Photometric test report

Family
Highbay 31

Order number: 51HC42DA4JMB
EAN: 4058352700273

Version	primary light control with lens, PC, clear, wide distribution
Lamps	LED 4000 K | CRI ≥ 80
Controlgear	ECG-DALI
Rated values	Net luminous flux = 20000 lm Power consumption = 134.0 W Luminous efficacy = 149.3 lm/W

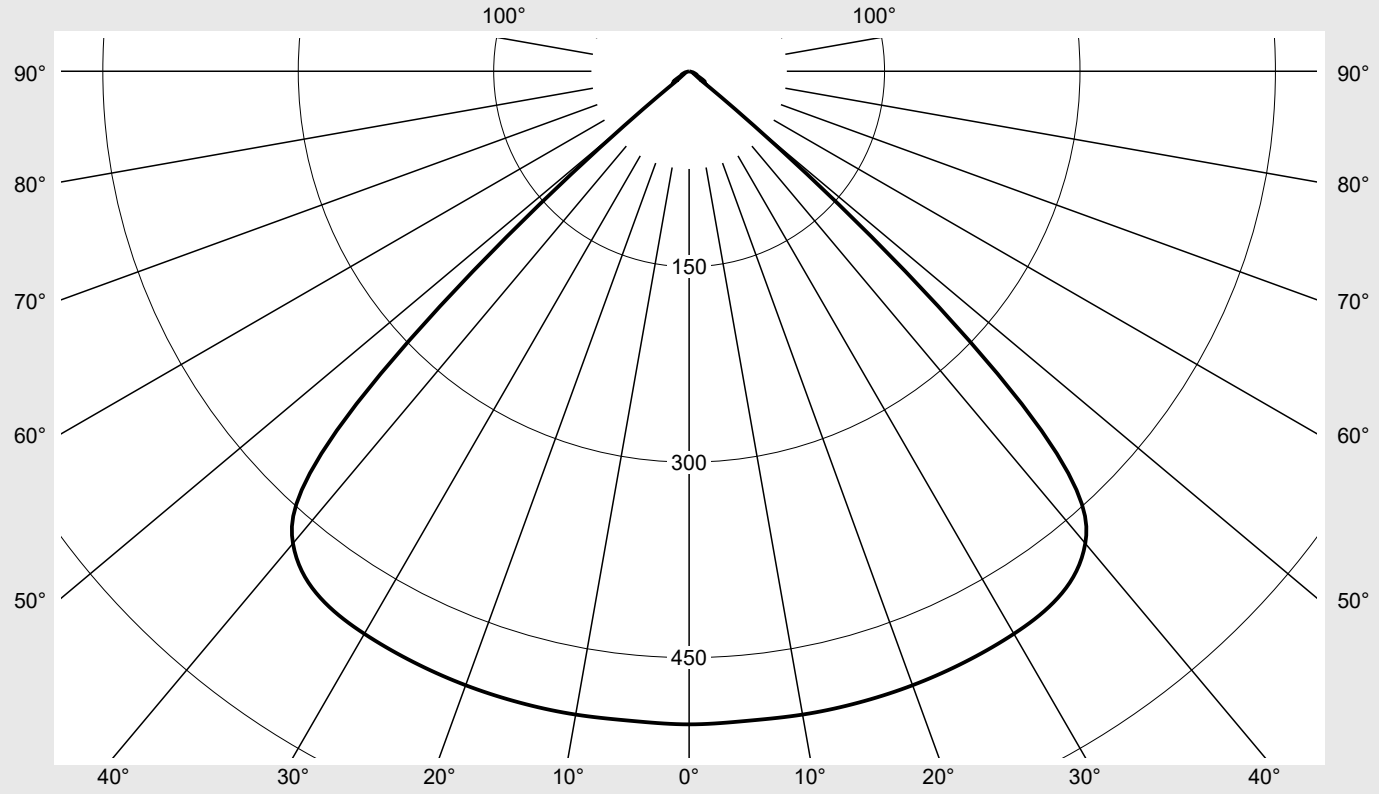
LP number
59124_6

serial documentation
16.01.2023

siteco

Luminous intensity in cd/klm C180-0

Imax: 502 cd/klm



Classifications

DIN 5040	A 6 0
CIE	N1=78 N2=99 N3=100 N4=100 N5=100

Luminaire light output ratios

ηLB	100.0%
ϕ_u	100.0%
ϕ_o	0.0%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

