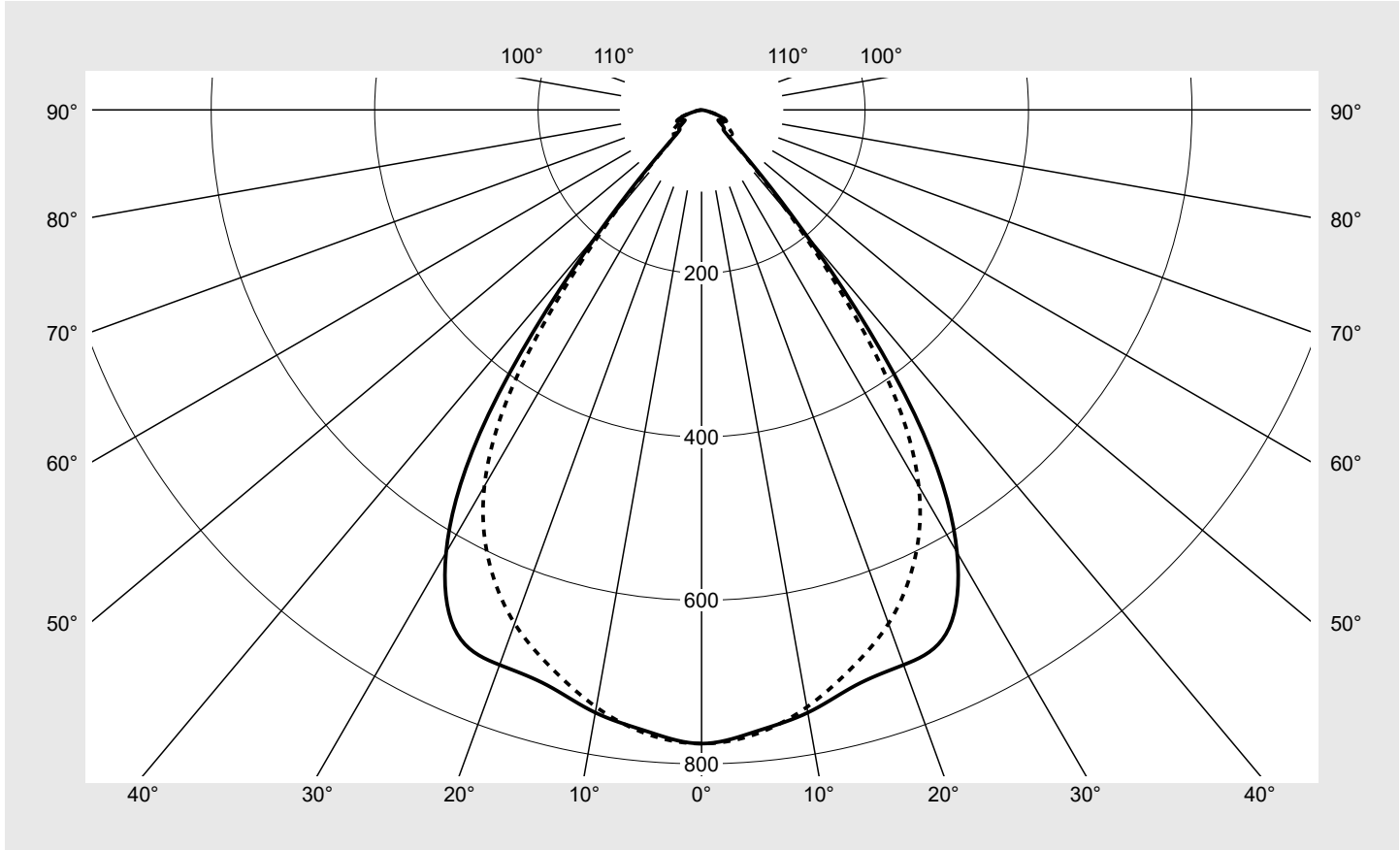


Photometric test report

Family Highbay 11	Order number: 51HL62D24HCA EAN: 4058352348932	LP number 58922_8
	Version wide distribution, UGR≤22 Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 20050 lm Power consumption = 111.2 W Luminous efficacy = 180.3 lm/W	serial documentation 21.05.2019
		

