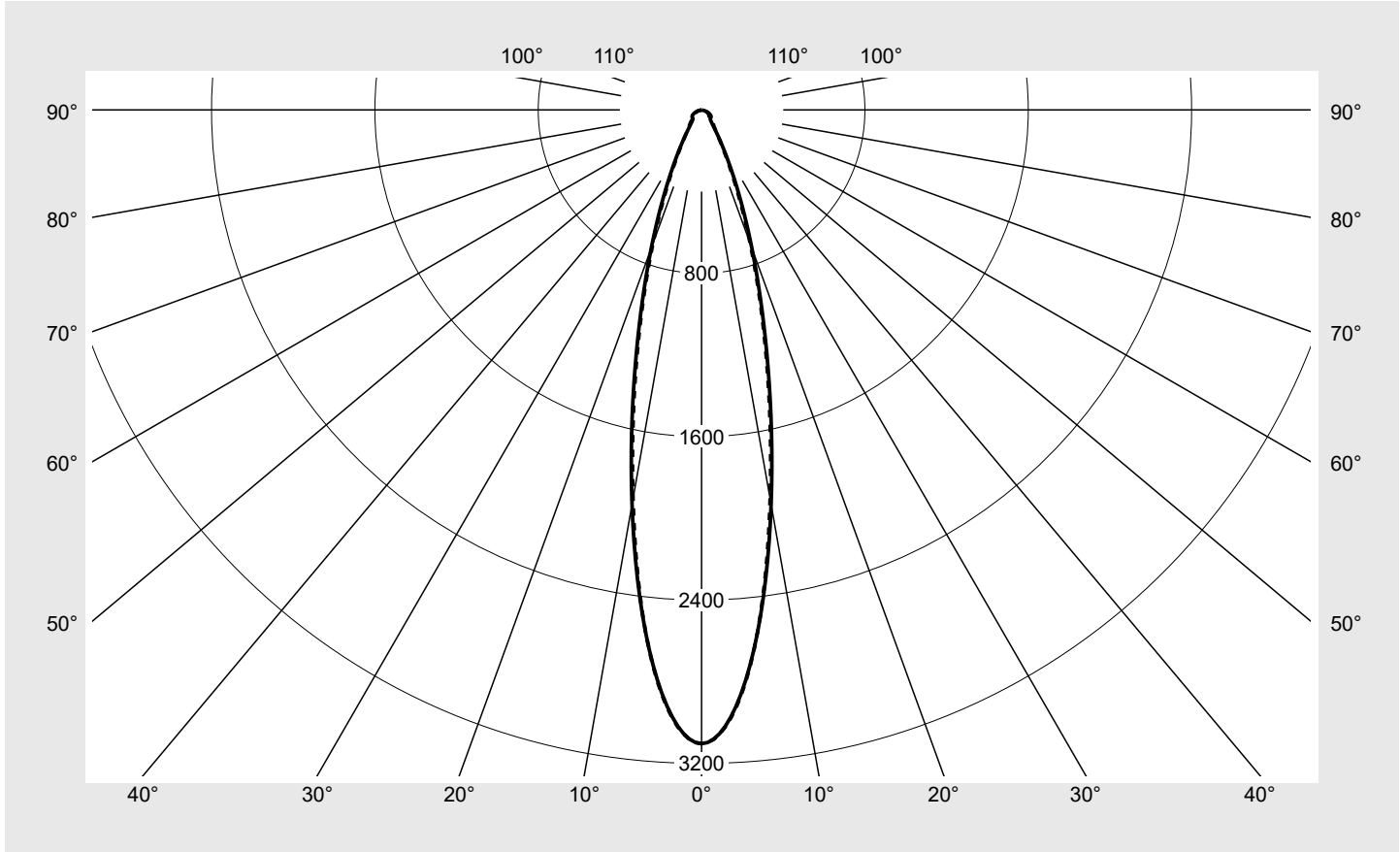


Photometric test report

Family Highbay 11	Order number: 51HLA1D24MCA + 59HL91002 EAN: 4058352322925 + 4058352341650	LP number 58920_13
Version	narrow distribution, UGR≤22, cover panel, PC	serial documentation 13.06.2019
Lamps	LED 4000 K CRI ≥ 80	
Controlgear	ECG-DALI	
Rated values	Net luminous flux = 25590 lm Power consumption = 162.4 W Luminous efficacy = 157.6 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 3103 cd/klm**



