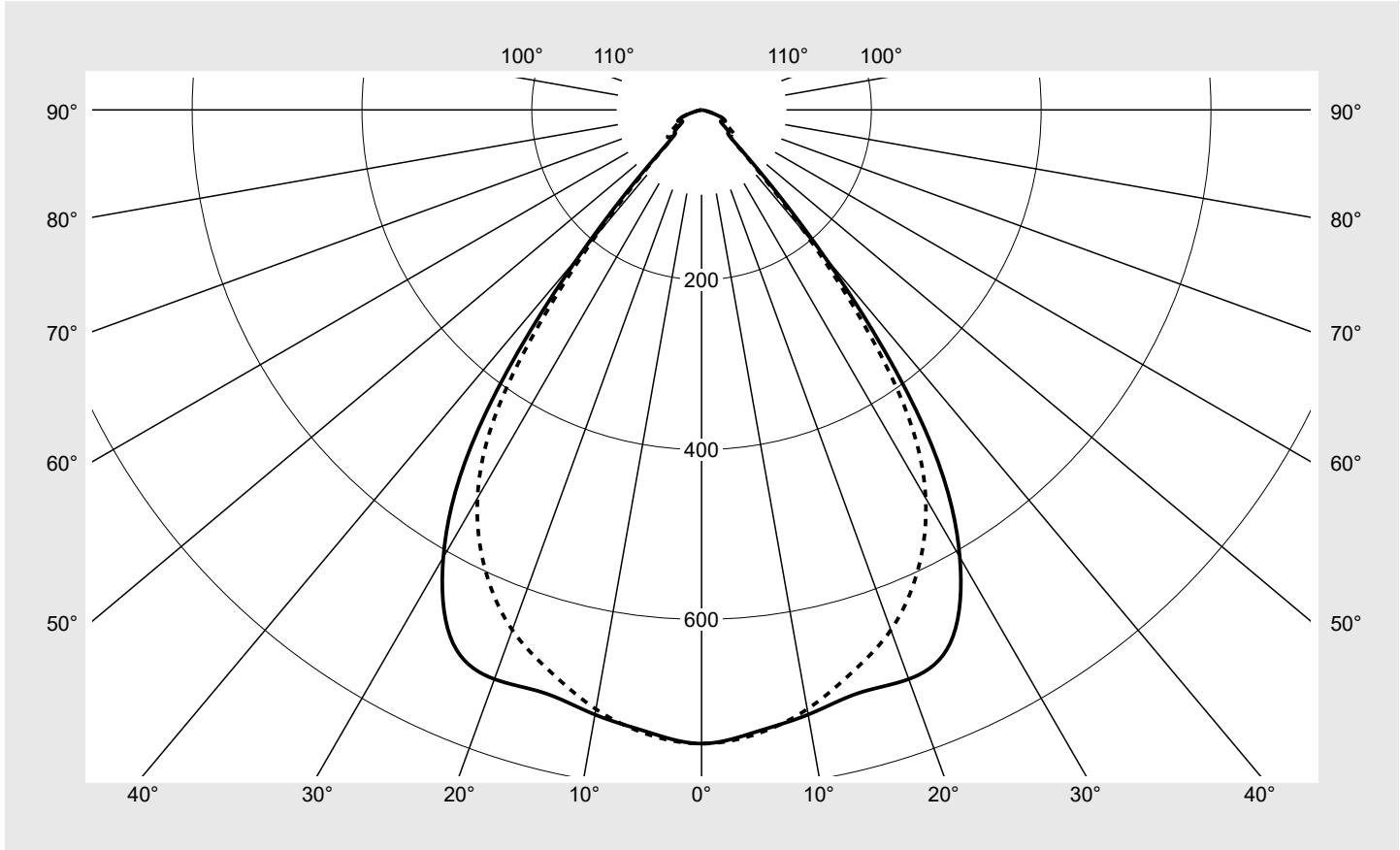


Photometric test report

Family Highbay 11	Order number: 51HLA2D24NCA + 59HL91001 EAN: 4058352322987 + 4058352323519	LP number 58924_4
Version	wide distribution, UGR≤22, toughened safety glass	serial documentation 13.06.2019
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 31620 lm Power consumption = 189.6 W Luminous efficacy = 166.8 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 746 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=88 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: 51HLA2D24NCA + 59HL91001 EAN: 4058352322987 + 4058352323519	LP number 58924_4
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Table of values for luminous intensities	Maximum luminous intensity
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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°	746.3	746.3	746.3	746.3	746.3	746.3	746.3	4.5	4.5
5°	735.3	737.5	739.7	739.9	738.3	739.6	738.0	35.3	39.7
10°	723.2	726.6	729.4	728.5	722.4	719.9	716.7	69.0	108.7
15°	711.3	717.1	725.5	723.9	708.1	693.6	685.6	100.9	209.6
20°	713.4	718.0	728.3	720.4	690.5	663.2	651.9	131.3	340.9
25°	693.0	694.9	704.2	693.3	653.0	614.7	601.0	154.7	495.6
30°	608.4	605.8	624.6	634.7	585.4	537.6	527.9	162.4	658.1
35°	457.7	465.3	511.3	544.0	482.6	417.8	402.1	149.4	807.5
40°	223.2	249.0	306.2	349.8	284.7	219.8	194.6	95.0	902.5
45°	63.3	67.7	80.1	90.2	68.6	60.3	58.8	27.6	930.1
50°	41.6	37.0	34.8	39.2	39.3	44.2	50.6	16.8	947.0
55°	31.4	29.8	26.5	27.8	29.3	36.0	43.6	14.0	961.0
60°	26.5	29.7	26.3	21.9	21.3	25.9	33.0	12.2	973.2
65°	30.8	23.4	22.4	19.4	17.1	22.6	29.4	11.2	984.4
70°	22.6	17.1	16.5	15.8	14.1	17.3	23.9	8.9	993.3
75°	9.7	7.3	8.1	9.4	9.5	10.1	9.9	4.8	998.1
80°	2.5	2.3	2.6	3.2	3.7	3.7	3.7	1.7	999.8
85°	0.2	0.2	0.3	0.3	0.6	0.6	0.7	0.2	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	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: 51HLA2D24NCA + 59HL91001 EAN: 4058352322987 + 4058352323519	LP number 58924_4
