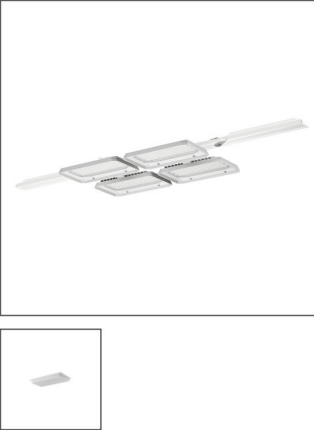

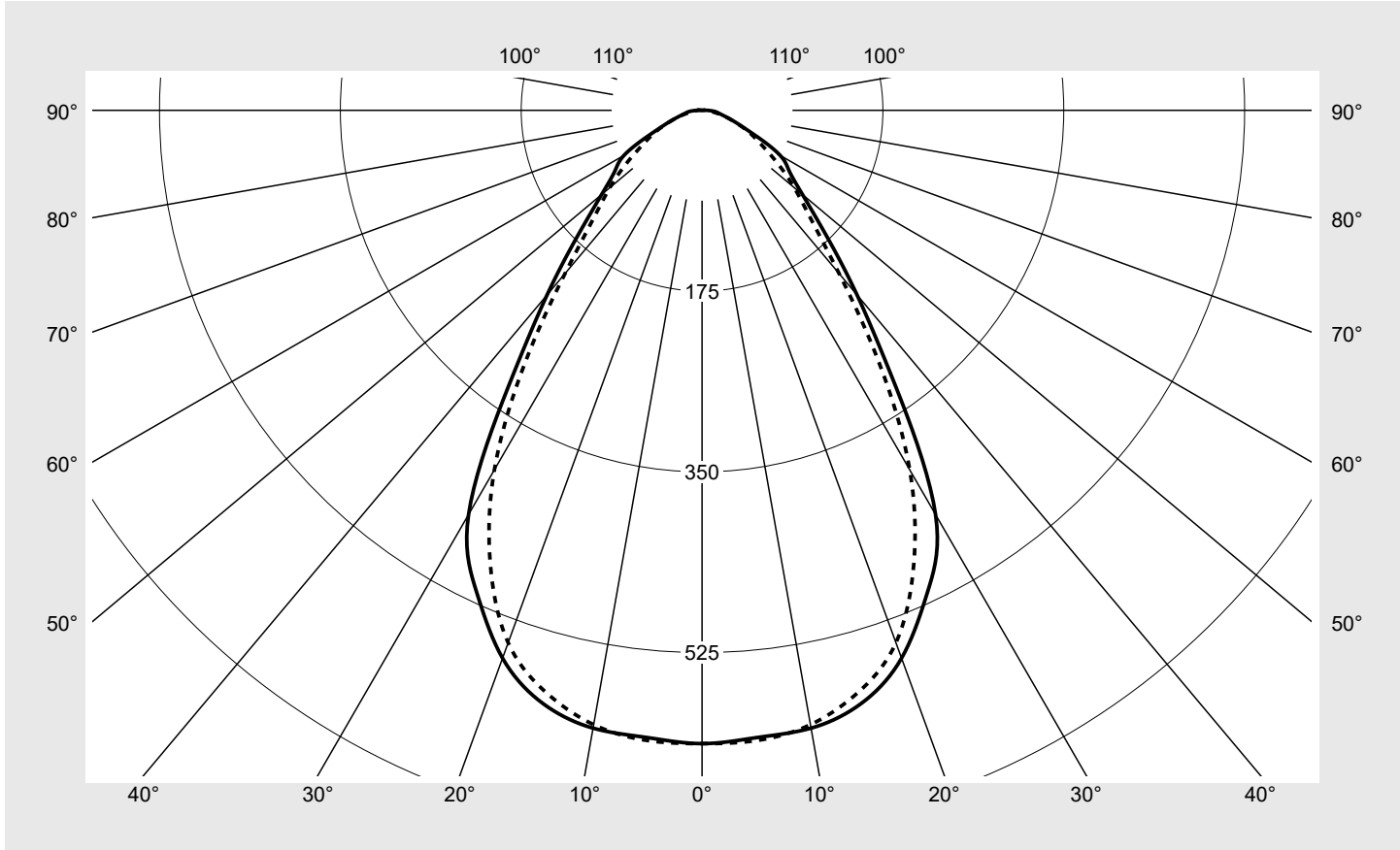


Photometric test report

Family Highbay 11	Order number: 51HLA2D24NLA + 59HL91004 EAN: 4058352361481 + 4058352341674	LP number 58927_13
	Version wide distribution, UGR≤25, prismatic cover, polycarbonate, LLD Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 30180 lm Power consumption = 189.6 W Luminous efficacy = 159.2 lm/W	serial documentation 31.03.2020
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 613 cd/klm**



Classifications	
DIN 5040	A 5 1
CIE	N1=71 N2=92 N3=98 N4=99 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	99.2%
ϕ_o	0.8%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Highbay 11	Order number: 51HLA2D24NLA + 59HL91004 EAN: 4058352361481 + 4058352341674	LP number 58927_13
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°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	3.7	3.7
5°	609.6	611.1	612.7	613.1	612.4	613.5	612.4	29.3	32.9
10°	607.4	608.6	610.2	610.3	606.5	606.0	604.0	57.9	90.8
15°	594.6	597.6	602.3	599.6	593.1	586.2	583.4	84.4	175.1
20°	564.4	569.0	575.3	578.9	566.2	554.6	548.6	106.3	281.4
25°	515.6	519.2	532.1	539.9	522.8	495.8	484.8	120.1	401.5
30°	451.9	458.6	489.1	475.0	449.8	415.9	401.9	124.0	525.5
35°	327.1	344.0	384.2	395.7	355.4	317.3	299.0	110.5	636.0
