

Photometric test report

Family
Highbay 41

Order number: 51HP32MB4MMA + 59HP91001
EAN: 4058352475652 + 4058352475829

LP number
59150_4



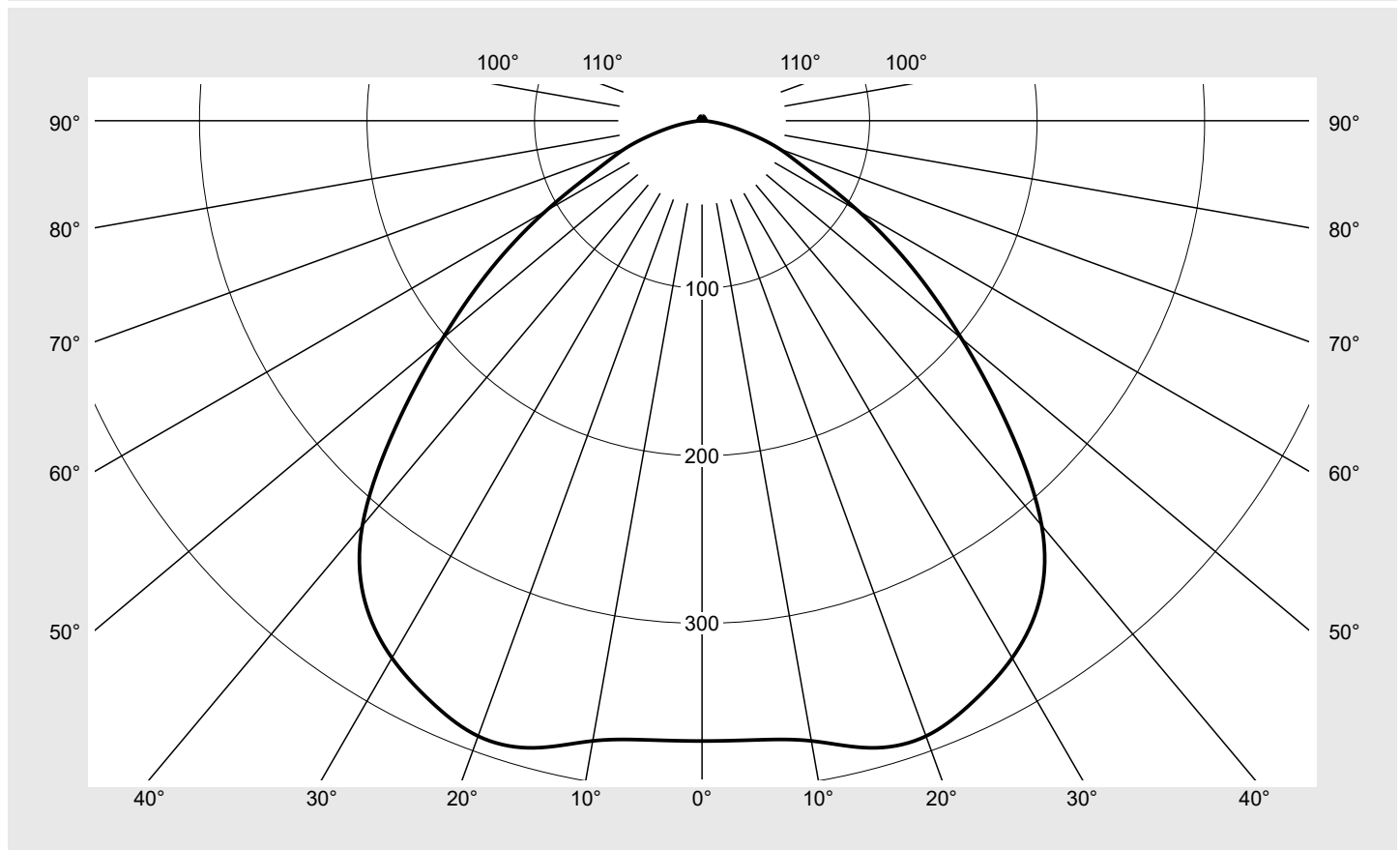
Version cover panel, PC, clear, prismatic reflector, PC, extremely wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG Multilumen
Rated values Net luminous flux = 27120 lm
Power consumption = 175.0 W
Luminous efficacy = 155 lm/W

serial
documentation
15.04.2021

siteco

Luminous intensity in cd/klm **C180-0**

Imax: 391 cd/klm



Classifications

DIN 5040 A 5 2
CIE N1=58 N2=89 N3=98
N4=99 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 98.6%
 ϕ_o 1.4%