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 775 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=89 N2=96 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: 51HL62D24HCA EAN: 4058352348932	LP number 58922_8
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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°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	4.6	4.6
5°	763.3	765.5	767.8	768.1	766.5	768.2	766.4	36.6	41.3
10°	748.7	752.6	756.7	755.9	749.0	745.7	741.9	71.5	112.7
15°	728.8	736.6	748.6	748.7	732.9	716.3	707.4	104.1	216.8
20°	722.5	731.1	745.9	741.9	711.6	682.4	668.7	134.6	351.4
25°	707.4	710.1	723.4	713.1	669.4	627.0	613.5	158.4	509.9
30°	625.1	622.7	643.6	650.9	594.8	541.3	531.4	165.9	675.7
35°	454.3	465.0	515.3	546.7	478.1	404.7	385.8	148.3	824.0
40°	194.7	222.6	276.1	324.0	261.7	198.8	171.4	86.1	910.1
45°	52.4	51.4	56.0	64.9	54.8	51.5	51.3	21.3	931.5
50°	36.0	31.0	27.7	34.1	33.7	39.2	46.8	14.5	946.0
55°	27.7	25.7	21.5	23.0	24.8	33.2	42.0	12.2	958.2
60°	24.8	27.6	25.1	19.0	18.2	24.5	32.6	11.3	969.5
65°	33.0	23.0	22.5	18.8	16.0	23.0	31.5	11.2	980.7
70°	25.9	19.0	18.9	17.8	15.3	19.4	28.1	10.1	990.8
75°	12.6	8.9	10.2	12.8	12.0	13.0	13.0	6.1	996.9
80°	3.5	3.2	4.0	5.1	6.3	6.1	5.9	2.6	999.6
85°	0.3	0.3	0.4	0.5	1.1	1.3	1.4	0.4	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: 51HL62D24HCA EAN: 4058352348932	LP number 58922_8
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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	19.1	20.4	19.5	20.7	21.1	18.6	19.9	19.0	20.2	20.5
	3H	19.6	20.7	19.9	21.0	21.4	19.1	20.3	19.5	20.6	21.0
	4H	19.7	20.7	20.1	21.1	21.4	19.4	20.4	19.8	20.8	21.1
	6H	19.7	20.6	20.1	21.0	21.4	19.4	20.4	19.9	20.8	21.2
	8H	19.8	20.5	20.2	20.9	21.3	19.5	20.3	20.0	20.7	21.1
	12H	19.7	20.5	20.2	20.8	21.3	19.5	20.3	19.9	20.7	21.1
4H	2H	19.1	20.1	19.5	20.5	20.8	18.5	19.6	18.9	19.9	20.3
	3H	19.6	20.5	20.0	20.9	21.3	19.2	20.0	19.6	20.4	20.8
	4H	19.8	20.5	20.2	20.9	21.4	19.5	20.2	19.9	20.7	21.1
	6H	19.8	20.4	20.2	20.9	21.3	19.6	20.3	20.1	20.7	21.2
	8H	19.7	20.3	20.2	20.8	21.3	19.6	20.2	20.1	20.7	21.2
	12H	19.8	20.2	20.2	20.7	21.2	19.7	20.2	20.2	20.6	21.1
8H	4H	19.8	20.4	20.2	20.8	21.3	19.5	20.1	20.0	20.6	21.0
	6H	19.8	20.3	20.3	20.7	21.3	19.7	20.2	20.2	20.7	21.2
	8H	19.8	20.2	20.3	20.7	21.2	19.7	20.2	20.2	20.7	21.2
	12H	19.7	20.1	20.3	20.6	21.1	19.8	20.1	20.3	20.6	21.1
12H	4H	19.8	20.3	20.3	20.7	21.2	19.5	20.0	20.0	20.5	21.0
	6H	19.8	20.2	20.3	20.7	21.2	19.7	20.1	20.2	20.6	21.1
	8H	19.8	20.1	20.3	20.6	21.1	19.8	20.1	20.3	20.6	21.1

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 600 B = 320
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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°		7734.7	7593.8	8270.9	9579.1	8096.5	7610.7	7570.8	
50°		5848.7	5041.4	4507.9	5545.1	5479.6	6365.2	7595.3	
55°		5039.9	4676.7	3912.0	4196.4	4508.2	6039.9	7646.5	
60°		5179.0	5774.2	5241.0	3976.0	3797.6	5120.7	6803.4	
65°		8158.4	5672.8	5565.1	4653.3	3943.4	5674.5	7790.9	
70°		7919.2	5791.7	5777.3	5442.4	4678.2	5935.5	8577.2	
75°		5075.7	3570.8	4105.0	5166.9	4840.1	5237.5	5249.2	
80°		2104.8	1949.0	2422.3	3063.4	3799.5	3643.7	3543.3	
85°		369.0	363.0	425.3	619.5	1325.2	1537.2	1685.8	

