

Photometric test report

Family
Highbay 11

Order number: 51HN12DA4EDA
EAN: 4069025230539

LP number
59710_108

serial
documentation
14.02.2025



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 = 10000 lm
Power consumption = 47.7 W
Luminous efficacy = 209.6 lm/W

siteco

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	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	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	
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	18.5	19.8	18.9	20.1	20.4	18.2	19.5	18.6	19.8	20.1
	3H	18.5	19.6	18.9	20.0	20.3	18.2	19.4	18.6	19.7	20.1
	4H	18.5	19.5	18.9	19.9	20.3	18.3	19.3	18.7	19.7	20.0
	6H	18.5	19.4	18.9	19.8	20.2	18.3	19.2	18.7	19.6	20.0
	8H	18.6	19.3	19.0	19.7	20.1	18.4	19.2	18.8	19.6	20.0
	12H	18.5	19.3	19.0	19.6	20.1	18.4	19.1	18.8	19.5	19.9
4H	2H	18.4	19.4	18.8	19.8	20.2	18.1	19.2	18.5	19.5	19.9
	3H	18.4	19.3	18.9	19.7	20.1	18.2	19.1	18.6	19.4	19.9
	4H	18.4	19.2	18.9	19.6	20.1	18.2	19.0	18.7	19.4	19.9
	6H	18.4	19.1	18.9	19.5	20.0	18.3	18.9	18.7	19.4	19.8
	8H	18.4	19.0	18.9	19.4	19.9	18.3	18.9	18.8	19.3	19.8
	12H	18.4	18.9	18.9	19.3	19.8	18.3	18.8	18.8	19.3	19.8
8H	4H	18.4	19.0	18.9	19.4	19.9	18.2	18.8	18.7	19.2	19.7
	6H	18.4	18.8	18.9	19.3	19.8	18.2	18.7	18.7	19.2	19.7
	8H	18.3	18.7	18.8	19.2	19.8	18.2	18.7	18.7	19.1	19.7
	12H	18.3	18.6	18.8	19.1	19.7	18.3	18.6	18.8	19.1	19.6
12H	4H	18.4	18.9	18.9	19.3	19.8	18.2	18.7	18.7	19.1	19.6
	6H	18.4	18.7	18.9	19.2	19.8	18.2	18.6	18.7	19.1	19.6
	8H	18.3	18.6	18.8	19.1	19.7	18.2	18.6	18.8	19.1	19.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 426 B = 264	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45,0°	14753.4	14446.2	15016.6	15401.5	13740.2	12900.8	12862.8
50,0°	8220.0	8025.7	8017.2	8160.4	7322.7	6982.0	6862.2
55,0°	5165.8	5027.7	5099.5	5216.5	4732.1	4448.2	4394.7
60,0°	3715.5	3586.7	3768.7	3881.8	3634.4	3365.7	3408.6
65,0°	3135.1	2851.9	3039.8	3170.9	3105.0	2871.5	3033.7
70,0°	2694.7	2458.6	2719.6	2631.2	2886.5	2627.6	2869.6
75,0°	2220.7	2056.8	2051.3	2193.9	2279.5	2439.9	2719.9
80,0°	1499.3	1398.9	1480.3	1599.1	1805.0	2123.0	2420.0
85,0°	598.9	595.8	615.2	720.3	1065.1	1419.1	1838.4

