

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D24MCA + 59HL91004
EAN: 4058352321744 + 4058352341674

LP-Nummer
58927_3



Ausführung breit strahlend, UGR≤25, Prismenabdeckung, PC, LLD
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 26220 lm
Systemleistung = 162.4 W
Lichtausbeute = 161.5 lm/W

Seriendokumentation
13.06.2019

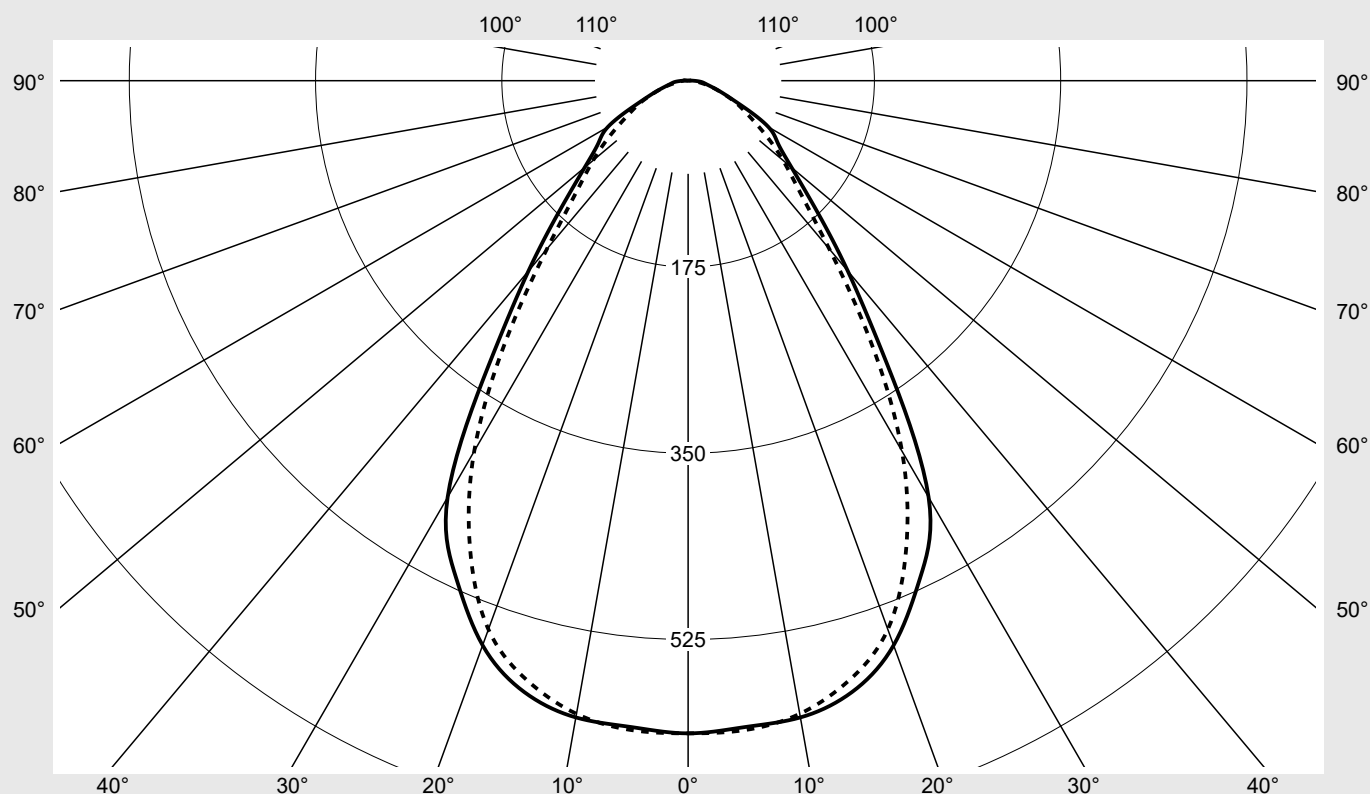
sitEco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 613 cd/klm



Klassifizierungen

DIN 5040 A 5 1
CIE N1=71 N2=92 N3=98
N4=99 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 99,2%
 ϕ_o 0,8%

