

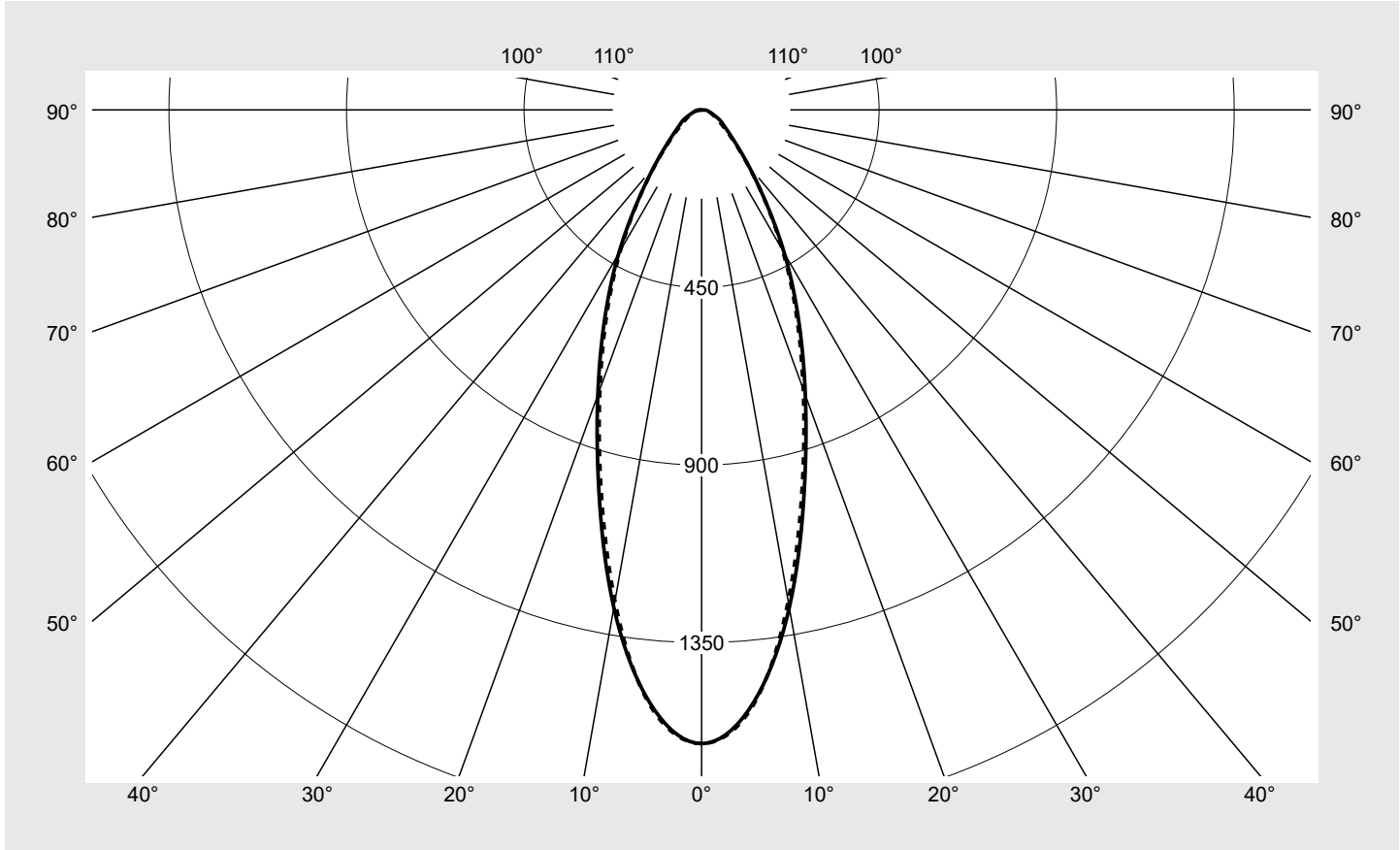


Photometric test report

Family Highbay 11	Order number: 51HLA1D24MCA + 59HL91004 EAN: 4058352322925 + 4058352341674	LP number 58926_3
	Version narrow distribution, UGR≤25, prismatic cover, polycarbonate, LLD Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 26070 lm Power consumption = 162.4 W Luminous efficacy = 160.5 lm/W	serial documentation 13.06.2019
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 1606 cd/klm**



