

Photometric test report

Family
Highbay 11

Order number: 51HN12DB3MMA
EAN: 4069025424785

LP number
59710_394

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 = 28480 lm
Power consumption = 146.3 W
Luminous efficacy = 194.7 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
		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

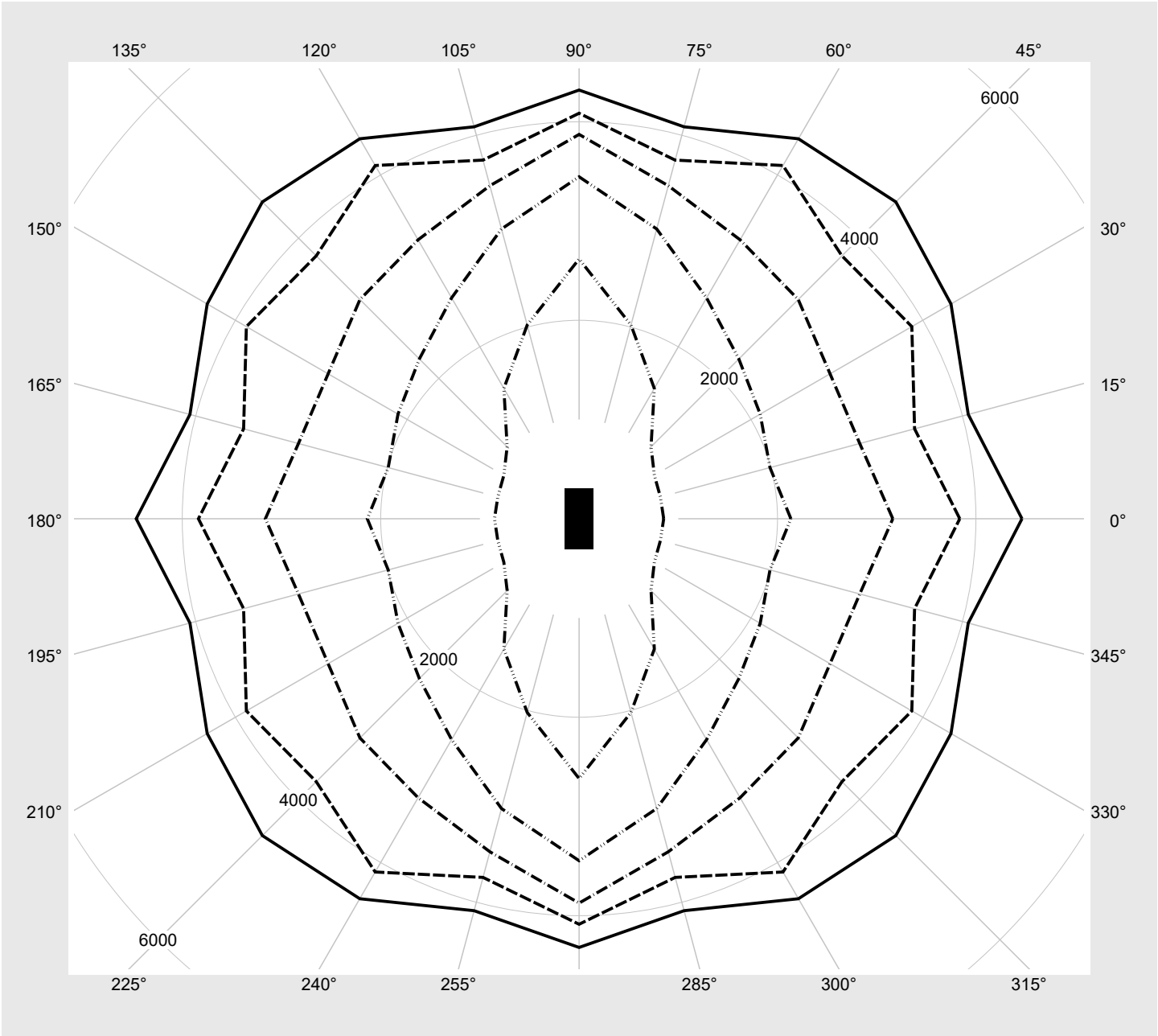
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Family Highbay 11		Order number: 51HN12DB3MMA EAN: 4069025424785							LP number 59710_394	
UGR-Table		Standard room							siteco	
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	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
	3H	19.7	20.9	20.1	21.2	21.6	19.5	20.6	19.8	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	20.4	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	20.8	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	20.3
	6H	19.6	20.0	20.1	20.4	21.0	19.5	19.8	20.0	20.3
	8H	19.5	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 = 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°	21008.8	20571.4	21383.6	21931.7	19566.1	18370.7	18316.6
50,0°	11705.3	11428.6	11416.5	11620.4	10427.5	9942.3	9771.7
55,0°	7356.1	7159.4	7261.6	7428.3	6738.5	6334.3	6258.1
60,0°	5290.9	5107.5	5366.6	5527.6	5175.4	4792.8	4853.8
65,0°	4464.4	4061.1	4328.7	4515.3	4421.6	4089.0	4320.0
70,0°	3837.2	3501.0	3872.7	3746.9	4110.4	3741.7	4086.3
75,0°	3162.3	2928.9	2921.1	3124.1	3245.9	3474.4	3873.1
80,0°	2135.0	1992.1	2108.0	2277.2	2570.3	3023.1	3446.0
85,0°	852.8	848.4	876.0	1025.7	1516.7	2020.8	2617.9

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Luminance values in cd/m²		siteco
		γ 65° γ 70° γ 75° γ 80° γ 85°



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Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	28480	146.3
95	241	252	27090	138.5
90	227	250	25584	130.1
85	214	248	24180	122.4
80	201	245	22765	114.8
75	188	243	21347	107.2
70	175	240	19914	99.6
65	162	238	18482	92.1
60	149	234	17041	84.6
55	137	231	15704	77.8
50	124	228	14249	70.4
45	111	224	12780	62.9
40	99	219	11420	56.1
35	86	214	9936	48.8
30	74	209	8562	42.2
25	62	202	7174	35.5
20	49	194	5668	28.4
15	37	183	4265	21.7
10	25	169	2859	15.3
5	13	145	1442	8.4
2	5	110	495	3.9