

Lichttechnischer Prüfbefund

Familie
Highbay 11 Xtreme

Bestell-Nr.: 51HF62DA4MMA
EAN: 4058352919859

LP-Nummer
59481_10

Seriendokumentation
19.10.2023



Ausführung breit strahlend, Einscheibensicherheitsglas (ESG), Kettenabhängung
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 31100 lm
Systemleistung = 170.9 W
Lichtausbeute = 182 lm/W

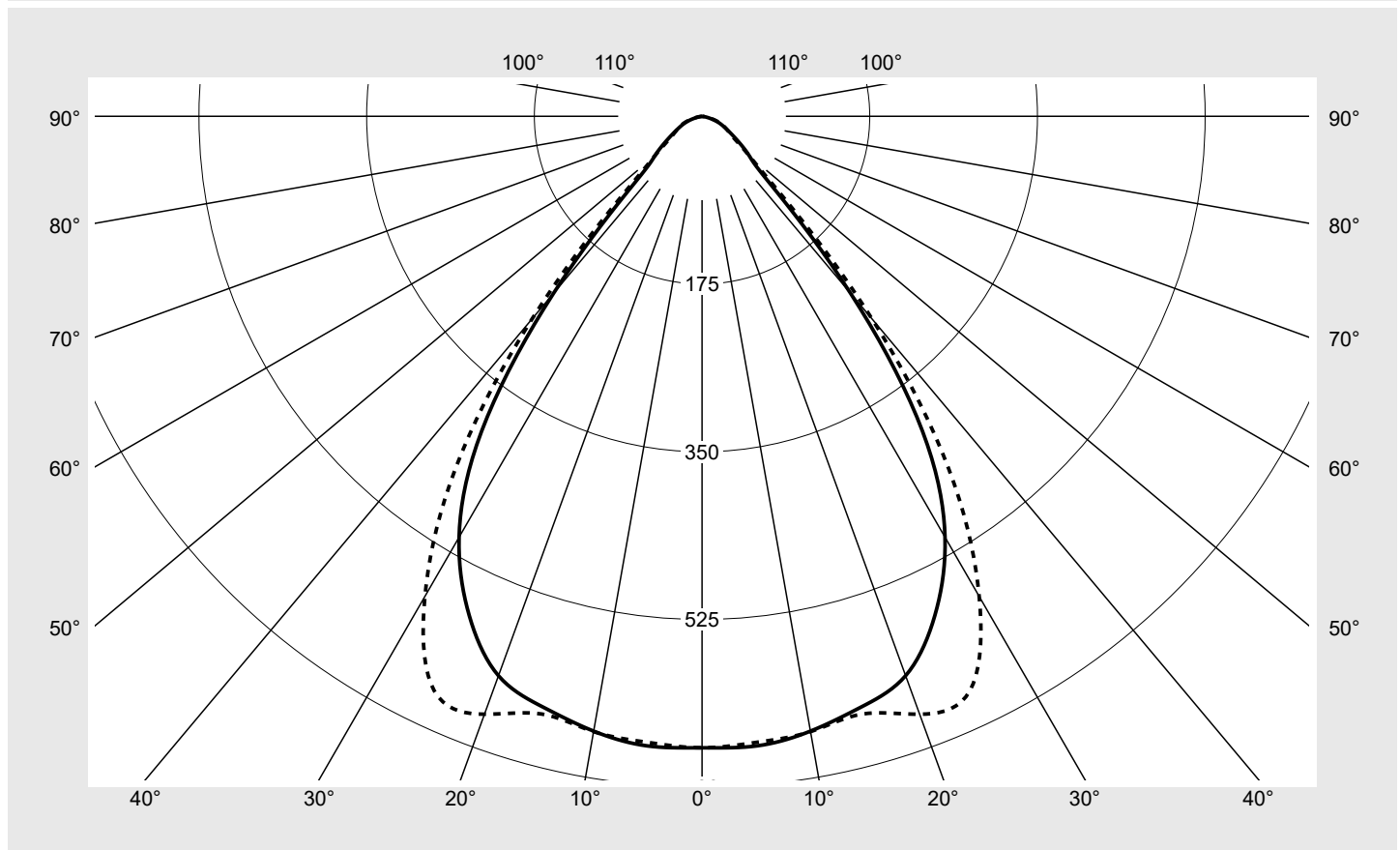
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 665 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=83 N2=96 N3=100
N4=100 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		sITeco

