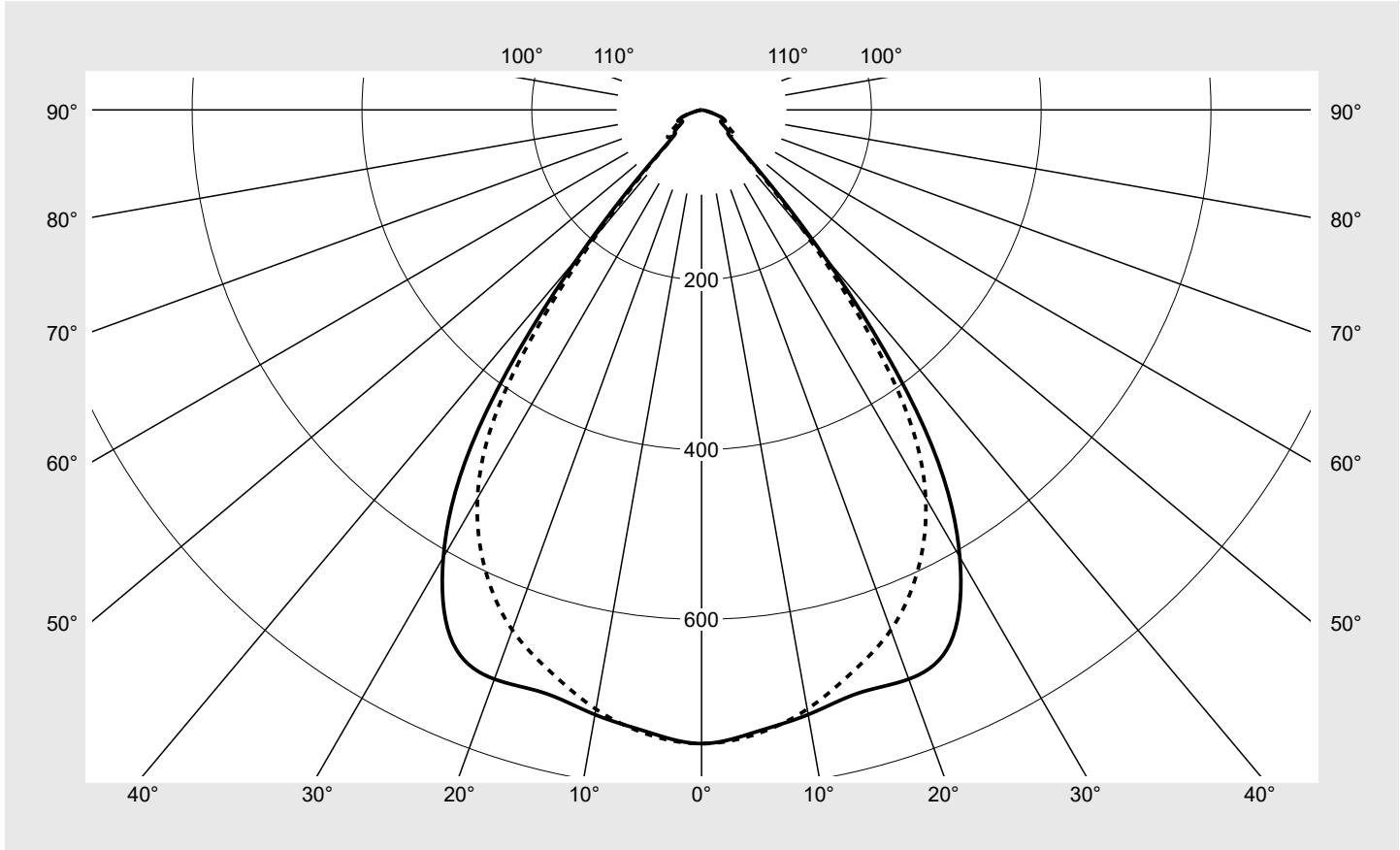


Photometric test report

Family Highbay 11	Order number: 51HLA2D14GLA + 59HL91001 EAN: 4058352361467 + 4058352323519	LP number 58924_20
Version	wide distribution, UGR≤22, toughened safety glass	serial documentation 31.03.2020
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 15810 lm Power consumption = 94.8 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: 51HLA2D14GLA + 59HL91001 EAN: 4058352361467 + 4058352323519	LP number 58924_20
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°	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: 51HLA2D14GLA + 59HL91001 EAN: 4058352361467 + 4058352323519	LP number 58924_20
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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 = 295 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°

