

Photometric test report

Family
Highbay 41

Order number: 51HD3XMAMH0A
EAN: 4069025768834

LP number
60434_1

Version cover panel, PC, clear, adjustable light distribution, adjustable color temperature: 4000K | 5000K | 6500K

Lamps LED 4000 K | CRI ≥ 80

Controlgear ECG Multilumen

Setting individual position: medium beam, Lumen Max.

Rated values Net luminous flux = 16430 lm
Power consumption = 106.0 W
Luminous efficacy = 155 lm/W

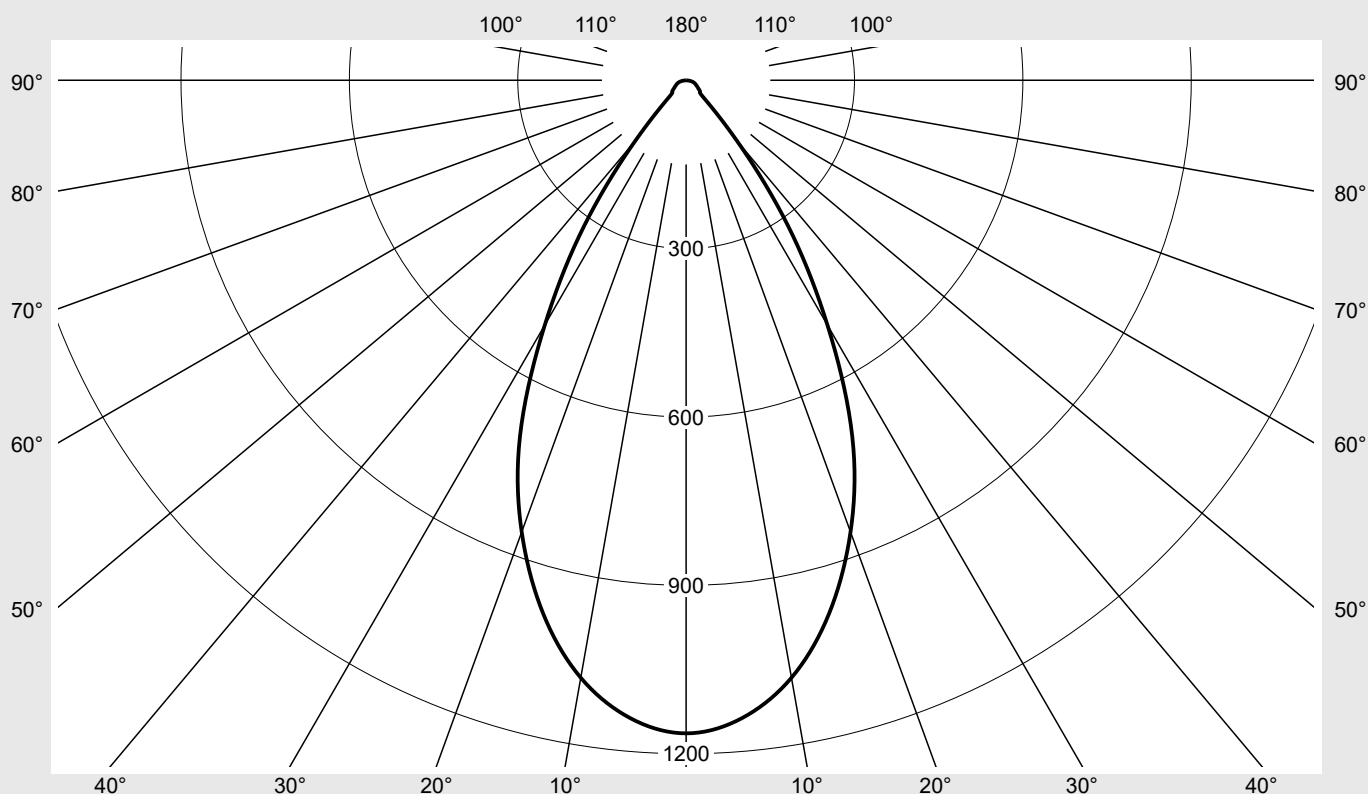
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documentation
30.07.2026

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Luminous intensity in cd/klm

C180-0

Imax: 1164 cd/klm



Classifications

DIN 5040 A 7 0
CIE N1=90 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

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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°	1163.6	7.0	7.0
5°	1140.9	54.5	61.5
10°	1081.0	102.9	164.4
15°	983.9	139.6	303.9
20°	856.5	160.6	464.5
25°	700.6	162.3	626.8
30°	503.6	138.0	764.8
35°	316.6	99.5	864.4
40°	140.8	49.6	914.0
45°	46.0	17.8	931.8
50°	32.4	13.6	945.4
55°	27.5	12.4	957.8
60°	23.0	10.9	968.7
65°	19.5	9.7	978.4
70°	16.6	8.5	986.9
75°	13.0	6.9	993.8
80°	8.0	4.3	998.1
85°	3.2	1.7	999.8
90°	0.3	0.2	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

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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	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	20.7	21.9	21.1	22.3	22.6	20.7	21.9	21.1	22.3	22.6
	3H	21.2	22.3	21.6	22.6	23.0	21.2	22.3	21.6	22.6	23.0
	4H	21.5	22.5	21.9	22.9	23.3	21.5	22.5	21.9	22.9	23.3
	6H	21.8	22.7	22.3	23.1	23.5	21.8	22.7	22.3	23.1	23.5
	8H	22.1	22.8	22.5	23.2	23.6	22.1	22.8	22.5	23.2	23.6
	12H	22.1	22.8	22.5	23.2	23.6	22.1	22.8	22.5	23.2	23.6
4H	2H	20.8	21.8	21.2	22.1	22.5	20.8	21.8	21.2	22.1	22.5
	3H	21.5	22.3	21.9	22.7	23.1	21.5	22.3	21.9	22.7	23.1
	4H	22.0	22.7	22.4	23.1	23.5	22.0	22.7	22.4	23.1	23.5
	6H	22.4	23.0	22.9	23.4	23.9	22.4	23.0	22.9	23.4	23.9
	8H	22.5	23.1	23.0	23.5	24.0	22.5	23.1	23.0	23.5	24.0
	12H	22.7	23.1	23.2	23.6	24.1	22.7	23.1	23.2	23.6	24.1
8H	4H	22.1	22.7	22.6	23.1	23.6	22.1	22.7	22.6	23.1	23.6
	6H	22.7	23.1	23.2	23.6	24.1	22.7	23.1	23.2	23.6	24.1
	8H	22.9	23.3	23.4	23.7	24.3	22.9	23.3	23.4	23.7	24.3
	12H	23.0	23.3	23.5	23.8	24.4	23.0	23.3	23.5	23.8	24.4
12H	4H	22.2	22.6	22.7	23.1	23.6	22.2	22.6	22.7	23.1	23.6
	6H	22.7	23.1	23.2	23.6	24.1	22.7	23.1	23.2	23.6	24.1
	8H	22.9	23.2	23.5	23.8	24.3	22.9	23.2	23.5	23.8	24.3

Luminance table		Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 252
C-planes		0°		
γ	Luminance in cd/m²			
45°	21437.8			
50°	16594.7			
55°	15801.3			
60°	15136.1			
65°	15201.2			
70°	15968.1			
75°	16594.4			
80°	15138.4			
85°	11989.0			

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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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