

Photometric test report

Family
Highbay 21

Order number: 52HN12DA4NLA
EAN: 4069025394774

LP number
59723_80



Version primary light control with lens, PMMA, housing, white, for Licross® rail, wide distribution

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 32000 lm
Power consumption = 175.8 W
Luminous efficacy = 182 lm/W

serial
documentation
27.02.2025

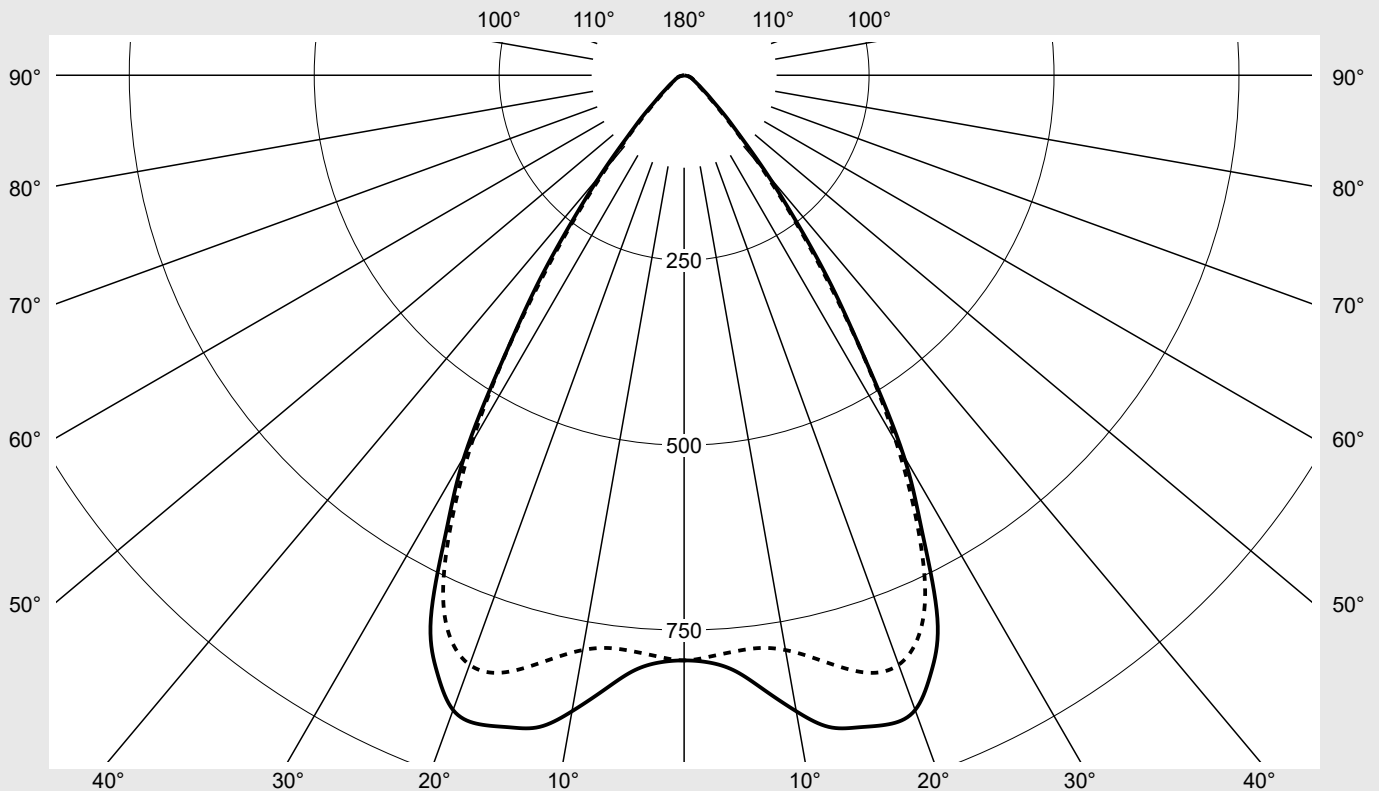
siteco

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

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
		siteco

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

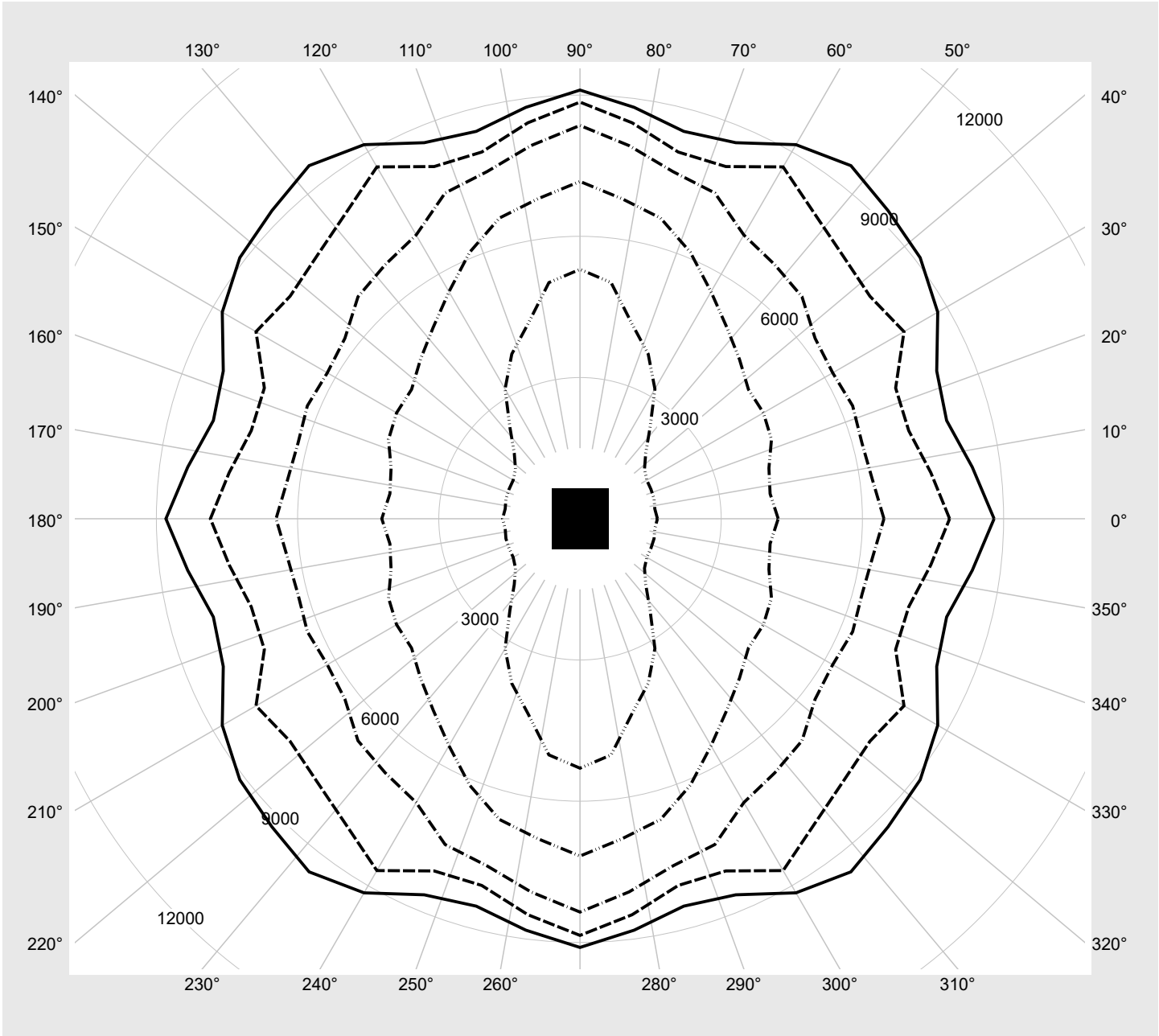
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Family Highbay 21			Order number: 52HN12DA4NLA EAN: 4069025394774						LP number 59723_80		
UGR-Table			Standard room						siteco		
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	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	21.0	22.2	21.3	22.5	22.9	20.8	22.0	21.2	22.3	22.7
