Photometric test report

Family
Highbay 41



Order number: 51HD3XMAMH0A
EAN: 4069025768834

LP number
60291_1

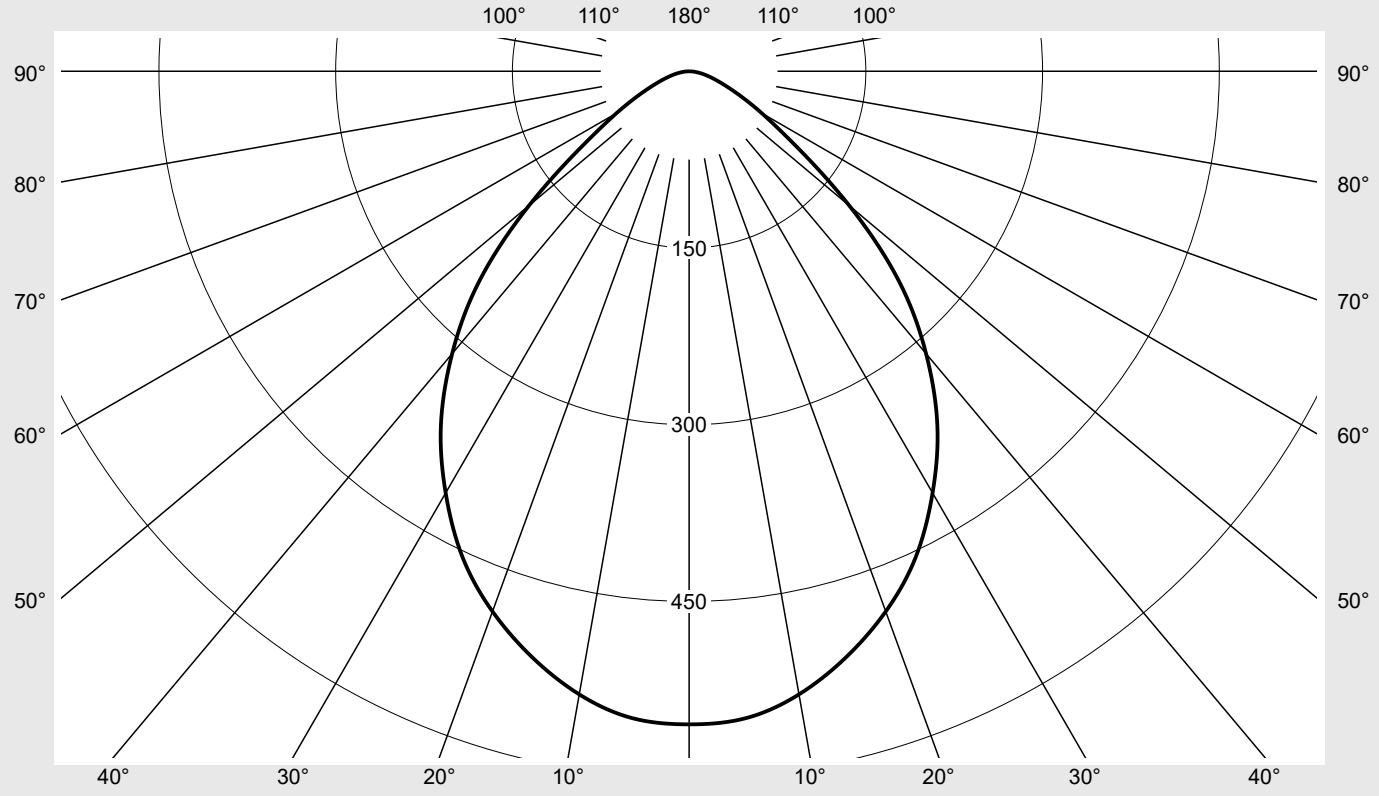
serial documentation
30.07.2026

Version	cover panel, PC, clear, adjustable light distribution, adjustable color temperature: 4000K | 5000K | 6500K
Lamps	LED 4000 K | CRI ≥ 80
Controlgear	ECG Multilumen
Setting	factory setting: wide distribution, Lumen Max.
Rated values	Net luminous flux = 18020 lm Power consumption = 106.0 W Luminous efficacy = 170 lm/W

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Luminous intensity in cd/klm C180-0

Imax: 554 cd/klm



Classifications

DIN 5040	A 5 0
CIE	N1=67 N2=93 N3=99 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

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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°	554.3	3.3	3.3
5°	551.2	26.3	29.6
10°	537.0	51.1	80.8
15°	514.9	73.0	153.8
20°	488.0	91.5	245.3
25°	455.1	105.4	350.7
30°	413.3	113.3	464.0
35°	367.4	115.5	579.5
40°	312.9	110.2	689.7
45°	251.8	97.6	787.3
50°	177.5	74.5	861.9
55°	110.8	49.7	911.6
60°	71.2	33.8	945.4
65°	45.4	22.6	968.0
70°	28.6	14.8	982.7
75°	17.9	9.5	992.2
80°	10.1	5.5	997.7
85°	3.9	2.1	999.8
90°	0.4	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

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	26.8	28.3	27.1	28.6	28.9	26.8	28.3	27.1	28.6	28.9
	3H	27.1	28.4	27.5	28.7	29.1	27.1	28.4	27.5	28.7	29.1
	4H	27.2	28.4	27.6	28.8	29.1	27.2	28.4	27.6	28.8	29.1
	6H	27.3	28.4	27.7	28.7	29.1	27.3	28.4	27.7	28.7	29.1
	8H	27.3	28.3	27.8	28.7	29.1	27.3	28.3	27.8	28.7	29.1
	12H	27.3	28.3	27.8	28.7	29.1	27.3	28.3	27.8	28.7	29.1
4H	2H	27.0	28.2	27.4	28.5	28.9	27.0	28.2	27.4	28.5	28.9
	3H	27.4	28.4	27.8	28.8	29.2	27.4	28.4	27.8	28.8	29.2
	4H	27.5	28.4	28.0	28.8	29.3	27.5	28.4	28.0	28.8	29.3
	6H	27.6	28.4	28.1	28.9	29.3	27.6	28.4	28.1	28.9	29.3
	8H	27.7	28.4	28.2	28.8	29.3	27.7	28.4	28.2	28.8	29.3
	12H	27.7	28.3	28.2	28.8	29.3	27.7	28.3	28.2	28.8	29.3
8H	4H	27.6	28.3	28.0	28.7	29.2	27.6	28.3	28.0	28.7	29.2
	6H	27.7	28.3	28.2	28.8	29.3	27.7	28.3	28.2	28.8	29.3
	8H	27.8	28.3	28.3	28.8	29.3	27.8	28.3	28.3	28.8	29.3
	12H	27.8	28.2	28.3	28.7	29.3	27.8	28.2	28.3	28.7	29.3
12H	4H	27.6	28.2	28.1	28.6	29.1	27.6	28.2	28.1	28.6	29.1
	6H	27.7	28.2	28.2	28.7	29.2	27.7	28.2	28.2	28.7	29.2
	8H	27.8	28.2	28.3	28.7	29.3	27.8	28.2	28.3	28.7	29.3

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: D = 252

C-planes	0°
γ	Luminance in cd/m²
45°	128674.2
50°	99778.3
55°	69772.9
60°	51443.6
65°	38838.1
70°	30259.4
75°	25037.6
80°	21053.8
85°	16262.5

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

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