

Photometric test report

Family
Highbay 11

Order number: 51HN11MB4PDA
EAN: 4069025691811

LP number
59711_488

serial
documentation
12.02.2026

siteco



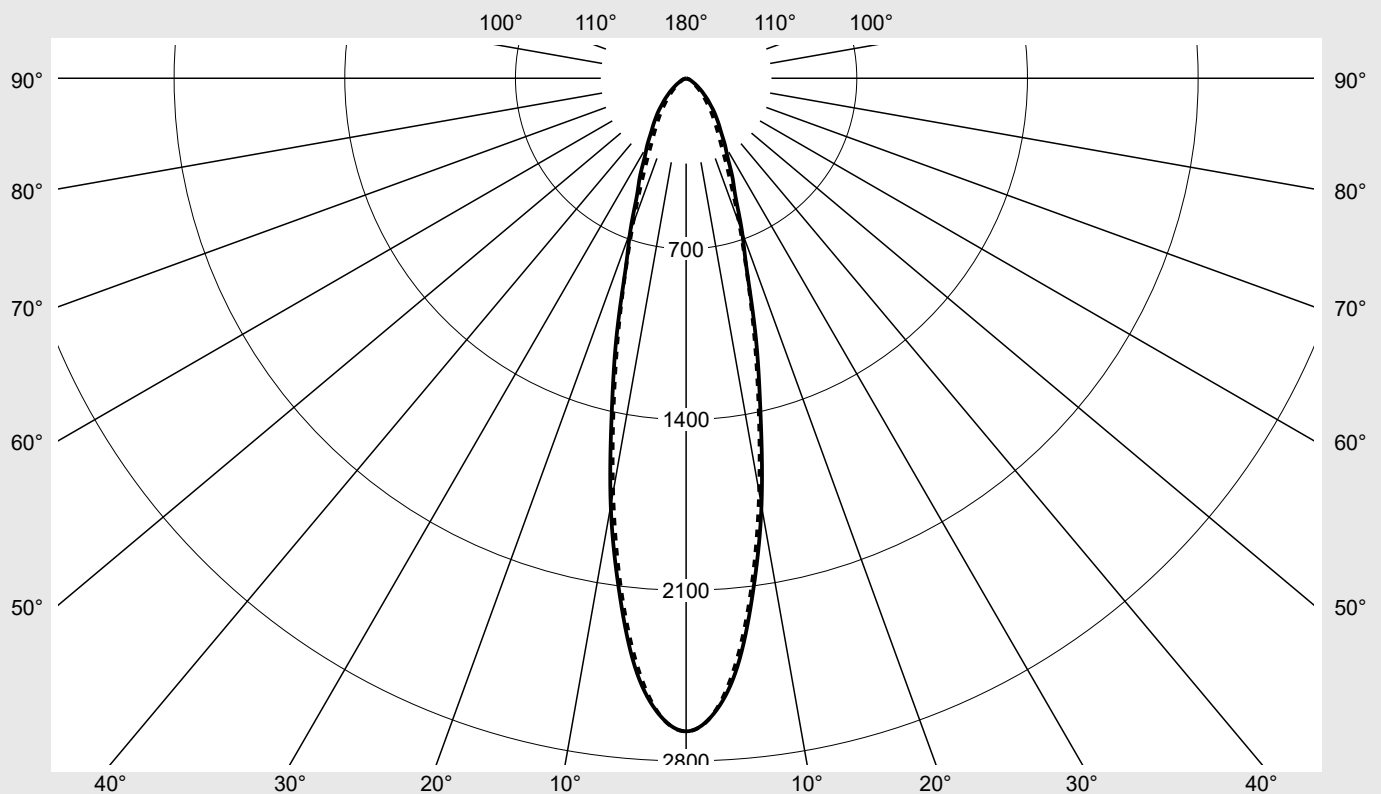
Version primary light control with lens, PMMA, housing, white, narrow distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 34300 lm
Power consumption = 170.1 W
Luminous efficacy = 201.6 lm/W

