

Photometric test report

Family
Highbay 11

Order number: 51HN12DB6TMA
EAN: 4069025425041

LP number
59710_462

serial
documentation
10.04.2025

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 = 53100 lm
Power consumption = 295.1 W
Luminous efficacy = 179.9 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	21.9	23.2	22.3	23.5	23.8	21.6	22.9	22.0	23.2	23.5
	3H	21.9	23.0	22.3	23.4	23.7	21.6	22.8	22.0	23.1	23.5
	4H	21.9	22.9	22.3	23.3	23.7	21.7	22.7	22.1	23.0	23.4
	6H	21.9	22.8	22.3	23.2	23.6	21.7	22.6	22.1	23.0	23.4
	8H	21.9	22.7	22.4	23.1	23.5	21.8	22.6	22.2	23.0	23.4
	12H	21.9	22.6	22.4	23.0	23.5	21.8	22.5	22.2	22.9	23.3
4H	2H	21.8	22.8	22.2	23.2	23.6	21.5	22.6	21.9	22.9	23.3
	3H	21.8	22.7	22.3	23.1	23.5	21.6	22.4	22.0	22.8	23.3
	4H	21.8	22.6	22.3	23.0	23.5	21.6	22.4	22.1	22.8	23.2
	6H	21.8	22.5	22.3	22.9	23.4	21.7	22.3	22.1	22.8	23.2
	8H	21.8	22.4	22.3	22.8	23.3	21.7	22.3	22.2	22.7	23.2
	12H	21.8	22.3	22.3	22.7	23.2	21.7	22.2	22.2	22.7	23.2
8H	4H	21.8	22.4	22.2	22.8	23.3	21.6	22.1	22.0	22.6	23.1
	6H	21.7	22.2	22.2	22.7	23.2	21.6	22.1	22.1	22.6	23.1
	8H	21.7	22.1	22.2	22.6	23.1	21.6	22.1	22.1	22.5	23.1
	12H	21.7	22.0	22.2	22.5	23.1	21.7	22.0	22.2	22.5	23.0
12H	4H	21.8	22.3	22.3	22.7	23.2	21.6	22.0	22.1	22.5	23.0
	6H	21.8	22.1	22.3	22.6	23.1	21.6	22.0	22.1	22.5	23.0
	8H	21.7	22.0	22.2	22.5	23.1	21.6	22.0	22.2	22.5	23.0

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 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°	39170.3	38354.6	39869.0	40891.0	36480.3	34251.5	34150.7
50,0°	21824.2	21308.2	21285.8	21665.9	19441.7	18537.1	18219.1
55,0°	13715.3	13348.5	13539.1	13849.8	12563.6	11810.0	11668.0
60,0°	9864.7	9522.8	10005.8	10306.1	9649.4	8935.9	9049.7
65,0°	8323.7	7571.9	8070.7	8418.7	8243.9	7623.8	8054.5
70,0°	7154.3	6527.6	7220.6	6985.9	7663.7	6976.2	7618.9
75,0°	5896.0	5460.9	5446.3	5824.8	6052.0	6477.9	7221.3
80,0°	3980.6	3714.2	3930.3	4245.7	4792.3	5636.5	6425.0
85,0°	1590.0	1581.9	1633.3	1912.3	2827.8	3767.8	4881.0

