



Photometric test report

Family Highbay 11	Order number: 51HN12DA4NDA EAN: 4069025358264	LP number 59710_128
	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 = 31500 lm Power consumption = 167.9 W Luminous efficacy = 187.6 lm/W
		serial documentation 14.02.2025
		

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



C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux in lm/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	22.5	23.8	22.9	24.1	24.4	22.2	23.5	22.6	23.8	24.1
	3H	22.5	23.6	22.9	24.0	24.3	22.2	23.4	22.6	23.7	24.0
	4H	22.5	23.5	22.9	23.9	24.3	22.2	23.3	22.6	23.6	24.0
	6H	22.5	23.4	22.9	23.8	24.2	22.3	23.2	22.7	23.6	24.0
	8H	22.5	23.3	23.0	23.7	24.1	22.4	23.2	22.8	23.5	24.0
	12H	22.5	23.2	22.9	23.6	24.1	22.4	23.1	22.8	23.5	23.9
4H	2H	22.4	23.4	22.8	23.8	24.2	22.1	23.1	22.5	23.5	23.9
	3H	22.4	23.3	22.9	23.7	24.1	22.2	23.0	22.6	23.4	23.8
	4H	22.4	23.2	22.9	23.6	24.0	22.2	23.0	22.7	23.4	23.8
	6H	22.4	23.1	22.9	23.5	24.0	22.3	22.9	22.7	23.4	23.8
	8H	22.4	23.0	22.9	23.4	23.9	22.3	22.9	22.8	23.3	23.8
	12H	22.4	22.9	22.9	23.3	23.8	22.3	22.8	22.8	23.3	23.8
8H	4H	22.4	22.9	22.8	23.4	23.9	22.2	22.7	22.6	23.2	23.7
	6H	22.3	22.8	22.8	23.3	23.8	22.2	22.7	22.7	23.2	23.7
	8H	22.3	22.7	22.8	23.2	23.7	22.2	22.6	22.7	23.1	23.7
	12H	22.3	22.6	22.8	23.1	23.7	22.3	22.6	22.8	23.1	23.6
12H	4H	22.4	22.8	22.9	23.3	23.8	22.2	22.6	22.7	23.1	23.6
	6H	22.3	22.7	22.9	23.2	23.7	22.2	22.6	22.7	23.1	23.6
	8H	22.3	22.6	22.8	23.1	23.7	22.2	22.5	22.8	23.1	23.6