Classifications	
DIN 5040	A 6 1
CIE	N1=80 N2=93 N3=98 N4=99 N5=100

Luminaire light output ratios	
η_{LB}	100.0%
ϕ_u	99.1%
ϕ_o	0.9%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Highbay 11	Order number: 51HLA1D24MCA + 59HL91004 EAN: 4058352322925 + 4058352341674	LP number 58926_3
Table of values for luminous intensities		Maximum luminous intensity



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°	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	9.6	9.6
5°	1507.9	1508.7	1512.2	1513.3	1508.7	1511.4	1513.0	72.2	81.8
10°	1280.6	1272.9	1259.5	1248.8	1248.0	1260.8	1264.2	120.0	201.7
15°	1004.5	985.6	950.6	929.5	940.1	972.0	986.2	136.5	338.3
20°	768.9	734.9	677.5	651.2	671.3	724.2	753.2	131.9	470.1
25°	579.4	536.1	467.6	439.1	462.6	526.2	566.8	116.0	586.1
30°	419.8	378.2	316.2	288.9	311.0	371.2	410.7	95.0	681.2
35°	281.6	253.0	209.3	188.3	206.3	251.7	279.5	72.8	753.9
40°	186.8	169.4	140.2	125.9	140.1	168.6	184.1	54.6	808.5
45°	126.3	118.0	99.1	89.3	99.3	113.9	120.8	41.5	850.1
50°	90.6	86.0	74.8	68.1	73.3	80.0	82.7	32.8	882.9
55°	68.9	67.2	61.4	56.4	57.0	58.6	59.3	27.3	910.2
60°	55.5	53.3	51.3	48.2	46.1	44.3	44.2	23.2	933.4
65°	39.9	40.4	40.9	39.4	37.9	35.0	34.2	19.1	952.4
70°	27.7	27.4	28.0	26.9	26.9	26.7	27.3	14.0	966.5
75°	20.8	20.4	20.1	18.4	17.7	18.4	20.0	10.2	976.7
80°	16.9	16.2	16.1	14.4	12.1	10.7	10.9	7.5	984.2
85°	12.6	12.2	12.3	10.2	7.8	6.8	7.3	5.4	989.6
90°	4.9	5.5	6.5	6.9	5.5	5.3	6.3	3.2	992.8
95°	3.0	3.5	4.8	5.4	4.4	4.2	5.3	2.4	995.2
100°	1.8	2.0	2.9	3.6	2.9	2.5	3.1	1.5	996.6
105°	1.4	1.2	1.3	1.8	1.9	1.8	2.1	0.9	997.5
110°	1.1	1.0	0.9	0.8	1.2	1.2	1.9	0.6	998.1
115°	1.0	0.9	0.7	0.6	1.0	0.9	1.7	0.4	998.5
120°	0.8	0.7	0.5	0.5	0.8	0.9	1.5	0.4	998.9
125°	0.6	0.5	0.5	0.5	0.6	0.8	1.2	0.3	999.2
130°	0.8	0.8	0.8	0.8	0.8	1.0	1.1	0.4	999.5
135°	1.2	1.2	1.2	1.2	1.2	1.2	1.3	0.5	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 + 59HL91004 EAN: 4058352322925 + 4058352341674	LP number 58926_3
----------------------	--	----------------------

