



Photometric test report

Family Highbay 11	Order number: 51HN11MA4GDA EAN: 4069025691798	LP number 59711_487
	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 = 17230 lm Power consumption = 85.2 W Luminous efficacy = 202.2 lm/W
		serial documentation 12.02.2026
		

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

Photometric test report

Family Highbay 11	Order number: 51HN11MA4GDA EAN: 4069025691798	LP number 59711_487
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
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

Photometric test report

Family Highbay 11	Order number: 51HN11MA4GDA EAN: 4069025691798	LP number 59711_487
----------------------	--	------------------------

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	20.6	19.7	20.9	21.2	18.2	19.4	18.5	19.7	20.0
	3H	19.6	20.6	20.0	21.0	21.3	18.5	19.5	18.9	19.8	20.2
	4H	19.7	20.6	20.1	21.0	21.4	18.6	19.6	19.0	19.9	20.3
	6H	19.7	20.6	20.2	20.9	21.3	18.8	19.6	19.2	20.0	20.4
	8H	19.8	20.5	20.2	20.9	21.3	18.9	19.6	19.3	20.0	20.4
	12H	19.8	20.4	20.2	20.8	21.2	18.9	19.6	19.3	19.9	20.4
4H	2H	19.4	20.4	19.8	20.7	21.1	18.4	19.3	18.8	19.7	20.1
	3H	19.8	20.5	20.2	20.9	21.3	18.8	19.6	19.2	20.0	20.4
	4H	19.9	20.6	20.3	21.0	21.4	19.0	19.7	19.4	20.1	20.5
	6H	19.9	20.5	20.4	21.0	21.4	19.2	19.8	19.6	20.2	20.7
	8H	19.9	20.4	20.4	20.9	21.4	19.3	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	19.9	20.4	20.3	20.8	21.3	19.0	19.5	19.5	20.0	20.4
	6H	19.9	20.4	20.4	20.8	21.3	19.2	19.7	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	20.8
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	20.3	20.4	20.8	21.3	19.2	19.6	19.7	20.1	20.6
	8H	19.9	20.2	20.4	20.7	21.3	19.3	19.6	19.8	20.1	20.7