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Luminance values in cd/m²

γ 65°

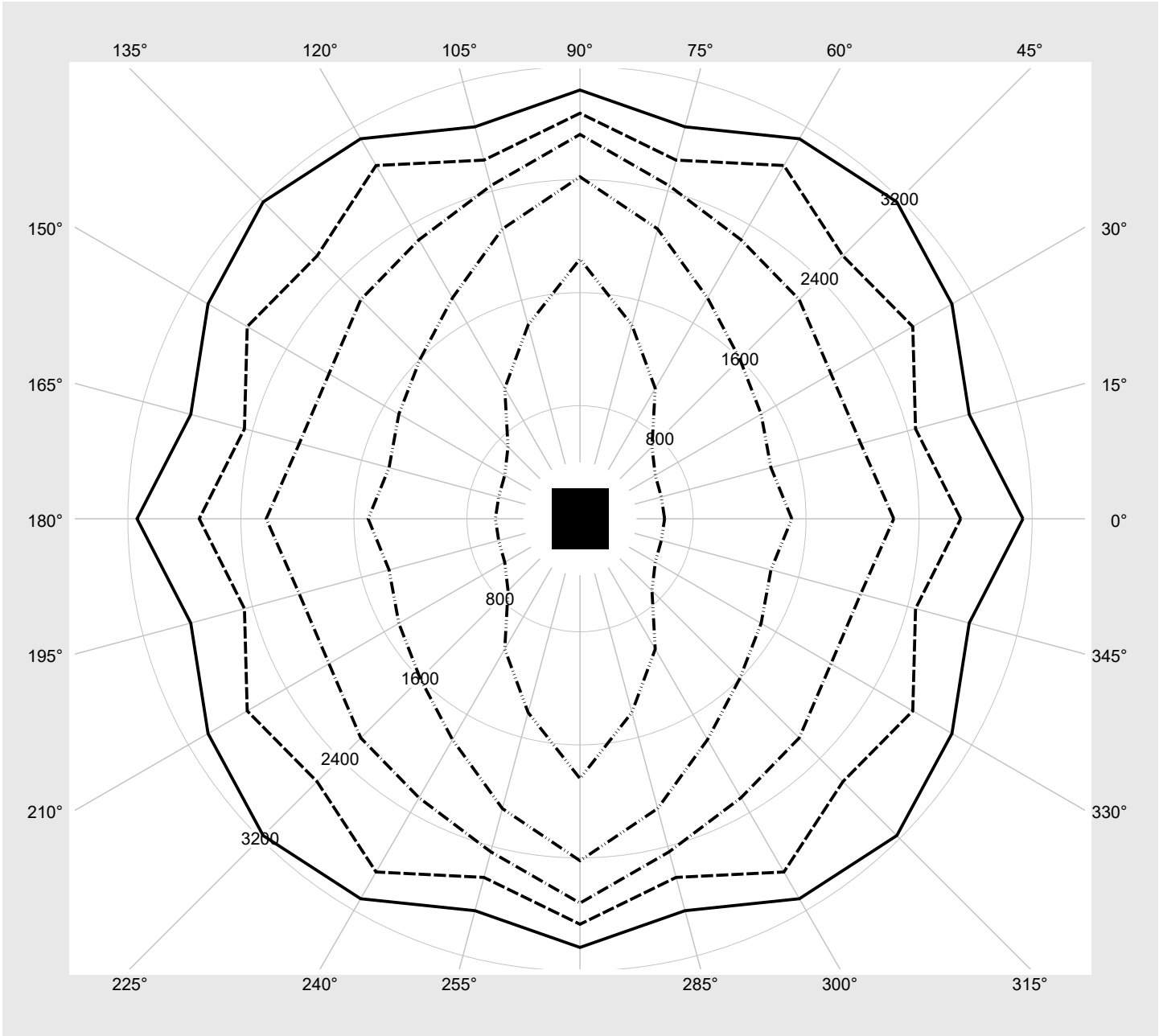
γ 70°

γ 75°

γ 80°

γ 85°

siteco



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Dimming levels table		environmental temperature: 25°C
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	10000	47.7
95	241	252	9503	45.3
90	228	250	9006	42.8
85	215	248	8507	40.5
80	202	246	8001	38.0
75	189	243	7497	35.5
70	176	241	6993	33.2
65	163	238	6487	30.8
60	151	235	6017	28.6
55	138	232	5502	26.2
50	125	228	4989	23.9
45	113	224	4513	21.7
40	100	220	3995	19.3
35	88	215	3515	17.2
30	75	209	2989	14.8
25	63	203	2505	12.8
20	51	195	2019	10.6
15	38	184	1490	8.1
10	26	171	995	5.9
5	14	148	502	3.6
2	7	122	215	2.3