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 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°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	3.7	3.7
5°	609.6	611.1	612.7	613.1	612.4	613.5	612.4	29.3	32.9
10°	607.4	608.6	610.2	610.3	606.5	606.0	604.0	57.9	90.8
15°	594.6	597.6	602.3	599.6	593.1	586.2	583.4	84.4	175.1
20°	564.4	569.0	575.3	578.9	566.2	554.6	548.6	106.3	281.4
25°	515.6	519.2	532.1	539.9	522.8	495.8	484.8	120.1	401.5
30°	451.9	458.6	489.1	475.0	449.8	415.9	401.9	124.0	525.5
35°	327.1	344.0	384.2	395.7	355.4	317.3	299.0	110.5	636.0
40°	233.3	244.0	283.0	307.1	269.8	223.2	206.3	90.8	726.9
45°	168.2	173.3	198.5	225.5	193.2	156.5	149.2	71.4	798.3
50°	126.9	129.4	133.3	144.3	131.1	119.6	116.5	54.5	852.8
55°	103.2	99.6	94.5	87.8	94.2	91.0	89.0	42.1	895.0
60°	87.2	78.0	70.2	56.0	68.9	67.5	66.1	33.0	928.0
65°	55.4	55.0	48.9	35.9	50.1	50.3	50.2	24.3	952.2
70°	35.3	34.3	31.3	21.7	32.3	34.6	34.5	16.2	968.5
75°	23.4	22.4	19.9	14.1	19.6	21.8	22.9	10.7	979.2
80°	16.6	15.4	13.9	10.7	12.1	12.4	12.8	7.1	986.3
85°	12.0	10.4	9.7	7.3	6.9	6.7	7.4	4.6	990.9
90°	4.7	4.3	4.8	4.8	4.6	4.2	4.5	2.5	993.4
95°	2.6	2.7	3.5	3.9	3.7	3.3	3.9	1.8	995.3
100°	1.7	1.8	2.2	2.7	2.5	2.3	2.8	1.2	996.5
105°	1.5	1.3	1.3	1.5	1.7	1.9	2.3	0.8	997.3
110°	1.2	1.1	0.9	0.8	1.2	1.2	2.0	0.6	997.9
115°	1.1	1.0	0.8	0.7	1.1	1.0	1.8	0.5	998.4
120°	0.9	0.8	0.7	0.6	0.9	1.0	1.5	0.4	998.8
125°	0.8	0.7	0.6	0.6	0.8	1.0	1.3	0.3	999.2
130°	0.9	0.8	0.8	0.8	0.8	1.0	1.2	0.4	999.6
135°	1.1	1.1	1.1	1.1	1.1	1.1	1.2	0.4	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	22,2	23,6	22,5	23,9	24,3	21,7	23,1	22,1	23,4	23,8
	3H	22,8	24,1	23,2	24,4	24,8	22,4	23,6	22,7	24,0	24,3
	4H	23,0	24,2	23,4	24,5	24,9	22,6	23,8	23,0	24,1	24,5
	6H	23,2	24,2	23,6	24,6	25,0	22,8	23,8	23,2	24,2	24,6
	8H	23,3	24,3	23,8	24,7	25,1	22,9	23,9	23,3	24,2	24,6
	12H	23,4	24,3	23,9	24,7	25,2	22,9	23,8	23,4	24,2	24,6
4H	2H	22,3	23,5	22,7	23,9	24,2	21,9	23,1	22,3	23,4	23,8
	3H	23,0	24,0	23,5	24,4	24,8	22,7	23,7	23,1	24,1	24,5
	4H	23,3	24,2	23,7	24,6	25,0	23,0	23,9	23,4	24,3	24,7
	6H	23,6	24,3	24,0	24,8	25,2	23,2	24,0	23,7	24,4	24,9
	8H	23,7	24,4	24,2	24,9	25,3	23,3	24,0	23,8	24,5	24,9
	12H	23,9	24,5	24,4	25,0	25,5	23,4	24,0	23,9	24,5	25,0
8H	4H	23,3	24,0	23,8	24,5	24,9	23,0	23,7	23,5	24,2	24,7
	6H	23,7	24,2	24,2	24,7	25,2	23,3	23,9	23,8	24,4	24,9
	8H	23,9	24,4	24,4	24,9	25,4	23,4	24,0	24,0	24,4	25,0
	12H	24,2	24,6	24,7	25,1	25,6	23,6	24,0	24,1	24,5	25,0
12H	4H	23,3	23,9	23,8	24,4	24,9	23,1	23,6	23,6	24,1	24,6
	6H	23,7	24,2	24,2	24,7	25,2	23,4	23,8	23,9	24,3	24,8
	8H	23,9	24,3	24,4	24,8	25,4	23,5	23,9	24,0	24,4	25,0

