
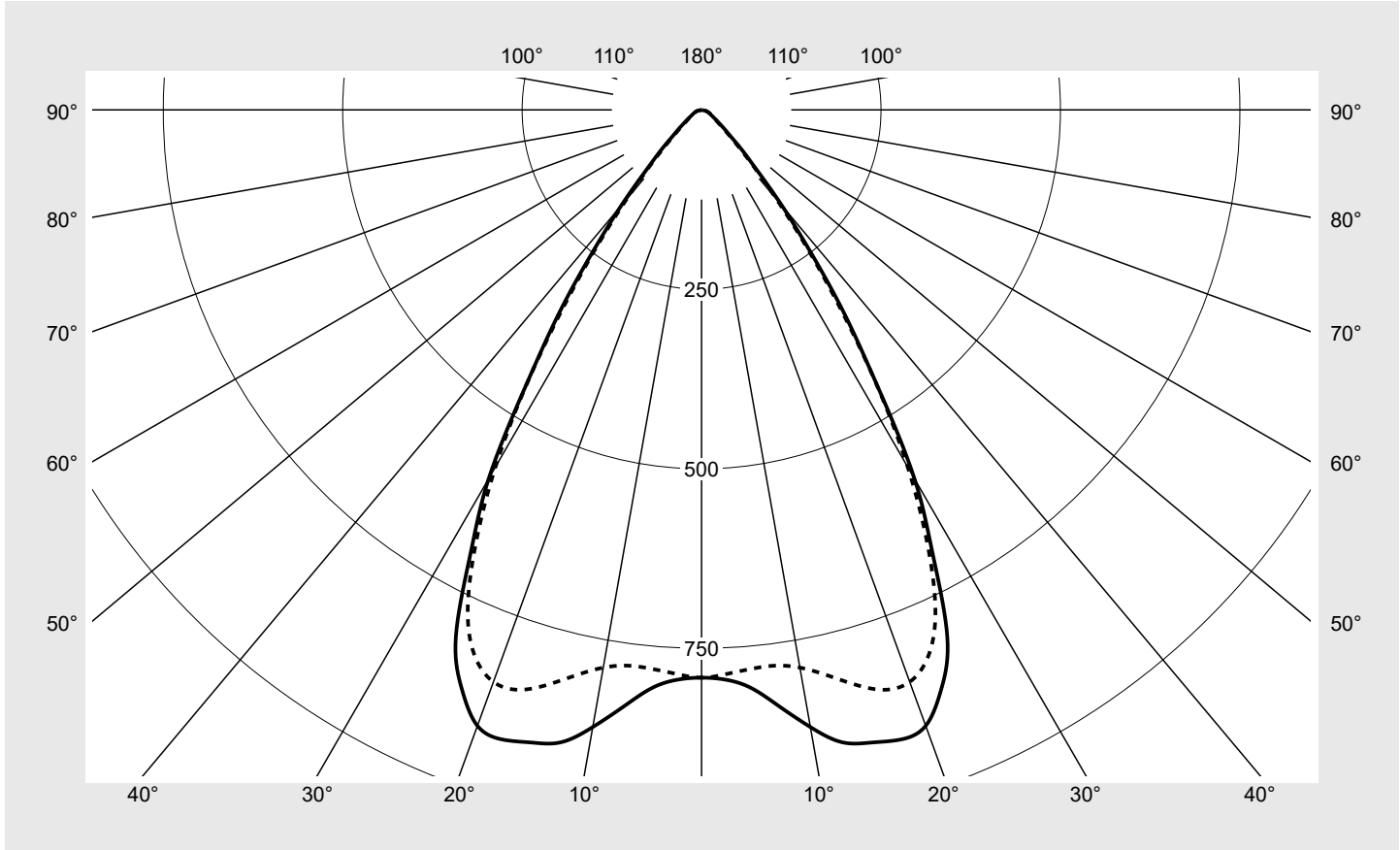


Photometric test report

Family Highbay 21	Order number: 52HN12DB4RDA EAN: 4069025256799	LP number 59723_26
	Version primary light control with lens, PMMA, housing, white, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode Rated values Net luminous flux = 45000 lm Power consumption = 239.3 W Luminous efficacy = 188.1 lm/W	serial documentation 24.02.2025



