

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA1D24MCA + 59HL91002
EAN: 4058352322925 + 4058352341650

LP-Nummer
58920_13

Ausführung eng strahlend, UGR≤22, Abdeckscheibe, PC

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte
Nettolichtstrom = 25590 lm
Systemleistung = 162.4 W
Lichtausbeute = 157.6 lm/W

Seriendokumentation
13.06.2019

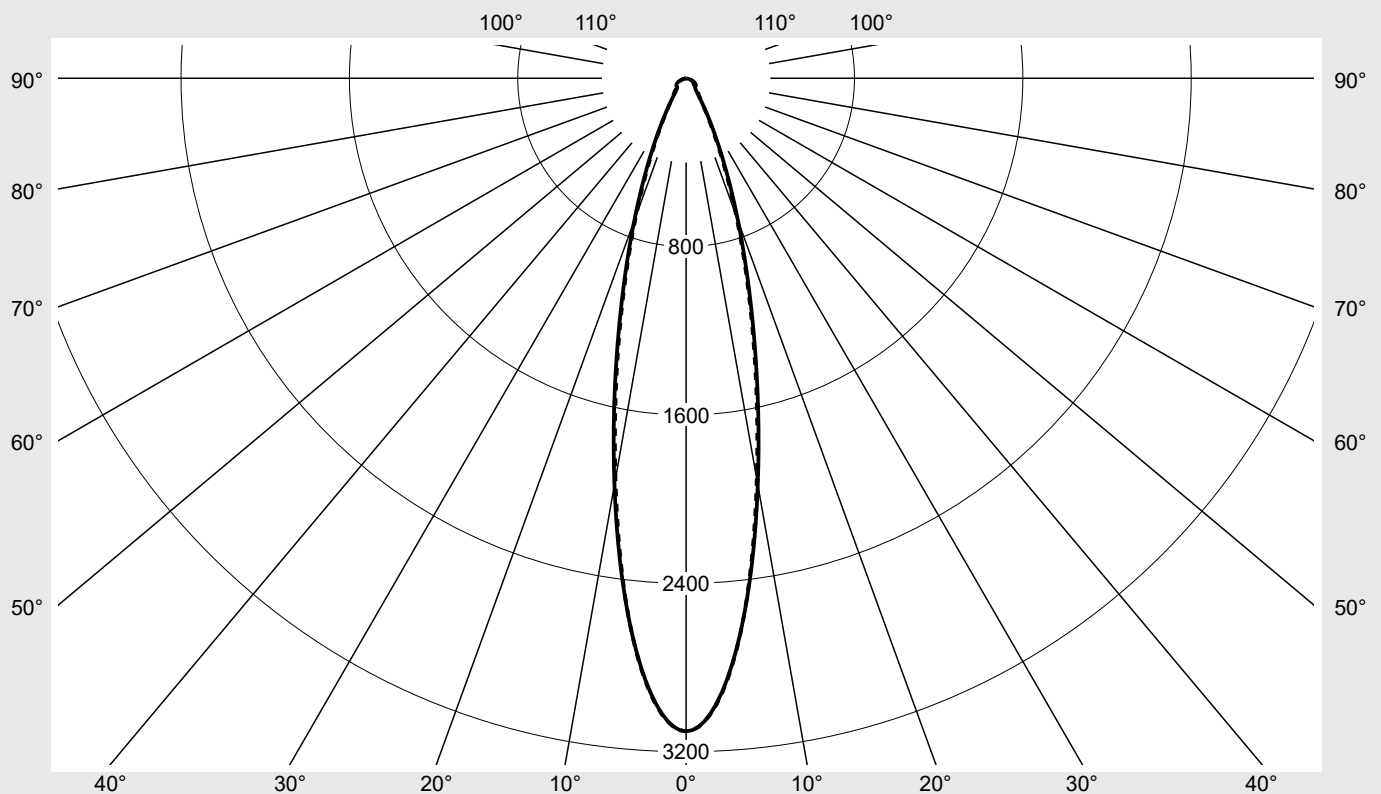
siteco

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

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe	
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			Phi-Zone	Phi-Zone
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	18,3	19,5	18,7	19,8	20,1	17,3	18,5	17,6	18,8	19,1
	3H	19,8	20,8	20,2	21,1	21,5	18,7	19,7	19,0	20,0	20,4
	4H	20,1	21,1	20,5	21,4	21,8	19,2	20,1	19,6	20,5	20,9
	6H	20,3	21,1	20,7	21,5	21,9	19,5	20,4	19,9	20,7	21,1
	8H	20,3	21,0	20,7	21,4	21,8	19,7	20,4	20,1	20,8	21,2
	12H	20,3	20,9	20,7	21,3	21,8	19,7	20,3	20,1	20,7	21,1
4H	2H	19,0	20,0	19,4	20,4	20,7	18,3	19,2	18,7	19,6	20,0
	3H	20,6	21,4	21,0	21,8	22,2	19,8	20,5	20,2	20,9	21,4
	4H	21,0	21,7	21,4	22,1	22,6	20,3	21,0	20,8	21,4	21,9
