

Photometric test report

Family
Highbay 21

Order number: 52HN12DB4TDA
EAN: 4069025394842

LP number
59723_66

serial
documentation
24.02.2025

siteco



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

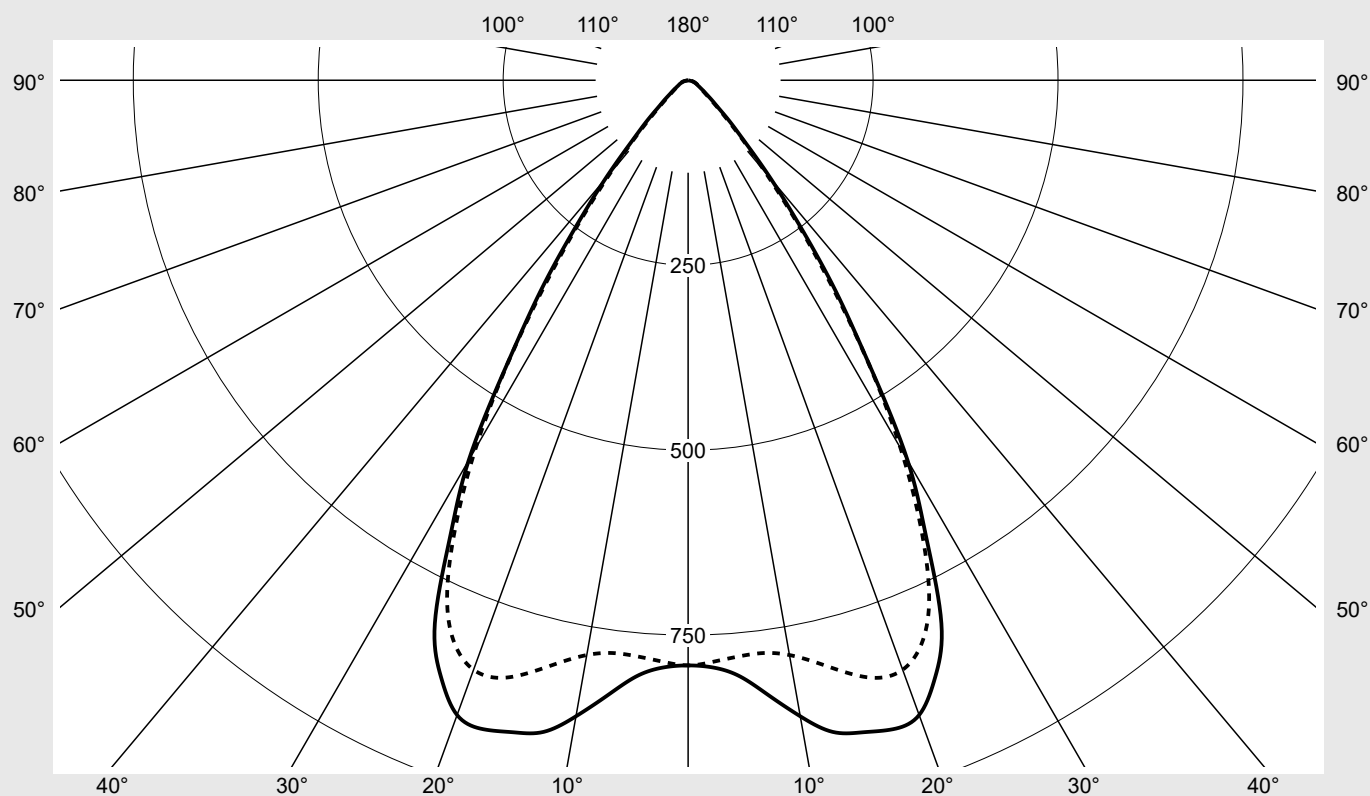
Rated values Net luminous flux = 8350 lm
Power consumption = 44.8 W
Luminous efficacy = 186.4 lm/W

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: 52HN12DB4TDA EAN: 4069025394842	LP number 59723_66
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

Photometric test report

Family Highbay 21	Order number: 52HN12DB4TDA EAN: 4069025394842	LP number 59723_66
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

Photometric test report

Family Highbay 21			Order number: 52HN12DB4TDA EAN: 4069025394842						LP number 59723_66		
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	13.9	15.1	14.3	15.5	15.8	13.7	15.0	14.1	15.3	15.6
	3H	13.9	15.0	14.3	15.4	15.7	13.8	14.9	14.2	15.2	15.6
	4H	14.0	15.0	14.4	15.3	15.7	13.9	14.9	14.3	15.2	15.6
	6H	13.9	14.8	14.4	15.2	15.6	13.9	14.8	14.3	15.2	15.6
	8H	14.0	14.8	14.5	15.2	15.6	14.0	14.8	14.5	15.2	15.6
	12H	14.0	14.7	14.4	15.1	15.5	14.0	14.7	14.5	15.1	15.5
4H	2H	13.8	14.8	14.2	15.2	15.5	13.6	14.6	14.0	15.0	15.4
	3H	13.9	14.7	14.3	15.1	15.5	13.8	14.6	14.2	15.0	15.4
	4H	13.9	14.7	14.4	15.1	15.5	13.9	14.6	14.3	15.0	15.5
	6H	13.9	14.5	14.4	15.0	15.4	14.0	14.6	14.4	15.0	15.5
	8H	13.9	14.5	14.4	14.9	15.4	14.0	14.5	14.5	15.0	15.5
	12H	13.9	14.3	14.4	14.8	15.3	14.1	14.5	14.5	14.9	15.4
8H	4H	13.9	14.4	14.4	14.9	15.4	13.8	14.4	14.3	14.8	15.3
	6H	13.9	14.3	14.4	14.8	15.3	13.9	14.4	14.4	14.9	15.4
	8H	13.8	14.2	14.4	14.7	15.3	14.0	14.4	14.5	14.8	15.4
	12H	13.8	14.1	14.4	14.6	15.2	14.0	14.3	14.5	14.8	15.4
12H	4H	13.9	14.3	14.4	14.8	15.3	13.9	14.3	14.4	14.7	15.2
	6H	13.9	14.2	14.4	14.7	15.3	13.9	14.3	14.5	14.8	15.3
	8H	13.9	14.1	14.4	14.7	15.2	14.0	14.3	14.5	14.8	15.3

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:				L = 852 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°	4317.0	4183.4	4246.3	4269.9	4278.7	4183.5	4034.9	3924.5	3888.1	3877.4
50,0°	2449.0	2381.5	2426.1	2431.6	2431.3	2385.2	2299.6	2223.1	2174.6	2157.5
55,0°	1658.0	1609.5	1645.3	1687.4	1732.7	1699.5	1615.4	1547.9	1505.7	1510.9
60,0°	1275.6	1238.8	1259.7	1348.6	1391.0	1388.7	1337.8	1255.8	1241.2	1267.2
65,0°	1147.8	1081.1	1057.9	1145.0	1197.6	1231.8	1197.2	1116.8	1137.3	1188.1
70,0°	1024.5	967.6	936.2	1037.0	1014.3	1052.4	1126.0	1047.8	1089.4	1154.8
75,0°	842.5	813.3	817.1	808.8	833.7	881.2	908.2	989.0	1027.4	1090.1
80,0°	549.4	531.8	565.9	587.0	596.8	652.4	726.4	821.5	882.9	934.9
85,0°	214.7	209.3	212.8	213.8	233.8	294.7	415.3	517.1	634.1	691.3

Photometric test report

Family
Highbay 21

Order number: 52HN12DB4TDA
EAN: 4069025394842

LP number
59723_66

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