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	20.7	19.8	21.0	21.3	18.9	20.2	19.3	20.5	20.9
	3H	20.2	21.4	20.6	21.7	22.0	19.8	20.9	20.2	21.3	21.6
	4H	20.6	21.6	21.0	22.0	22.3	20.2	21.2	20.6	21.6	22.0
	6H	21.0	21.9	21.4	22.3	22.7	20.4	21.4	20.9	21.8	22.2
	8H	21.3	22.1	21.7	22.5	22.9	20.6	21.4	21.0	21.8	22.2
	12H	21.5	22.3	22.0	22.7	23.1	20.7	21.5	21.1	21.9	22.3
4H	2H	19.7	20.8	20.1	21.1	21.5	19.3	20.4	19.7	20.7	21.1
	3H	20.7	21.6	21.1	22.0	22.4	20.3	21.2	20.8	21.6	22.0
	4H	21.2	22.0	21.6	22.4	22.8	20.8	21.6	21.3	22.0	22.4
	6H	21.7	22.4	22.2	22.8	23.3	21.2	21.8	21.6	22.3	22.7
	8H	22.1	22.7	22.5	23.1	23.6	21.3	21.9	21.8	22.3	22.8
	12H	22.4	22.9	22.9	23.4	23.9	21.5	22.0	22.0	22.4	22.9
8H	4H	21.3	21.9	21.8	22.4	22.9	21.0	21.6	21.5	22.0	22.5
	6H	22.0	22.5	22.5	23.0	23.5	21.4	21.9	21.9	22.4	22.9
	8H	22.5	22.9	23.0	23.4	23.9	21.6	22.1	22.1	22.6	23.1
	12H	23.0	23.3	23.5	23.8	24.4	21.9	22.2	22.4	22.7	23.3
12H	4H	21.4	21.9	21.8	22.3	22.8	21.0	21.5	21.5	22.0	22.5
	6H	22.1	22.5	22.6	23.0	23.5	21.5	21.9	22.0	22.4	23.0
	8H	22.6	22.9	23.1	23.5	24.0	21.8	22.1	22.3	22.6	23.2

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
-----------------	---------------------------------	-------------------------------	--------------------	---------------------------	------------------------------

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°		21681.9	20128.1	16875.7	15237.7	17070.8	19808.3	21318.4	
50°		16915.7	15927.4	13824.1	12628.7	13718.0	15161.7	15952.7	
55°		14213.3	13751.4	12532.0	11552.5	11790.1	12305.2	12713.6	
60°		12894.3	12275.1	11779.9	11109.7	10743.9	10529.3	10761.5	
65°		10729.8	10724.3	10820.5	10474.1	10222.4	9652.7	9735.2	
70°		8894.5	8661.5	8828.7	8517.4	8690.8	8875.9	9421.0	
75°		8368.1	8049.6	7882.4	7303.9	7164.9	7757.5	8826.2	
80°		9246.7	8634.2	8466.4	7696.8	6664.5	6224.2	6808.9	
85°		10794.1	10004.2	9964.3	8435.2	6751.8	6468.3	7774.5	

