

Photometric test report

Family
Highbay 11

Order number: 51HN12DB3PMA
EAN: 4069025424815

LP number
59710_395

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 = 34200 lm
Power consumption = 177.6 W
Luminous efficacy = 192.6 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	20.4	21.7	20.7	22.0	22.3	20.1	21.4	20.4	21.7	22.0
	3H	20.4	21.5	20.8	21.8	22.2	20.1	21.2	20.5	21.6	21.9
	4H	20.4	21.4	20.8	21.8	22.1	20.1	21.2	20.5	21.5	21.9
	6H	20.3	21.3	20.8	21.7	22.0	20.1	21.1	20.6	21.5	21.9
	8H	20.4	21.2	20.8	21.6	22.0	20.2	21.0	20.7	21.4	21.8
	12H	20.4	21.1	20.8	21.5	21.9	20.2	21.0	20.7	21.4	21.8
4H	2H	20.3	21.3	20.7	21.7	22.0	20.0	21.0	20.4	21.4	21.8
	3H	20.3	21.2	20.7	21.6	22.0	20.1	20.9	20.5	21.3	21.7
	4H	20.3	21.1	20.8	21.5	21.9	20.1	20.9	20.5	21.3	21.7
	6H	20.3	20.9	20.8	21.4	21.8	20.1	20.8	20.6	21.2	21.7
	8H	20.3	20.8	20.7	21.3	21.8	20.2	20.7	20.6	21.2	21.7
	12H	20.3	20.7	20.8	21.2	21.7	20.2	20.7	20.7	21.1	21.6
8H	4H	20.2	20.8	20.7	21.3	21.8	20.0	20.6	20.5	21.1	21.6
	6H	20.2	20.7	20.7	21.2	21.7	20.1	20.6	20.6	21.0	21.6
	8H	20.2	20.6	20.7	21.1	21.6	20.1	20.5	20.6	21.0	21.5
	12H	20.2	20.5	20.7	21.0	21.5	20.1	20.5	20.7	21.0	21.5
12H	4H	20.3	20.7	20.7	21.2	21.7	20.1	20.5	20.5	21.0	21.5
	6H	20.2	20.6	20.7	21.1	21.6	20.1	20.5	20.6	21.0	21.5
	8H	20.2	20.5	20.7	21.0	21.6	20.1	20.4	20.6	20.9	21.5

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 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°	25228.3	24703.0	25678.4	26336.6	23495.8	22060.3	21995.3
50,0°	14056.3	13723.9	13709.5	13954.3	12521.8	11939.2	11734.3
55,0°	8833.6	8597.4	8720.1	8920.2	8091.8	7606.5	7515.0
60,0°	6353.5	6133.3	6444.4	6637.8	6214.8	5755.3	5828.6
65,0°	5361.0	4876.8	5198.1	5422.2	5309.6	4910.2	5187.6
70,0°	4607.9	4204.2	4650.5	4499.4	4936.0	4493.2	4907.1
75,0°	3797.4	3517.2	3507.8	3751.6	3897.9	4172.2	4651.0
80,0°	2563.8	2392.2	2531.4	2734.5	3086.5	3630.3	4138.1
85,0°	1024.1	1018.8	1052.0	1231.7	1821.3	2426.7	3143.7