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

Photometric test report

Family Highbay 21	Order number: 52HN12DB4RDA EAN: 4069025256799	LP number 59723_26
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Table of values for luminous intensities	Maximum luminous intensity
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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

Photometric test report

Family Highbay 21	Order number: 52HN12DB4RDA EAN: 4069025256799	LP number 59723_26
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

Photometric test report

Family Highbay 21	Order number: 52HN12DB4RDA EAN: 4069025256799	LP number 59723_26
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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	19.8	21.0	20.1	21.3	21.6	19.6	20.8	19.9	21.1	21.4
	3H	19.8	20.9	20.2	21.2	21.6	19.7	20.7	20.0	21.1	21.4
	4H	19.8	20.8	20.2	21.2	21.5	19.7	20.7	20.1	21.1	21.4
	6H	19.8	20.7	20.2	21.1	21.5	19.8	20.7	20.2	21.0	21.4
	8H	19.9	20.6	20.3	21.0	21.4	19.9	20.6	20.3	21.0	21.4
	12H	19.9	20.5	20.3	20.9	21.3	19.9	20.5	20.3	20.9	21.4
4H	2H	19.7	20.7	20.1	21.0	21.4	19.5	20.5	19.9	20.8	21.2
	3H	19.8	20.6	20.2	21.0	21.4	19.6	20.5	20.1	20.9	21.3
	4H	19.8	20.5	20.2	20.9	21.4	19.7	20.5	20.2	20.9	21.3
	6H	19.8	20.4	20.2	20.8	21.3	19.8	20.4	20.3	20.9	21.3
	8H	19.8	20.3	20.2	20.8	21.2	19.8	20.4	20.3	20.8	21.3
	12H	19.8	20.2	20.3	20.7	21.2	19.9	20.3	20.4	20.8	21.3
8H	4H	19.7	20.3	20.2	20.7	21.2	19.7	20.2	20.2	20.7	21.2
	6H	19.7	20.2	20.2	20.7	21.2	19.8	20.2	20.3	20.7	21.2
	8H	19.7	20.1	20.2	20.6	21.1	19.8	20.2	20.3	20.7	21.2
	12H	19.7	20.0	20.2	20.5	21.0	19.9	20.2	20.4	20.7	21.2
12H	4H	19.8	20.2	20.3	20.7	21.2	19.7	20.1	20.2	20.6	21.1
	6H	19.7	20.1	20.3	20.6	21.1	19.8	20.1	20.3	20.6	21.2
	8H	19.7	20.0	20.2	20.5	21.1	19.8	20.1	20.3	20.6	21.2

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°	23265.3	22545.2	22884.1	23011.2	23058.7	22545.8	21744.8	21149.9	20953.7	20896.0
50,0°	13198.0	12834.3	13074.6	13104.6	13102.8	12854.4	12392.8	11980.9	11719.3	11627.5
55,0°	8935.6	8674.1	8867.1	9093.6	9337.8	9158.9	8705.7	8342.0	8114.7	8142.4
60,0°	6874.6	6676.4	6788.8	7267.9	7496.4	7484.0	7209.5	6767.9	6689.3	6829.4
65,0°	6185.8	5826.2	5701.3	6170.7	6454.4	6638.6	6451.9	6018.5	6129.2	6403.1
70,0°	5521.3	5214.6	5045.4	5588.6	5466.3	5671.4	6068.3	5647.1	5871.1	6223.3
75,0°	4540.5	4383.2	4403.4	4358.9	4492.9	4748.7	4894.6	5330.2	5536.7	5874.7
80,0°	2961.0	2866.2	3049.5	3163.7	3216.5	3516.0	3914.9	4427.5	4758.4	5038.2
85,0°	1156.9	1127.8	1146.7	1152.3	1260.0	1588.2	2238.1	2787.0	3417.5	3725.6

