

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA1D24MCA + 59HL91001
EAN: 4058352322925 + 4058352323519

LP-Nummer
58920_3

Ausführung eng strahlend, UGR≤22,
Einscheibensicherheitsglas (ESG)
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 27140 lm
Systemleistung = 162.4 W
Lichtausbeute = 167.1 lm/W

Seriendokumentation
13.06.2019

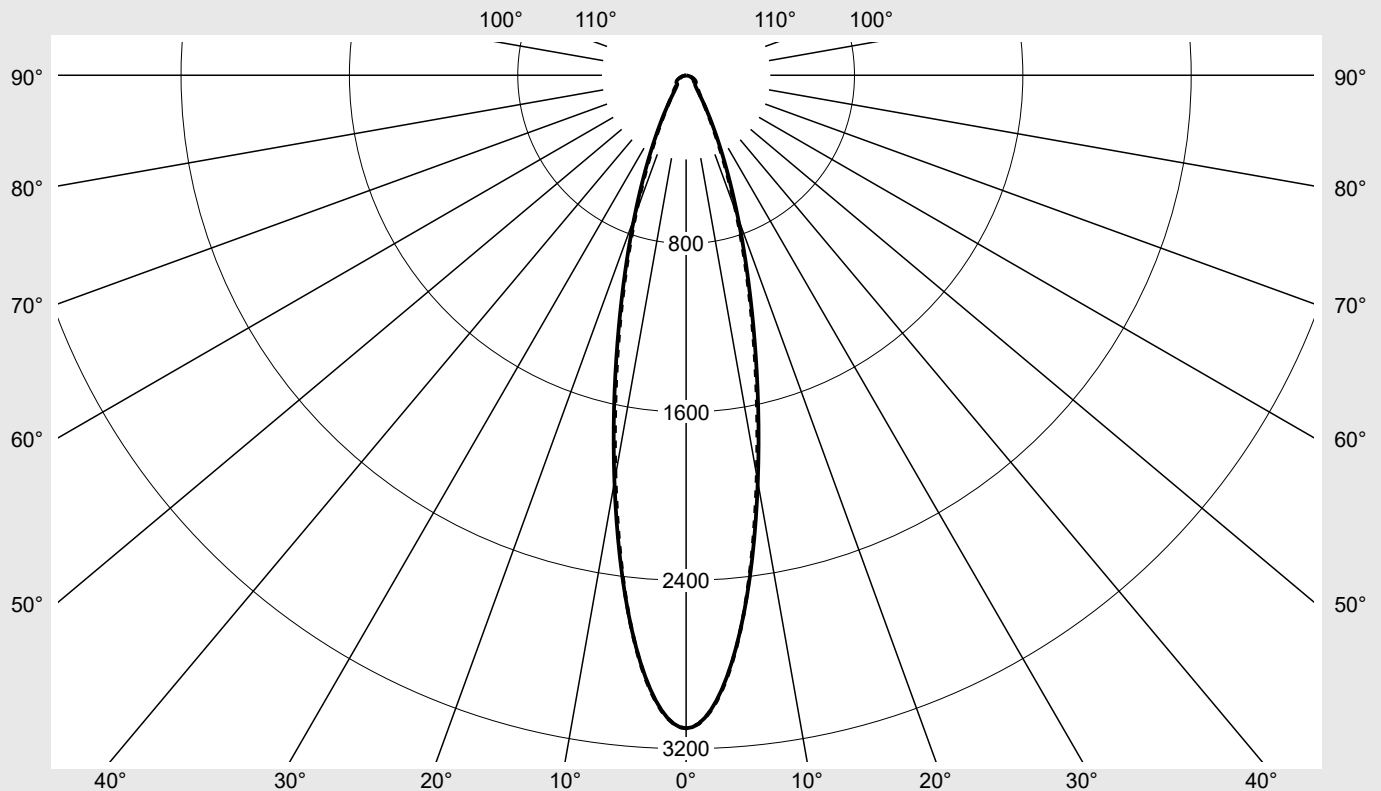
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 3103 cd/klm



