

Photometric test report

Family
Highbay 11

Order number: 51HLA1D24NLA
EAN: 4058352361443

LP number
58918_13



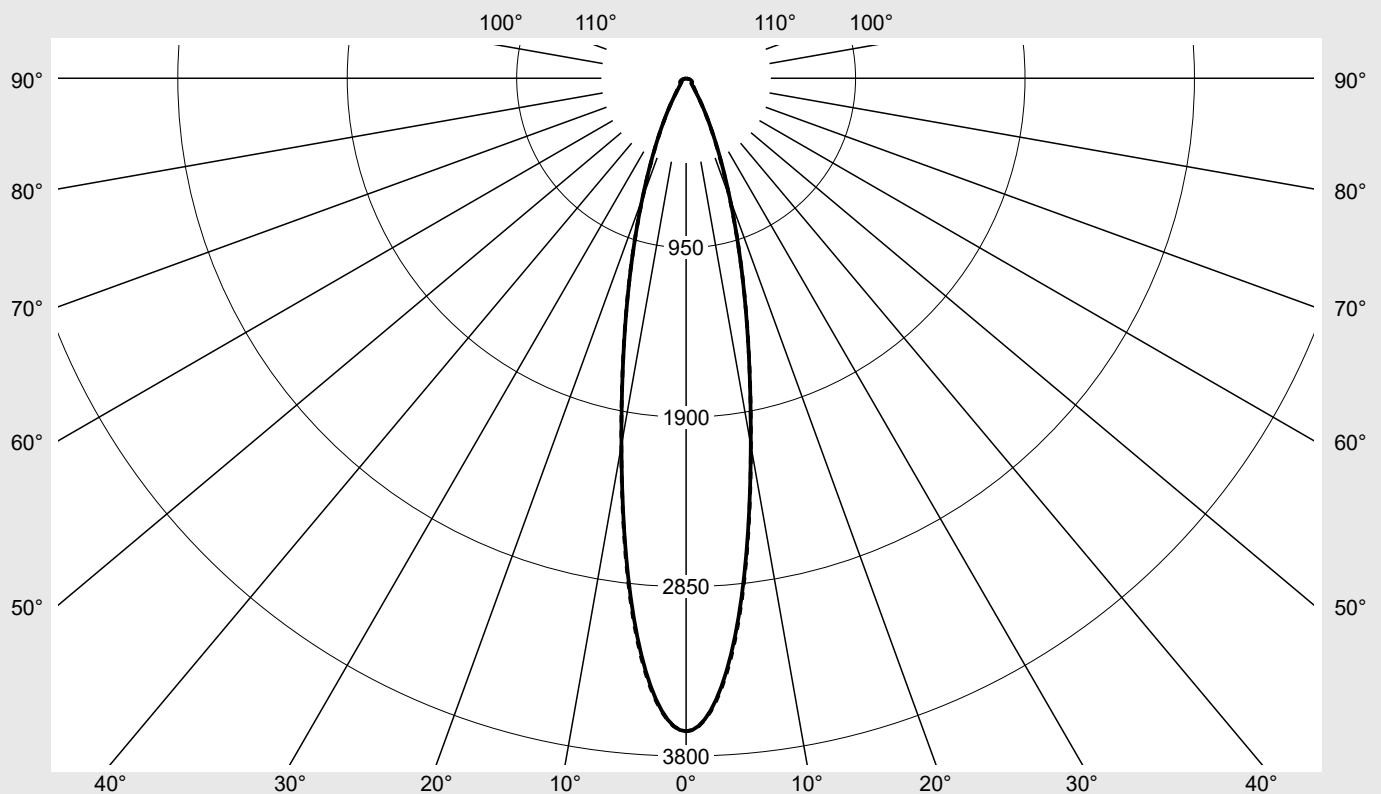
Version narrow distribution, UGR≤22
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI
Rated values Net luminous flux = 32370 lm
 Power consumption = 189.6 W
 Luminous efficacy = 170.7 lm/W