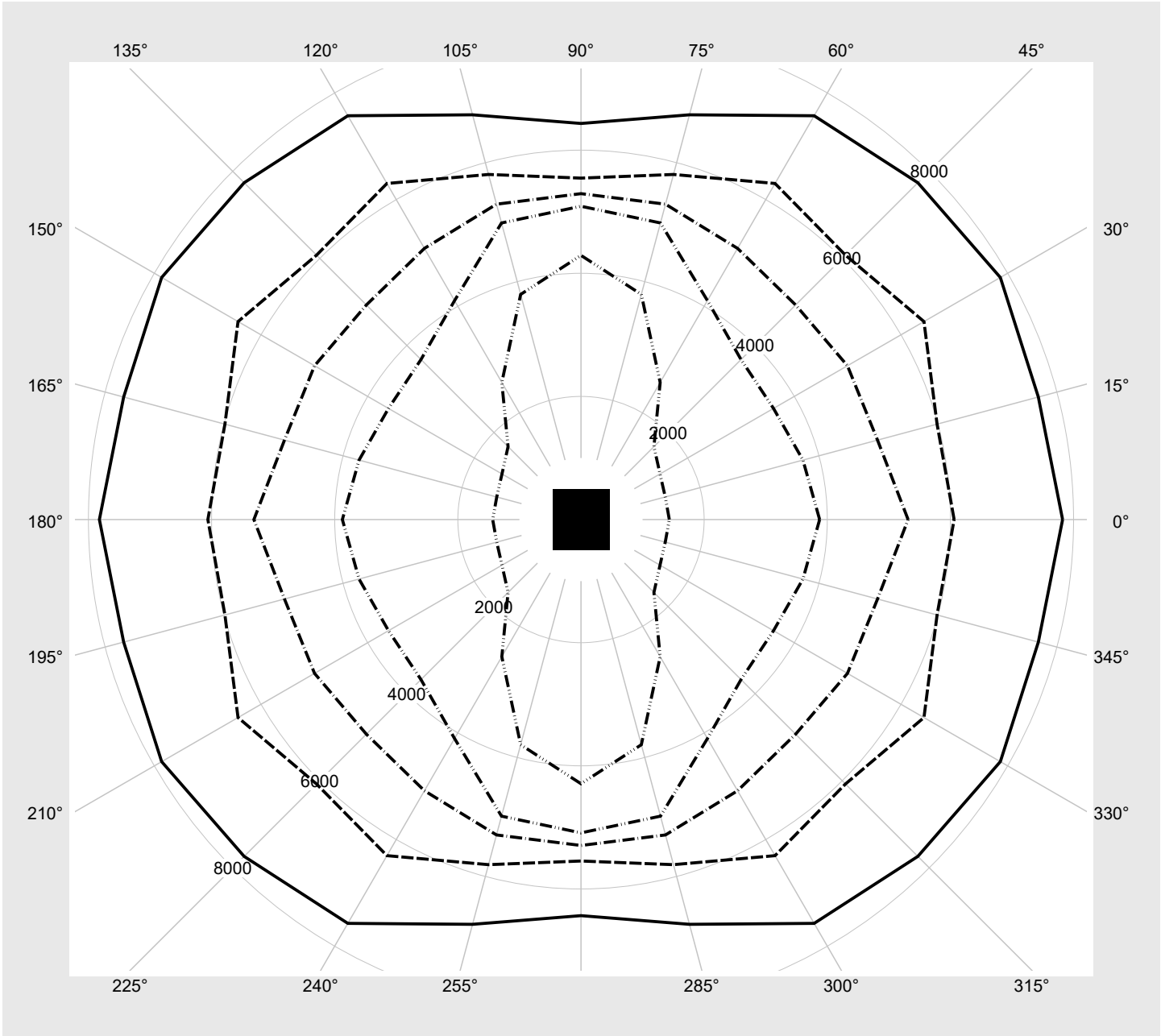
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 426 B = 264
-----------------	---------------------------------	-------------------------------	--------------------

C-planes	γ	Luminance in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45,0°		27297.1	26385.8	25197.2	23621.1	22100.2	20654.4	20192.0	
50,0°		20463.7	19751.3	18914.7	17791.7	16457.7	15172.5	14743.0	
55,0°		14848.6	14446.6	13946.0	13221.6	12203.2	11138.8	10691.1	
60,0°		10187.8	10198.8	10388.5	9925.2	9335.1	8422.3	8001.9	
65,0°		7821.9	7690.0	7864.4	7737.1	7573.6	6806.2	6433.5	
70,0°		6060.2	5987.2	6432.0	6074.1	6303.4	5803.1	5545.9	
75,0°		5312.6	4985.9	4997.1	4929.7	5085.9	5303.2	5293.7	
80,0°		3875.8	3732.0	3610.2	3675.5	4107.0	4987.5	5088.9	
85,0°		1434.4	1416.8	1481.8	1675.2	2571.7	3786.4	4290.9	

Photometric test report

Family Highbay 11	Order number: 51HN11MA4GDA EAN: 4069025691798	LP number 59711_487
-----------------------------	--	-------------------------------

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



Photometric test report

Family Highbay 11	Order number: 51HN11MA4GDA EAN: 4069025691798	LP number 59711_487
----------------------	--	------------------------

Multilumen Table	environmental temperature: 25°C	sITeco
------------------	---------------------------------	---------------

DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
1	A	C	E	17230	85.2
2	A	C	F	15970	78.5
3	A	D	E	14620	71.2
4	A	D	F	13170	63.6
5	B	C	E	11880	57.0
6	B	C	F	10570	50.4
7	B	D	E	9350	44.4
8	B	D	F	8020	37.9