

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA1D24NLA + 59HL91002
EAN: 4058352361443 + 4058352341650

LP-Nummer
58920_23

Ausführung eng strahlend, UGR≤22, Abdeckscheibe, PC
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 29470 lm
Systemleistung = 189.7 W
Lichtausbeute = 155.4 lm/W

Seriendokumentation
31.03.2020

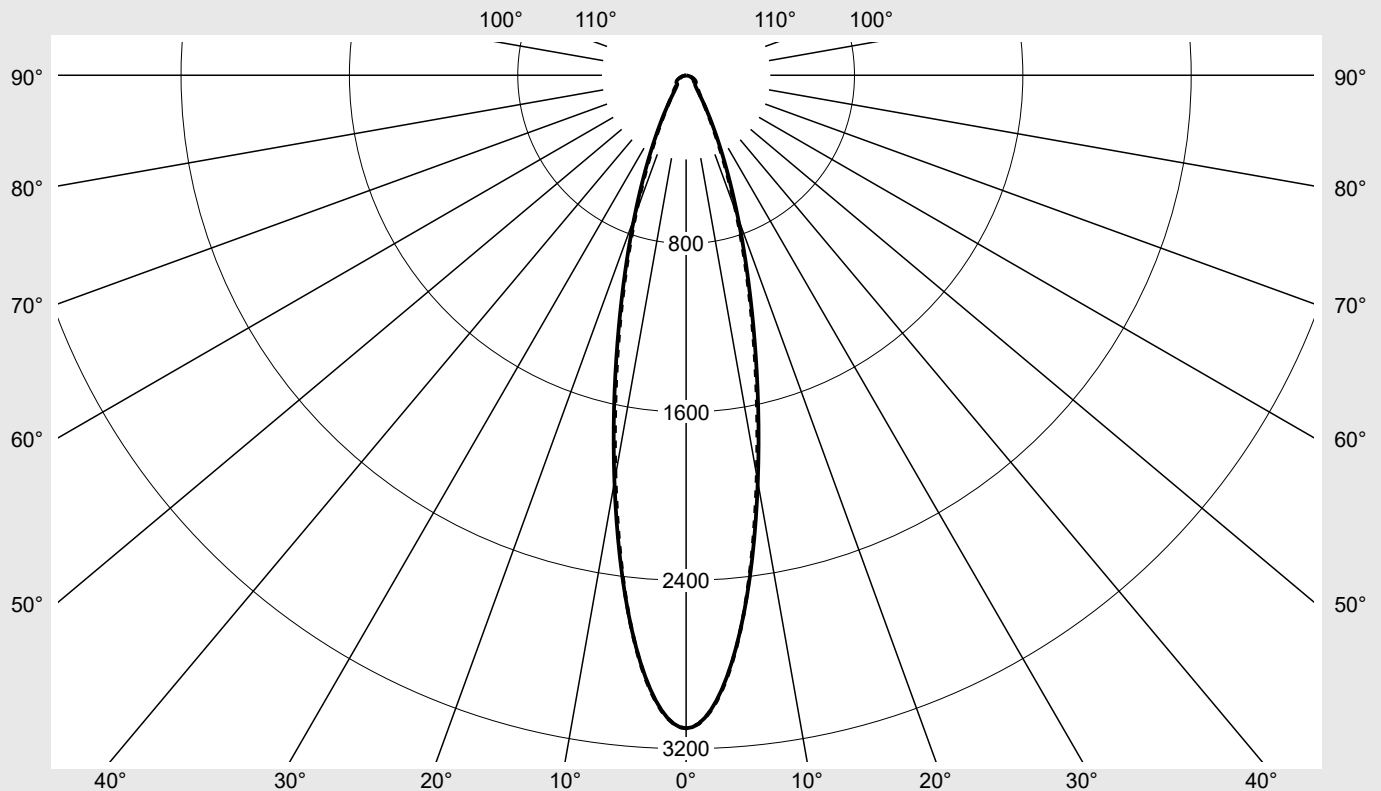
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Lichtstärke in cd/klm