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 2679 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=85 N2=97 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°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	4.0	4.0
2,5°	2608.0	2619.4	2619.4	2616.5	2617.6	2616.2	2606.1	31.3	35.3
5,0°	2420.1	2415.7	2414.1	2408.4	2406.6	2402.3	2391.7	57.6	92.8
7,5°	2113.4	2116.1	2112.3	2103.0	2097.6	2090.5	2079.6	75.2	168.1
10,0°	1780.1	1768.7	1762.7	1751.6	1743.6	1735.2	1724.7	83.4	251.5
12,5°	1410.1	1409.3	1404.7	1395.9	1388.1	1380.5	1373.1	82.8	334.3
15,0°	1106.5	1097.8	1095.0	1089.4	1083.1	1078.4	1073.9	77.3	411.5
17,5°	830.1	840.2	835.5	831.1	826.6	824.9	824.1	68.5	480.0
20,0°	671.1	661.9	651.8	643.2	639.9	639.4	641.0	60.8	540.8
22,5°	531.9	530.5	514.2	498.9	497.0	496.6	496.8	53.4	594.2
25,0°	450.6	441.3	420.6	401.3	399.0	395.8	392.4	47.9	642.1
27,5°	370.8	368.7	351.4	331.7	326.8	321.1	316.0	43.1	685.2
30,0°	320.4	312.1	300.8	284.1	278.0	270.2	264.7	39.7	724.9
32,5°	271.0	266.8	259.0	245.6	238.0	229.0	224.7	36.5	761.4
35,0°	235.8	228.9	222.7	210.5	201.6	193.0	191.7	33.3	794.7
37,5°	204.4	197.8	191.5	181.1	172.0	164.3	162.4	30.3	825.0
40,0°	176.7	170.7	163.1	154.3	146.1	138.3	135.6	27.3	852.2
42,5°	147.6	145.5	138.6	130.6	123.2	115.8	113.3	24.2	876.4
45,0°	126.0	121.8	116.3	109.0	102.0	95.3	93.2	21.1	897.6
47,5°	103.2	101.5	97.1	90.9	84.6	78.4	76.7	18.3	915.9
50,0°	85.9	82.9	79.4	74.6	69.1	63.7	61.9	15.5	931.4
52,5°	69.0	67.2	64.5	61.0	56.2	51.6	49.7	13.0	944.4
55,0°	55.6	54.1	52.2	49.5	45.7	41.7	40.0	10.9	955.3
57,5°	43.6	43.1	41.8	39.8	37.0	33.6	32.2	9.0	964.3
60,0°	33.2	33.3	33.9	32.4	30.5	27.5	26.1	7.4	971.7
62,5°	25.9	26.0	27.0	26.2	25.1	22.4	21.3	6.1	977.8
65,0°	21.6	21.2	21.7	21.3	20.9	18.8	17.7	5.1	982.9
67,5°	17.0	17.1	17.8	17.0	17.3	15.6	14.8	4.3	987.2
70,0°	13.5	13.4	14.4	13.6	14.1	13.0	12.4	3.5	990.7
72,5°	11.0	10.8	10.9	10.9	11.0	10.7	10.6	2.8	993.5
75,0°	9.0	8.4	8.4	8.3	8.6	9.0	8.9	2.3	995.8
77,5°	6.6	6.4	6.2	6.2	6.6	7.3	7.4	1.8	997.5
80,0°	4.4	4.2	4.1	4.2	4.7	5.7	5.8	1.3	998.8
82,5°	2.0	2.1	2.2	2.4	3.0	3.9	4.1	0.8	999.6
85,0°	0.8	0.8	0.8	1.0	1.5	2.2	2.4	0.4	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

