

Photometric test report

Family
Highbay 41

Order number: 51HP32MB4MMA
EAN: 4058352475652

LP number
59149_4



Version cover panel, PC, clear, extremely wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 28000 lm
Power consumption = 175.0 W
Luminous efficacy = 160 lm/W

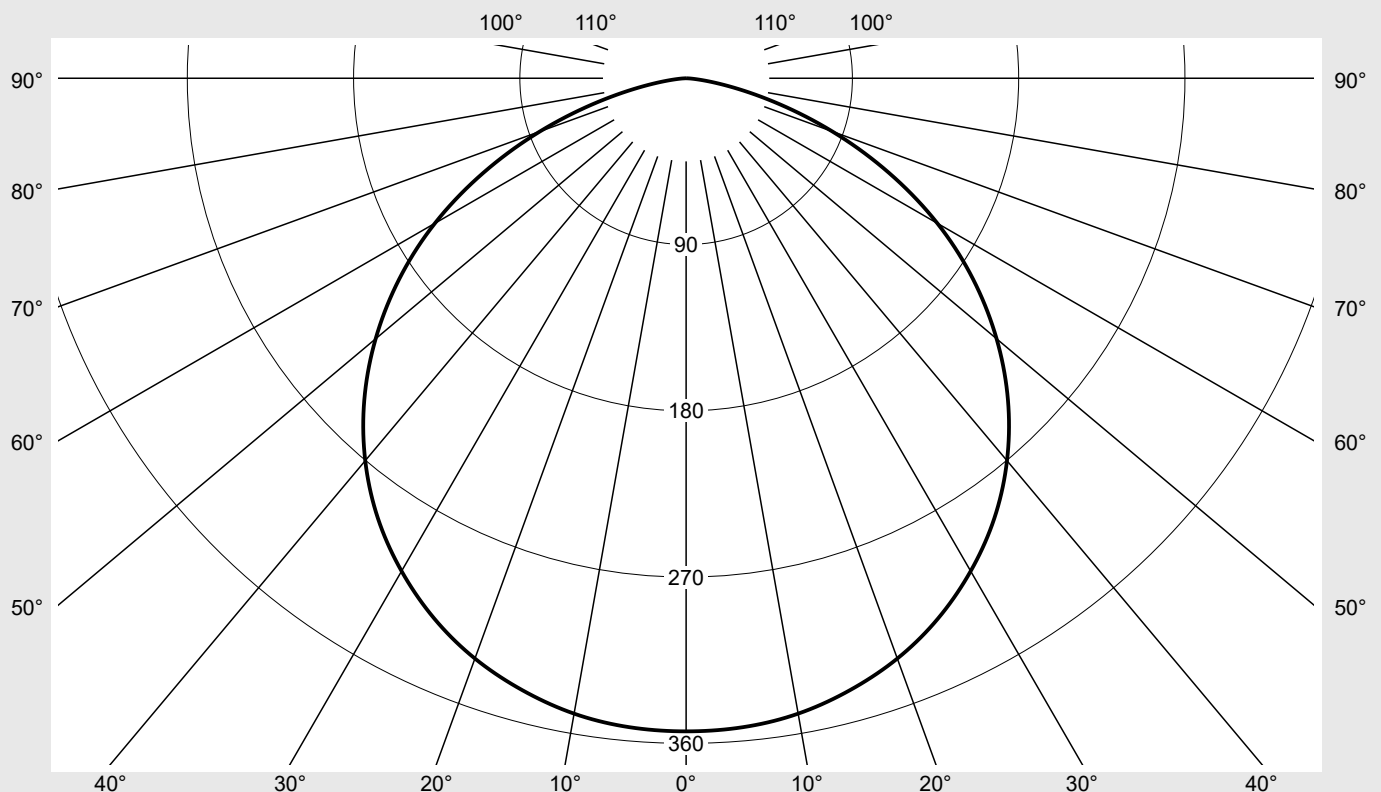
serial
documentation
15.04.2021

sitEco

Luminous intensity in cd/klm

C180-0

Imax: 354 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=49 N2=82 N3=98
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	sITeco
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C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0°	353.5	2.1	2.1
5°	352.6	16.8	19.0
10°	349.2	33.2	52.2
15°	342.9	48.6	100.8
20°	334.3	62.7	163.5
25°	322.6	74.7	238.2
30°	308.1	84.4	322.7
35°	290.8	91.4	414.1
40°	270.2	95.2	509.3
45°	246.4	95.5	604.8
50°	219.4	92.1	696.9
55°	189.6	85.1	782.1
60°	157.0	74.5	856.6
65°	121.1	60.2	916.8
70°	84.3	43.4	960.2
75°	49.0	26.0	986.1
80°	20.9	11.3	997.4
85°	4.7	2.6	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

