

Photometric test report

Family
Highbay 11

Order number: 51HN12DA5FMA
EAN: 4069025424631

LP number
59710_390

serial
documentation
09.04.2025

siteco

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

Lamps LED 5000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 14930 lm
Power consumption = 73.2 W
Luminous efficacy = 204 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	19.9	21.2	20.3	21.5	21.8	19.6	20.9	20.0	21.2
	3H	19.9	21.0	20.3	21.4	21.7	19.6	20.8	20.0	21.1
	4H	19.9	20.9	20.3	21.3	21.7	19.7	20.7	20.1	21.0
	6H	19.9	20.8	20.3	21.2	21.6	19.7	20.6	20.1	21.0
	8H	19.9	20.7	20.4	21.1	21.5	19.8	20.6	20.2	21.0
	12H	19.9	20.6	20.4	21.0	21.5	19.8	20.5	20.2	20.9
4H	2H	19.8	20.8	20.2	21.2	21.6	19.5	20.6	19.9	20.9
	3H	19.8	20.7	20.3	21.1	21.5	19.6	20.4	20.0	20.8
	4H	19.8	20.6	20.3	21.0	21.5	19.6	20.4	20.1	20.8
	6H	19.8	20.5	20.3	20.9	21.4	19.7	20.3	20.1	20.8
	8H	19.8	20.4	20.3	20.8	21.3	19.7	20.3	20.2	20.7
	12H	19.8	20.3	20.3	20.7	21.2	19.7	20.2	20.2	20.7
8H	4H	19.8	20.4	20.2	20.8	21.3	19.6	20.1	20.0	20.6
	6H	19.7	20.2	20.2	20.7	21.2	19.6	20.1	20.1	20.6
	8H	19.7	20.1	20.2	20.6	21.1	19.6	20.1	20.1	20.5
	12H	19.7	20.0	20.2	20.5	21.1	19.7	20.0	20.2	20.5
12H	4H	19.8	20.3	20.3	20.7	21.2	19.6	20.0	20.1	20.5
	6H	19.8	20.1	20.3	20.6	21.1	19.6	20.0	20.1	20.5
	8H	19.7	20.0	20.2	20.5	21.1	19.6	20.0	20.2	20.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 426 B = 264	
C-planes	0°	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°	22026.8	21568.2	22419.8	22994.4	20514.2	19260.8	19204.1
50,0°	12272.5	11982.3	11969.7	12183.5	10932.8	10424.1	10245.2
55,0°	7712.6	7506.3	7613.5	7788.3	7065.0	6641.2	6561.3
60,0°	5547.2	5355.0	5626.6	5795.5	5426.2	5025.0	5089.0
65,0°	4680.7	4257.9	4538.4	4734.1	4635.8	4287.1	4529.3
70,0°	4023.1	3670.7	4060.4	3928.4	4309.6	3923.0	4284.4
75,0°	3315.5	3070.9	3062.6	3275.5	3403.2	3642.8	4060.8
80,0°	2238.4	2088.6	2210.2	2387.5	2694.9	3169.6	3613.0
85,0°	894.1	889.5	918.5	1075.4	1590.2	2118.7	2744.8