	6H	21,1	21,7	21,6	22,2	22,6	20,7	21,3	21,1	21,7	22,2
	8H	21,1	21,7	21,6	22,1	22,6	20,7	21,3	21,2	21,7	22,2
	12H	21,1	21,5	21,6	22,0	22,5	20,7	21,2	21,2	21,7	22,2
8H	4H	21,2	21,7	21,7	22,1	22,6	20,6	21,1	21,0	21,5	22,0
	6H	21,3	21,8	21,8	22,2	22,7	21,0	21,4	21,5	21,8	22,4
	8H	21,3	21,7	21,8	22,2	22,7	21,0	21,4	21,5	21,9	22,4
	12H	21,3	21,6	21,8	22,1	22,6	21,0	21,3	21,5	21,8	22,4
12H	4H	21,2	21,6	21,7	22,1	22,6	20,6	21,0	21,0	21,5	22,0
	6H	21,3	21,7	21,8	22,2	22,7	20,9	21,3	21,4	21,8	22,3
	8H	21,3	21,6	21,8	22,1	22,6	21,0	21,3	21,5	21,8	22,4

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°		11756.4	11824.6	12756.4	13975.2	13484.1	12629.2	12359.9	
50°		12711.5	12971.9	13918.9	14364.7	12356.8	10693.9	10485.6	
55°		13691.0	13949.9	14719.4	14281.9	12421.8	10641.1	10573.5	
60°		13998.9	14107.6	14496.6	14504.9	12572.6	10700.3	10562.1	
65°		13373.3	13300.7	13631.6	13979.3	12198.0	10520.8	10419.1	
70°		11559.6	11470.1	11855.1	12273.3	11157.2	9928.9	9895.9	
75°		8095.4	8355.4	8883.3	9669.1	9040.7	8811.4	9040.7	
80°		4279.0	4457.5	4956.3	5498.2	5930.5	5982.6	7249.9	
85°		733.7	736.9	902.8	1240.9	1776.9	2143.7	2914.1	

