

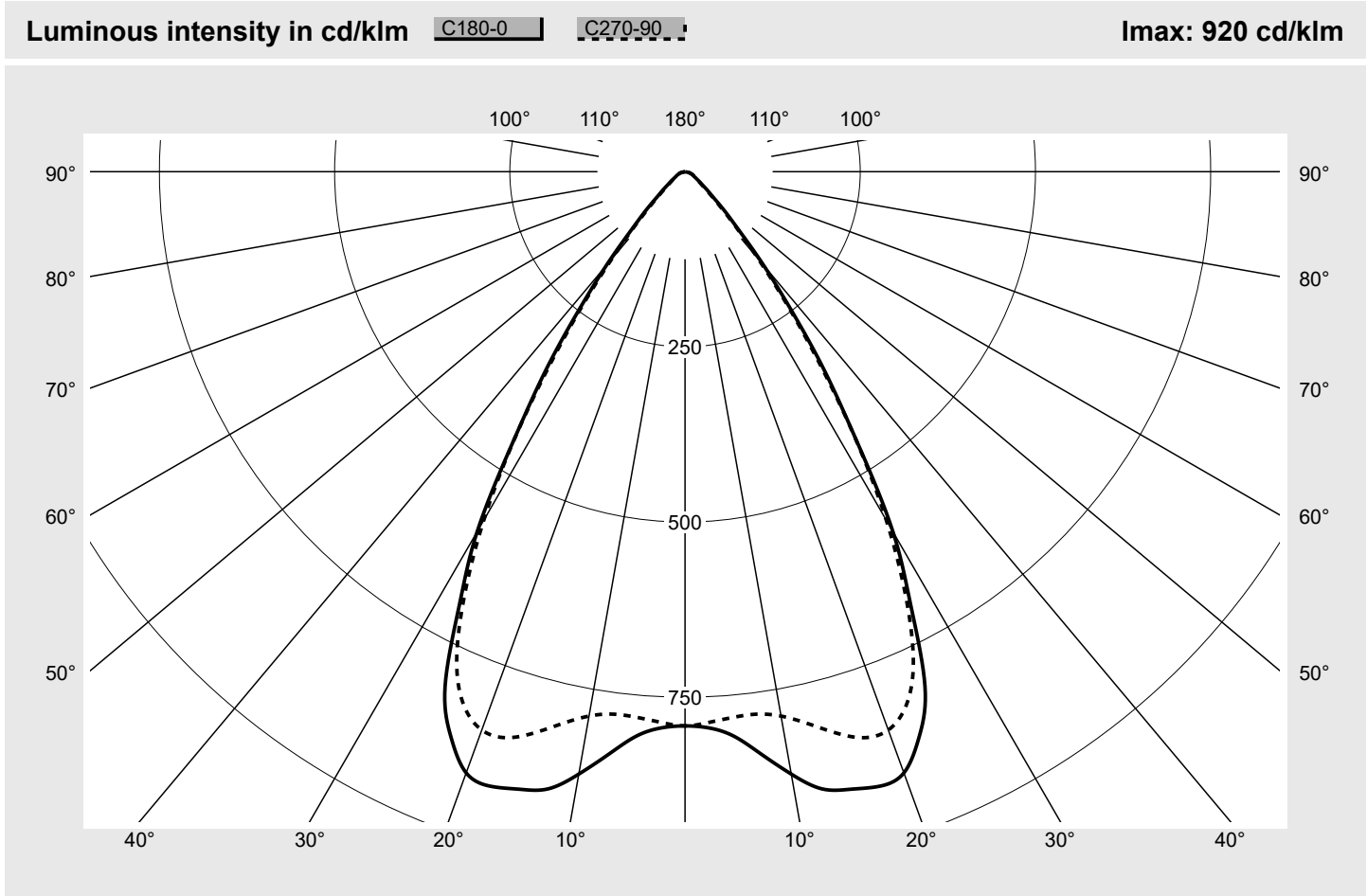


Photometric test report

Family Highbay 21	Order number: 52HN32DA4FDA EAN: 4069025256836	LP number 59723_40
	Version primary light control with lens, PMMA, housing, black, wide distribution	serial documentation 24.02.2025
	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 = 2110 lm Power consumption = 11.9 W Luminous efficacy = 177.3 lm/W	