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UGR-Table	Standard room	siteco
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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	31.0	32.6	31.3	32.9	33.3	31.0	32.6	31.3	32.9	33.3
	3H	32.3	33.8	32.7	34.1	34.5	32.3	33.8	32.7	34.1	34.5
	4H	32.7	34.1	33.1	34.4	34.8	32.7	34.1	33.1	34.4	34.8
	6H	32.8	34.1	33.3	34.5	34.9	32.8	34.1	33.3	34.5	34.9
	8H	32.9	34.1	33.3	34.5	34.9	32.9	34.1	33.3	34.5	34.9
	12H	32.9	34.0	33.3	34.4	34.8	32.9	34.0	33.3	34.4	34.8
4H	2H	31.7	33.1	32.1	33.4	33.8	31.7	33.1	32.1	33.4	33.8
	3H	33.1	34.3	33.5	34.7	35.1	33.1	34.3	33.5	34.7	35.1
	4H	33.6	34.6	34.0	35.1	35.5	33.6	34.6	34.0	35.1	35.5
	6H	33.8	34.7	34.3	35.2	35.6	33.8	34.7	34.3	35.2	35.6
	8H	33.9	34.7	34.3	35.1	35.6	33.9	34.7	34.3	35.1	35.6
	12H	33.9	34.6	34.4	35.1	35.6	33.9	34.6	34.4	35.1	35.6
8H	4H	33.8	34.6	34.2	35.1	35.5	33.8	34.6	34.2	35.1	35.5
	6H	34.1	34.7	34.5	35.2	35.7	34.1	34.7	34.5	35.2	35.7
	8H	34.1	34.7	34.6	35.2	35.7	34.1	34.7	34.6	35.2	35.7
	12H	34.1	34.6	34.6	35.1	35.7	34.1	34.6	34.6	35.1	35.7
12H	4H	33.8	34.5	34.3	35.0	35.5	33.8	34.5	34.3	35.0	35.5
	6H	34.1	34.7	34.6	35.2	35.7	34.1	34.7	34.6	35.2	35.7
	8H	34.1	34.6	34.6	35.1	35.7	34.1	34.6	34.6	35.1	35.7

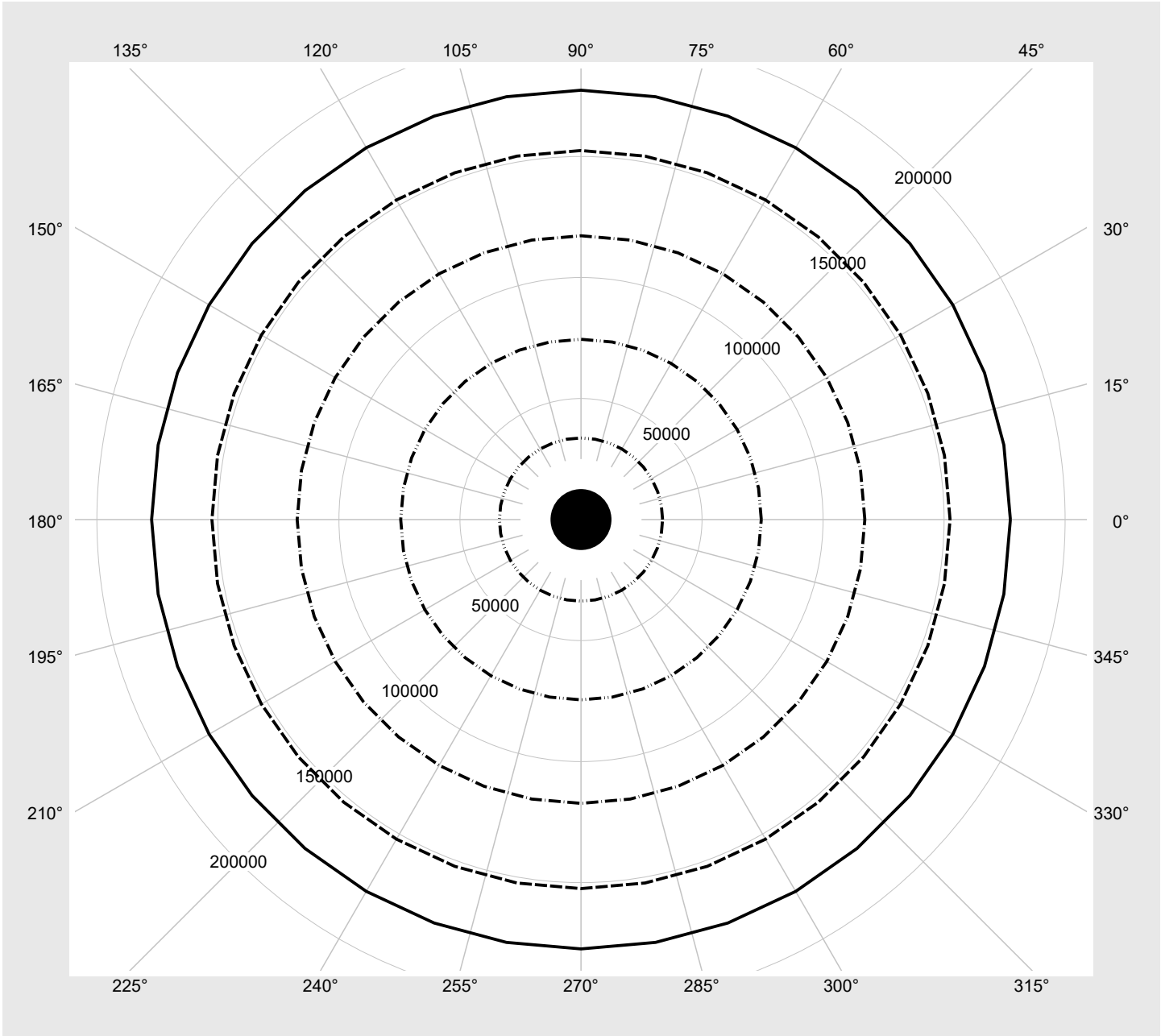
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 240
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C-planes	0°
γ	Luminance in cd/m ²
45°	215645.1
50°	211237.6
55°	204616.6
60°	194369.4
65°	177389.4
70°	152471.8
75°	117256.8
80°	74483.4
85°	33703.7

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



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Multilumen Table	environmental temperature: 25°C	siteco
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DIP-Step	Switch Setting			Luminous flux [lm]	Power consumption [W]
	1	2	3		
0	OFF	OFF	OFF	28000	175.0
1	ON	OFF	OFF	20000	120.0
2	OFF	ON	OFF	15000	90.0
4	OFF	OFF	ON	10000	60.0