Family	Order number: 51HC42DA4JMB	LP number
Highbay 31	EAN: 4058352700273	59124_6

siteco

Table of values for luminous intensities

Maximum luminous intensity

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0°	501.3	3.0	3.0
5°	500.5	23.9	26.9
10°	501.4	47.7	74.6
15°	501.7	71.2	145.8
20°	501.5	94.0	239.8
25°	500.4	115.9	355.7
30°	498.6	136.6	492.4
35°	493.4	155.1	647.5
40°	473.0	166.7	814.2
45°	361.1	140.0	954.1
50°	65.2	27.4	981.5
55°	13.3	6.0	987.5
60°	9.1	4.3	991.8
65°	6.5	3.2	995.1
70°	4.5	2.3	997.4
75°	2.9	1.5	998.9
80°	1.5	0.8	999.7
85°	0.5	0.3	1000.0
90°	0.0	0.0	1000.0
95°	0.0	0.0	1000.0
100°	0.0	0.0	1000.0
105°	0.0	0.0	1000.0
110°	0.0	0.0	1000.0
115°	0.0	0.0	1000.0
120°	0.0	0.0	1000.0
125°	0.0	0.0	1000.0
130°	0.0	0.0	1000.0
135°	0.0	0.0	1000.0
140°	0.0	0.0	1000.0
145°	0.0	0.0	1000.0
150°	0.0	0.0	1000.0
155°	0.0	0.0	1000.0
160°	0.0	0.0	1000.0
165°	0.0	0.0	1000.0
170°	0.0	0.0	1000.0
175°	0.0	0.0	1000.0
180°	0.0	0.0	1000.0

Photometric test report

Family	Order number: 51HC42DA4JMB	LP number
Highbay 31	EAN: 4058352700273	59124_6

siteco

UGR-Table

Standard room

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	24.2	25.6	24.6	25.9	26.2	24.2	25.6	24.6	25.9	26.2
	3H	24.1	25.3	24.5	25.6	26.0	24.1	25.3	24.5	25.6	26.0
	4H	24.0	25.2	24.4	25.5	25.9	24.0	25.2	24.4	25.5	25.9
	6H	24.0	25.0	24.4	25.4	25.8	24.0	25.0	24.4	25.4	25.8
	8H	24.0	24.9	24.4	25.3	25.7	24.0	24.9	24.4	25.3	25.7
	12H	24.0	24.8	24.4	25.2	25.6	24.0	24.8	24.4	25.2	25.6
4H	2H	24.0	25.1	24.4	25.5	25.9	24.0	25.1	24.4	25.5	25.9
	3H	23.9	24.8	24.3	25.2	25.6	23.9	24.8	24.3	25.2	25.6
	4H	23.8	24.6	24.3	25.1	25.5	23.8	24.6	24.3	25.1	25.5
	6H	23.8	24.5	24.2	24.9	25.4	23.8	24.5	24.2	24.9	25.4
	8H	23.7	24.4	24.2	24.8	25.3	23.7	24.4	24.2	24.8	25.3
	12H	23.7	24.2	24.2	24.7	25.2	23.7	24.2	24.2	24.7	25.2
8H	4H	23.7	24.4	24.2	24.8	25.3	23.7	24.4	24.2	24.8	25.3
	6H	23.7	24.2	24.2	24.6	25.1	23.7	24.2	24.2	24.6	25.1
	8H	23.6	24.0	24.1	24.5	25.1	23.6	24.0	24.1	24.5	25.1
	12H	23.6	23.9	24.1	24.4	25.0	23.6	23.9	24.1	24.4	25.0
12H	4H	23.7	24.2	24.2	24.7	25.2	23.7	24.2	24.2	24.7	25.2
	6H	23.6	24.0	24.1	24.5	25.1	23.6	24.0	24.1	24.5	25.1
	8H	23.6	23.9	24.1	24.4	25.0	23.6	23.9	24.1	24.4	25.0

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: D = 376

C-planes	0°
γ	Luminance in cd/m²
45°	91989.7
50°	18279.2
55°	4182.3
60°	3268.5
65°	2782.3
70°	2378.3
75°	2009.2
80°	1544.5
85°	1039.5

Photometric test report

Family	Order number: 51HC42DA4JMB	LP number
Highbay 31	EAN: 4058352700273	59124_6

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

siteco