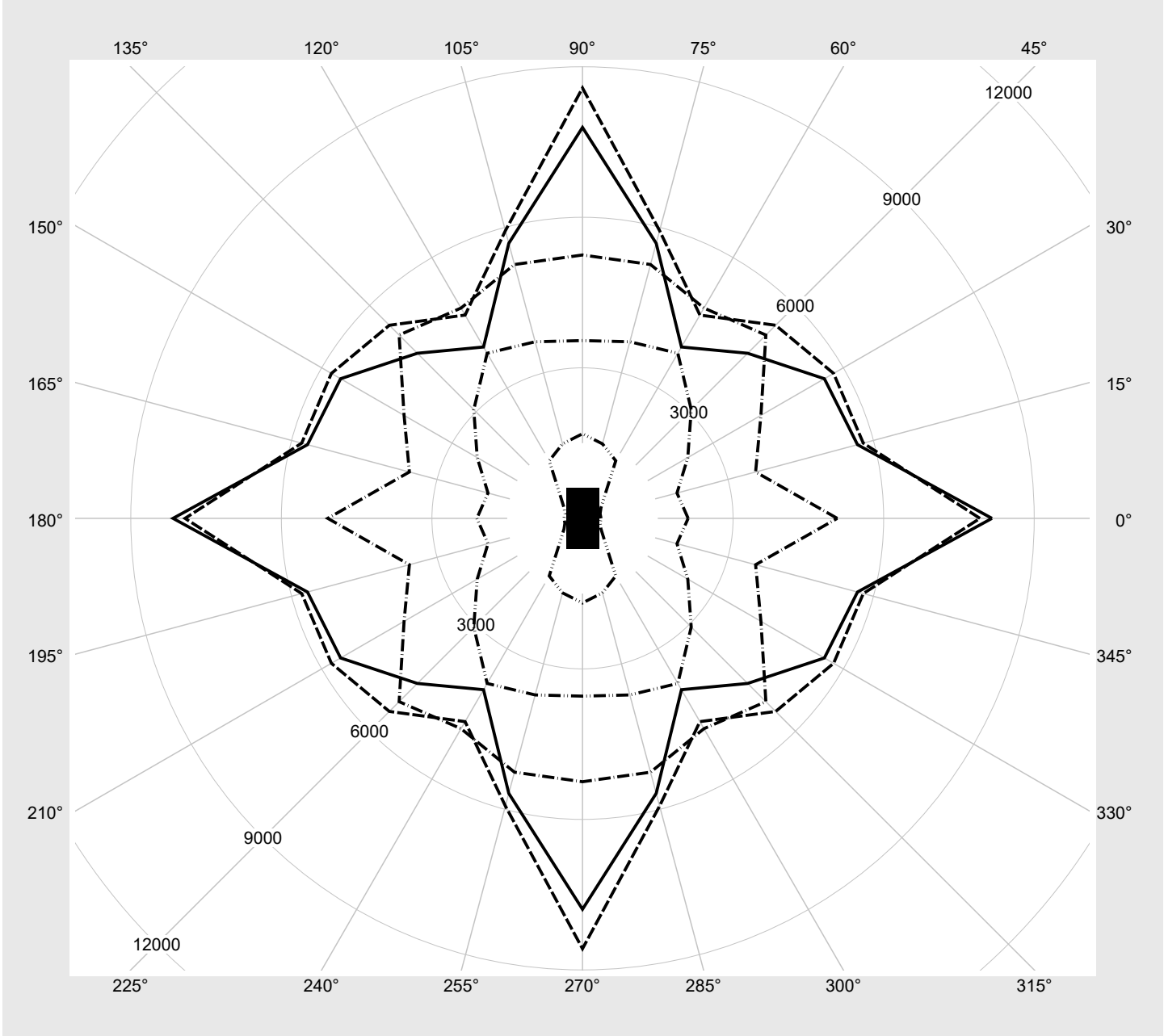
Photometric test report

Family Highbay 11	Order number: 51HL62D24HCA EAN: 4058352348932	LP number 58922_8
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



Photometric test report

Family Highbay 11	Order number: 51HL62D24HCA EAN: 4058352348932	LP number 58922_8
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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	20050	111.2
95	241	252	19048	105.5
90	228	250	18045	100.0
85	215	248	17043	94.3
80	202	246	16040	89.0
75	189	243	15038	83.5
70	176	241	14035	78.2
65	163	238	13033	73.0
60	151	235	12030	67.5
55	138	232	11028	62.3
50	125	228	10025	57.1
45	113	225	9023	51.9
40	100	220	8020	47.0
35	88	215	7018	41.5
30	76	210	6015	36.5
25	63	204	5013	31.6
20	51	196	4010	26.6
15	39	186	3008	21.5
10	27	172	2004	16.4