

Photometric test report

Family
Highbay 11

Order number: 51HN12DA6FMA
EAN: 4069025424709

LP number
59710_392

serial
documentation
09.04.2025

siteco

Version primary light control with lens, PMMA, housing, white, for Modario® rail, wide distribution

Lamps LED 6500 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 14220 lm
Power consumption = 73.2 W
Luminous efficacy = 194.3 lm/W



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
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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	19.7	21.0	20.1	21.3	21.7	19.4	20.7	19.8	21.0	21.4
	3H	19.7	20.9	20.1	21.2	21.6	19.5	20.6	19.8	20.9	21.3
	4H	19.7	20.8	20.1	21.1	21.5	19.5	20.5	19.9	20.9	21.3
	6H	19.7	20.6	20.1	21.0	21.4	19.5	20.4	19.9	20.8	21.2
	8H	19.8	20.6	20.2	21.0	21.4	19.6	20.4	20.0	20.8	21.2
	12H	19.8	20.5	20.2	20.9	21.3	19.6	20.3	20.0	20.7	21.1
4H	2H	19.6	20.7	20.0	21.0	21.4	19.3	20.4	19.7	20.7	21.1
	3H	19.7	20.5	20.1	20.9	21.3	19.4	20.3	19.8	20.7	21.1
	4H	19.7	20.4	20.1	20.8	21.3	19.5	20.2	19.9	20.6	21.1
	6H	19.6	20.3	20.1	20.7	21.2	19.5	20.2	20.0	20.6	21.1
	8H	19.6	20.2	20.1	20.7	21.1	19.5	20.1	20.0	20.5	21.0
	12H	19.6	20.1	20.1	20.6	21.1	19.6	20.0	20.1	20.5	21.0
8H	4H	19.6	20.2	20.1	20.6	21.1	19.4	20.0	19.9	20.4	20.9
	6H	19.6	20.1	20.1	20.5	21.0	19.5	19.9	20.0	20.4	20.9
	8H	19.5	20.0	20.0	20.4	21.0	19.5	19.9	20.0	20.4	20.9
	12H	19.5	19.9	20.1	20.4	20.9	19.5	19.8	20.0	20.3	20.9
12H	4H	19.6	20.1	20.1	20.5	21.0	19.4	19.9	19.9	20.3	20.8
	6H	19.6	20.0	20.1	20.4	21.0	19.5	19.8	20.0	20.3	20.8
	8H	19.5	19.9	20.1	20.4	20.9	19.5	19.8	20.0	20.3	20.8

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°	20979.3	20542.5	21353.6	21900.9	19538.6	18344.9	18290.9
50,0°	11688.9	11412.5	11400.5	11604.1	10412.9	9928.4	9758.0
55,0°	7345.8	7149.4	7251.4	7417.9	6729.0	6325.4	6249.3
60,0°	5283.4	5100.4	5359.1	5519.9	5168.1	4786.0	4847.0
65,0°	4458.1	4055.4	4322.6	4509.0	4415.4	4083.3	4313.9
70,0°	3831.8	3496.1	3867.3	3741.6	4104.6	3736.4	4080.6
75,0°	3157.8	2924.8	2917.0	3119.7	3241.4	3469.5	3867.7
80,0°	2132.0	1989.3	2105.1	2274.0	2566.7	3018.9	3441.2
85,0°	851.6	847.2	874.8	1024.2	1514.6	2018.0	2614.2