40°	233.3	244.0	283.0	307.1	269.8	223.2	206.3	90.8	726.9
45°	168.2	173.3	198.5	225.5	193.2	156.5	149.2	71.4	798.3
50°	126.9	129.4	133.3	144.3	131.1	119.6	116.5	54.5	852.8
55°	103.2	99.6	94.5	87.8	94.2	91.0	89.0	42.1	895.0
60°	87.2	78.0	70.2	56.0	68.9	67.5	66.1	33.0	928.0
65°	55.4	55.0	48.9	35.9	50.1	50.3	50.2	24.3	952.2
70°	35.3	34.3	31.3	21.7	32.3	34.6	34.5	16.2	968.5
75°	23.4	22.4	19.9	14.1	19.6	21.8	22.9	10.7	979.2
80°	16.6	15.4	13.9	10.7	12.1	12.4	12.8	7.1	986.3
85°	12.0	10.4	9.7	7.3	6.9	6.7	7.4	4.6	990.9
90°	4.7	4.3	4.8	4.8	4.6	4.2	4.5	2.5	993.4
95°	2.6	2.7	3.5	3.9	3.7	3.3	3.9	1.8	995.3
100°	1.7	1.8	2.2	2.7	2.5	2.3	2.8	1.2	996.5
105°	1.5	1.3	1.3	1.5	1.7	1.9	2.3	0.8	997.3
110°	1.2	1.1	0.9	0.8	1.2	1.2	2.0	0.6	997.9
115°	1.1	1.0	0.8	0.7	1.1	1.0	1.8	0.5	998.4
120°	0.9	0.8	0.7	0.6	0.9	1.0	1.5	0.4	998.8
125°	0.8	0.7	0.6	0.6	0.8	1.0	1.3	0.3	999.2
130°	0.9	0.8	0.8	0.8	0.8	1.0	1.2	0.4	999.6
135°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	0.4	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: 51HLA2D24NLA + 59HL91004 EAN: 4058352361481 + 4058352341674	LP number 58927_13
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UGR-Table	Standard room	siteco	
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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	22.7	24.1	23.0	24.4	24.8	22.2	23.6	22.5	23.9	24.3