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
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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	18,8	20,0	19,2	20,3	20,6	17,8	18,9	18,1	19,2	19,6
	3H	20,3	21,3	20,7	21,6	22,0	19,1	20,2	19,5	20,5	20,9
	4H	20,6	21,6	21,0	21,9	22,3	19,7	20,6	20,1	21,0	21,4
	6H	20,7	21,6	21,2	22,0	22,3	20,0	20,9	20,4	21,2	21,6
	8H	20,8	21,5	21,2	21,9	22,3	20,2	20,9	20,6	21,3	21,7
	12H	20,8	21,4	21,2	21,8	22,2	20,2	20,8	20,6	21,2	21,6
4H	2H	19,5	20,5	19,9	20,8	21,2	18,8	19,7	19,2	20,1	20,5
	3H	21,1	21,9	21,5	22,3	22,7	20,2	21,0	20,7	21,4	21,8
	4H	21,5	22,2	21,9	22,6	23,1	20,8	21,5	21,3	21,9	22,4
	6H	21,6	22,2	22,1	22,7	23,1	21,1	21,7	21,6	22,2	22,7
	8H	21,6	22,1	22,1	22,6	23,1	21,2	21,8	21,7	22,2	22,7
	12H	21,6	22,0	22,1	22,5	23,0	21,2	21,7	21,7	22,1	22,6
8H	4H	21,7	22,2	22,1	22,6	23,1	21,1	21,6	21,5	22,0	22,5
	6H	21,8	22,2	22,3	22,7	23,2	21,4	21,9	21,9	22,3	22,8
	8H	21,8	22,2	22,3	22,7	23,2	21,5	21,9	22,0	22,4	22,9
	12H	21,7	22,1	22,3	22,6	23,1	21,5	21,8	22,0	22,3	22,9
12H	4H	21,7	22,1	22,1	22,6	23,1	21,0	21,5	21,5	21,9	22,4
	6H	21,8	22,2	22,3	22,6	23,2	21,4	21,8	21,9	22,3	22,8
	8H	21,8	22,1	22,3	22,6	23,1	21,5	21,8	22,0	22,3	22,8

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

Lichttechnische Abmessungen in mm: L = 590, B = 312

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°		13538.9	13617.4	14690.6	16094.1	15528.5	14544.1	14233.9
50°		14638.8	14938.7	16029.3	16542.6	14230.4	12315.3	12075.5
55°		15766.9	16065.0	16951.2	16447.4	14305.2	12254.5	12176.6
60°		16121.4	16246.6	16694.5	16704.1	14478.9	12322.7	12163.6
65°		15401.0	15317.3	15698.4	16098.8	14047.5	12116.0	11998.9
70°		13312.2	13209.3	13652.5	14134.2	12848.8	11434.3	11396.4
75°		9322.8	9622.2	10230.3	11135.2	10411.5	10147.4	10411.5
80°		4927.8	5133.4	5707.7	6331.9	6829.7	6889.7	8349.1
85°		845.0	848.6	1039.7	1429.1	2046.3	2468.7	3356.0