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Luminance values in cd/m²

γ 65°

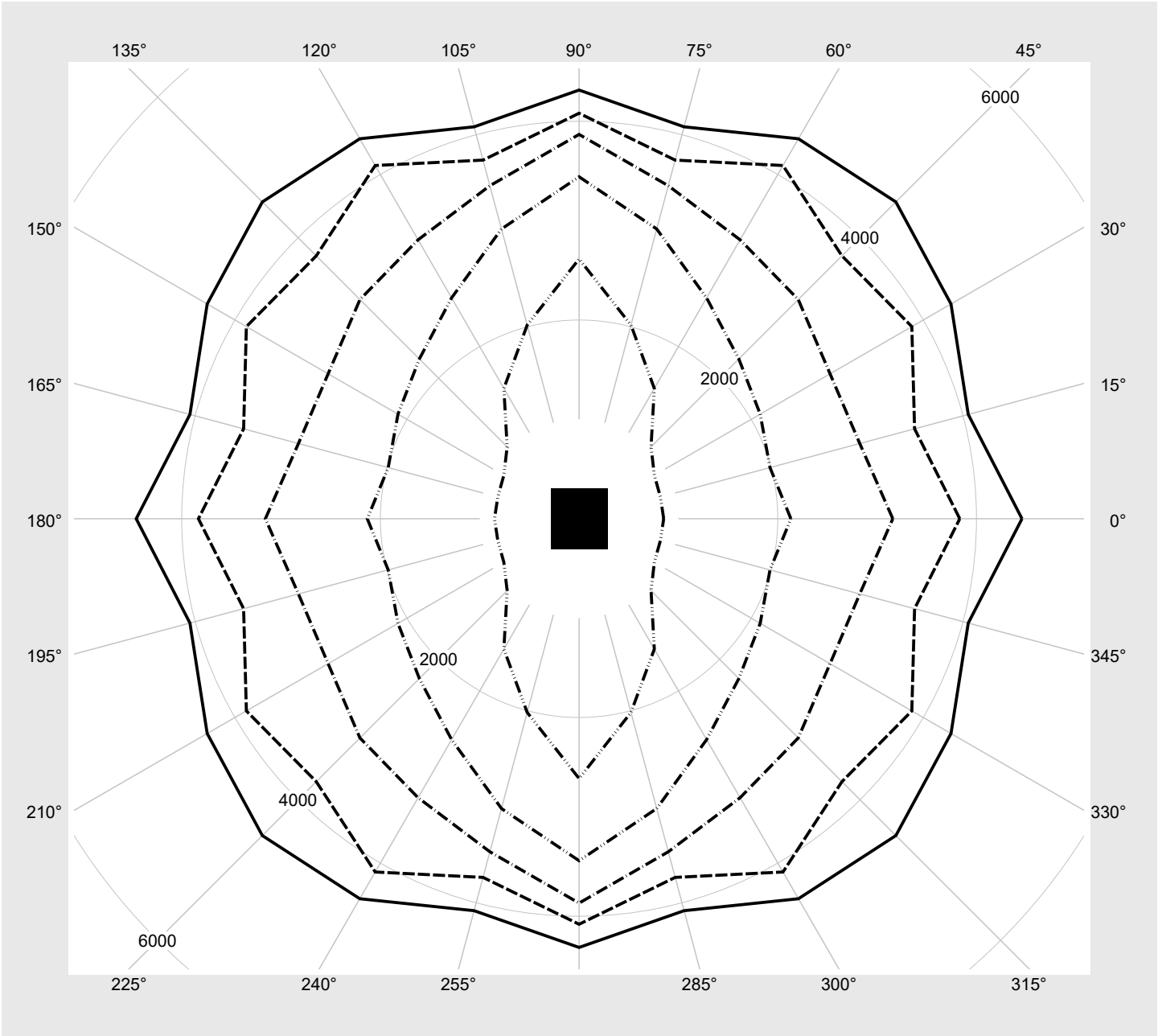
γ 70°

γ 75°

γ 80°

γ 85°

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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	14220	73.2
95	241	252	13521	69.3
90	228	250	12822	65.5
85	214	248	12066	61.5
80	201	245	11356	57.7
75	188	243	10649	53.8
70	175	240	9936	50.1
65	162	238	9216	46.4
60	150	235	8552	43.0
55	137	231	7828	39.2
50	124	228	7097	35.6
45	112	224	6424	32.2
40	99	219	5690	28.6
35	87	215	5004	25.2
30	74	209	4263	21.7
25	62	202	3574	18.3
20	49	194	2819	14.8
15	37	183	2123	11.5
10	25	169	1424	8.2
5	13	145	716	4.7
2	5	110	245	2.5