

Photometric test report

Family
Highbay 31

Order number: 51HC42DA4JMB + 59HC91001
EAN: 4058352700273 + 4058352463192

LP number
59130_4

Version

primary light control with lens, PC, clear,
prismatic reflector, PC, wide distribution

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 18950 lm

Power consumption = 134.0 W

Luminous efficacy = 141.4 lm/W

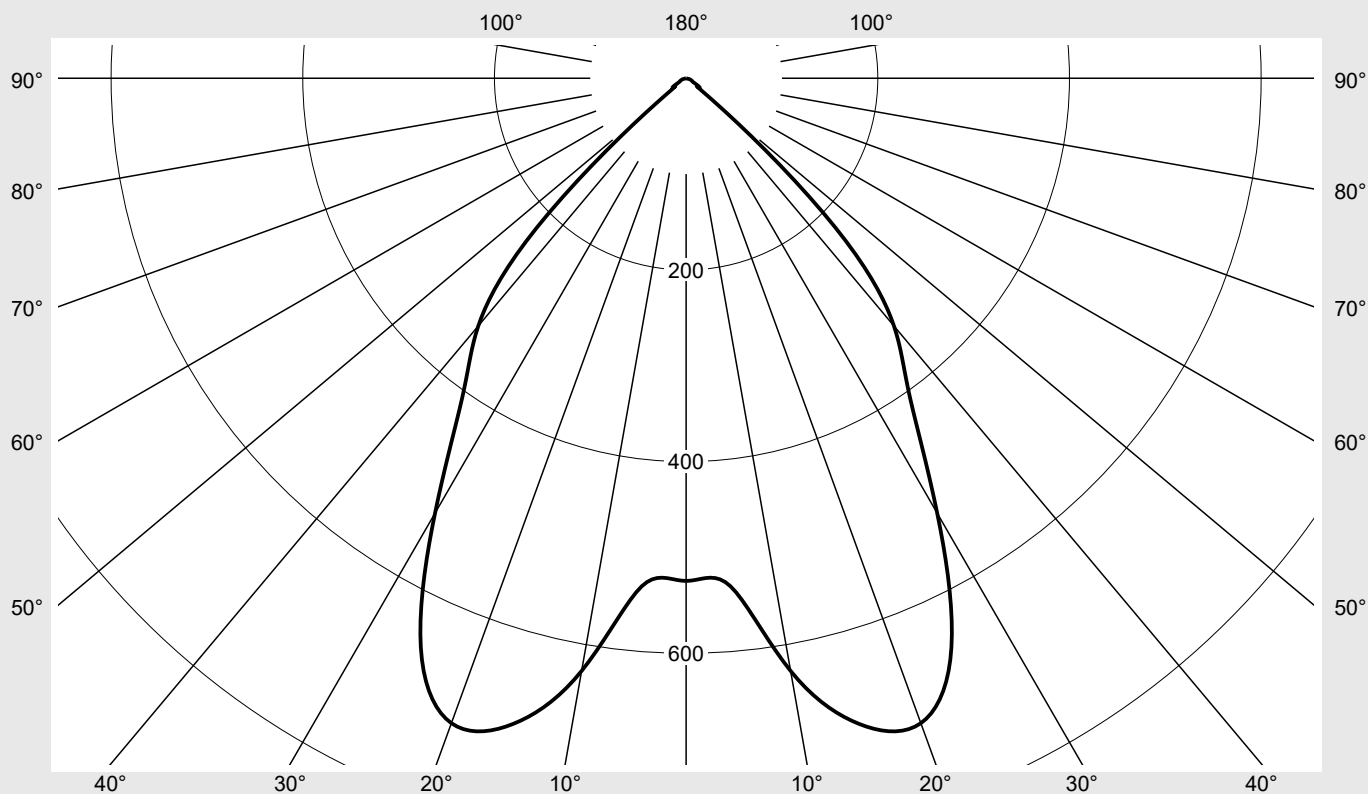
serial
documentation
16.01.2023

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Luminous intensity in cd/klm

C180-0

I_{max}: 716 cd/klm



Classifications

DIN 5040 A 6 2
CIE N1=85 N2=99 N3=100
N4=99 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 99.0%
 ϕ_o 1.0%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity