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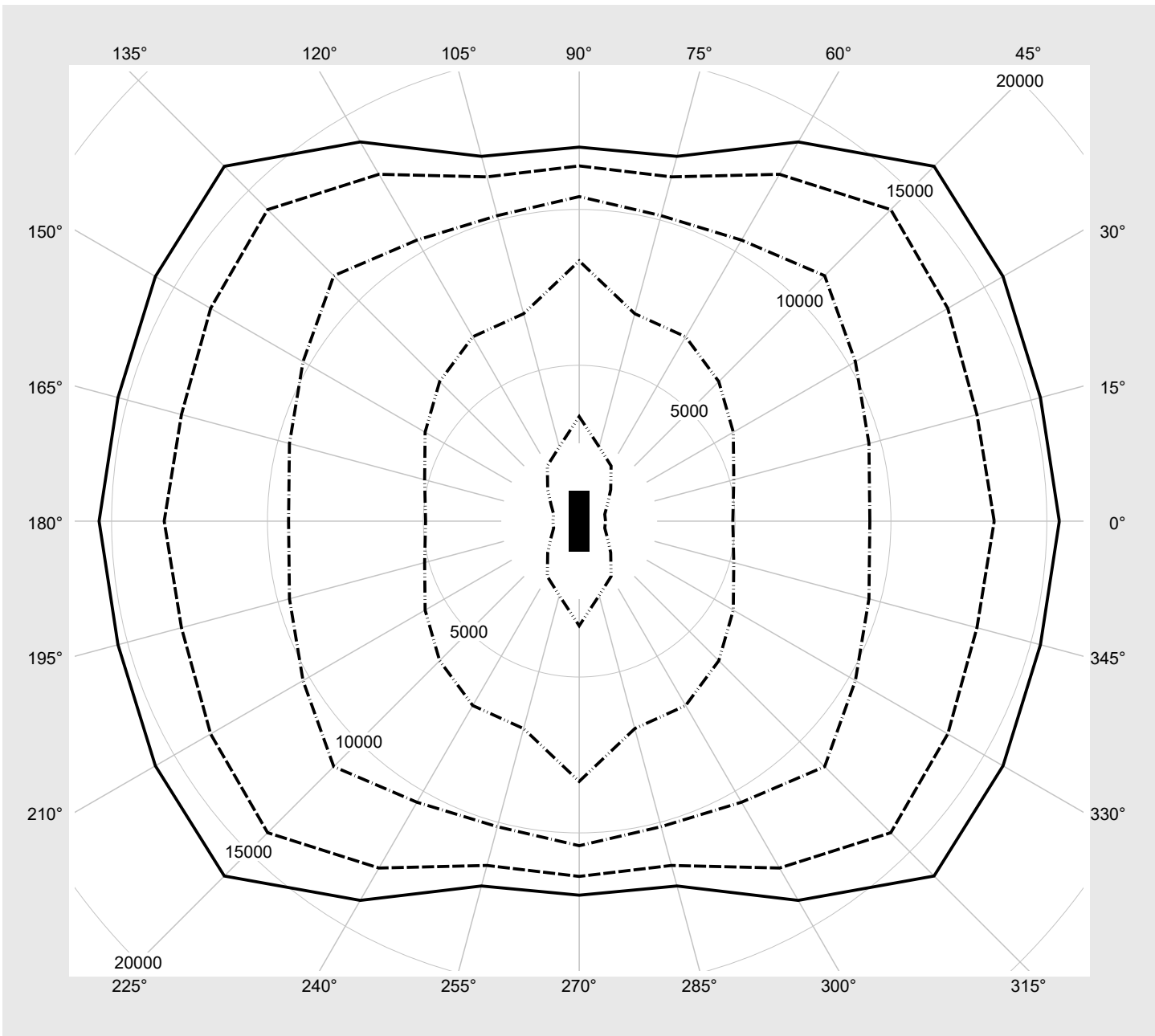
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Leuchtdichten in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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Dimmstufen-Tabelle	Umgebungstemperatur: 25°C	sITeco
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Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	29470	189.7
95	240	252	27959	179.0
90	227	250	26538	169.2
85	213	247	24998	158.4
80	200	245	23553	148.6
75	187	243	22094	139.1
70	174	240	20626	129.4
65	161	237	19143	119.9
60	148	234	17651	110.4
55	136	231	16252	101.5
50	123	228	14734	92.1
45	110	224	13203	82.8
40	98	220	11779	74.2
35	86	215	10343	65.6
30	74	210	8894	57.1
25	61	204	7315	48.1
20	49	197	5848	39.6
15	37	188	4369	31.2
10	26	177	2997	23.3
5	14	161	1497	14.9