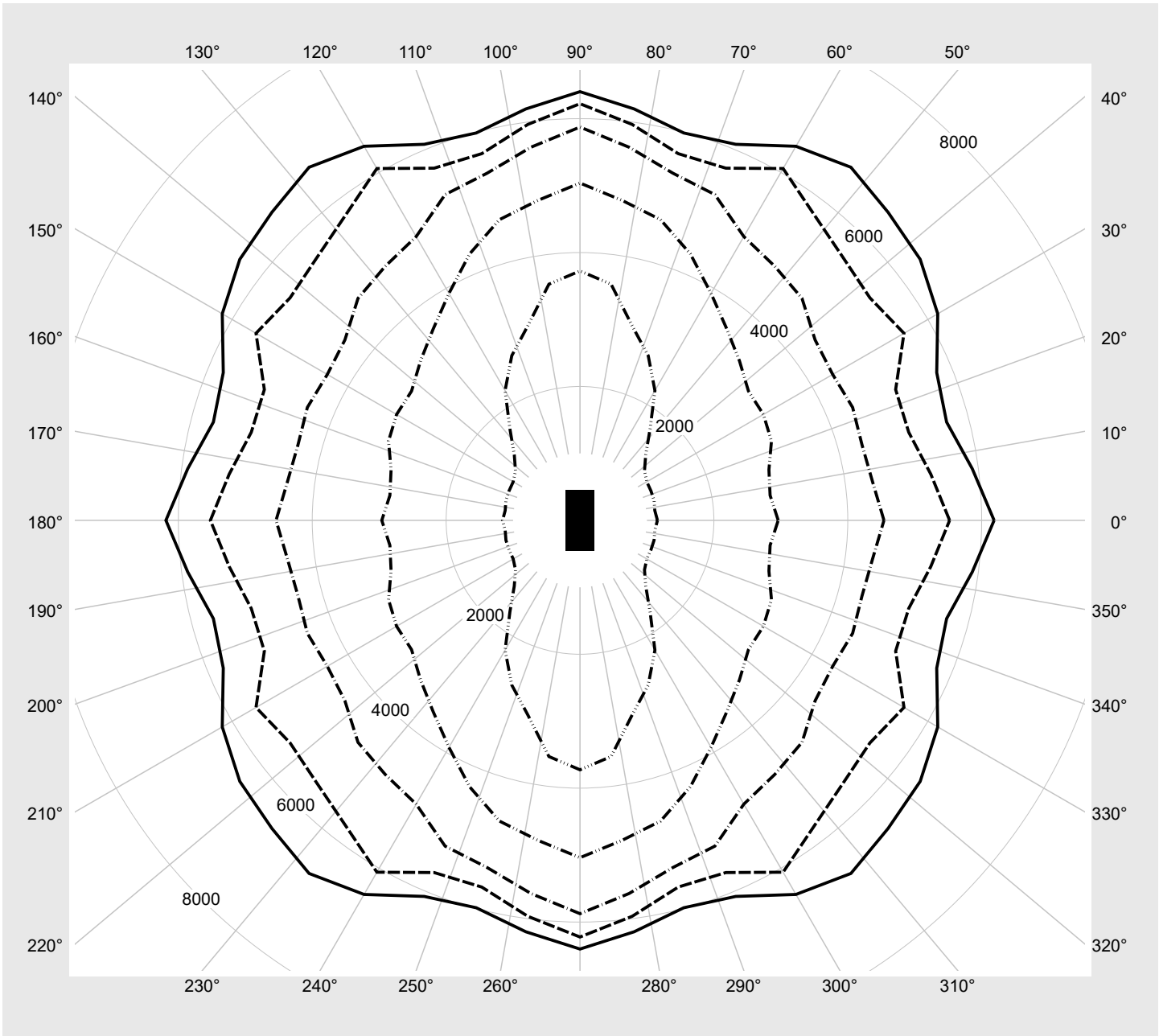
Photometric test report

Family Highbay 21	Order number: 52HN12DB4RDA EAN: 4069025256799	LP number 59723_26
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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siteco



Photometric test report

Family Highbay 21	Order number: 52HN12DB4RDA EAN: 4069025256799	LP number 59723_26
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Dimming levels table	environmental temperature: 25°C	sITeco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	45000	239.3
95	241	252	42827	226.8
90	227	250	40465	213.4
85	214	248	38265	201.2
80	201	245	36033	188.8
75	188	243	33796	176.5
70	175	240	31534	164.3
65	162	238	29267	152.1
60	149	234	26992	139.9
55	136	231	24695	127.9
50	124	228	22575	116.8
45	111	224	20262	104.4
40	98	219	17924	92.4
35	86	214	15764	81.5
30	74	209	13589	70.6
25	61	202	11217	58.9
20	49	194	9003	47.9
15	37	183	6792	37.3
10	25	169	4569	26.1
5	13	145	2332	14.8
2	6	117	1025	8.1