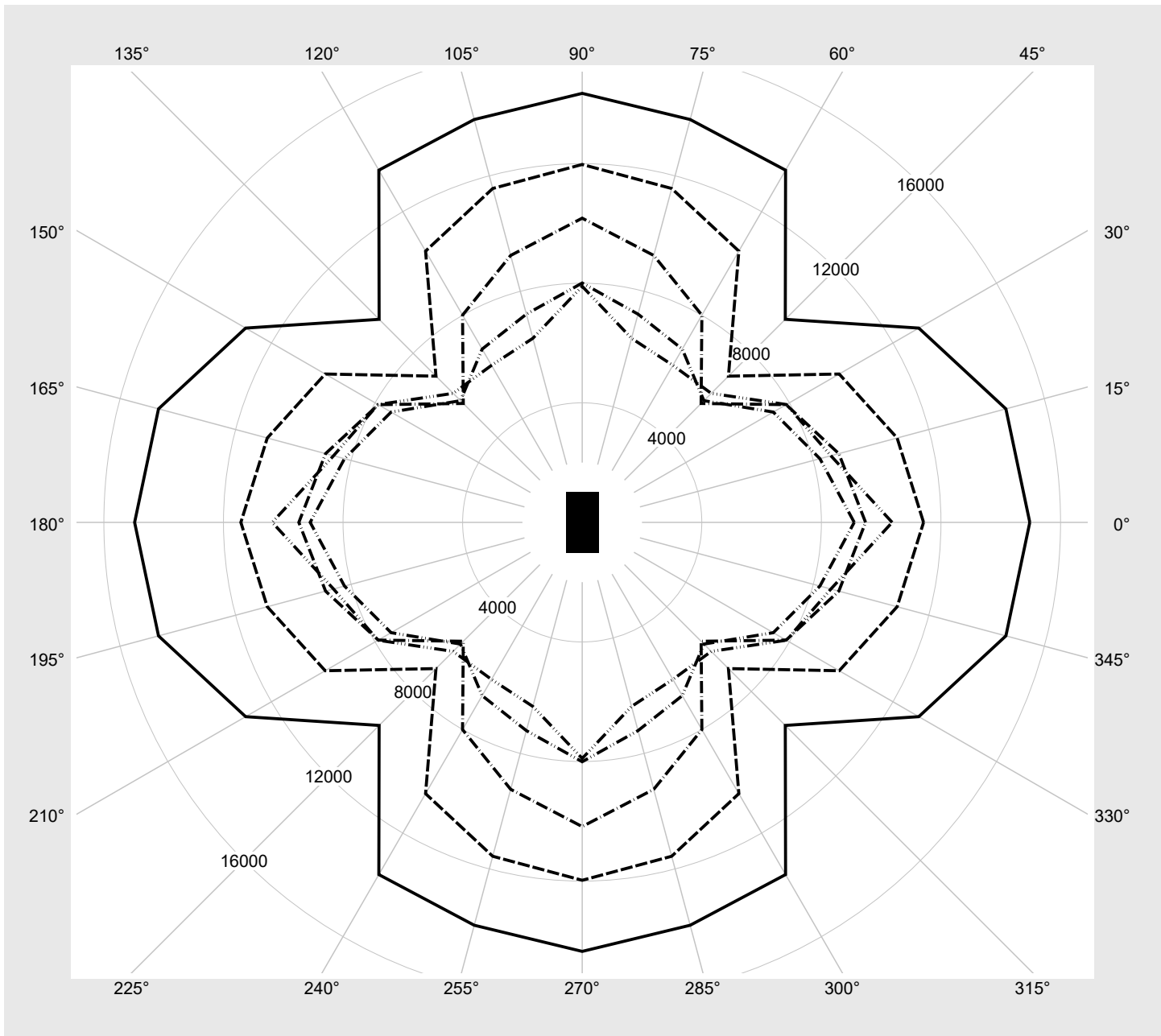
Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 612 B = 330	H(C0) = 21	H(C180) = 21	H(C90) = 21	H(C270) = 21
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C-Ebenen	γ	Leuchtdichte in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		29031.6	29727.6	33987.6	38718.1	33424.2	27381.0	26485.3	
50°		23822.5	24107.7	24780.1	26931.8	24677.2	22806.8	22605.6	
55°		21415.7	20477.0	19379.1	18089.8	19590.8	19228.0	19195.4	
60°		20398.5	18062.6	16199.6	12978.1	16165.0	16145.0	16190.6	
65°		14971.6	14672.3	12999.9	9606.7	13605.4	13953.1	14352.6	
70°		11418.0	10906.0	9926.6	6917.4	10479.6	11563.9	11973.5	
75°		9478.7	8886.9	7876.0	5625.3	8005.7	9245.4	10176.7	
80°		9099.3	8231.8	7380.8	5757.7	6694.0	7212.9	8007.8	
85°		10368.1	8611.9	7885.2	6104.2	6066.5	6375.3	7897.4	

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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Dimmstufen-Tabelle		sITeco
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	26220	162.4
95	241	252	24909	153.6
90	227	250	23598	145.0
85	214	248	22287	136.6
80	201	245	20976	128.3
75	188	243	19665	120.1
70	175	240	18354	111.9
65	162	237	17043	103.9
60	149	234	15732	95.9
55	136	231	14421	88.1
50	124	228	13110	80.3
45	111	224	11799	72.7
40	99	219	10488	65.0
35	86	215	9177	57.5
30	74	209	7866	50.1
25	62	203	6555	42.6
20	50	195	5244	35.3
15	38	185	3933	28.1
10	26	170	2621	20.8