

Photometric test report

Family
Highbay 21

Order number: 52HN12DA5FMA
EAN: 4069025445438

LP number
59723_282

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

Rated values Net luminous flux = 2060 lm
Power consumption = 11.9 W
Luminous efficacy = 173.1 lm/W

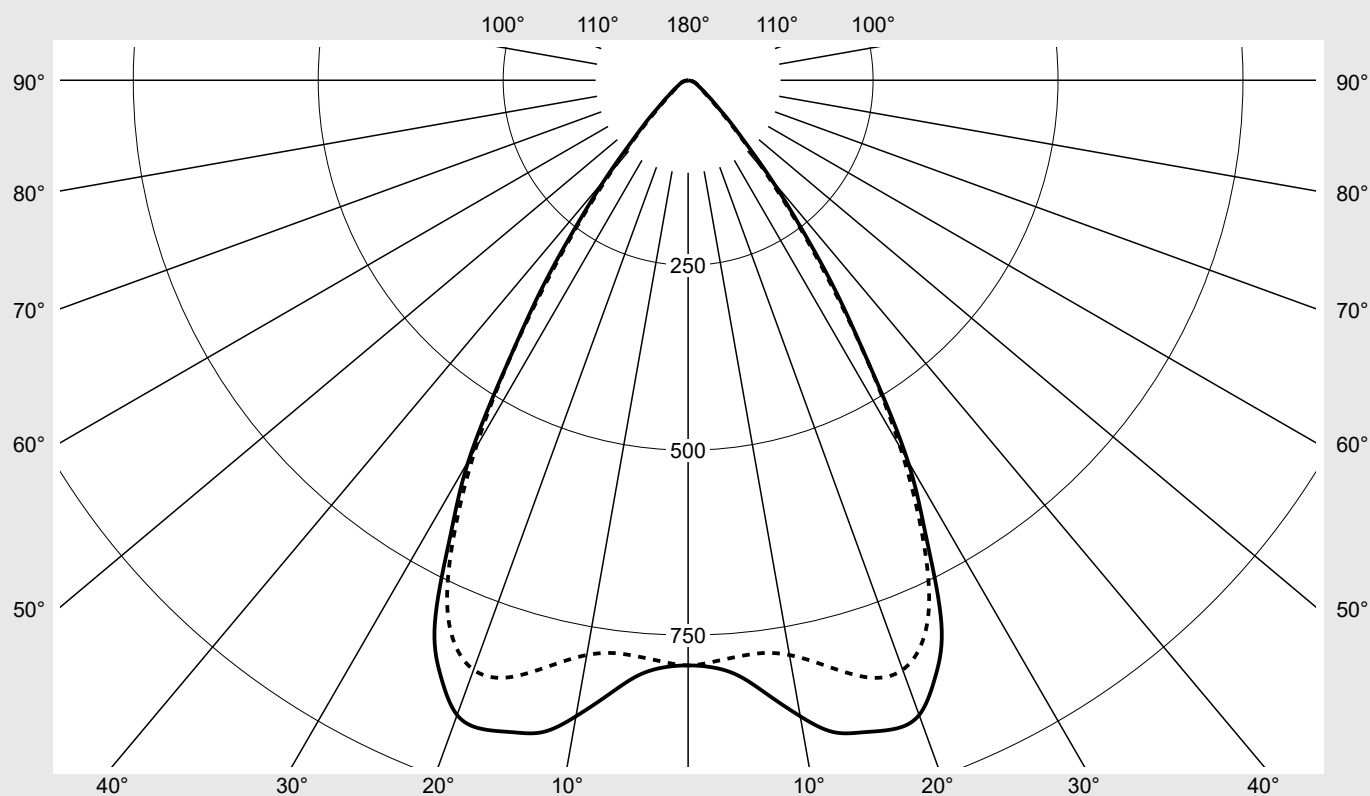
siteco

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	11.5	12.7	11.8	13.0	13.3	11.3	12.5	11.6	12.8	13.1
	3H	11.5	12.6	11.9	12.9	13.3	11.3	12.4	11.7	12.8	13.1
	4H	11.5	12.5	11.9	12.9	13.2	11.4	12.4	11.8	12.8	13.1
	6H	11.5	12.4	11.9	12.7	13.1	11.4	12.3	11.9	12.7	13.1
	8H	11.6	12.3	12.0	12.7	13.1	11.6	12.3	12.0	12.7	13.1
	12H	11.6	12.2	12.0	12.6	13.0	11.6	12.2	12.0	12.6	13.1
4H	2H	11.4	12.4	11.8	12.7	13.1	11.2	12.2	11.6	12.5	12.9
	3H	11.4	12.3	11.9	12.7	13.1	11.3	12.2	11.8	12.5	13.0
	4H	11.5	12.2	11.9	12.6	13.1	11.4	12.2	11.9	12.6	13.0
	6H	11.5	12.1	11.9	12.5	13.0	11.5	12.1	12.0	12.6	13.0
	8H	11.4	12.0	11.9	12.4	12.9	11.5	12.1	12.0	12.5	13.0
	12H	11.5	11.9	12.0	12.4	12.9	11.6	12.0	12.1	12.5	13.0
8H	4H	11.4	12.0	11.9	12.4	12.9	11.4	11.9	11.9	12.4	12.9
	6H	11.4	11.9	11.9	12.3	12.9	11.5	11.9	12.0	12.4	12.9
	8H	11.4	11.8	11.9	12.3	12.8	11.5	11.9	12.0	12.4	12.9
	12H	11.4	11.7	11.9	12.2	12.7	11.6	11.9	12.1	12.4	12.9
12H	4H	11.5	11.9	11.9	12.3	12.8	11.4	11.8	11.9	12.3	12.8
	6H	11.4	11.8	12.0	12.3	12.8	11.5	11.8	12.0	12.3	12.9
	8H	11.4	11.7	11.9	12.2	12.7	11.5	11.8	12.0	12.3	12.9

Luminance table		Max. for $\gamma \geq 65^\circ$									Photometric dimensions in mm:	L = 426 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°	2130.1	2064.1	2095.2	2106.8	2111.2	2064.2	1990.9	1936.4	1918.4	1913.1		
50,0°	1208.4	1175.1	1197.1	1199.8	1199.6	1176.9	1134.6	1096.9	1073.0	1064.6		
55,0°	818.1	794.2	811.8	832.6	854.9	838.6	797.1	763.8	742.9	745.5		
60,0°	629.4	611.3	621.6	665.4	686.3	685.2	660.1	619.6	612.4	625.3		
65,0°	566.3	533.4	522.0	565.0	590.9	607.8	590.7	551.0	561.2	586.2		
70,0°	505.5	477.4	461.9	511.7	500.5	519.2	555.6	517.0	537.5	569.8		
75,0°	415.7	401.3	403.2	399.1	411.3	434.8	448.1	488.0	506.9	537.9		
80,0°	271.1	262.4	279.2	289.7	294.5	321.9	358.4	405.4	435.7	461.3		
85,0°	105.9	103.3	105.0	105.5	115.4	145.4	204.9	255.2	312.9	341.1		

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

