

Lichttechnischer Prüfbefund

Familie
Highbay 11



Bestell-Nr.: 51HLA1D24MCA + 59HL91004
EAN: 4058352322925 + 4058352341674

LP-Nummer
58926_3

Ausführung eng strahlend, UGR≤25, Prismenabdeckung, PC, LLD
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 26070 lm
Systemleistung = 162.4 W
Lichtausbeute = 160.5 lm/W

Seriendokumentation
13.06.2019

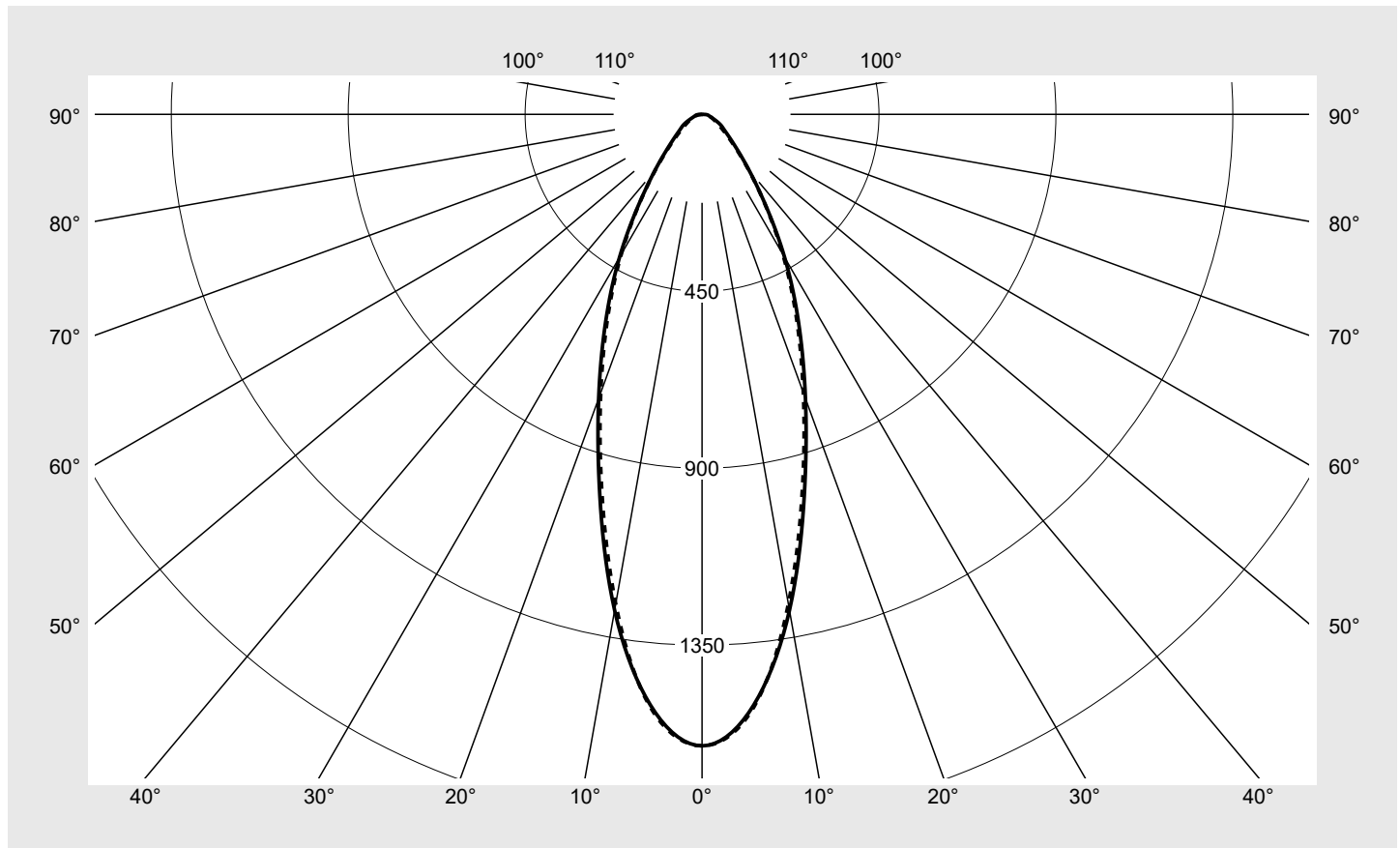
sitEco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 1606 cd/klm



Klassifizierungen

DIN 5040 A 6 1
CIE N1=80 N2=93 N3=98
N4=99 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 99,1%
 ϕ_o 0,9%