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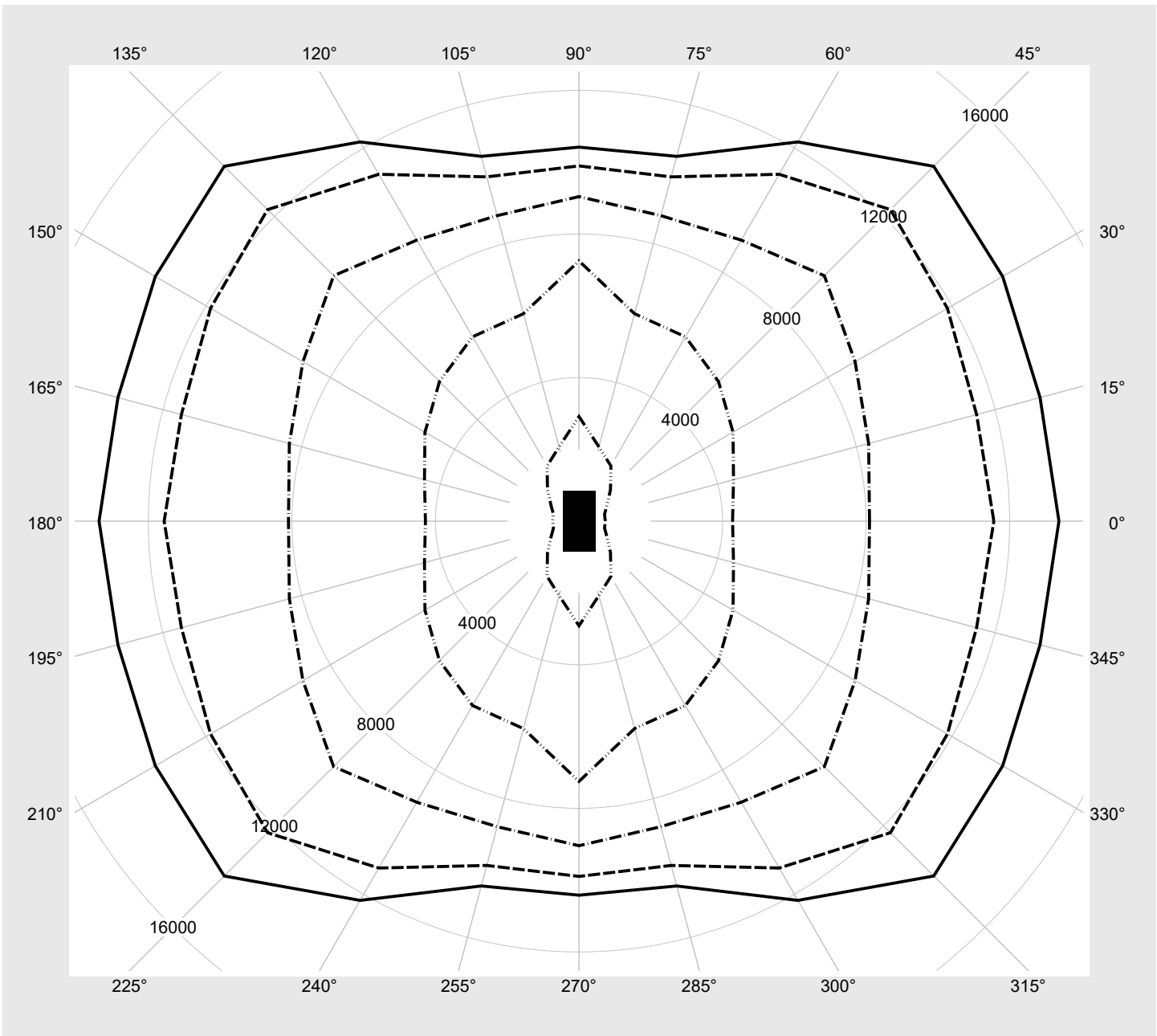
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Leuchtdichten in cd/m²

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	25590	162.4
95	241	252	24311	153.6
90	227	250	23031	145.0
85	214	248	21752	136.6
80	201	245	20472	128.3
75	188	243	19193	120.1
70	175	240	17913	111.9
65	162	238	16634	103.9
60	149	235	15354	95.9
55	136	232	14075	88.1
50	124	228	12795	80.3
45	111	225	11516	72.7
40	99	220	10236	65.0
35	86	216	8957	57.5
30	74	211	7677	50.1
25	62	205	6398	42.6
20	50	198	5118	35.3
15	38	190	3839	28.1
10	26	179	2558	20.8