



Photometric test report

Family Highbay 11	Order number: 51HN12DA6JDA EAN: 4069025424716	LP number 59710_425
	Version	primary light control with lens, PMMA, housing, white, wide distribution
	Lamps	LED 6500 K CRI ≥ 80
	Controlgear	ECG-DALI
	Setting	AC-mode
	Rated values	Net luminous flux = 21810 lm Power consumption = 117.2 W Luminous efficacy = 186.1 lm/W
		serial documentation 10.04.2025
		

Luminous intensity in cd/klm **C180-0** **C270-90** **Imax: 772 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=88 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 γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Luminous flux in lm/klm	
								Phi-zone	Total Phi-zone
Luminous intensity in cd/klm									
0,0°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	1.0	1.0
2,5°	644.5	645.1	645.0	644.3	644.2	643.7	641.7	7.7	8.7
5,0°	651.5	652.3	650.7	647.5	645.3	643.2	640.4	15.5	24.1
7,5°	669.6	669.1	664.2	657.2	651.2	645.8	641.3	23.5	47.6
10,0°	693.4	691.0	681.5	670.0	659.9	651.2	645.8	31.9	79.6
12,5°	711.8	709.4	700.3	685.9	671.9	660.7	654.0	40.7	120.2
15,0°	721.3	721.7	717.1	704.9	689.4	675.9	667.7	49.7	169.9
17,5°	743.8	740.8	737.9	726.5	708.9	693.0	684.2	59.4	229.3
20,0°	761.9	761.9	759.6	745.2	724.0	705.6	696.8	69.2	298.5
22,5°	772.0	771.2	770.0	754.7	731.1	710.8	702.6	78.2	376.7
25,0°	758.1	756.6	756.3	743.6	722.7	703.3	695.6	85.1	461.8
27,5°	706.7	709.5	709.5	700.0	685.7	672.3	667.0	87.8	549.7
30,0°	640.4	635.6	633.7	626.6	621.7	614.1	609.9	85.8	635.5
32,5°	530.6	537.6	535.6	526.2	530.2	524.1	520.8	78.1	713.6
35,0°	428.2	426.4	425.9	411.9	420.8	414.2	411.4	66.0	779.6
37,5°	322.5	323.4	327.0	311.0	319.4	310.8	308.2	53.0	832.6
40,0°	236.1	234.0	241.6	230.8	230.9	219.8	218.4	40.7	873.3
42,5°	162.3	165.3	172.9	171.1	161.7	151.3	150.8	30.2	903.5
45,0°	117.3	114.9	119.4	122.5	109.3	102.6	102.3	21.9	925.4
47,5°	80.5	81.4	82.8	85.5	75.2	71.4	70.8	15.9	941.3
50,0°	59.4	58.0	58.0	59.0	52.9	50.5	49.6	11.7	953.0