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Luminance values in cd/m²

γ 65°

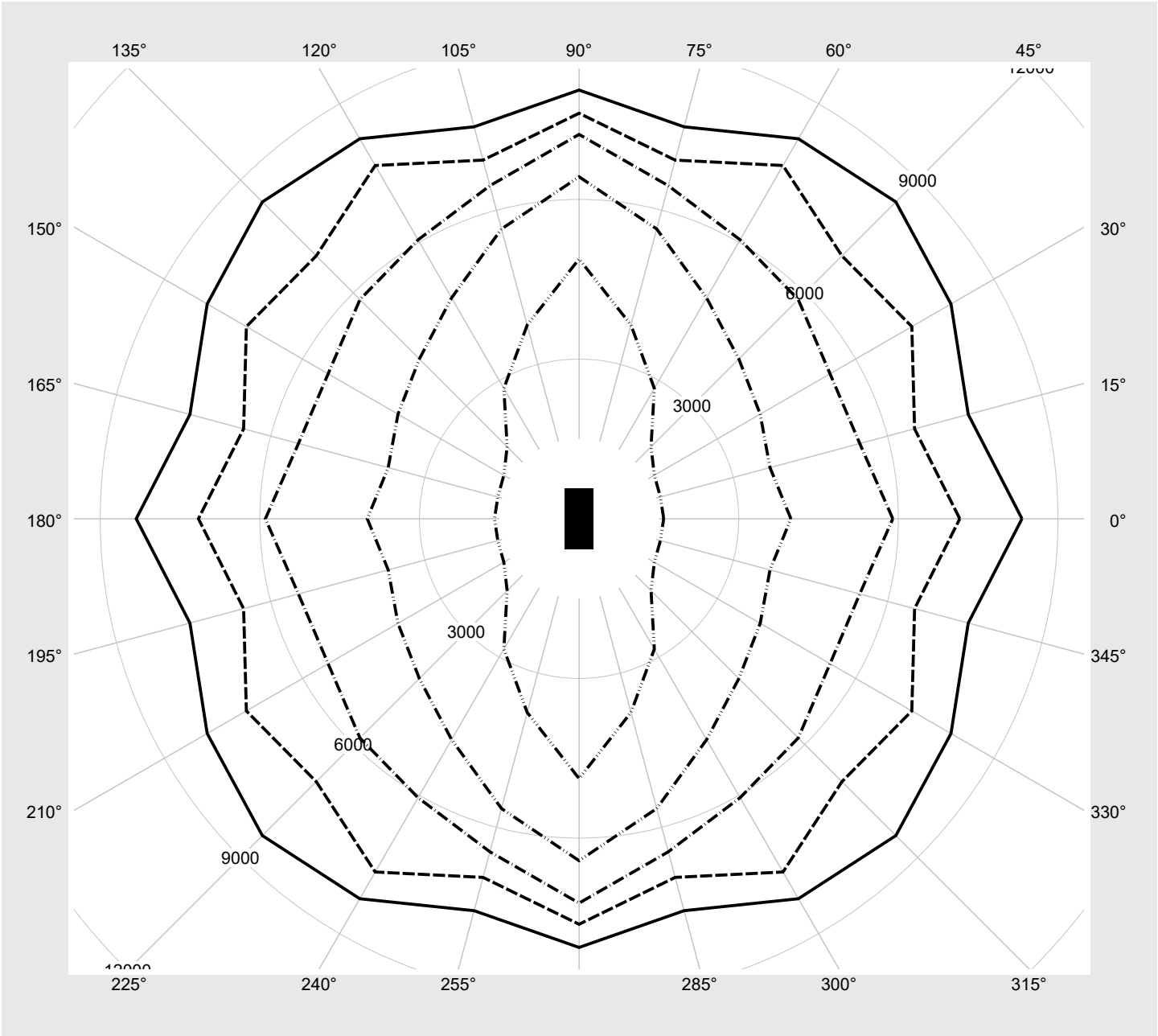
γ 70°

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	53100	295.1
95	240	252	50469	278.0
90	226	250	47746	261.1
85	213	248	45219	245.4
80	199	245	42468	228.3
75	186	243	39879	213.0
70	173	240	37275	197.6
65	159	237	34418	181.0
60	147	234	31946	167.0
55	134	231	29255	152.0
50	121	227	26540	137.0
45	108	223	23813	122.3
40	96	218	21262	108.4
35	84	213	18680	95.0
30	71	207	15866	80.5
25	59	201	13239	67.3
20	47	192	10575	54.1
15	35	181	7891	41.2
10	24	168	5405	29.2
5	12	142	2664	15.7
2	5	110	1056	7.9