Classifications	
DIN 5040	A 7 0
CIE	N1=85 N2=94 N3=99 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: 51HLA1D24MCA + 59HL91002 EAN: 4058352322925 + 4058352341650	LP number 58920_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°	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	18.6	18.6
5°	2728.1	2725.7	2734.5	2735.8	2731.2	2739.6	2732.7	130.6	149.1
10°	1961.3	1955.1	1962.7	1959.8	1944.6	1940.4	1933.3	185.8	334.9
15°	1234.5	1231.5	1237.4	1233.6	1223.5	1217.2	1209.8	174.2	509.0
20°	720.2	721.2	730.7	731.8	720.5	706.3	696.1	134.9	644.0
25°	391.5	395.5	407.7	412.0	396.6	377.5	368.6	91.5	735.4
30°	203.6	206.8	216.0	219.0	212.4	200.7	194.3	57.3	792.7
35°	109.3	109.5	113.4	118.8	120.5	117.6	115.6	36.3	829.0
40°	71.8	72.6	76.4	83.5	87.0	87.1	87.3	28.5	857.5
45°	59.8	60.1	64.9	71.1	68.6	64.2	62.9	25.2	882.8
50°	58.8	60.0	64.4	66.4	57.1	49.4	48.5	24.6	907.3
55°	56.5	57.6	60.7	58.9	51.3	43.9	43.6	24.1	931.5
60°	50.4	50.7	52.1	52.2	45.2	38.5	38.0	22.4	953.8
65°	40.7	40.4	41.4	42.5	37.1	32.0	31.7	19.0	972.8
70°	28.4	28.2	29.2	30.2	27.5	24.4	24.3	14.2	987.1
75°	15.1	15.6	16.5	18.0	16.8	16.4	16.8	8.8	995.8
80°	5.3	5.6	6.2	6.9	7.4	7.5	9.1	3.7	999.5
85°	0.5	0.5	0.6	0.8	1.1	1.3	1.8	0.5	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: 51HLA1D24MCA + 59HL91002 EAN: 4058352322925 + 4058352341650	LP number 58920_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	18.3	19.5	18.7	19.8	20.1	17.3	18.5	17.6	18.8	19.1
	3H	19.8	20.8	20.2	21.1	21.5	18.7	19.7	19.0	20.0	20.4
	4H	20.1	21.1	20.5	21.4	21.8	19.2	20.1	19.6	20.5	20.9
	6H	20.3	21.1	20.7	21.5	21.9	19.5	20.4	19.9	20.7	21.1
	8H	20.3	21.0	20.7	21.4	21.8	19.7	20.4	20.1	20.8	21.2
	12H	20.3	20.9	20.7	21.3	21.8	19.7	20.3	20.1	20.7	21.1
4H	2H	19.0	20.0	19.4	20.4	20.7	18.3	19.2	18.7	19.6	20.0
	3H	20.6	21.4	21.0	21.8	22.2	19.8	20.5	20.2	20.9	21.4
	4H	21.0	21.7	21.4	22.1	22.6	20.3	21.0	20.8	21.4	21.9
	6H	21.1	21.7	21.6	22.2	22.6	20.7	21.3	21.1	21.7	22.2
	8H	21.1	21.7	21.6	22.1	22.6	20.7	21.3	21.2	21.7	22.2
	12H	21.1	21.5	21.6	22.0	22.5	20.7	21.2	21.2	21.7	22.2
8H	4H	21.2	21.7	21.7	22.1	22.6	20.6	21.1	21.0	21.5	22.0
	6H	21.3	21.8	21.8	22.2	22.7	21.0	21.4	21.5	21.8	22.4
	8H	21.3	21.7	21.8	22.2	22.7	21.0	21.4	21.5	21.9	22.4
	12H	21.3	21.6	21.8	22.1	22.6	21.0	21.3	21.5	21.8	22.4
12H	4H	21.2	21.6	21.7	22.1	22.6	20.6	21.0	21.0	21.5	22.0
	6H	21.3	21.7	21.8	22.2	22.7	20.9	21.3	21.4	21.8	22.3
	8H	21.3	21.6	21.8	22.1	22.6	21.0	21.3	21.5	21.8	22.4

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 590 B = 312
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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°		11756.4	11824.6	12756.4	13975.2	13484.1	12629.2	12359.9	
50°		12711.5	12971.9	13918.9	14364.7	12356.8	10693.9	10485.6	
55°		13691.0	13949.9	14719.4	14281.9	12421.8	10641.1	10573.5	
60°		13998.9	14107.6	14496.6	14504.9	12572.6	10700.3	10562.1	
65°		13373.3	13300.7	13631.6	13979.3	12198.0	10520.8	10419.1	
70°		11559.6	11470.1	11855.1	12273.3	11157.2	9928.9	9895.9	
75°		8095.4	8355.4	8883.3	9669.1	9040.7	8811.4	9040.7	
80°		4279.0	4457.5	4956.3	5498.2	5930.5	5982.6	7249.9	
85°		733.7	736.9	902.8	1240.9	1776.9	2143.7	2914.1	