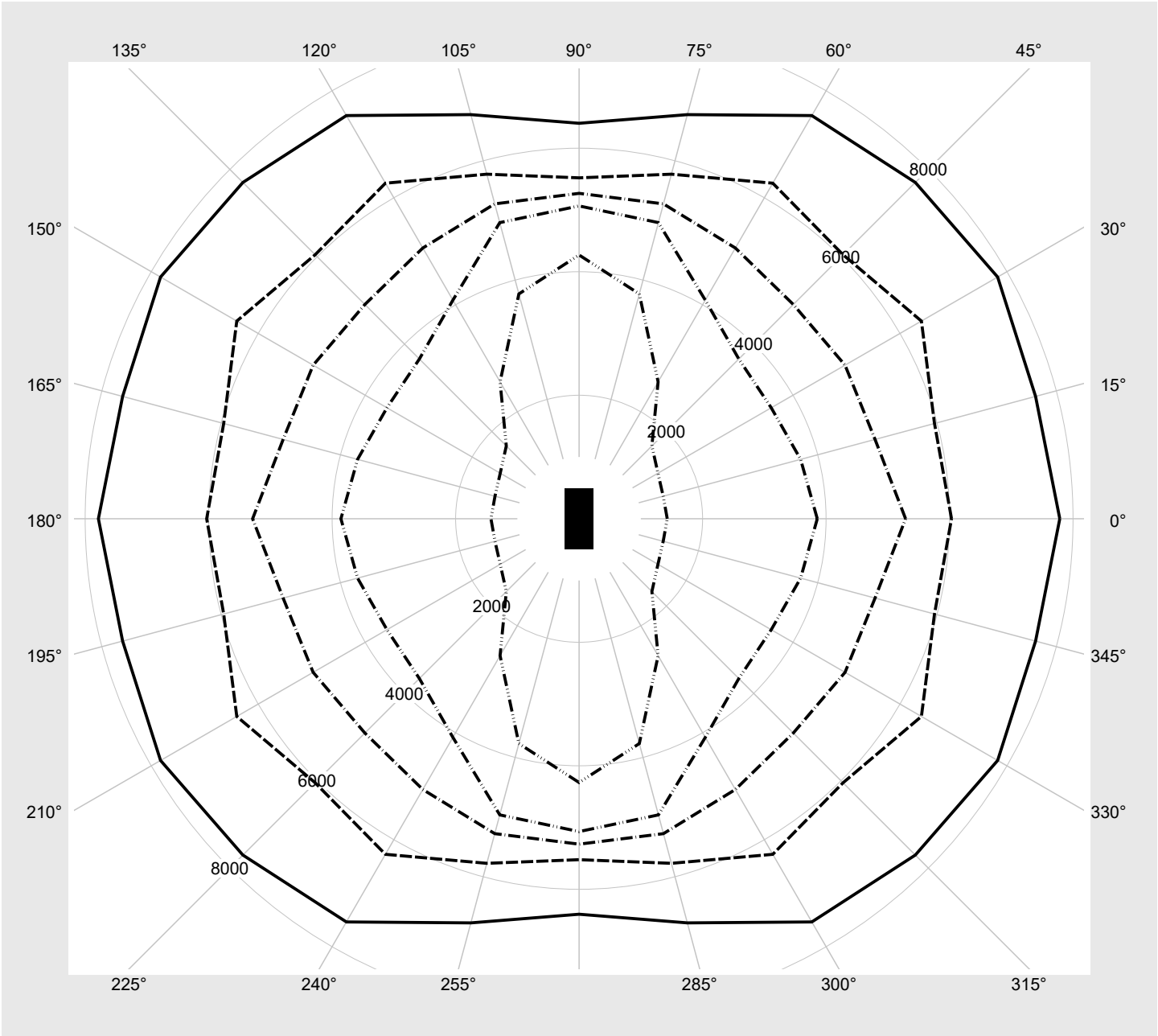
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Family Highbay 11			Order number: 51HN11MB4PDA EAN: 4069025691811							LP number 59711_488	
UGR-Table			Standard room							siteco	
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	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	19.4	20.5	19.7	20.8	21.2	18.2	19.3	18.5	19.7	20.0
	3H	19.6	20.6	20.0	21.0	21.3	18.5	19.5	18.8	19.8	20.2
	4H	19.7	20.6	20.1	21.0	21.3	18.6	19.5	19.0	19.9	20.3
	6H	19.7	20.6	20.1	20.9	21.3	18.7	19.6	19.2	20.0	20.3
	8H	19.8	20.5	20.2	20.9	21.3	18.9	19.6	19.3	20.0	20.4
	12H	19.7	20.4	20.2	20.8	21.2	18.9	19.5	19.3	19.9	20.3
4H	2H	19.4	20.4	19.8	20.7	21.1	18.4	19.3	18.8	19.7	20.0
	3H	19.7	20.5	20.2	20.9	21.3	18.8	19.5	19.2	19.9	20.4
	4H	19.9	20.5	20.3	21.0	21.4	19.0	19.6	19.4	20.1	20.5
	6H	19.9	20.5	20.4	20.9	21.4	19.2	19.7	19.6	20.2	20.6
	8H	19.9	20.4	20.4	20.9	21.4	19.2	19.8	19.7	20.2	20.7
	12H	19.9	20.3	20.4	20.8	21.3	19.3	19.7	19.8	20.2	20.7
8H	4H	19.8	20.4	20.3	20.8	21.3	19.0	19.5	19.5	19.9	20.4
	6H	19.9	20.3	20.4	20.8	21.3	19.2	19.6	19.7	20.1	20.6
	8H	19.9	20.3	20.4	20.8	21.3	19.3	19.7	19.8	20.2	20.7
	12H	19.9	20.2	20.4	20.7	21.2	19.4	19.7	19.9	20.2	20.7
12H	4H	19.8	20.3	20.3	20.7	21.2	19.0	19.4	19.5	19.9	20.4
	6H	19.9	20.2	20.4	20.7	21.3	19.2	19.5	19.7	20.0	20.6
	8H	19.9	20.2	20.4	20.7	21.2	19.3	19.6	19.8	20.1	20.7

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°	27170.3	26263.3	25080.2	23511.5	21997.5	20558.5	20098.2
50,0°	20368.7	19659.6	18826.9	17709.1	16381.2	15102.1	14674.6
55,0°	14779.6	14379.5	13881.3	13160.3	12146.5	11087.1	10641.5
60,0°	10140.5	10151.5	10340.3	9879.1	9291.7	8383.2	7964.7
65,0°	7785.6	7654.3	7827.8	7701.2	7538.5	6774.6	6403.6
70,0°	6032.0	5959.4	6402.1	6045.9	6274.1	5776.1	5520.2
75,0°	5288.0	4962.7	4973.9	4906.8	5062.3	5278.5	5269.1
80,0°	3857.8	3714.7	3593.5	3658.5	4087.9	4964.3	5065.3
85,0°	1427.7	1410.2	1475.0	1667.4	2559.8	3768.8	4270.9

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



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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