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°	370.2	2.2	2.2
5°	371.0	17.7	19.9
10°	375.9	35.8	55.7
15°	387.5	55.0	110.7
20°	390.9	73.3	184.0
25°	382.6	88.6	272.6
30°	370.2	101.5	374.1
35°	350.7	110.3	484.3
40°	315.5	111.1	595.5
45°	258.8	100.3	695.8
50°	202.1	84.9	780.7
55°	153.3	68.9	849.5
60°	107.6	51.1	900.6
65°	69.8	34.7	935.3
70°	49.3	25.4	960.7
75°	29.3	15.5	976.1
80°	14.2	7.7	983.8
85°	3.8	2.1	985.9
90°	1.8	1.0	986.9
95°	1.7	0.9	987.8
100°	1.7	0.9	988.8
105°	1.7	0.9	989.7
110°	2.0	1.0	990.7
115°	2.3	1.1	991.8
120°	2.4	1.1	992.9
125°	2.1	1.0	993.9
130°	2.2	0.9	994.8
135°	2.3	0.9	995.7
140°	2.4	0.8	996.6
145°	2.5	0.8	997.4
150°	2.6	0.7	998.1
155°	2.7	0.6	998.7
160°	2.8	0.5	999.2
165°	2.7	0.4	999.6
170°	2.6	0.2	999.9
175°	2.4	0.1	1000.0
180°	2.6	0.0	1000.0

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UGR-Table		Standard room									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	24.6	26.2	25.0	26.5	26.8	24.6	26.2	25.0	26.5	26.8
	3H	25.1	26.5	25.5	26.9	27.2	25.1	26.5	25.5	26.9	27.2
	4H	25.2	26.6	25.6	26.9	27.3	25.2	26.6	25.6	26.9	27.3
	6H	25.3	26.5	25.7	26.9	27.3	25.3	26.5	25.7	26.9	27.3
	8H	25.3	26.4	25.8	26.8	27.2	25.3	26.4	25.8	26.8	27.2
	12H	25.3	26.4	25.7	26.7	27.2	25.3	26.4	25.7	26.7	27.2
4H	2H	24.9	26.2	25.3	26.6	27.0	24.9	26.2	25.3	26.6	27.0
	3H	25.5	26.6	26.0	27.0	27.4	25.5	26.6	26.0	27.0	27.4
	4H	25.7	26.7	26.2	27.1	27.5	25.7	26.7	26.2	27.1	27.5
	6H	25.8	26.6	26.3	27.1	27.5	25.8	26.6	26.3	27.1	27.5
	8H	25.8	26.6	26.3	27.0	27.5	25.8	26.6	26.3	27.0	27.5
	12H	25.8	26.5	26.3	26.9	27.4	25.8	26.5	26.3	26.9	27.4
8H	4H	25.8	26.5	26.2	27.0	27.5	25.8	26.5	26.2	27.0	27.5
	6H	25.9	26.5	26.4	27.0	27.5	25.9	26.5	26.4	27.0	27.5
	8H	25.9	26.4	26.4	26.9	27.4	25.9	26.4	26.4	26.9	27.4
	12H	25.9	26.3	26.4	26.8	27.4	25.9	26.3	26.4	26.8	27.4
12H	4H	25.8	26.4	26.3	26.9	27.4	25.8	26.4	26.3	26.9	27.4
	6H	25.9	26.4	26.4	26.9	27.4	25.9	26.4	26.4	26.9	27.4
	8H	25.9	26.3	26.4	26.8	27.4	25.9	26.3	26.4	26.8	27.4

