

Photometric test report

Family
Highbay 11

Order number: 51HN12DA3FMA
EAN: 4069025424563

LP number
59710_388

serial
documentation
09.04.2025

siteco

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

Lamps LED 3000 K | CRI ≥ 80

Controlgear ECG-DALI

Rated values Net luminous flux = 14260 lm
Power consumption = 73.2 W
Luminous efficacy = 194.8 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

Photometric test report

Family Highbay 11	Order number: 51HN12DA3FMA EAN: 4069025424563	LP number 59710_388
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

Photometric test report

Family Highbay 11		Order number: 51HN12DA3FMA EAN: 4069025424563							LP number 59710_388	
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	19.8	21.0	20.1	21.3	21.7	19.5	20.7	19.8	21.0
	3H	19.7	20.9	20.1	21.2	21.6	19.5	20.6	19.9	20.9
	4H	19.7	20.8	20.1	21.1	21.5	19.5	20.5	19.9	20.9
	6H	19.7	20.6	20.1	21.0	21.4	19.5	20.5	19.9	20.8
	8H	19.8	20.6	20.2	21.0	21.4	19.6	20.4	20.0	20.8
	12H	19.8	20.5	20.2	20.9	21.3	19.6	20.3	20.0	20.7
4H	2H	19.6	20.7	20.0	21.0	21.4	19.4	20.4	19.8	20.7
	3H	19.7	20.5	20.1	20.9	21.3	19.4	20.3	19.9	20.7
	4H	19.7	20.4	20.1	20.9	21.3	19.5	20.2	19.9	20.6
	6H	19.7	20.3	20.1	20.7	21.2	19.5	20.2	20.0	20.6
	8H	19.6	20.2	20.1	20.7	21.1	19.5	20.1	20.0	20.6
	12H	19.6	20.1	20.1	20.6	21.1	19.6	20.0	20.1	20.5
8H	4H	19.6	20.2	20.1	20.6	21.1	19.4	20.0	19.9	20.4
	6H	19.6	20.1	20.1	20.5	21.0	19.5	19.9	20.0	20.4
	8H	19.5	20.0	20.1	20.5	21.0	19.5	19.9	20.0	20.4
	12H	19.5	19.9	20.1	20.4	20.9	19.5	19.8	20.0	20.3
12H	4H	19.6	20.1	20.1	20.6	21.1	19.4	19.9	19.9	20.4
	6H	19.6	20.0	20.1	20.5	21.0	19.5	19.8	20.0	20.3
	8H	19.6	19.9	20.1	20.4	20.9	19.5	19.8	20.0	20.3

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°	21038.3	20600.3	21413.7	21962.5	19593.6	18396.5	18342.3
50,0°	11721.8	11444.6	11432.6	11636.7	10442.1	9956.3	9785.5
55,0°	7366.5	7169.5	7271.8	7438.7	6747.9	6343.2	6266.9
60,0°	5298.3	5114.7	5374.1	5535.4	5182.7	4799.5	4860.6
65,0°	4470.7	4066.8	4334.8	4521.7	4427.8	4094.7	4326.1
70,0°	3842.6	3506.0	3878.2	3752.1	4116.2	3746.9	4092.1
75,0°	3166.7	2933.0	2925.2	3128.5	3250.5	3479.3	3878.6
80,0°	2138.0	1994.9	2111.0	2280.4	2573.9	3027.4	3450.9
85,0°	854.0	849.6	877.3	1027.1	1518.8	2023.7	2621.6

