

Photometric test report

Family
Highbay 11

Order number: 51HN12MB4PDA
EAN: 4069025691859

LP number
59710_536

serial
documentation
12.02.2026

siteco



Version primary light control with lens, PMMA, housing, white, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 34300 lm
Power consumption = 170.1 W
Luminous efficacy = 201.6 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

Photometric test report

Family Highbay 11	Order number: 51HN12MB4PDA EAN: 4069025691859	LP number 59710_536
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: 51HN12MB4PDA EAN: 4069025691859							LP number 59710_536	
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	20.5	21.7	22.0
	3H	20.4	21.5	20.8	21.9	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	20.4	21.3	20.8	21.7	22.1	20.2	21.1	20.6	21.5	21.9
	8H	20.4	21.2	20.9	21.6	22.0	20.3	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	20.6	21.3	21.7
	6H	20.3	20.9	20.8	21.4	21.8	20.2	20.8	20.6	21.2	21.7
	8H	20.3	20.9	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	21.1	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	21.6	20.2	20.5	20.7	21.0	21.5
12H	4H	20.3	20.7	20.8	21.2	21.7	20.1	20.5	20.6	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°	25302.1	24775.2	25753.4	26413.6	23564.5	22124.8	22059.7
50,0°	14097.4	13764.0	13749.6	13995.1	12558.4	11974.1	11768.6
55,0°	8859.4	8622.5	8745.6	8946.3	8115.5	7628.7	7537.0
60,0°	6372.1	6151.3	6463.3	6657.2	6233.0	5772.2	5845.7
65,0°	5376.7	4891.0	5213.3	5438.1	5325.1	4924.6	5202.8
70,0°	4621.3	4216.5	4664.1	4512.6	4950.4	4506.3	4921.4
75,0°	3808.5	3527.5	3518.0	3762.6	3909.3	4184.4	4664.6
80,0°	2571.3	2399.2	2538.8	2742.5	3095.6	3640.9	4150.2
85,0°	1027.1	1021.8	1055.0	1235.3	1826.6	2433.8	3152.9

Photometric test report

Family
Highbay 11

Order number: 51HN12MB4PDA
EAN: 4069025691859

LP number
59710_536

Luminance values in cd/m²

γ 65°

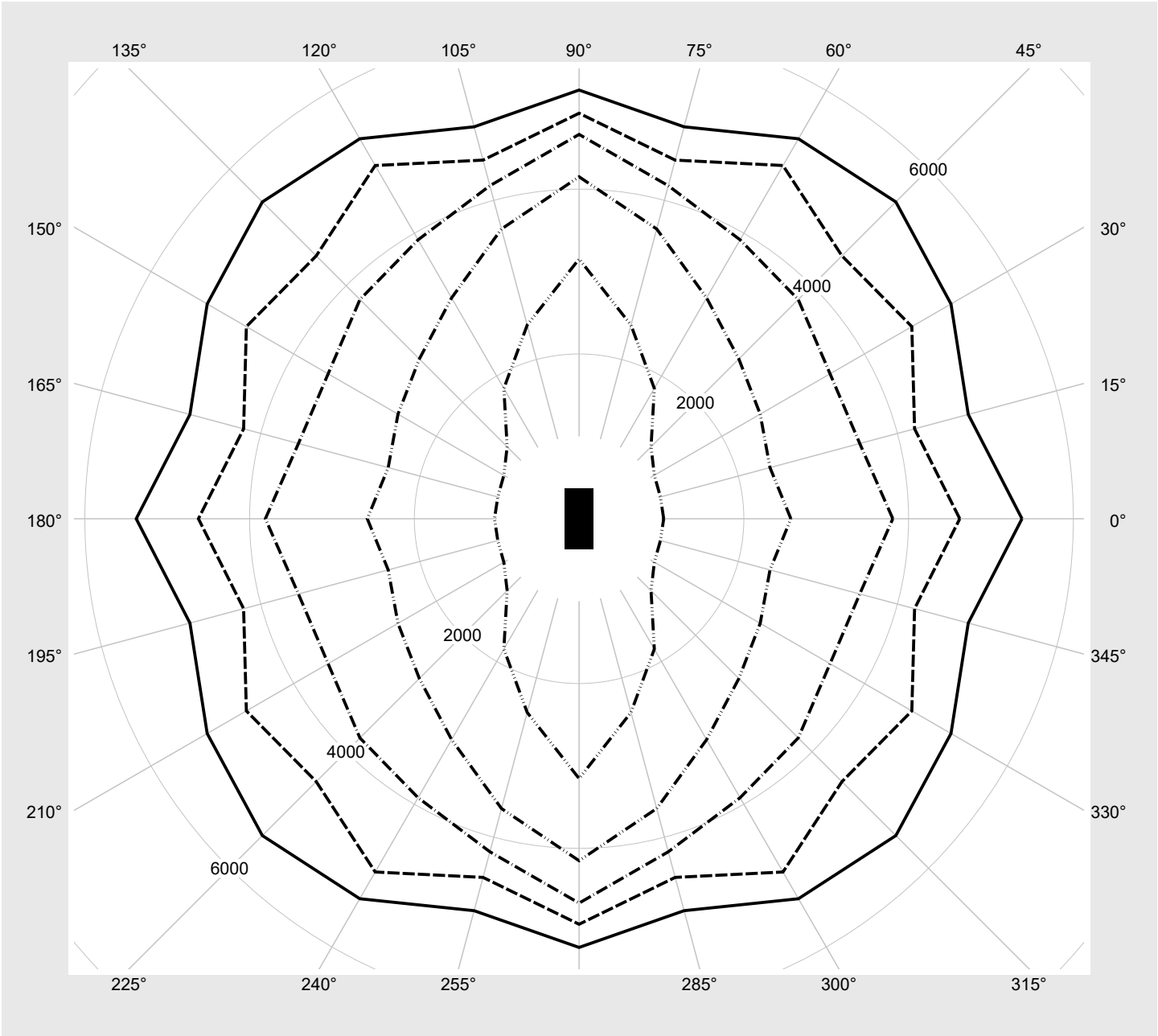
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HN12MB4PDA EAN: 4069025691859	LP number 59710_536
Multilumen Table	environmental temperature: 25°C	siteco

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	34300	170.1
2	A	C	F	31810	156.6
3	A	D	E	29110	142.2
4	A	D	F	26230	127.1
5	B	C	E	23660	113.7
6	B	C	F	21080	100.7
7	B	D	E	18630	88.6
8	B	D	F	15990	75.7