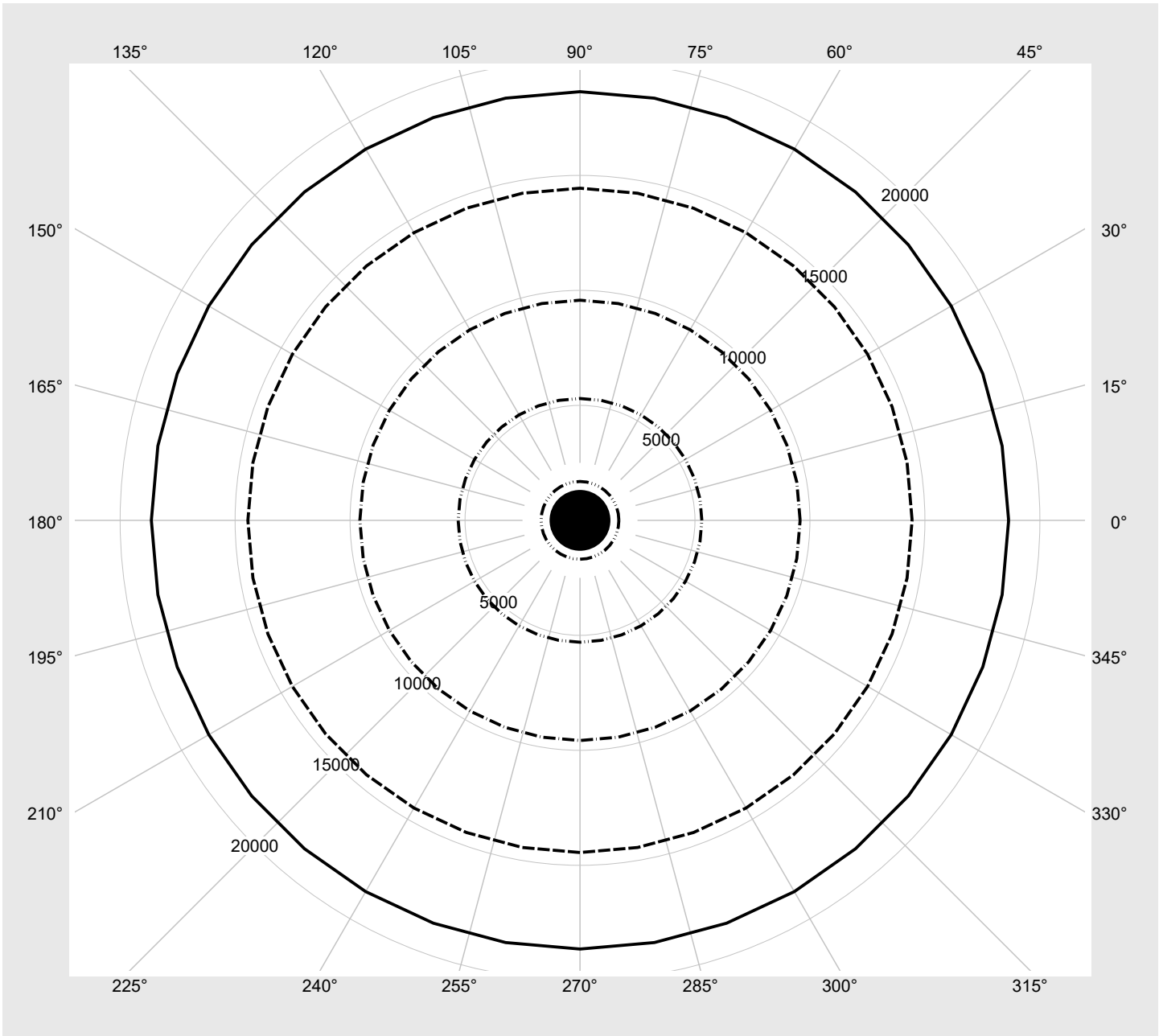
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 410	H(C0) = 123 H(C90) = 123	H(C180) = 123 H(C270) = 123
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C-planes		0°
γ	Luminance in cd/m ²	
45°	54406.1	
50°	44391.1	
55°	35532.8	
60°	26608.3	
65°	18641.5	
70°	14444.1	
75°	9573.5	
80°	5298.9	
85°	1690.6	

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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	27120	175.0
1	ON	OFF	OFF	19370	120.0
2	OFF	ON	OFF	14530	90.0
4	OFF	OFF	ON	9690	60.0