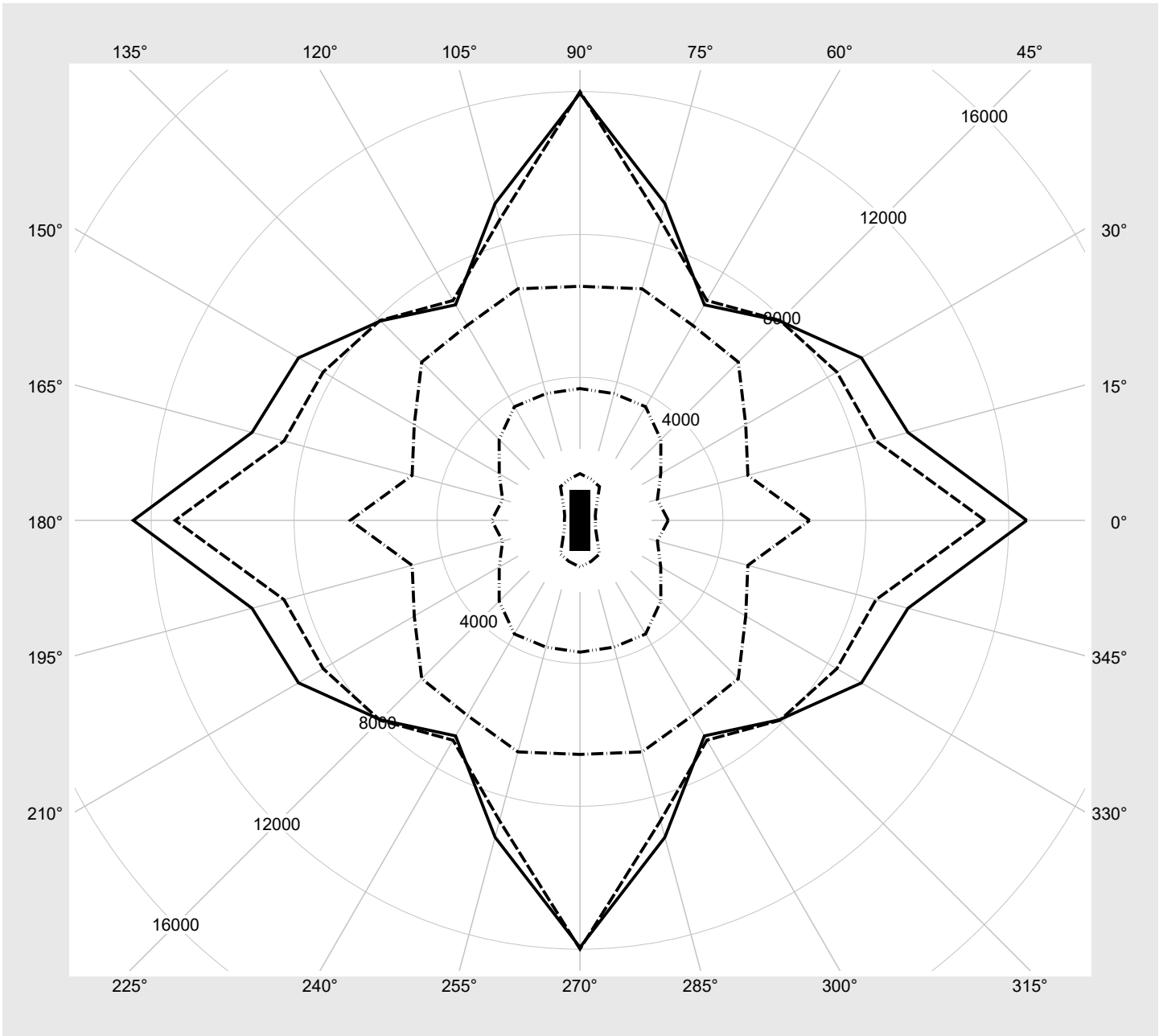
 γ 70°

 γ 75°

 γ 80°

 γ 85°

siteco



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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	15810	94.8
95	240	252	14999	89.5
90	227	250	14237	84.6
85	213	247	13411	79.3
80	200	245	12636	74.3
75	187	243	11853	69.5
70	174	240	11065	64.7
65	161	237	10269	59.9
60	148	234	9469	55.2
55	136	231	8719	50.7
50	123	228	7905	46.0
45	110	224	7083	41.4
40	98	220	6318	37.1
35	86	215	5548	32.8
30	74	210	4771	28.6
25	61	204	3925	24.1
20	49	197	3137	19.8
15	37	188	2344	15.6
10	26	177	1608	11.7
5	14	161	802	7.4