

Photometric test report

Family
Highbay 11

Order number: 51HN12DB6VDA
EAN: 4069025553416

LP number
59710_521

serial
documentation
16.09.2025

siteco



Version primary light control with lens, PMMA, housing, white, wide distribution
Lamps LED 6500 K | CRI ≥ 80
Controlgear ECG-DALI
Setting AC-mode
Rated values Net luminous flux = 59710 lm
Power consumption = 330.1 W
Luminous efficacy = 180.9 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

Photometric test report

Family Highbay 11	Order number: 51HN12DB6VDA EAN: 4069025553416	LP number 59710_521
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: 51HN12DB6VDA EAN: 4069025553416	LP number 59710_521
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	22.3	23.6	22.7	23.9	24.2	22.0	23.3	22.4	23.6	23.9
	3H	22.3	23.4	22.7	23.8	24.1	22.0	23.2	22.4	23.5	23.9
	4H	22.3	23.3	22.7	23.7	24.1	22.1	23.1	22.5	23.5	23.8
	6H	22.3	23.2	22.7	23.6	24.0	22.1	23.0	22.5	23.4	23.8
	8H	22.4	23.1	22.8	23.5	23.9	22.2	23.0	22.6	23.4	23.8
	12H	22.3	23.1	22.8	23.4	23.9	22.2	22.9	22.6	23.3	23.7
4H	2H	22.2	23.2	22.6	23.6	24.0	21.9	23.0	22.3	23.3	23.7
	3H	22.2	23.1	22.7	23.5	23.9	22.0	22.9	22.4	23.2	23.7
	4H	22.2	23.0	22.7	23.4	23.9	22.0	22.8	22.5	23.2	23.7
	6H	22.2	22.9	22.7	23.3	23.8	22.1	22.7	22.5	23.2	23.6
	8H	22.2	22.8	22.7	23.2	23.7	22.1	22.7	22.6	23.1	23.6
	12H	22.2	22.7	22.7	23.1	23.6	22.1	22.6	22.6	23.1	23.6
8H	4H	22.2	22.8	22.7	23.2	23.7	22.0	22.6	22.5	23.0	23.5
	6H	22.2	22.6	22.7	23.1	23.6	22.0	22.5	22.5	23.0	23.5
	8H	22.1	22.5	22.6	23.0	23.6	22.0	22.5	22.5	22.9	23.5
	12H	22.1	22.4	22.6	22.9	23.5	22.1	22.4	22.6	22.9	23.4
12H	4H	22.2	22.7	22.7	23.1	23.6	22.0	22.5	22.5	22.9	23.4
	6H	22.2	22.5	22.7	23.0	23.6	22.0	22.4	22.5	22.9	23.4
	8H	22.1	22.4	22.6	22.9	23.5	22.0	22.4	22.6	22.9	23.4

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°	44046.3	43129.1	44832.0	45981.2	41021.5	38515.2	38401.8
50,0°	24540.9	23960.7	23935.5	24362.9	21861.9	20844.7	20487.0
55,0°	15422.6	15010.2	15224.5	15573.9	14127.6	13280.2	13120.5
60,0°	11092.6	10708.2	11251.4	11589.0	10850.5	10048.3	10176.2
65,0°	9359.9	8514.4	9075.3	9466.7	9270.1	8572.8	9057.1
70,0°	8044.9	7340.2	8119.4	7855.5	8617.7	7844.7	8567.3
75,0°	6629.9	6140.7	6124.3	6549.9	6805.3	7284.3	8120.2
80,0°	4476.1	4176.5	4419.6	4774.3	5388.8	6338.2	7224.8
85,0°	1787.9	1778.8	1836.6	2150.4	3179.9	4236.8	5488.6