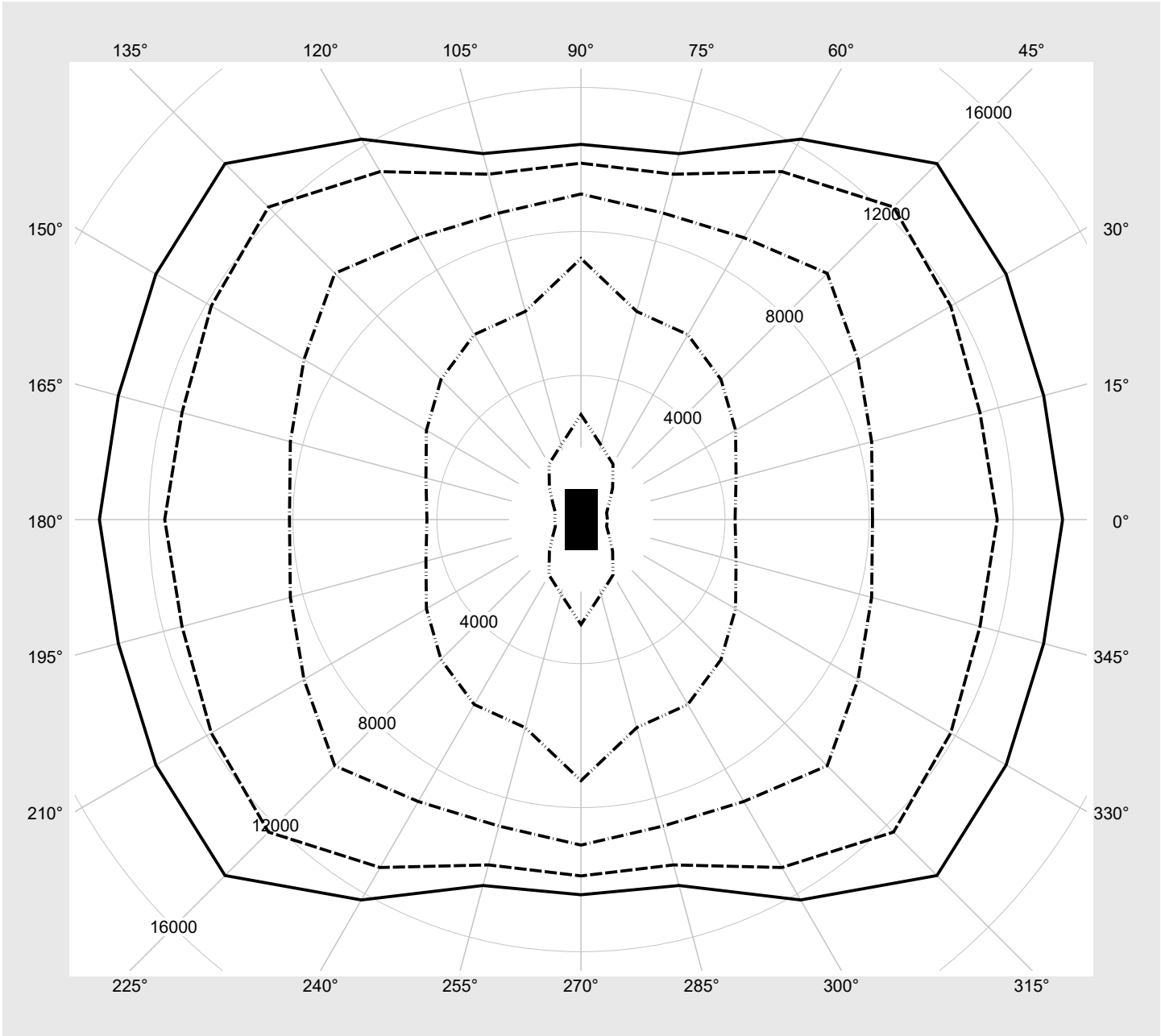
Photometric test report

Family Highbay 11	Order number: 51HLA1D24MCA + 59HL91002 EAN: 4058352322925 + 4058352341650	LP number 58920_13
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Luminance values in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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siteco



Photometric test report

Family Highbay 11	Order number: 51HLA1D24MCA + 59HL91002 EAN: 4058352322925 + 4058352341650	LP number 58920_13
Dimming levels table		siteco
environmental temperature: 25°C		

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	25590	162.4
95	241	252	24311	153.6
90	227	250	23031	145.0
85	214	248	21752	136.6
80	201	245	20472	128.3
75	188	243	19193	120.1
70	175	240	17913	111.9
65	162	238	16634	103.9
60	149	235	15354	95.9
55	136	232	14075	88.1
50	124	228	12795	80.3
45	111	225	11516	72.7
40	99	220	10236	65.0
35	86	216	8957	57.5
30	74	211	7677	50.1
25	62	205	6398	42.6
20	50	198	5118	35.3
15	38	190	3839	28.1
10	26	179	2558	20.8