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
γ									
0°	658.9	658.9	658.9	658.9	658.9	658.9	658.9	3.9	3.9
5°	659.4	658.0	657.6	657.5	656.3	656.4	655.7	31.4	35.3
10°	651.4	650.9	652.2	654.2	654.0	653.1	651.9	62.1	97.5
15°	638.5	638.9	644.0	649.4	650.3	647.7	645.7	91.6	189.0
20°	621.1	623.4	633.8	648.8	662.5	665.0	663.9	121.1	310.1
25°	574.8	581.6	605.3	632.9	653.3	661.4	661.4	144.9	455.0
30°	507.1	516.1	549.5	579.4	585.2	579.5	578.4	153.1	608.1
35°	401.0	412.8	459.3	493.1	482.7	458.1	448.6	143.1	751.2
40°	241.2	257.9	312.8	355.4	335.4	297.6	275.9	106.7	858.0
45°	104.4	112.7	137.4	158.8	151.2	131.0	122.3	52.0	909.9
50°	64.5	64.2	65.8	69.0	66.2	63.4	64.8	27.5	937.5
55°	46.7	46.0	43.6	42.3	40.8	40.9	42.1	19.3	956.8
60°	33.4	31.7	30.6	30.2	31.1	31.3	32.1	14.9	971.6
65°	24.6	23.1	22.4	22.7	24.0	23.8	25.6	11.7	983.3
70°	17.3	16.4	15.6	16.8	17.7	18.3	19.2	8.8	992.2
75°	9.4	9.7	9.3	10.5	10.4	10.4	11.2	5.3	997.5
80°	3.2	3.3	3.5	4.0	4.3	4.4	4.5	2.1	999.6
85°	0.5	0.5	0.5	0.6	0.8	1.0	1.1	0.4	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	20,2	21,5	20,5	21,8	22,1	20,6	22,0	21,0	22,3	22,6
	3H	20,4	21,5	20,7	21,9	22,2	20,8	22,0	21,2	22,3	22,7
	4H	20,4	21,5	20,8	21,9	22,2	20,9	22,0	21,3	22,3	22,7
	6H	20,4	21,4	20,8	21,8	22,2	20,9	21,9	21,3	22,2	22,6
	8H	20,5	21,3	20,9	21,7	22,1	21,0	21,8	21,4	22,2	22,6
	12H	20,4	21,2	20,9	21,6	22,0	20,9	21,7	21,4	22,1	22,5
4H	2H	20,2	21,2	20,6	21,6	22,0	20,6	21,7	21,0	22,0	22,4
	3H	20,4	21,3	20,8	21,7	22,1	20,9	21,8	21,3	22,2	22,6
	4H	20,5	21,3	21,0	21,7	22,2	21,0	21,8	21,4	22,2	22,6
	6H	20,5	21,2	21,0	21,6	22,1	21,0	21,7	21,5	22,1	22,6
	8H	20,5	21,1	21,0	21,5	22,0	21,0	21,6	21,5	22,1	22,5
	12H	20,5	21,0	21,0	21,5	22,0	21,0	21,5	21,5	22,0	22,5
8H	4H	20,5	21,1	21,0	21,6	22,0	20,9	21,6	21,4	22,0	22,5
	6H	20,5	21,0	21,0	21,5	22,0	21,0	21,5	21,5	22,0	22,5
	8H	20,5	20,9	21,0	21,4	21,9	21,0	21,4	21,5	21,9	22,4
	12H	20,4	20,8	21,0	21,3	21,8	21,0	21,3	21,5	21,8	22,4
12H	4H	20,5	21,0	21,0	21,5	22,0	21,0	21,5	21,4	21,9	22,4
	6H	20,5	20,9	21,0	21,4	21,9	21,0	21,4	21,5	21,9	22,4
	8H	20,5	20,8	21,0	21,3	21,9	21,0	21,3	21,5	21,8	22,4

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 545 B = 470
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C-Ebenen	γ	Leuchtdichte in cd/m ²						
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
45°		17918.2	19344.0	23593.9	27271.6	25957.6	22494.1	21006.8
50°		12181.2	12121.2	12419.4	13037.6	12503.5	11984.4	12241.5
55°		9894.0	9736.7	9229.6	8948.5	8643.6	8667.6	8902.1
60°		8107.2	7705.9	7440.0	7339.9	7543.2	7609.2	7784.8
65°		7067.0	6628.3	6428.1	6514.0	6905.0	6843.8	7349.1
70°		6149.5	5835.3	5525.8	5954.6	6298.6	6484.9	6827.1
75°		4397.9	4549.4	4346.3	4933.1	4891.4	4890.4	5246.0
80°		2245.1	2329.0	2457.0	2791.9	3037.3	3091.1	3179.2
85°		749.5	716.0	723.0	856.7	1122.8	1362.4	1553.3