serial
documentation
31.03.2020

siteco

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

Imax: 3662 cd/klm



Classifications

DIN 5040 A 7 0
 CIE N1=88 N2=95 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: 51HLA1D24NLA EAN: 4058352361443	LP number 58918_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°	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	3661.5	21.9	21.9
5°	3142.6	3138.8	3148.7	3152.8	3150.8	3162.1	3157.3	150.5	172.4
10°	2088.2	2082.4	2095.8	2102.6	2097.1	2098.1	2092.4	199.3	371.8
15°	1265.5	1263.0	1272.3	1276.0	1271.9	1272.7	1269.2	180.2	552.0
20°	717.4	718.4	730.4	738.2	732.8	722.5	712.3	136.1	688.1
25°	380.2	383.6	397.1	405.5	395.8	382.2	373.9	90.4	778.5
30°	189.9	192.8	203.8	209.2	205.7	196.2	189.8	54.7	833.2
35°	93.4	93.2	98.1	106.1	108.6	103.6	99.4	31.8	865.0
40°	56.8	57.1	60.0	67.1	71.1	71.1	70.3	22.9	887.9
45°	41.2	40.8	44.9	50.9	50.2	47.6	46.5	18.0	905.9
50°	41.3	41.9	46.2	48.9	40.8	33.1	32.5	17.3	923.2
55°	41.3	42.1	45.2	43.2	36.0	29.8	29.9	17.4	940.6
60°	39.0	39.2	40.5	39.6	33.4	27.4	27.5	16.9	957.4
65°	33.8	33.6	34.5	34.8	29.3	24.3	24.5	15.4	972.8
70°	26.5	26.3	27.0	27.6	23.9	20.0	20.0	12.7	985.5
75°	15.9	16.7	18.0	19.3	17.3	15.5	15.6	9.0	994.6
80°	6.4	6.9	7.9	9.2	9.9	9.6	10.9	4.7	999.3
85°	0.5	0.5	0.6	1.0	1.8	2.4	3.4	0.7	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: 51HLA1D24NLA EAN: 4058352361443	LP number 58918_13
----------------------	--	-----------------------

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	17.2	18.3	17.6	18.7	19.0	16.0	17.1	16.3	17.4	17.7
	3H	19.1	20.1	19.5	20.4	20.8	17.6	18.5	17.9	18.9	19.2
	4H	19.7	20.6	20.1	20.9	21.3	18.3	19.2	18.7	19.5	19.9
	6H	19.9	20.7	20.3	21.1	21.5	18.9	19.8	19.3	20.1	20.5
	8H	20.0	20.7	20.4	21.1	21.5	19.3	19.9	19.7	20.3	20.7
	12H	20.0	20.6	20.4	21.0	21.4	19.3	20.0	19.7	20.4	20.8
4H	2H	18.0	18.9	18.4	19.3	19.7	17.1	18.0	17.5	18.4	18.8
	3H	20.0	20.8	20.4	21.2	21.6	18.8	19.6	19.3	20.0	20.4
	4H	20.7	21.4	21.1	21.8	22.2	19.6	20.3	20.1	20.7	21.2
	6H	21.0	21.5	21.4	22.0	22.4	20.3	20.9	20.8	21.3	21.8
	8H	21.0	21.5	21.5	22.0	22.4	20.6	21.1	21.0	21.5	22.0
	12H	21.0	21.4	21.4	21.9	22.4	20.6	21.1	21.1	21.5	22.0
8H	4H	21.0	21.5	21.5	21.9	22.4	20.1	20.6	20.6	21.1	21.5
	6H	21.4	21.7	21.9	22.2	22.7	20.9	21.3	21.4	21.8	22.3
	8H	21.3	21.7	21.8	22.2	22.7	21.1	21.5	21.6	22.0	22.5
	12H	21.3	21.6	21.8	22.1	22.7	21.2	21.5	21.7	22.0	22.5
12H	4H	21.0	21.4	21.5	21.9	22.4	20.1	20.5	20.6	21.0	21.5
	6H	21.3	21.7	21.8	22.2	22.7	20.9	21.2	21.4	21.7	22.2
	8H	21.3	21.7	21.9	22.2	22.7	21.1	21.4	21.6	21.9	22.5