Klassifizierungen

DIN 5040 A 7 0
CIE N1=85 N2=94 N3=99
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
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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°			
γ		Lichtstärke in cd/klm						Lichtstrom in lm/klm	
0°	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	3103.3	18.6	18.6
5°	2728.1	2725.7	2734.5	2735.8	2731.2	2739.6	2732.7	130.6	149.1
10°	1961.3	1955.1	1962.7	1959.8	1944.6	1940.4	1933.3	185.8	334.9
15°	1234.5	1231.5	1237.4	1233.6	1223.5	1217.2	1209.8	174.2	509.0
20°	720.2	721.2	730.7	731.8	720.5	706.3	696.1	134.9	644.0
25°	391.5	395.5	407.7	412.0	396.6	377.5	368.6	91.5	735.4
30°	203.6	206.8	216.0	219.0	212.4	200.7	194.3	57.3	792.7
35°	109.3	109.5	113.4	118.8	120.5	117.6	115.6	36.3	829.0
40°	71.8	72.6	76.4	83.5	87.0	87.1	87.3	28.5	857.5
45°	59.8	60.1	64.9	71.1	68.6	64.2	62.9	25.2	882.8
50°	58.8	60.0	64.4	66.4	57.1	49.4	48.5	24.6	907.3
55°	56.5	57.6	60.7	58.9	51.3	43.9	43.6	24.1	931.5
60°	50.4	50.7	52.1	52.2	45.2	38.5	38.0	22.4	953.8
65°	40.7	40.4	41.4	42.5	37.1	32.0	31.7	19.0	972.8
70°	28.4	28.2	29.2	30.2	27.5	24.4	24.3	14.2	987.1
75°	15.1	15.6	16.5	18.0	16.8	16.4	16.8	8.8	995.8
80°	5.3	5.6	6.2	6.9	7.4	7.5	9.1	3.7	999.5
85°	0.5	0.5	0.6	0.8	1.1	1.3	1.8	0.5	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	18,5	19,7	18,9	20,0	20,3	17,5	18,7	17,8	19,0	19,3
	3H	20,0	21,0	20,4	21,4	21,7	18,9	19,9	19,2	20,2	20,6
	4H	20,3	21,3	20,7	21,6	22,0	19,4	20,3	19,8	20,7	21,1
	6H	20,5	21,3	20,9	21,7	22,1	19,7	20,6	20,1	20,9	21,3
	8H	20,5	21,2	20,9	21,6	22,0	19,9	20,6	20,3	21,0	21,4
	12H	20,5	21,1	20,9	21,5	22,0	19,9	20,5	20,3	20,9	21,3
4H	2H	19,3	20,2	19,7	20,6	20,9	18,5	19,4	18,9	19,8	20,2
	3H	20,8	21,6	21,2	22,0	22,4	20,0	20,7	20,4	21,1	21,6
	4H	21,2	21,9	21,7	22,3	22,8	20,5	21,2	21,0	21,6	22,1
	6H	21,3	21,9	21,8	22,4	22,8	20,9	21,5	21,3	21,9	22,4
	8H	21,3	21,9	21,8	22,3	22,8	20,9	21,5	21,4	21,9	22,4
	12H	21,3	21,7	21,8	22,2	22,7	20,9	21,4	21,4	21,9	22,4
8H	4H	21,4	21,9	21,9	22,4	22,8	20,8	21,3	21,3	21,7	22,2
	6H	21,5	22,0	22,0	22,4	22,9	21,2	21,6	21,7	22,0	22,6
	8H	21,5	21,9	22,0	22,4	22,9	21,2	21,6	21,7	22,1	22,6
	12H	21,5	21,8	22,0	22,3	22,8	21,2	21,5	21,7	22,0	22,6
12H	4H	21,4	21,8	21,9	22,3	22,8	20,8	21,2	21,3	21,7	22,2
	6H	21,5	21,9	22,0	22,4	22,9	21,1	21,5	21,6	22,0	22,5
	8H	21,5	21,8	22,0	22,3	22,9	21,2	21,5	21,7	22,0	22,6

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 590 B = 312
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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°		12468.4	12540.8	13529.1	14821.6	14300.8	13394.2	13108.6	
50°		13481.4	13757.6	14762.0	15234.7	13105.3	11341.6	11120.8	
55°		14520.3	14794.8	15611.0	15147.0	13174.2	11285.6	11213.9	
60°		14846.8	14962.1	15374.6	15383.5	13334.1	11348.4	11201.9	
65°		14183.4	14106.3	14457.2	14826.0	12936.9	11158.0	11050.2	
70°		12259.7	12164.9	12573.1	13016.7	11833.0	10530.3	10495.4	
75°		8585.7	8861.5	9421.4	10254.8	9588.3	9345.1	9588.3	
80°		4538.2	4727.5	5256.5	5831.3	6289.8	6344.9	7689.0	
85°		778.2	781.5	957.5	1316.1	1884.5	2273.6	3090.6	