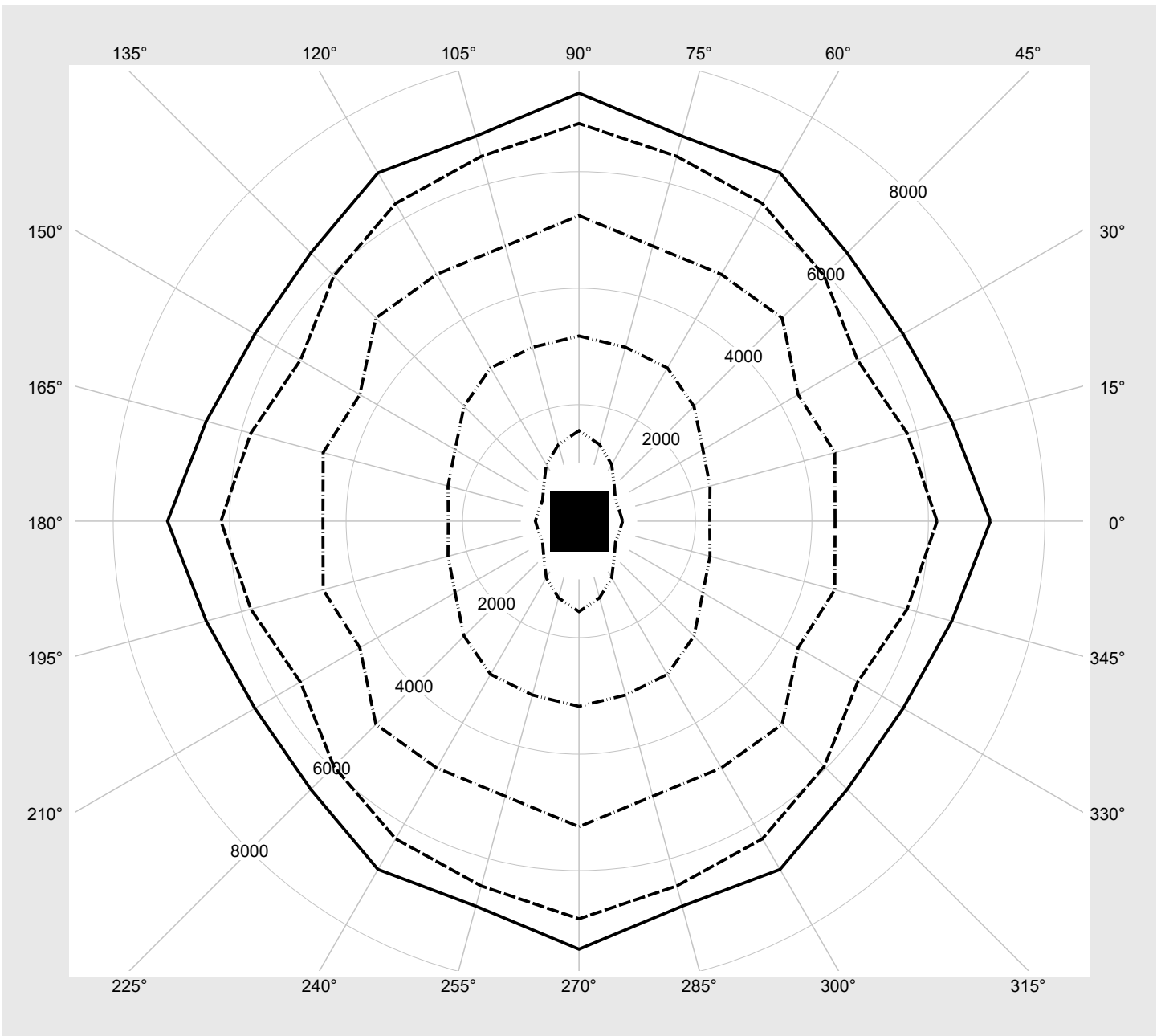
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Leuchtdichten in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	siteco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	31100	170.9
95	240	252	29509	161.3
90	227	250	28003	151.1
85	213	248	26384	142.4
80	200	245	24878	133.5
75	187	243	23357	124.4
70	174	240	21826	115.3
65	160	237	20162	105.8
60	147	234	18606	97.2
55	135	231	17159	89.7
50	122	227	15562	80.8
45	109	223	13961	72.5
40	97	219	12472	64.5
35	84	213	10843	56.3
30	72	208	9329	48.0
25	60	201	7801	40.8
20	48	193	6262	32.6
15	36	182	4708	25.2
10	24	168	3142	17.5
5	12	142	1562	10.0
2	5	110	635	5.6

Dimmstufen-Tabelle	Umgebungstemperatur: 60°C
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	29910	168.3
95	240	252	28387	158.8
90	227	250	26942	148.7
85	213	248	25389	140.2
80	200	245	23945	131.4
75	187	243	22485	122.4
70	173	240	20902	112.9
65	160	237	19418	104.1
60	147	234	17922	95.6
55	134	231	16414	87.7
50	122	227	14995	79.5
45	109	223	13454	71.4
40	97	219	12021	63.4
35	84	213	10453	55.4
30	72	208	8995	47.2
25	60	201	7523	40.1
20	48	193	6039	32.1
15	36	182	4541	24.7
10	24	168	3032	17.2
5	12	142	1508	9.8
2	5	110	612	5.5

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Lichtstrom-Tabelle	sITeco
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Temperatur °C	Lichtstrom lm	Systemleistung W
25.0	31100.0	170.9
60.0	29910.0	168.3