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Luminance values in cd/m²

γ 65°

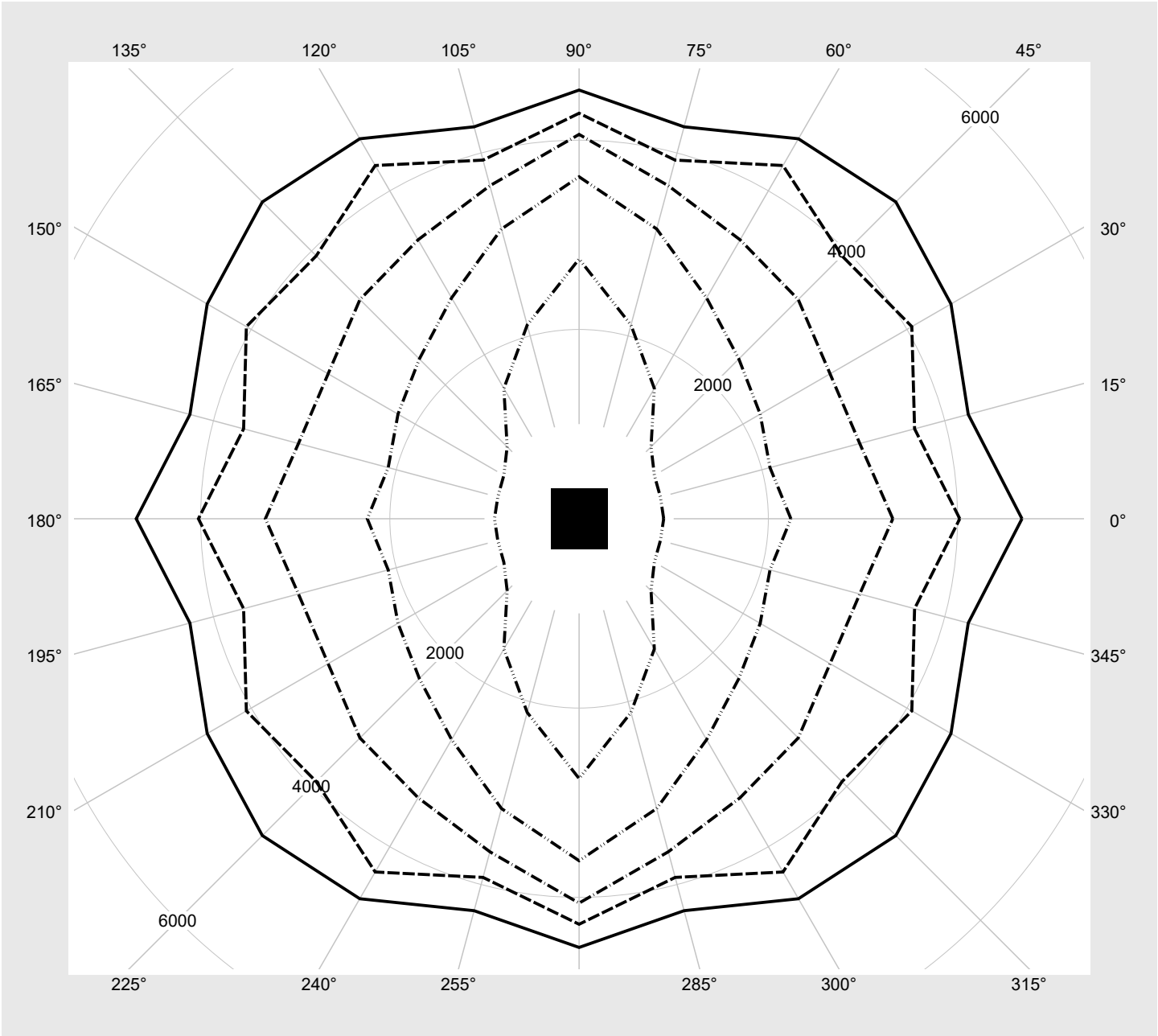
γ 70°

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	14930	73.2
95	241	252	14197	69.4
90	227	250	13409	65.3
85	214	248	12674	61.5
80	201	245	11932	57.8
75	188	243	11191	53.9
70	175	240	10443	50.2
65	162	238	9689	46.4
60	149	234	8934	42.7
55	137	231	8233	39.3
50	124	228	7465	35.6
45	111	224	6699	31.9
40	99	219	5987	28.6
35	86	214	5206	24.9
30	74	209	4484	21.7
25	62	202	3759	18.3
20	49	194	2963	14.8
15	37	183	2227	11.6
10	25	169	1488	8.2
5	13	145	738	4.7
2	5	110	238	2.5