	3H	21.0	22.1	21.4	22.4	22.8	20.9	22.0	21.3	22.3	22.7
	4H	21.0	22.0	21.4	22.4	22.8	20.9	21.9	21.3	22.3	22.7
	6H	21.0	21.9	21.4	22.3	22.7	21.0	21.9	21.4	22.2	22.6
	8H	21.1	21.8	21.5	22.2	22.6	21.1	21.8	21.5	22.2	22.6
	12H	21.1	21.7	21.5	22.1	22.6	21.1	21.8	21.5	22.2	22.6
4H	2H	20.9	21.9	21.3	22.2	22.6	20.7	21.7	21.1	22.1	22.4
	3H	21.0	21.8	21.4	22.2	22.6	20.9	21.7	21.3	22.1	22.5
	4H	21.0	21.7	21.5	22.1	22.6	21.0	21.7	21.4	22.1	22.5
	6H	21.0	21.6	21.5	22.1	22.5	21.0	21.7	21.5	22.1	22.6
	8H	21.0	21.5	21.5	22.0	22.5	21.1	21.6	21.5	22.1	22.6
	12H	21.0	21.4	21.5	21.9	22.4	21.1	21.6	21.6	22.0	22.5
8H	4H	21.0	21.5	21.4	22.0	22.4	20.9	21.5	21.4	21.9	22.4
	6H	21.0	21.4	21.5	21.9	22.4	21.0	21.5	21.5	21.9	22.4
	8H	20.9	21.3	21.4	21.8	22.3	21.0	21.4	21.5	21.9	22.5
	12H	20.9	21.2	21.4	21.7	22.3	21.1	21.4	21.6	21.9	22.4
12H	4H	21.0	21.4	21.5	21.9	22.4	20.9	21.4	21.4	21.8	22.3
	6H	21.0	21.3	21.5	21.8	22.3	21.0	21.4	21.5	21.9	22.4
	8H	20.9	21.2	21.5	21.7	22.3	21.0	21.3	21.6	21.8	22.4