52,5°	43.3	42.8	42.8	43.0	39.3	37.2	36.6	8.9	961.8
55,0°	33.3	32.4	32.9	33.7	30.5	28.7	28.3	7.1	968.9
57,5°	25.9	25.4	25.9	26.8	24.5	22.9	22.9	5.8	974.7
60,0°	20.9	20.2	21.2	21.8	20.4	18.9	19.2	4.9	979.5
62,5°	16.9	16.2	17.4	18.0	17.2	15.9	16.4	4.1	983.6
65,0°	14.9	13.6	14.4	15.1	14.8	13.6	14.4	3.6	987.2
67,5°	12.3	11.4	12.5	12.4	13.0	11.7	12.6	3.1	990.3
70,0°	10.4	9.5	10.5	10.1	11.1	10.1	11.0	2.7	993.0
72,5°	8.2	7.7	7.9	8.2	8.7	8.6	9.5	2.2	995.2
75,0°	6.5	6.0	6.0	6.4	6.6	7.1	7.9	1.7	996.9
77,5°	4.5	4.3	4.4	4.7	5.1	5.6	6.3	1.3	998.2
80,0°	2.9	2.7	2.9	3.1	3.5	4.1	4.7	0.9	999.1
82,5°	1.3	1.4	1.6	1.8	2.2	2.7	3.3	0.5	999.7
85,0°	0.6	0.6	0.6	0.7	1.0	1.4	1.8	0.3	999.9
87,5°	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.1	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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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	21.2	22.5	21.6	22.8	23.1	20.9	22.2	21.3	22.5	22.8
	3H	21.2	22.4	21.6	22.7	23.0	20.9	22.1	21.3	22.4	22.8
	4H	21.2	22.3	21.6	22.6	23.0	21.0	22.0	21.4	22.4	22.7
	6H	21.2	22.1	21.6	22.5	22.9	21.0	21.9	21.4	22.3	22.7
	8H	21.3	22.1	21.7	22.4	22.8	21.1	21.9	21.5	22.3	22.7
	12H	21.2	22.0	21.7	22.4	22.8	21.1	21.8	21.5	22.2	22.6
4H	2H	21.1	22.2	21.5	22.5	22.9	20.8	21.9	21.2	22.2	22.6
	3H	21.2	22.0	21.6	22.4	22.8	20.9	21.8	21.3	22.2	22.6
	4H	21.2	21.9	21.6	22.3	22.8	20.9	21.7	21.4	22.1	22.6
	6H	21.1	21.8	21.6	22.2	22.7	21.0	21.6	21.5	22.1	22.5
	8H	21.1	21.7	21.6	22.1	22.6	21.0	21.6	21.5	22.0	22.5
	12H	21.1	21.6	21.6	22.0	22.5	21.0	21.5	21.5	22.0	22.5
8H	4H	21.1	21.7	21.6	22.1	22.6	20.9	21.5	21.4	21.9	22.4
	6H	21.1	21.5	21.6	22.0	22.5	20.9	21.4	21.4	21.9	22.4
	8H	21.0	21.4	21.5	21.9	22.5	20.9	21.4	21.5	21.9	22.4
	12H	21.0	21.3	21.5	21.8	22.4	21.0	21.3	21.5	21.8	22.4
12H	4H	21.1	21.6	21.6	22.0	22.5	20.9	21.4	21.4	21.8	22.3
	6H	21.1	21.4	21.6	21.9	22.5	20.9	21.3	21.5	21.8	22.3
	8H	21.0	21.3	21.6	21.9	22.4	21.0	21.3	21.5	21.8	22.3