Photometric test report

Family
Highbay 11

Order number: 51HN12DB6VDA
EAN: 4069025553416

LP number
59710_521

Luminance values in cd/m²

γ 65°

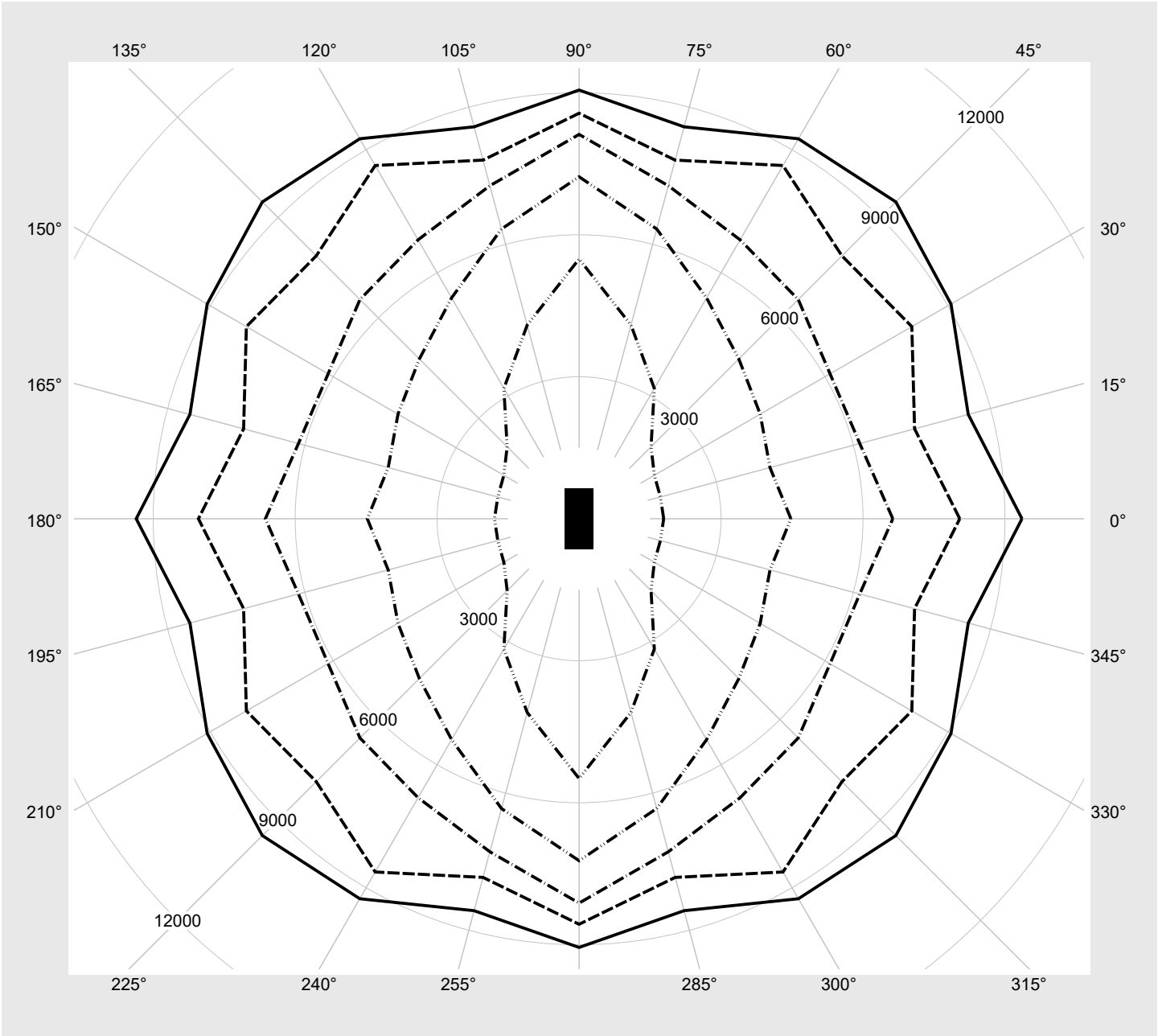
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HN12DB6VDA EAN: 4069025553416	LP number 59710_521
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	59710	330.1
95	240	252	56734	310.9
90	226	250	53672	292.1
85	213	248	50819	274.5
80	199	245	47714	255.7
75	186	243	44798	238.6
70	173	240	41858	221.4
65	160	237	38878	204.4
60	147	234	35899	187.5
55	134	231	32873	170.7
50	121	227	29845	154.2
45	108	223	26757	137.6
40	96	218	23891	122.5
35	84	213	20994	107.4
30	71	207	17830	91.3
25	59	201	14870	76.7
20	47	192	11887	62.1
15	35	181	8876	47.7
10	24	168	6078	34.4
5	12	142	3008	19.5
2	5	110	1207	10.6