	3H	23.3	24.5	23.7	24.9	25.2	22.9	24.1	23.2	24.5	24.8
	4H	23.5	24.7	23.9	25.0	25.4	23.1	24.3	23.5	24.6	25.0
	6H	23.7	24.7	24.1	25.1	25.5	23.2	24.3	23.7	24.7	25.1
	8H	23.8	24.8	24.2	25.2	25.6	23.4	24.3	23.8	24.7	25.1
	12H	23.9	24.8	24.4	25.2	25.6	23.4	24.3	23.8	24.7	25.1
4H	2H	22.8	24.0	23.2	24.4	24.7	22.4	23.6	22.8	23.9	24.3
	3H	23.5	24.5	23.9	24.9	25.3	23.2	24.2	23.6	24.6	25.0
	4H	23.8	24.7	24.2	25.1	25.5	23.5	24.4	23.9	24.8	25.2
	6H	24.1	24.8	24.5	25.3	25.7	23.7	24.5	24.2	24.9	25.4
	8H	24.2	24.9	24.7	25.4	25.8	23.8	24.5	24.3	25.0	25.4
	12H	24.4	25.0	24.9	25.5	26.0	23.9	24.5	24.4	25.0	25.5
8H	4H	23.8	24.5	24.3	25.0	25.4	23.5	24.2	24.0	24.7	25.1
	6H	24.2	24.7	24.7	25.2	25.7	23.8	24.4	24.3	24.9	25.4
	8H	24.4	24.9	24.9	25.4	25.9	23.9	24.4	24.4	24.9	25.5
	12H	24.6	25.1	25.2	25.6	26.1	24.1	24.5	24.6	25.0	25.5
12H	4H	23.8	24.4	24.3	24.9	25.4	23.6	24.1	24.0	24.6	25.1
	6H	24.2	24.7	24.7	25.1	25.7	23.9	24.3	24.4	24.8	25.3
	8H	24.4	24.8	24.9	25.3	25.9	24.0	24.4	24.5	24.9	25.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 612 B = 330	H(C0) = 21 H(C90) = 21	H(C180) = 21 H(C270) = 21
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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°		33416.3	34217.4	39120.7	44565.7	38472.2	31516.4	30485.4	
