

Photometric test report

Family
Highbay 11

Order number: 51HN12DBDSDA
EAN: 4069025444981

LP number
59710_479

serial
documentation
26.05.2025

siteco



Version primary light control with lens, PMMA, housing, white, wide distribution

Lamps LED 4000 K | CRI ≥ 90

Controlgear ECG-DALI

Setting AC-mode

Rated values Net luminous flux = 47700 lm
Power consumption = 293.9 W
Luminous efficacy = 162.3 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: 51HN12DBDSDA EAN: 4069025444981	LP number 59710_479
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: 51HN12DBDSDA EAN: 4069025444981							LP number 59710_479	
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	21.5	22.8	21.9	23.1	23.5	21.2	22.5	21.6	22.8	23.2
	3H	21.5	22.7	21.9	23.0	23.4	21.3	22.4	21.6	22.7	23.1
	4H	21.5	22.6	21.9	22.9	23.3	21.3	22.3	21.7	22.7	23.1
	6H	21.5	22.4	21.9	22.8	23.2	21.3	22.2	21.7	22.6	23.0
	8H	21.6	22.4	22.0	22.8	23.2	21.4	22.2	21.8	22.6	23.0
	12H	21.5	22.3	22.0	22.7	23.1	21.4	22.1	21.8	22.5	22.9
4H	2H	21.4	22.5	21.8	22.8	23.2	21.1	22.2	21.5	22.5	22.9
	3H	21.5	22.3	21.9	22.7	23.1	21.2	22.1	21.6	22.5	22.9
	4H	21.5	22.2	21.9	22.6	23.1	21.3	22.0	21.7	22.4	22.9
	6H	21.4	22.1	21.9	22.5	23.0	21.3	22.0	21.8	22.4	22.9
	8H	21.4	22.0	21.9	22.4	22.9	21.3	21.9	21.8	22.3	22.8
	12H	21.4	21.9	21.9	22.4	22.9	21.4	21.8	21.9	22.3	22.8
8H	4H	21.4	22.0	21.9	22.4	22.9	21.2	21.8	21.7	22.2	22.7
	6H	21.4	21.8	21.9	22.3	22.8	21.3	21.7	21.7	22.2	22.7
	8H	21.3	21.8	21.8	22.2	22.8	21.3	21.7	21.8	22.2	22.7
	12H	21.3	21.6	21.9	22.2	22.7	21.3	21.6	21.8	22.1	22.7
12H	4H	21.4	21.9	21.9	22.3	22.8	21.2	21.7	21.7	22.1	22.6
	6H	21.4	21.7	21.9	22.2	22.8	21.3	21.6	21.8	22.1	22.6
	8H	21.3	21.7	21.9	22.2	22.7	21.3	21.6	21.8	22.1	22.6

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°	35186.9	34454.2	35814.6	36732.6	32770.5	30768.3	30677.7
50,0°	19604.8	19141.2	19121.1	19462.6	17464.6	16652.0	16366.3
55,0°	12320.5	11991.1	12162.2	12441.4	11286.0	10609.0	10481.4
60,0°	8861.5	8554.4	8988.3	9258.0	8668.1	8027.2	8129.4
65,0°	7477.3	6801.8	7249.9	7562.6	7405.5	6848.5	7235.4
70,0°	6426.8	5863.8	6486.3	6275.5	6884.4	6266.8	6844.1
75,0°	5296.4	4905.6	4892.4	5232.5	5436.5	5819.1	6486.9
80,0°	3575.8	3336.5	3530.6	3814.0	4304.9	5063.3	5771.6
85,0°	1428.3	1421.0	1467.2	1717.8	2540.3	3384.6	4384.6

