

Photometric test report

Family
Highbay 21

Order number: 52HN12DB4QDA
EAN: 4069025256782

LP number
59723_58



Version primary light control with lens, PMMA, housing, white, wide distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Setting DC mode (central or group accumulator) initial emergency light level

Rated values Net luminous flux = 5840 lm
Power consumption = 31.4 W
Luminous efficacy = 186 lm/W

serial
documentation
24.02.2025

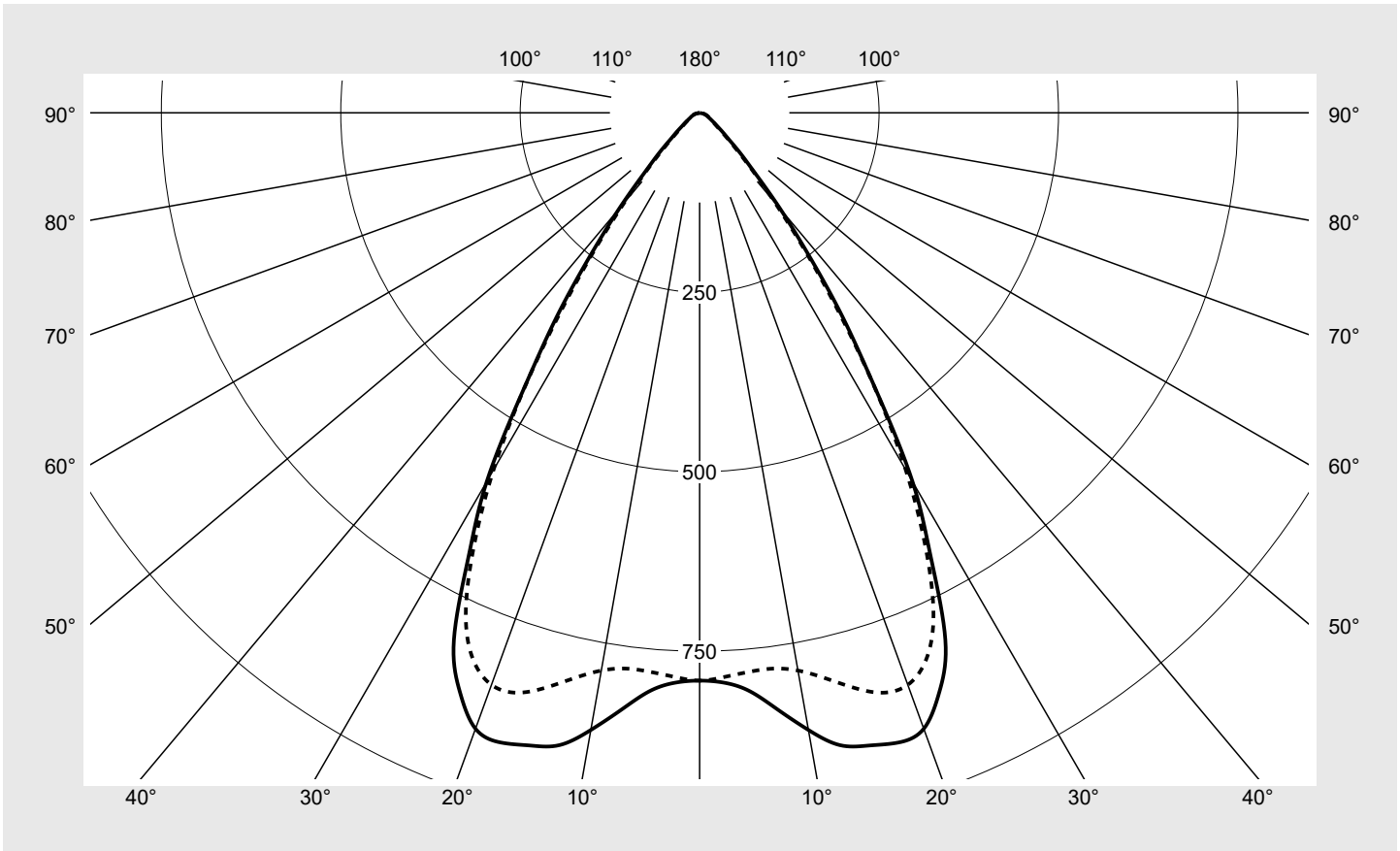
siteco

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
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C-planes	0,0° 180,0°	7,5°	15,0°	22,5°	30,0°	37,5°	45,0°
		172,5° 187,5° 352,5°	165,0° 195,0° 345,0°	157,5° 202,5° 337,5°	150,0° 210,0° 330,0°	142,5° 217,5° 322,5°	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
		sITeco