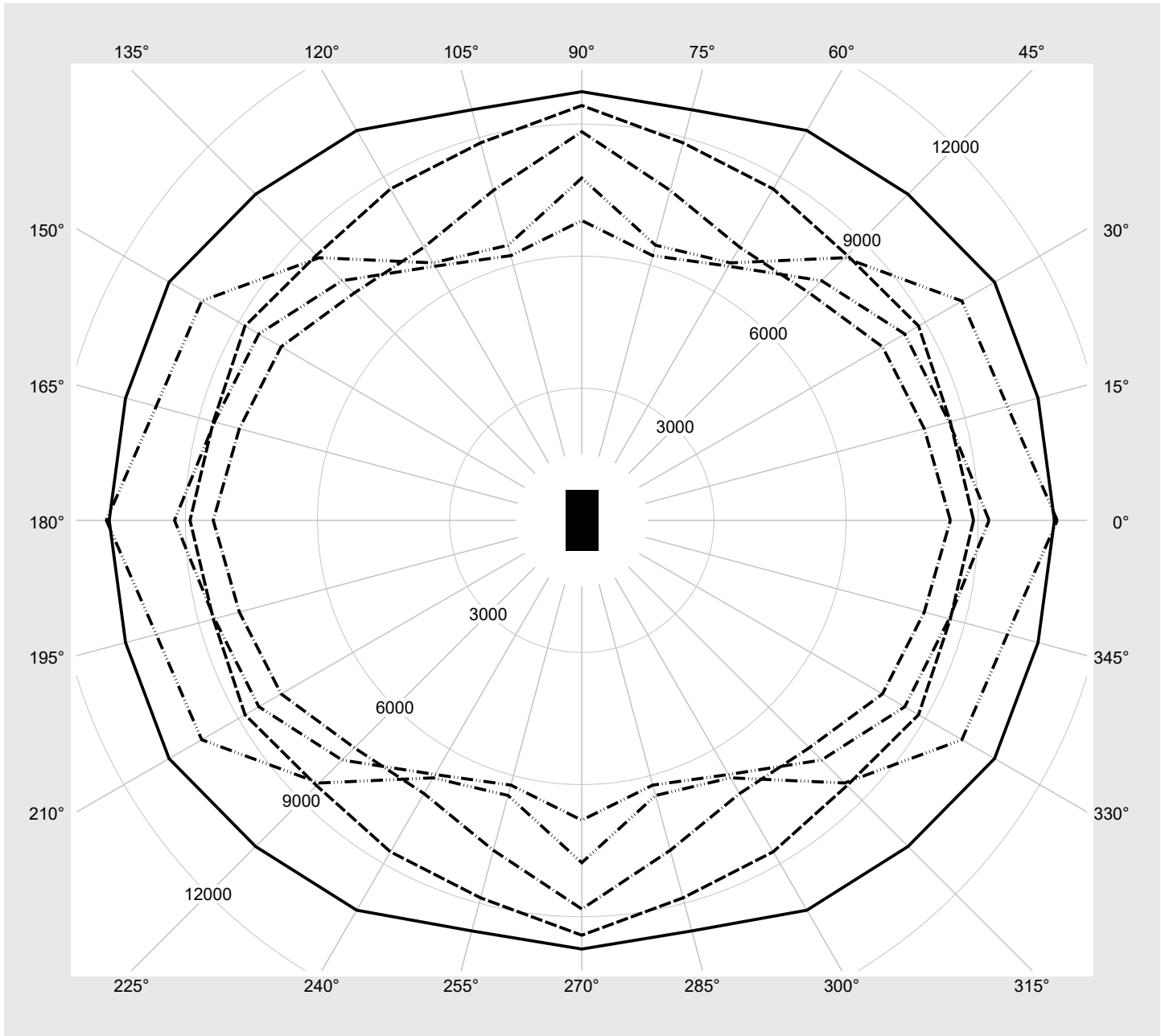
Photometric test report

Family Highbay 11	Order number: 51HLA1D24MCA + 59HL91004 EAN: 4058352322925 + 4058352341674	LP number 58926_3
------------------------------------	--	------------------------------------

Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HLA1D24MCA + 59HL91004 EAN: 4058352322925 + 4058352341674	LP number 58926_3
----------------------	--	----------------------

Dimming levels table	environmental temperature: 25°C	sITeco
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	26070	162.4
95	241	252	24767	153.6
90	227	250	23463	145.0
85	214	248	22160	136.6
80	201	245	20856	128.3
75	188	243	19553	120.1
70	175	240	18249	111.9
65	162	237	16946	103.9
60	149	234	15642	95.9
55	136	231	14339	88.1
50	124	228	13035	80.3
45	111	224	11732	72.7
40	99	219	10428	65.0
35	86	215	9125	57.5
30	74	209	7821	50.1
25	62	203	6518	42.6
20	50	195	5214	35.3
15	38	185	3911	28.1
10	26	170	2606	20.8