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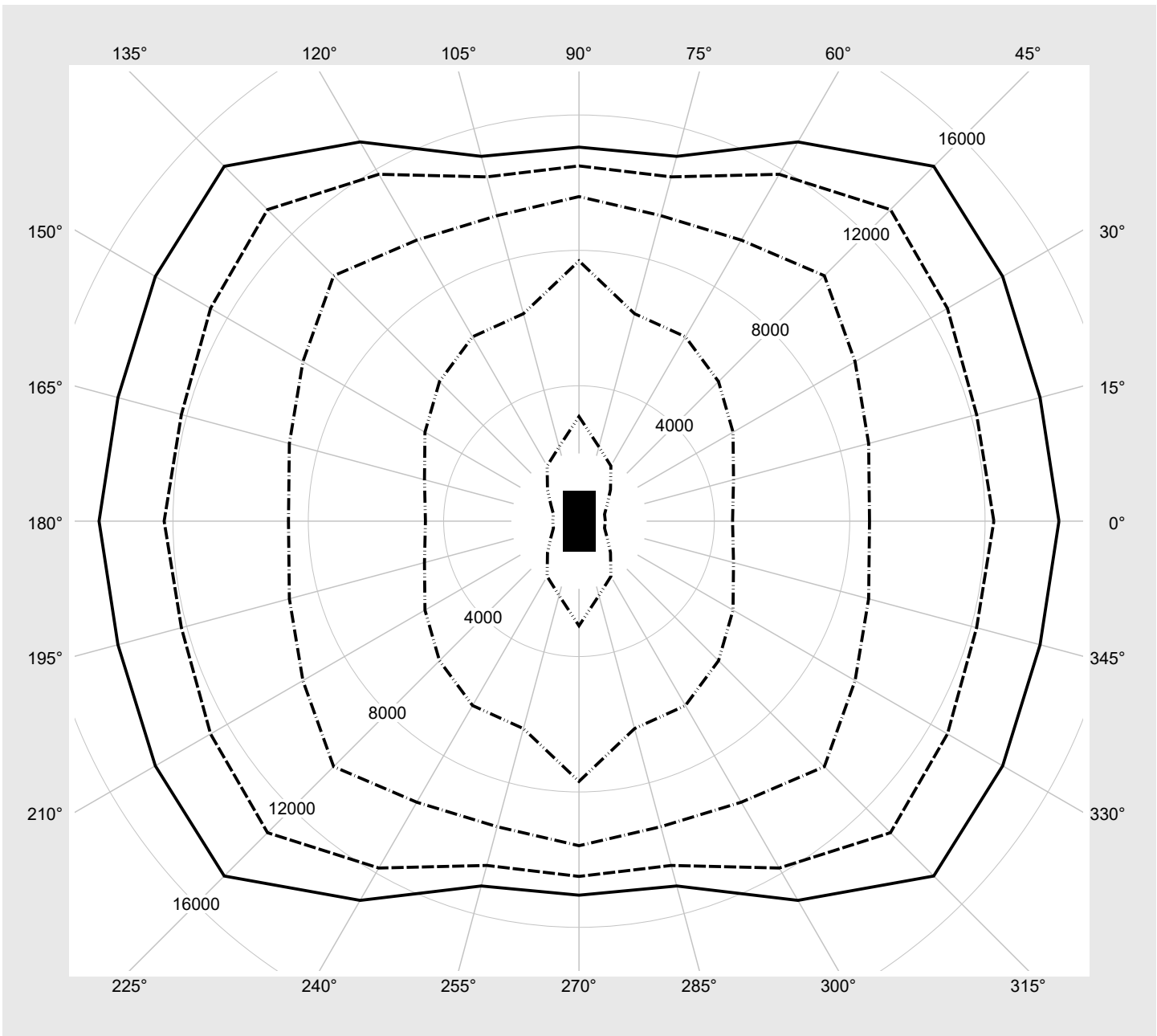
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Leuchtdichten in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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Dimmstufen-Tabelle		sITeco
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	27140	162.4
95	241	252	25783	153.6
90	227	250	24426	145.0
85	214	248	23069	136.6
80	201	245	21712	128.3
75	188	243	20355	120.1
70	175	240	18998	111.9
65	162	238	17641	103.9
60	149	235	16284	95.9
55	136	232	14927	88.1
50	124	228	13570	80.3
45	111	225	12213	72.7
40	99	220	10856	65.0
35	86	216	9499	57.5
30	74	211	8142	50.1
25	62	205	6785	42.6
20	50	198	5428	35.3
15	38	190	4071	28.1
10	26	179	2713	20.8