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°	33088.5	32064.3	32546.2	32727.1	32794.6	32065.1	30926.0	30079.8	29800.8	29718.8
50,0°	18770.5	18253.3	18595.0	18637.7	18635.1	18281.8	17625.3	17039.6	16667.5	16536.8
55,0°	12708.4	12336.6	12611.0	12933.1	13280.5	13026.0	12381.5	11864.2	11541.0	11580.3
60,0°	9777.2	9495.3	9655.2	10336.6	10661.5	10643.9	10253.5	9625.5	9513.6	9712.9
65,0°	8797.6	8286.2	8108.5	8776.1	9179.6	9441.5	9176.0	8559.7	8717.0	9106.6
70,0°	7852.6	7416.3	7175.6	7948.2	7774.3	8066.0	8630.4	8031.4	8350.0	8850.9
75,0°	6457.6	6233.9	6262.6	6199.3	6389.9	6753.7	6961.2	7580.7	7874.4	8355.1
80,0°	4211.1	4076.4	4337.1	4499.5	4574.5	5000.6	5567.9	6296.9	6767.5	7165.5
85,0°	1645.4	1604.0	1630.9	1638.9	1791.9	2258.8	3183.1	3963.7	4860.4	5298.6

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Luminance values in cd/m²		siteco
		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	32000	175.8
95	240	252	30383	165.9
90	227	250	28854	157.0
85	213	248	27203	146.8
80	199	245	25552	137.1
75	186	243	23973	128.1
70	173	240	22393	119.1
65	160	237	20809	110.2
60	147	234	19203	101.2
55	134	231	17585	92.4
50	121	227	15942	83.5
45	109	223	14413	75.4
40	96	218	12740	66.7
35	84	213	11182	58.6
30	72	208	9616	50.5
25	60	201	8032	42.5
20	48	193	6440	34.6
15	36	182	4835	26.8
10	24	168	3218	18.9
5	12	142	1592	10.7
2	6	117	771	6.5