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Luminance values in cd/m²

γ 65°

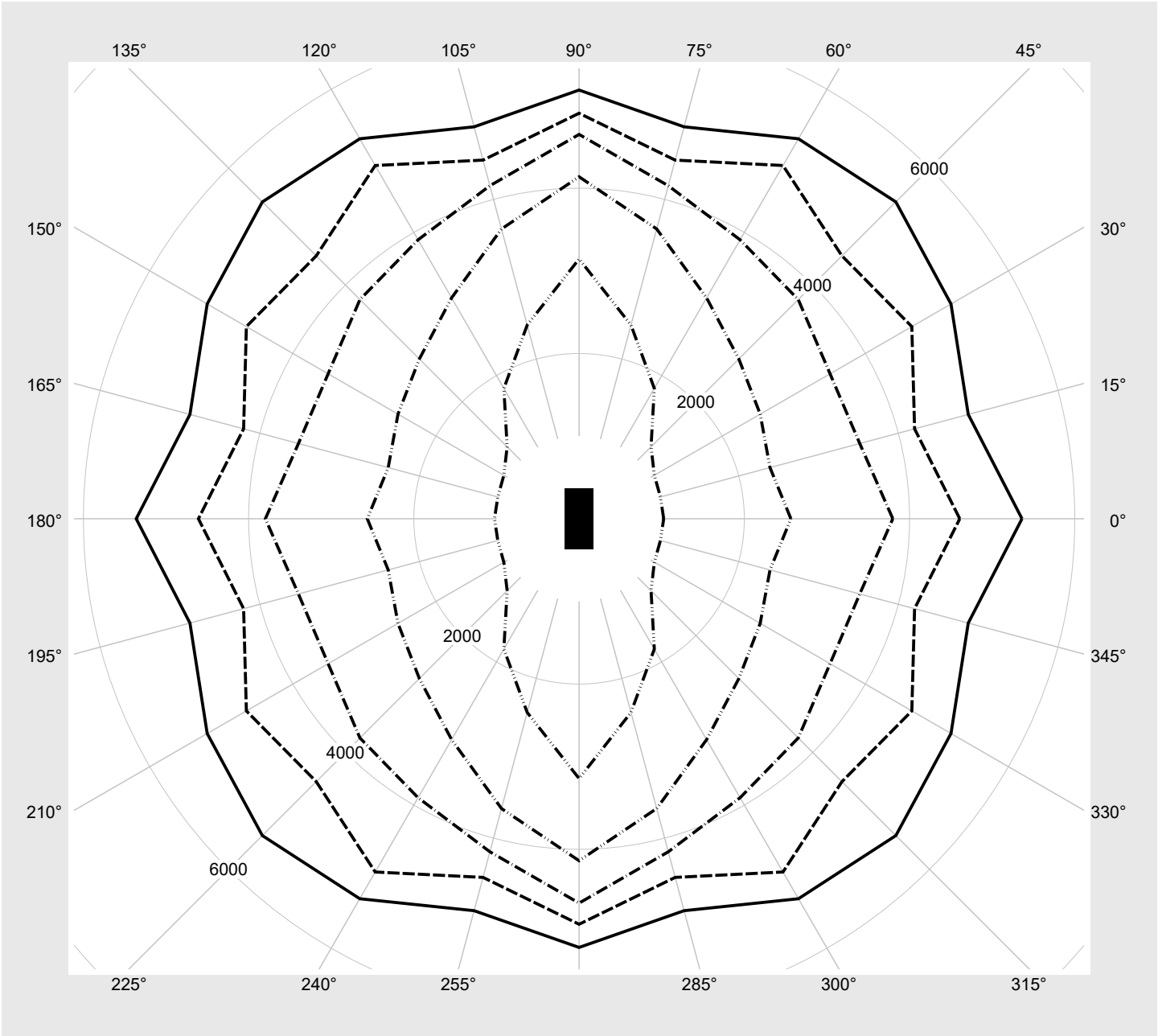
γ 70°

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	34200	177.6
95	241	252	32547	168.2
90	227	250	30753	158.1
85	214	248	29081	148.9
80	201	245	27390	139.5
75	188	243	25694	130.3
70	175	240	23987	121.1
65	162	238	22275	112.1
60	149	234	20548	103.0
55	136	231	18818	94.0
50	123	227	17069	85.0
45	111	224	15441	76.8
40	98	219	13668	67.9
35	86	214	12024	59.8
30	73	208	10230	50.9
25	61	202	8557	42.9
20	49	194	6878	35.0
15	37	183	5188	27.2
10	25	169	3486	19.3
5	13	145	1769	11.1
1	4	102	477	4.8