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UGR-Table		Standard room									
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	21.1	22.4	21.5	22.7	23.1	20.7	22.0	21.0	22.3	22.6
	3H	21.4	22.6	21.8	22.9	23.3	21.0	22.2	21.4	22.5	22.9
	4H	21.5	22.5	21.9	22.9	23.3	21.1	22.2	21.5	22.6	22.9
	6H	21.5	22.4	21.9	22.8	23.2	21.2	22.1	21.6	22.5	22.9
	8H	21.5	22.3	22.0	22.7	23.1	21.2	22.0	21.6	22.4	22.8
	12H	21.5	22.2	21.9	22.6	23.1	21.2	21.9	21.6	22.3	22.8
4H	2H	21.1	22.1	21.5	22.5	22.8	20.6	21.7	21.0	22.0	22.4
	3H	21.5	22.3	21.9	22.7	23.1	21.0	21.9	21.5	22.3	22.7
	4H	21.5	22.3	22.0	22.7	23.1	21.2	22.0	21.6	22.4	22.8
	6H	21.5	22.1	22.0	22.6	23.1	21.2	21.9	21.7	22.3	22.8
	8H	21.5	22.0	21.9	22.5	23.0	21.2	21.8	21.7	22.2	22.7
	12H	21.5	21.9	22.0	22.4	22.9	21.2	21.7	21.7	22.2	22.7
8H	4H	21.5	22.1	22.0	22.5	23.0	21.2	21.8	21.7	22.2	22.7
	6H	21.4	21.9	21.9	22.4	22.9	21.2	21.7	21.7	22.2	22.7
	8H	21.4	21.8	21.9	22.3	22.8	21.2	21.6	21.7	22.1	22.6
	12H	21.4	21.7	21.9	22.2	22.8	21.2	21.5	21.7	22.0	22.6
12H	4H	21.5	22.0	22.0	22.4	22.9	21.2	21.7	21.7	22.1	22.6
	6H	21.4	21.8	22.0	22.3	22.8	21.2	21.6	21.7	22.1	22.6
	8H	21.4	21.7	21.9	22.2	22.8	21.2	21.5	21.7	22.0	22.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 590 B = 312		
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°		15382.2	16438.9	19468.7	21923.2	16661.7	14645.4	14275.2
50°		11125.4	9892.6	9286.6	10478.7	10512.9	11822.3	13513.4
55°		9399.1	8915.4	7933.5	8313.8	8769.6	10785.7	13055.4
60°		9097.8	10192.3	9031.5	7540.5	7319.9	8884.5	11334.3
65°		12501.6	9502.4	9095.5	7892.0	6964.1	9180.1	11948.4
70°		11331.3	8576.1	8299.9	7911.6	7104.1	8701.7	11995.8
75°		6427.7	4863.5	5355.9	6265.1	6303.6	6708.5	6549.2
80°		2470.0	2242.5	2609.5	3199.1	3671.9	3672.9	3687.7
85°		437.5	443.4	506.5	668.1	1089.9	1190.4	1306.7