Photometric test report

Family
Highbay 11

Order number: 51HN12DBDSDA
EAN: 4069025444981

LP number
59710_479

Luminance values in cd/m²

γ 65°

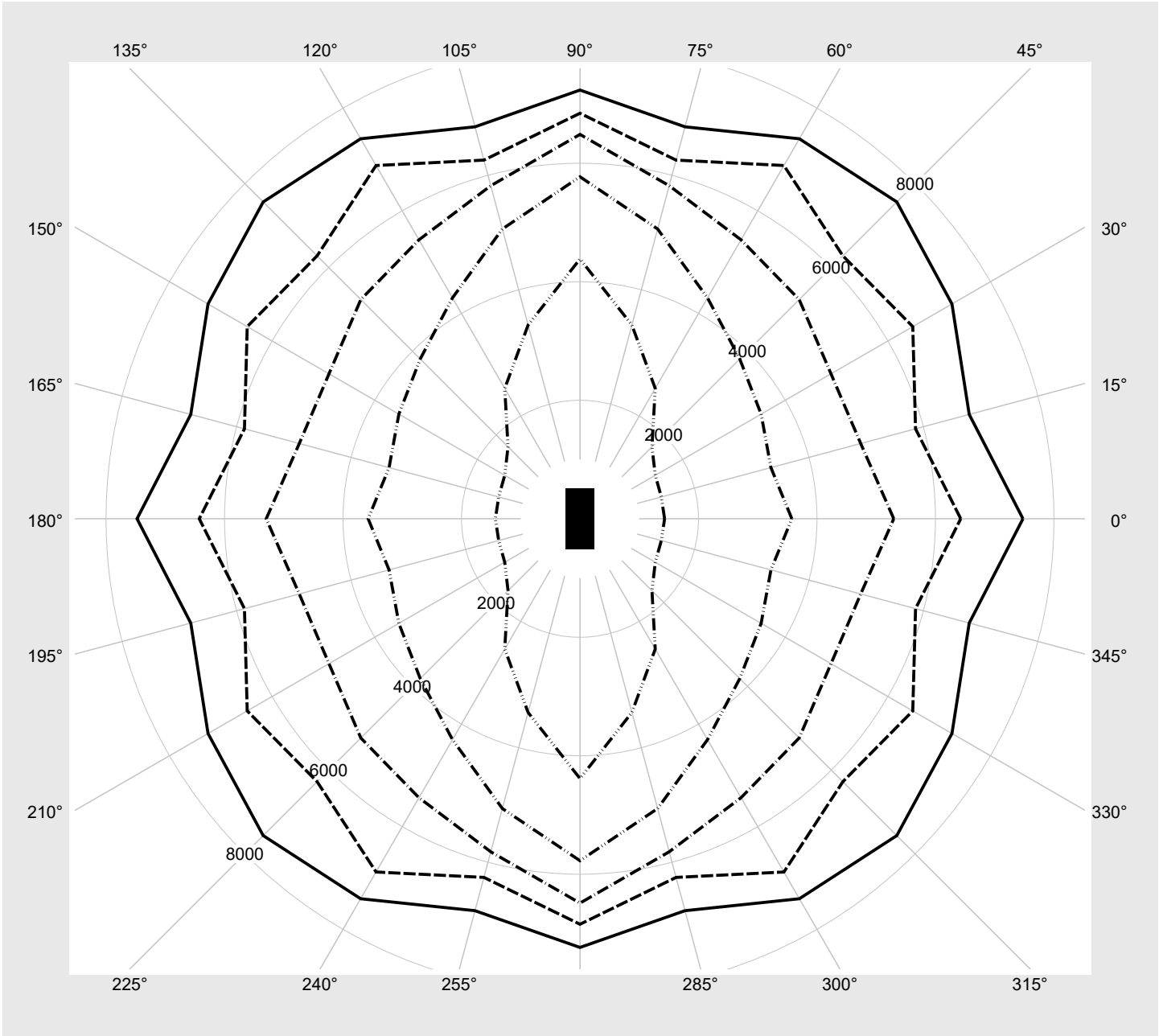
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HN12DBDSDA EAN: 4069025444981	LP number 59710_479
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	47700	293.9
95	240	252	45381	276.4
90	225	250	42885	257.8
85	211	247	40523	240.4
80	197	245	38117	223.4
75	184	242	35866	207.8
70	170	239	33354	191.1
65	157	236	31010	175.7
60	144	233	28643	160.6
55	131	230	26242	145.6
50	118	226	23796	130.7
45	106	222	21532	117.1
40	93	217	19032	102.4
35	81	212	16695	89.0
30	69	206	14326	76.0
25	57	199	11912	63.1
20	45	191	9469	50.3
15	34	180	7194	38.7
10	22	164	4683	25.9
5	11	139	2344	14.0
2	5	110	1058	7.6