50°		27420.4	27748.6	28522.7	30999.3	28404.2	26251.3	26019.7	
55°		24650.1	23569.6	22305.9	20822.0	22549.6	22131.9	22094.5	
60°		23479.3	20790.6	18646.2	14938.2	18606.4	18583.4	18635.8	
65°		17232.8	16888.2	14963.3	11057.7	15660.2	16060.4	16520.3	
70°		13142.5	12553.1	11425.8	7962.1	12062.3	13310.4	13781.9	
75°		10910.2	10229.1	9065.5	6474.8	9214.8	10641.7	11713.7	
80°		10473.6	9475.0	8495.5	6627.2	7705.0	8302.2	9217.2	
85°		11934.0	9912.5	9076.1	7026.1	6982.8	7338.2	9090.1	

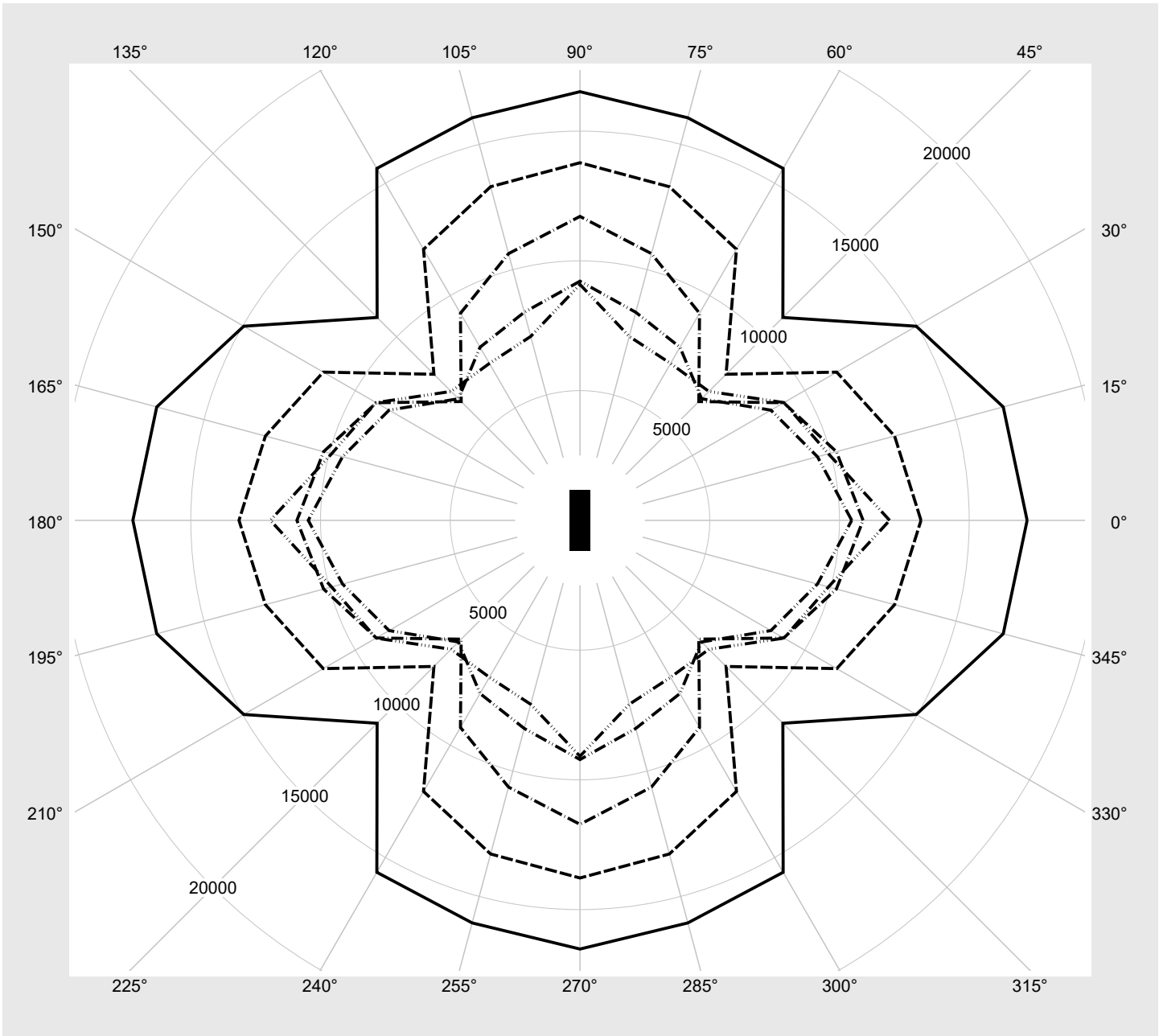
Photometric test report

Family Highbay 11	Order number: 51HLA2D24NLA + 59HL91004 EAN: 4058352361481 + 4058352341674	LP number 58927_13
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HLA2D24NLA + 59HL91004 EAN: 4058352361481 + 4058352341674	LP number 58927_13
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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	30180	189.6
95	240	252	28632	179.0
90	227	250	27178	169.1
85	213	248	25600	158.4
80	200	245	24120	148.5
75	187	243	22626	139.0
70	174	240	21123	129.4
65	161	237	19603	119.8
60	148	234	18076	110.4
55	136	231	16643	101.5
50	123	227	15089	92.1
45	110	223	13521	82.8
40	98	219	12062	74.2
35	86	214	10592	65.6
30	74	209	9108	57.1
25	61	202	7491	48.1
20	49	194	5988	39.5
15	37	183	4474	31.2
10	26	171	3069	23.3
5	14	148	1533	14.9
1	4	102	244	7.9