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°	Phi-zone	Total Phi-zone
	127,5°	120,0°	112,5°	105,0°	97,5°			
	232,5°	240,0°	247,5°	255,0°	262,5°			
	307,5°	300,0°	292,5°	285,0°	277,5°	270,0°		
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									
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	12.8	11.9	13.1	13.4	11.4	12.6	11.7	12.9	13.2
	3H	11.6	12.7	12.0	13.0	13.3	11.4	12.5	11.8	12.9	13.2
	4H	11.6	12.6	12.0	12.9	13.3	11.5	12.5	11.9	12.8	13.2
	6H	11.6	12.5	12.0	12.8	13.2	11.5	12.4	11.9	12.8	13.2
	8H	11.7	12.4	12.1	12.8	13.2	11.7	12.4	12.1	12.8	13.2
	12H	11.6	12.3	12.1	12.7	13.1	11.7	12.3	12.1	12.7	13.1
4H	2H	11.4	12.4	11.8	12.8	13.2	11.3	12.3	11.7	12.6	13.0
	3H	11.5	12.3	12.0	12.7	13.2	11.4	12.2	11.8	12.6	13.0
	4H	11.6	12.3	12.0	12.7	13.1	11.5	12.2	12.0	12.7	13.1
	6H	11.6	12.2	12.0	12.6	13.1	11.6	12.2	12.1	12.6	13.1
	8H	11.5	12.1	12.0	12.5	13.0	11.6	12.2	12.1	12.6	13.1
	12H	11.6	12.0	12.0	12.4	12.9	11.7	12.1	12.2	12.6	13.1
8H	4H	11.5	12.1	12.0	12.5	13.0	11.5	12.0	11.9	12.5	12.9
	6H	11.5	12.0	12.0	12.4	12.9	11.6	12.0	12.1	12.5	13.0
	8H	11.5	11.9	12.0	12.4	12.9	11.6	12.0	12.1	12.5	13.0
	12H	11.5	11.8	12.0	12.3	12.8	11.6	11.9	12.2	12.4	13.0
12H	4H	11.5	12.0	12.0	12.4	12.9	11.5	11.9	12.0	12.4	12.9
	6H	11.5	11.9	12.0	12.4	12.9	11.6	11.9	12.1	12.4	12.9
	8H	11.5	11.8	12.0	12.3	12.8	11.6	11.9	12.1	12.4	12.9

Luminance table		Max. for $\gamma \geq 65^\circ$									
		Photometric dimensions in mm: L = 426 B = 264									
C-planes	γ	10,0°	20,0°	30,0°	40,0°	50,0°	60,0°	70,0°	80,0°	90,0°	
		170,0°	160,0°	150,0°	140,0°	130,0°	120,0°	110,0°	100,0°	270,0°	
		190,0°	200,0°	210,0°	220,0°	230,0°	240,0°	250,0°	260,0°	280,0°	
		180,0°	350,0°	340,0°	320,0°	310,0°	300,0°	290,0°			
	45,0°	2181.8	2114.2	2146.0	2157.9	2162.4	2114.3	2039.2	1983.4	1965.0	1959.6
	50,0°	1237.7	1203.6	1226.1	1228.9	1228.8	1205.5	1162.2	1123.5	1099.0	1090.4
	55,0°	838.0	813.4	831.5	852.8	875.7	858.9	816.4	782.3	761.0	763.6
	60,0°	644.7	626.1	636.6	681.6	703.0	701.8	676.1	634.7	627.3	640.4
	65,0°	580.1	546.4	534.7	578.7	605.3	622.6	605.0	564.4	574.8	600.5
	70,0°	517.8	489.0	473.1	524.1	512.6	531.9	569.1	529.6	550.6	583.6
	75,0°	425.8	411.0	412.9	408.8	421.3	445.3	459.0	499.9	519.2	550.9
	80,0°	277.7	268.8	286.0	296.7	301.6	329.7	367.1	415.2	446.2	472.5
	85,0°	108.5	105.8	107.5	108.1	118.2	148.9	209.9	261.4	320.5	349.4

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

