4	1305.2	1839.2	2290.3	2808.4	3061.6			

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Order number: 52HN12DB5QLA
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LP number
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Luminance values in cd/m²

γ 65°

γ 70°

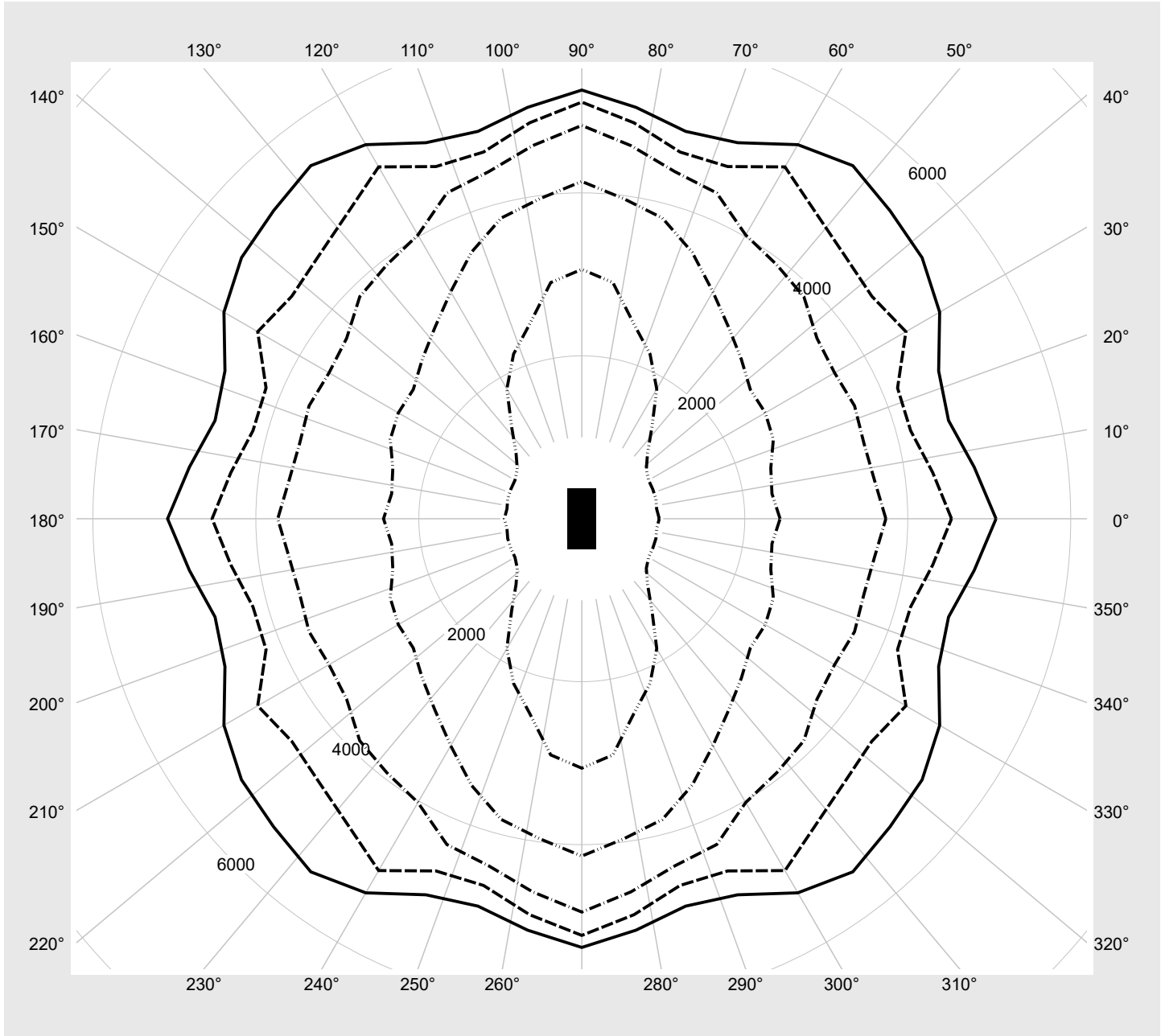
γ 75°

γ 80°

γ 85°

sit

eco



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Dimming levels table		environmental temperature: 25°C
		siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	36980	197.7
95	241	252	35169	187.3
90	228	250	33348	177.1
85	214	248	31375	166.1
80	201	245	29529	155.8
75	188	243	27679	145.8
70	176	241	25956	136.3
65	163	238	24086	126.2
60	150	235	22207	116.2
55	137	231	20321	106.1
50	124	228	18433	96.3
45	112	224	16676	87.1
40	99	219	14757	77.2
35	87	215	12983	68.0
30	74	209	11055	58.3
25	62	202	9265	49.1
20	50	194	7466	40.2
15	37	183	5512	30.6
10	25	169	3702	21.8
5	13	145	1881	12.5
1	4	102	514	5.4