Photometric test report

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Luminance values in cd/m²

 γ 65°

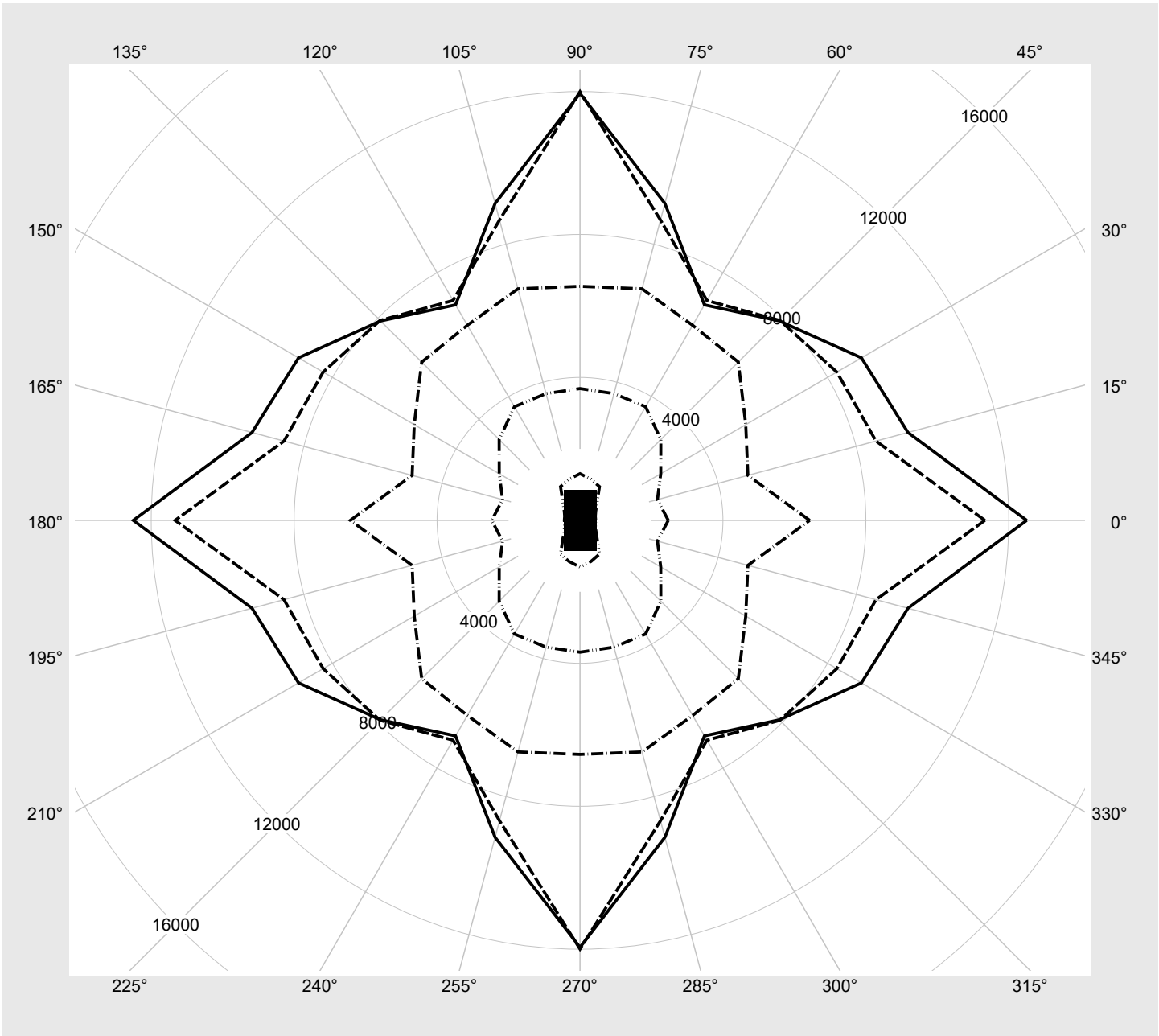
 γ 70°

 γ 75°

 γ 80°

 γ 85°

siteco



Photometric test report

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Dimming levels table	environmental temperature: 25°C	siteco
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	31620	189.6
95	240	252	30039	179.4
90	227	250	28458	169.2
85	213	248	26877	158.9
80	200	245	25296	148.9
75	187	243	23715	139.4
70	174	240	22134	129.5
65	161	237	20553	120.1
60	148	234	18972	110.8
55	135	231	17391	101.4
50	123	228	15810	92.3
45	110	224	14229	83.2
40	98	220	12648	74.4
35	85	215	11067	65.5
30	73	210	9486	56.9
25	61	204	7905	48.4
20	49	197	6324	39.9
15	37	188	4743	31.4
10	25	177	3161	23.0