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C- planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	524.5	3.1	3.1
5°	532.2	25.4	28.6
10°	628.0	59.8	88.3
15°	697.5	98.9	187.3
20°	716.1	134.3	321.5
25°	655.1	151.7	473.3
30°	524.0	143.6	616.9
35°	407.5	128.1	745.0
40°	337.4	118.9	863.9
45°	219.9	85.2	949.1
50°	41.9	17.6	966.7
55°	16.7	7.5	974.2
60°	10.1	4.8	979.0
65°	6.9	3.4	982.4
70°	5.2	2.7	985.1
75°	3.9	2.1	987.2
80°	2.6	1.4	988.6
85°	1.8	1.0	989.6
90°	1.2	0.7	990.2
95°	1.2	0.7	990.9
100°	1.3	0.7	991.6
105°	1.5	0.8	992.4
110°	1.4	0.7	993.1
115°	1.1	0.5	993.7
120°	1.1	0.5	994.2
125°	1.2	0.5	994.7
130°	1.4	0.6	995.3
135°	1.8	0.7	996.0
140°	2.2	0.8	996.8
145°	2.2	0.7	997.5
150°	2.3	0.6	998.1
155°	2.5	0.6	998.7
160°	2.7	0.5	999.2
165°	2.8	0.4	999.6
170°	2.7	0.3	999.9
175°	2.5	0.1	1000.0
180°	2.3	0.0	1000.0

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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
Reflection factor of walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3
Reflection factor of floor		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)			
2H	x									
	y									
	2H	18.7	20.0	19.0	20.3	20.6	18.7	20.0	19.0	20.3
	3H	18.5	19.7	18.9	20.0	20.4	18.5	19.7	18.9	20.0
	4H	18.5	19.5	18.9	19.9	20.3	18.5	19.5	18.9	19.9
	6H	18.4	19.4	18.8	19.7	20.1	18.4	19.4	18.8	19.7
4H	8H	18.5	19.3	18.9	19.7	20.1	18.5	19.3	18.9	19.7
	12H	18.4	19.2	18.9	19.6	20.0	18.4	19.2	18.9	19.6
	2H	18.5	19.5	18.9	19.9	20.2	18.5	19.5	18.9	19.9
	3H	18.3	19.2	18.8	19.6	20.0	18.3	19.2	18.8	19.6
	4H	18.3	19.0	18.7	19.4	19.9	18.3	19.0	18.7	19.4
	6H	18.2	18.8	18.6	19.3	19.7	18.2	18.8	18.6	19.3
8H	8H	18.2	18.7	18.6	19.2	19.7	18.2	18.7	18.6	19.2
	12H	18.2	18.6	18.6	19.1	19.6	18.2	18.6	18.6	19.1
	4H	18.2	18.7	18.6	19.2	19.7	18.2	18.7	18.6	19.2
	6H	18.1	18.5	18.6	19.0	19.5	18.1	18.5	18.6	19.0
	8H	18.0	18.4	18.5	18.9	19.5	18.0	18.4	18.5	18.9
	12H	18.0	18.3	18.5	18.8	19.4	18.0	18.3	18.5	18.8
12H	4H	18.1	18.6	18.6	19.1	19.6	18.1	18.6	18.6	19.1
	6H	18.0	18.4	18.6	18.9	19.4	18.0	18.4	18.6	18.9
	8H	18.0	18.3	18.5	18.8	19.4	18.0	18.3	18.5	18.8
	2H	18.7	20.0	19.0	20.3	20.6	18.7	20.0	19.0	20.3
	3H	18.5	19.7	18.9	20.0	20.4	18.5	19.7	18.9	20.0
	4H	18.5	19.5	18.9	19.9	20.3	18.5	19.5	18.9	19.9

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 480	H(C0) = 227 H(C90) = 227	H(C180) = 227 H(C270) = 227
C-planes	0°					
γ	Luminance in cd/m²					
45°	20331.5					
50°	3974.4					
55°	1637.1					
60°	1031.8					
65°	750.6					
70°	600.5					
75°	483.1					
80°	357.6					
85°	275.1					

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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