Photometric test report

Family
Highbay 11

Order number: 51HN12DA3FMA
EAN: 4069025424563

LP number
59710_388

Luminance values in cd/m²

γ 65°

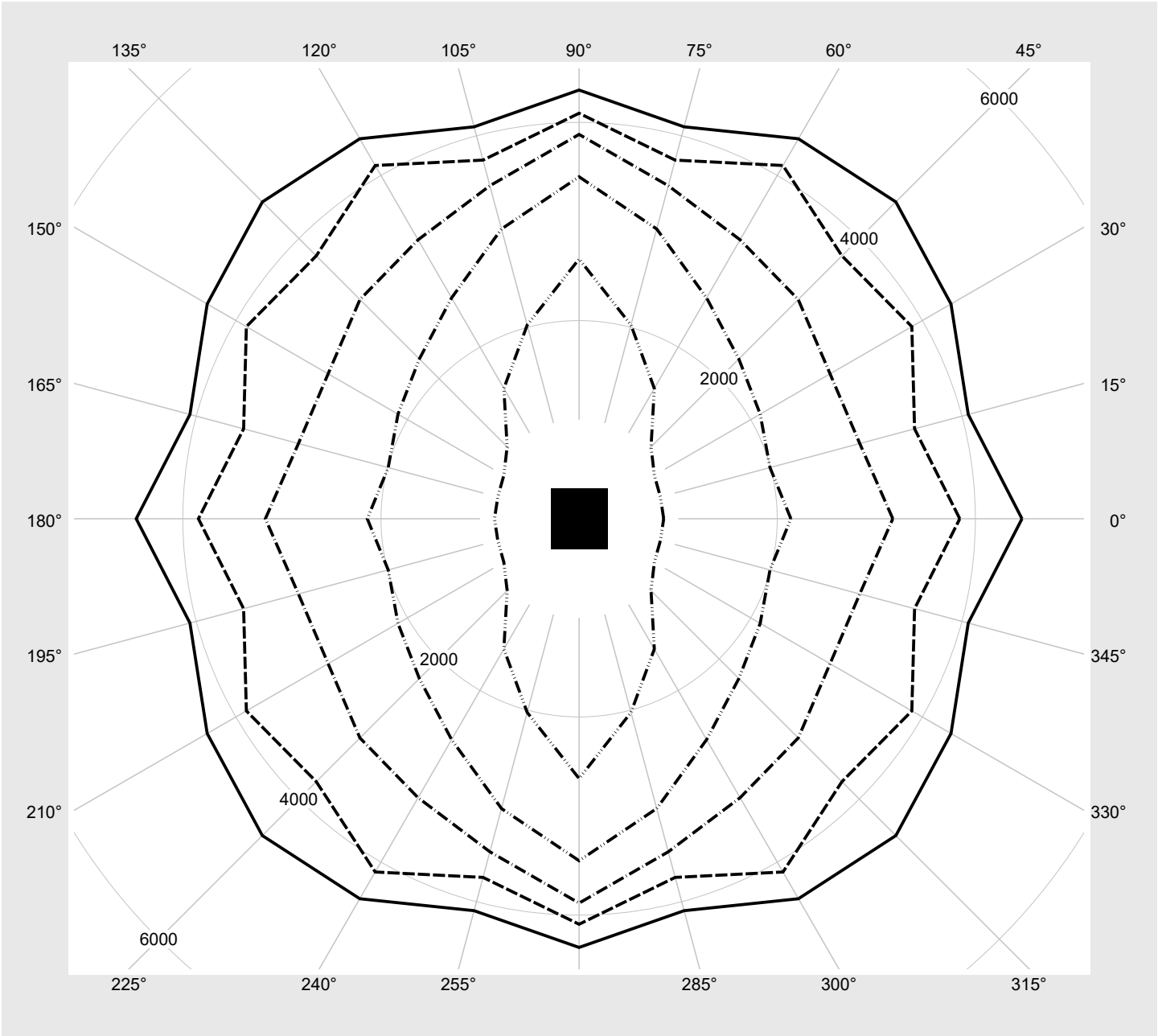
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HN12DA3FMA EAN: 4069025424563	LP number 59710_388
Dimming levels table		environmental temperature: 25°C
		siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14260	73.2
95	241	252	13561	69.3
90	228	250	12861	65.5
85	214	248	12105	61.5
80	201	245	11394	57.7
75	188	243	10686	53.8
70	175	240	9972	50.1
65	162	238	9250	46.4
60	149	234	8529	42.7
55	137	231	7858	39.2
50	124	228	7126	35.6
45	111	224	6394	31.9
40	99	219	5715	28.6
35	86	214	4969	24.9
30	74	209	4282	21.7
25	62	202	3590	18.3
20	49	194	2833	14.8
15	37	183	2134	11.5
10	25	169	1431	8.2
5	13	145	720	4.7
2	5	110	247	2.5