C-planes	52,5°	60,0°	67,5°	75,0°	82,5°	90,0° 270,0°	Phi-zone	Total Phi-zone
	127,5° 232,5° 307,5°	120,0° 240,0° 300,0°	112,5° 247,5° 292,5°	105,0° 255,0° 285,0°	97,5° 262,5° 277,5°			
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								
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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	12.7	13.9	13.0	14.2	14.5	12.5	13.7	12.8	14.0	14.4
	3H	12.7	13.8	13.1	14.1	14.5	12.6	13.6	12.9	14.0	14.3
	4H	12.7	13.7	13.1	14.1	14.4	12.6	13.6	13.0	14.0	14.3
	6H	12.7	13.6	13.1	14.0	14.4	12.7	13.6	13.1	13.9	14.3
	8H	12.8	13.5	13.2	13.9	14.3	12.8	13.5	13.2	13.9	14.3
	12H	12.8	13.4	13.2	13.8	14.2	12.8	13.5	13.2	13.8	14.3
4H	2H	12.6	13.6	13.0	13.9	14.3	12.4	13.4	12.8	13.8	14.1
	3H	12.7	13.5	13.1	13.9	14.3	12.5	13.4	13.0	13.8	14.2
	4H	12.7	13.4	13.1	13.8	14.3	12.6	13.4	13.1	13.8	14.2
	6H	12.7	13.3	13.1	13.7	14.2	12.7	13.3	13.2	13.8	14.2
	8H	12.7	13.2	13.1	13.7	14.1	12.7	13.3	13.2	13.8	14.2
	12H	12.7	13.1	13.2	13.6	14.1	12.8	13.2	13.3	13.7	14.2
8H	4H	12.6	13.2	13.1	13.6	14.1	12.6	13.1	13.1	13.6	14.1
	6H	12.6	13.1	13.1	13.6	14.1	12.7	13.1	13.2	13.6	14.1
	8H	12.6	13.0	13.1	13.5	14.0	12.7	13.1	13.2	13.6	14.1
	12H	12.6	12.9	13.1	13.4	13.9	12.8	13.1	13.3	13.6	14.1
12H	4H	12.7	13.1	13.2	13.6	14.1	12.6	13.0	13.1	13.5	14.0
	6H	12.7	13.0	13.2	13.5	14.0	12.7	13.0	13.2	13.5	14.1
	8H	12.6	12.9	13.1	13.4	14.0	12.7	13.0	13.3	13.5	14.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 852 B = 264
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C-planes	0,0° 180,0°	10,0° 170,0°	20,0° 160,0°	30,0° 150,0°	40,0° 140,0°	50,0° 130,0°	60,0° 120,0°	70,0° 110,0°	80,0° 100,0°	90,0° 270,0°
		190,0° 350,0°	200,0° 340,0°	210,0° 330,0°	220,0° 320,0°	230,0° 310,0°	240,0° 300,0°	250,0° 290,0°	260,0° 280,0°	
γ	Luminance in cd/m ²									
45,0°	3019.3	2925.9	2969.8	2986.3	2992.5	2925.9	2822.0	2744.8	2719.3	2711.8
50,0°	1712.8	1665.6	1696.8	1700.7	1700.5	1668.2	1608.3	1554.9	1520.9	1509.0
55,0°	1159.6	1125.7	1150.8	1180.1	1211.8	1188.6	1129.8	1082.6	1053.1	1056.7
60,0°	892.2	866.4	881.0	943.2	972.9	971.3	935.6	878.3	868.1	886.3
65,0°	802.8	756.1	739.9	800.8	837.6	861.5	837.3	781.1	795.4	831.0
70,0°	716.5	676.7	654.8	725.3	709.4	736.0	787.5	732.9	761.9	807.6
75,0°	589.3	568.8	571.5	565.7	583.1	616.3	635.2	691.7	718.5	762.4
80,0°	384.3	372.0	395.8	410.6	417.4	456.3	508.1	574.6	617.5	653.9
85,0°	150.1	146.4	148.8	149.5	163.5	206.1	290.5	361.7	443.5	483.5

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