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45,0°		32177.2	31507.2	32751.2	33590.7	29967.5	28136.5	28053.7	
50,0°		17927.9	17504.0	17485.6	17797.9	15970.8	15227.7	14966.4	
55,0°		11266.7	10965.4	11121.9	11377.2	10320.6	9701.6	9584.9	
60,0°		8103.5	7822.7	8219.5	8466.2	7926.6	7340.6	7434.1	
65,0°		6837.7	6220.0	6629.8	6915.7	6772.1	6262.7	6616.5	
70,0°		5877.1	5362.2	5931.5	5738.7	6295.5	5730.8	6258.7	
75,0°		4843.4	4486.0	4474.0	4784.9	4971.5	5321.4	5932.1	
80,0°		3270.0	3051.1	3228.6	3487.7	3936.7	4630.2	5278.0	
85,0°		1306.1	1299.4	1341.7	1570.9	2323.0	3095.1	4009.6	

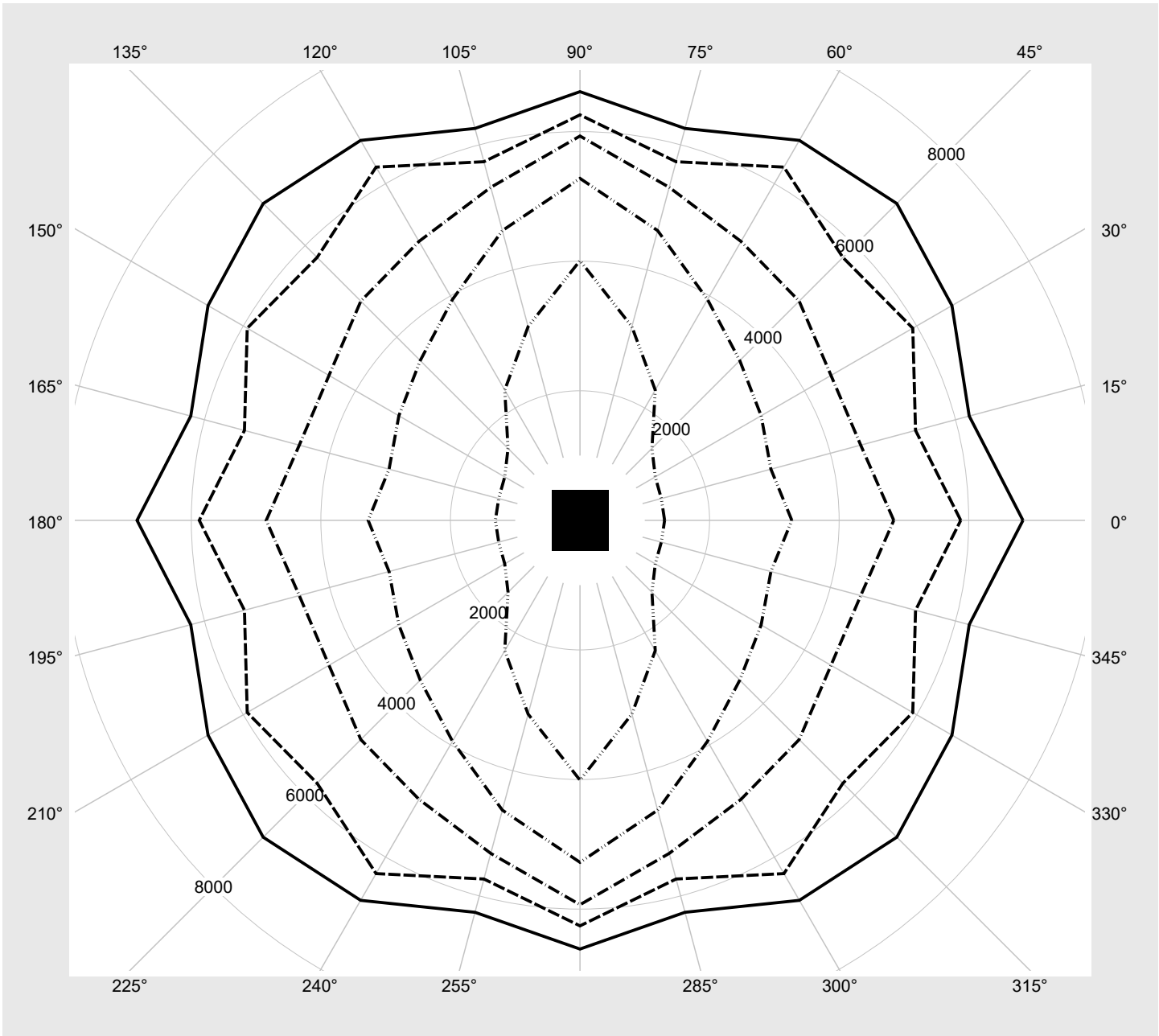
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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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	21810	117.2
95	240	252	20689	110.5
90	227	250	19642	104.4
85	213	248	18501	97.8
80	200	245	17437	91.6
75	187	243	16361	85.6
70	174	240	15282	79.4
65	161	237	14191	73.5
60	148	234	13093	67.6
55	135	231	11987	61.6
50	122	227	10874	55.5
45	110	223	9839	50.0
40	97	219	8705	44.2
35	85	214	7653	38.9
30	72	208	6501	33.1
25	60	201	5432	27.8
20	48	193	4355	22.6
15	36	182	3265	17.4
10	24	168	2171	12.0
5	12	142	1063	6.5
2	6	117	508	3.8