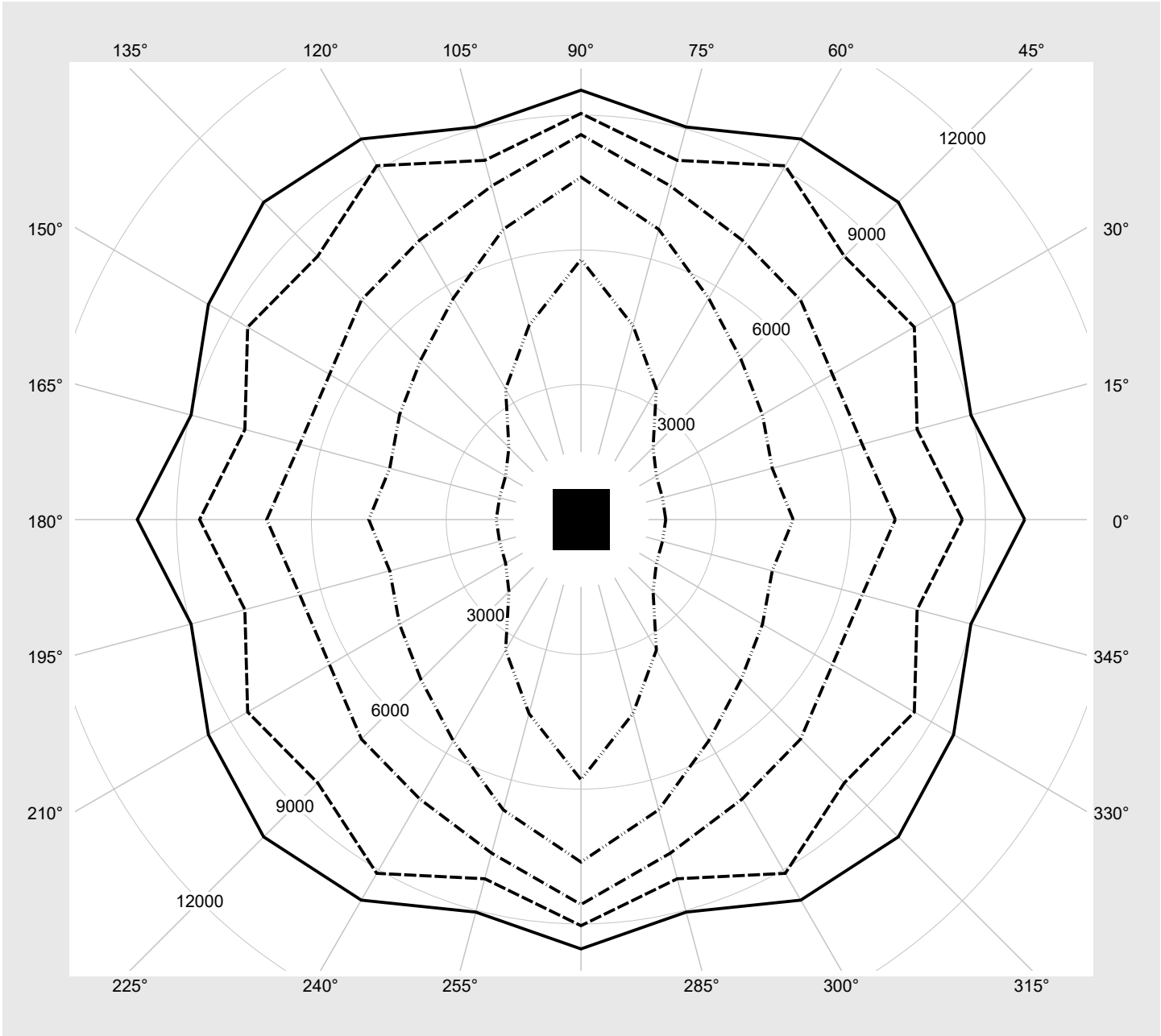
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
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C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45,0°		46473.2	45505.5	47302.3	48514.7	43281.8	40637.4	40517.7	
50,0°		25893.1	25280.9	25254.3	25705.3	23066.4	21993.2	21615.9	
55,0°		16272.3	15837.2	16063.3	16432.0	14906.0	14011.9	13843.4	
60,0°		11703.8	11298.3	11871.3	12227.6	11448.4	10602.0	10737.0	
65,0°		9875.6	8983.6	9575.4	9988.3	9780.8	9045.2	9556.2	
70,0°		8488.2	7744.6	8566.8	8288.4	9092.5	8276.9	9039.3	
75,0°		6995.2	6479.0	6461.7	6910.8	7180.3	7685.7	8567.6	
80,0°		4722.8	4406.6	4663.1	5037.3	5685.7	6687.4	7622.9	
85,0°		1886.4	1876.8	1937.8	2268.8	3355.1	4470.2	5791.0	

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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	----	----	----	----
95	240	252	29894	158.8
90	226	250	28303	148.5
85	213	248	26810	139.7
80	199	245	25167	130.2
75	186	243	23638	121.3
70	173	240	22107	112.7
65	159	237	20436	103.4
60	146	234	18872	94.9
55	133	230	17285	86.4
50	121	227	15808	78.5
45	108	223	14186	70.2
40	95	218	12554	61.9
35	83	213	11024	54.1
30	71	207	9480	46.6
25	59	201	7914	39.0
20	47	192	6334	31.7
15	35	181	4729	24.3
10	23	166	3107	16.9
5	12	142	1596	9.9
2	6	117	763	6.0