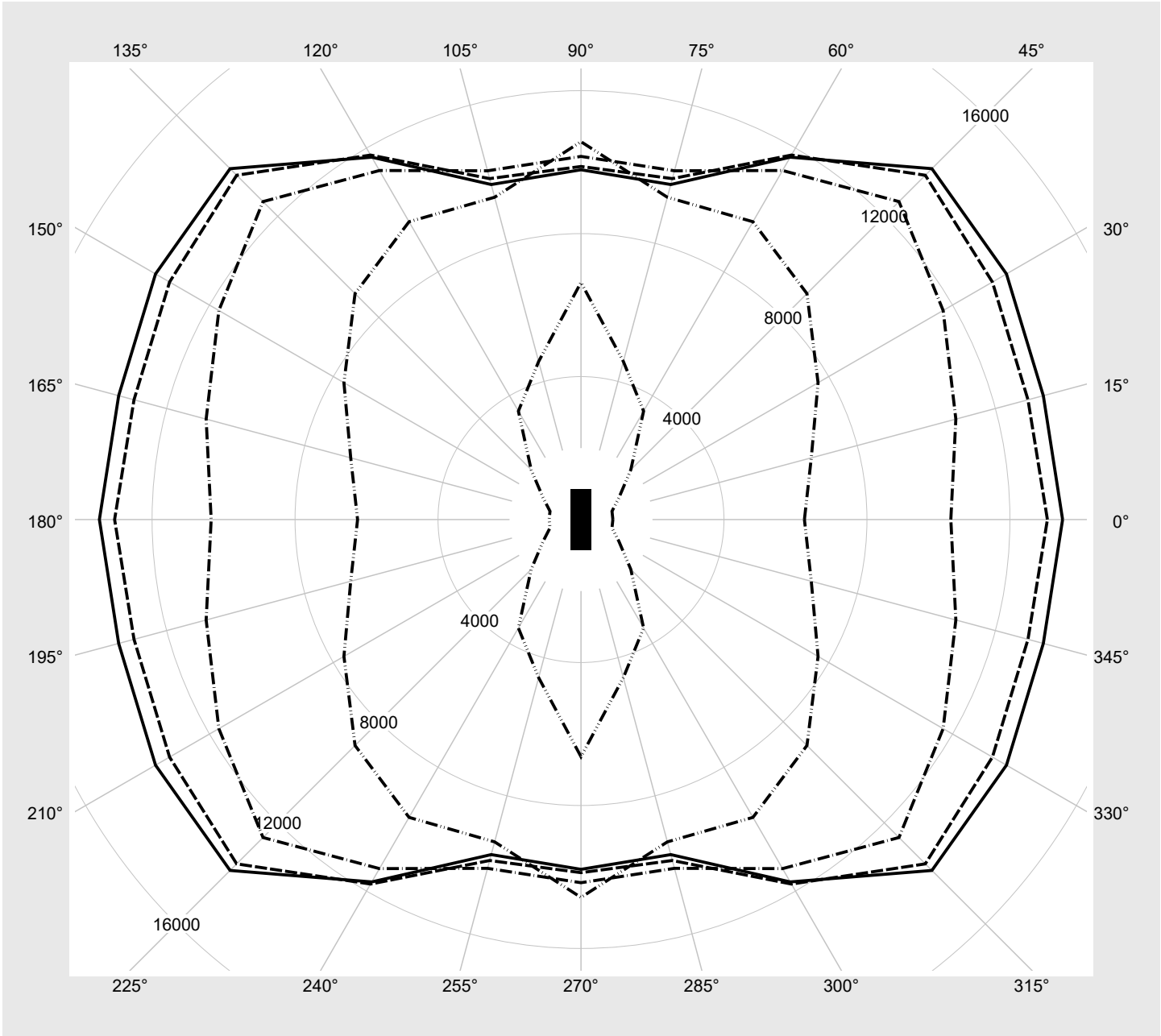
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 600 B = 320
-----------------	---------------------------------	-------------------------------	--------------------

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°	9815.1	9719.7	10713.3	12134.8	11972.9	11352.3	11085.7		
50°	10843.4	10999.5	12107.6	12829.4	10693.6	8689.3	8522.4		
55°	12149.2	12372.9	13294.9	12685.6	10571.3	8753.9	8801.3		
60°	13154.7	13216.7	13642.6	13359.4	11270.5	9239.6	9280.4		
65°	13473.8	13390.8	13744.6	13883.8	11706.9	9704.7	9786.5		
70°	13048.5	12946.4	13291.0	13623.2	11775.2	9875.5	9878.9		
75°	10346.8	10856.8	11699.1	12581.1	11277.0	10102.5	10160.5		
80°	6250.6	6670.0	7658.4	8940.0	9621.5	9336.1	10572.1		
85°	891.8	897.6	1226.4	1971.1	3503.2	4578.7	6635.0		

Photometric test report

Family Highbay 11	Order number: 51HLA1D24NLA EAN: 4058352361443	LP number 58918_13
-----------------------------	--	------------------------------

Luminance values in cd/m²
γ 65°
γ 70°
γ 75°
γ 80°
γ 85°
siteco



Photometric test report

Family Highbay 11	Order number: 51HLA1D24NLA EAN: 4058352361443	LP number 58918_13
----------------------	--	-----------------------

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	32370	189.7
95	240	252	30710	179.0
90	227	250	29150	169.1
85	213	248	27458	158.4
80	200	245	25871	148.5
75	187	243	24268	139.0
70	174	240	22655	129.4
65	161	237	21026	119.8
60	148	234	19387	110.4
55	136	231	17851	101.5
50	123	227	16184	92.1
45	110	223	14502	82.8
40	98	219	12938	74.2
35	86	214	11361	65.6
30	74	209	9769	57.1
25	61	202	8035	48.1
20	49	194	6423	39.6
15	37	183	4798	31.2
10	26	171	3291	23.3
5	14	148	1644	14.9
1	4	102	261	7.9