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°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
γ									
0°	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	9.6	9.6
5°	1507.9	1508.7	1512.2	1513.3	1508.7	1511.4	1513.0	72.2	81.8
10°	1280.6	1272.9	1259.5	1248.8	1248.0	1260.8	1264.2	120.0	201.7
15°	1004.5	985.6	950.6	929.5	940.1	972.0	986.2	136.5	338.3
20°	768.9	734.9	677.5	651.2	671.3	724.2	753.2	131.9	470.1
25°	579.4	536.1	467.6	439.1	462.6	526.2	566.8	116.0	586.1
30°	419.8	378.2	316.2	288.9	311.0	371.2	410.7	95.0	681.2
35°	281.6	253.0	209.3	188.3	206.3	251.7	279.5	72.8	753.9
40°	186.8	169.4	140.2	125.9	140.1	168.6	184.1	54.6	808.5
45°	126.3	118.0	99.1	89.3	99.3	113.9	120.8	41.5	850.1
50°	90.6	86.0	74.8	68.1	73.3	80.0	82.7	32.8	882.9
55°	68.9	67.2	61.4	56.4	57.0	58.6	59.3	27.3	910.2
60°	55.5	53.3	51.3	48.2	46.1	44.3	44.2	23.2	933.4
65°	39.9	40.4	40.9	39.4	37.9	35.0	34.2	19.1	952.4
70°	27.7	27.4	28.0	26.9	26.9	26.7	27.3	14.0	966.5
75°	20.8	20.4	20.1	18.4	17.7	18.4	20.0	10.2	976.7
80°	16.9	16.2	16.1	14.4	12.1	10.7	10.9	7.5	984.2
85°	12.6	12.2	12.3	10.2	7.8	6.8	7.3	5.4	989.6
90°	4.9	5.5	6.5	6.9	5.5	5.3	6.3	3.2	992.8
95°	3.0	3.5	4.8	5.4	4.4	4.2	5.3	2.4	995.2
100°	1.8	2.0	2.9	3.6	2.9	2.5	3.1	1.5	996.6
105°	1.4	1.2	1.3	1.8	1.9	1.8	2.1	0.9	997.5
110°	1.1	1.0	0.9	0.8	1.2	1.2	1.9	0.6	998.1
115°	1.0	0.9	0.7	0.6	1.0	0.9	1.7	0.4	998.5
120°	0.8	0.7	0.5	0.5	0.8	0.9	1.5	0.4	998.9
125°	0.6	0.5	0.5	0.5	0.6	0.8	1.2	0.3	999.2
130°	0.8	0.8	0.8	0.8	0.8	1.0	1.1	0.4	999.5
135°	1.2	1.2	1.2	1.2	1.2	1.2	1.3	0.5	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	19,4	20,7	19,8	21,0	21,3	18,9	20,2	19,3	20,5	20,9
	3H	20,2	21,4	20,6	21,7	22,0	19,8	20,9	20,2	21,3	21,6
	4H	20,6	21,6	21,0	22,0	22,3	20,2	21,2	20,6	21,6	22,0
	6H	21,0	21,9	21,4	22,3	22,7	20,4	21,4	20,9	21,8	22,2
	8H	21,3	22,1	21,7	22,5	22,9	20,6	21,4	21,0	21,8	22,2
	12H	21,5	22,3	22,0	22,7	23,1	20,7	21,5	21,1	21,9	22,3
4H	2H	19,7	20,8	20,1	21,1	21,5	19,3	20,4	19,7	20,7	21,1
	3H	20,7	21,6	21,1	22,0	22,4	20,3	21,2	20,8	21,6	22,0
	4H	21,2	22,0	21,6	22,4	22,8	20,8	21,6	21,3	22,0	22,4
	6H	21,7	22,4	22,2	22,8	23,3	21,2	21,8	21,6	22,3	22,7
	8H	22,1	22,7	22,5	23,1	23,6	21,3	21,9	21,8	22,3	22,8
	12H	22,4	22,9	22,9	23,4	23,9	21,5	22,0	22,0	22,4	22,9
8H	4H	21,3	21,9	21,8	22,4	22,9	21,0	21,6	21,5	22,0	22,5
	6H	22,0	22,5	22,5	23,0	23,5	21,4	21,9	21,9	22,4	22,9
	8H	22,5	22,9	23,0	23,4	23,9	21,6	22,1	22,1	22,6	23,1
	12H	23,0	23,3	23,5	23,8	24,4	21,9	22,2	22,4	22,7	23,3
12H	4H	21,4	21,9	21,8	22,3	22,8	21,0	21,5	21,5	22,0	22,5
	6H	22,1	22,5	22,6	23,0	23,5	21,5	21,9	22,0	22,4	23,0
	8H	22,6	22,9	23,1	23,5	24,0	21,8	22,1	22,3	22,6	23,2

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°		21681.9	20128.1	16875.7	15237.7	17070.8	19808.3	21318.4
50°		16915.7	15927.4	13824.1	12628.7	13718.0	15161.7	15952.7
55°		14213.3	13751.4	12532.0	11552.5	11790.1	12305.2	12713.6
60°		12894.3	12275.1	11779.9	11109.7	10743.9	10529.3	10761.5
65°		10729.8	10724.3	10820.5	10474.1	10222.4	9652.7	9735.2
70°		8894.5	8661.5	8828.7	8517.4	8690.8	8875.9	9421.0
75°		8368.1	8049.6	7882.4	7303.9	7164.9	7757.5	8826.2
80°		9246.7	8634.2	8466.4	7696.8	6664.5	6224.2	6808.9
85°		10794.1	10004.2	9964.3	8435.2	6751.8	6468.3	7774.5

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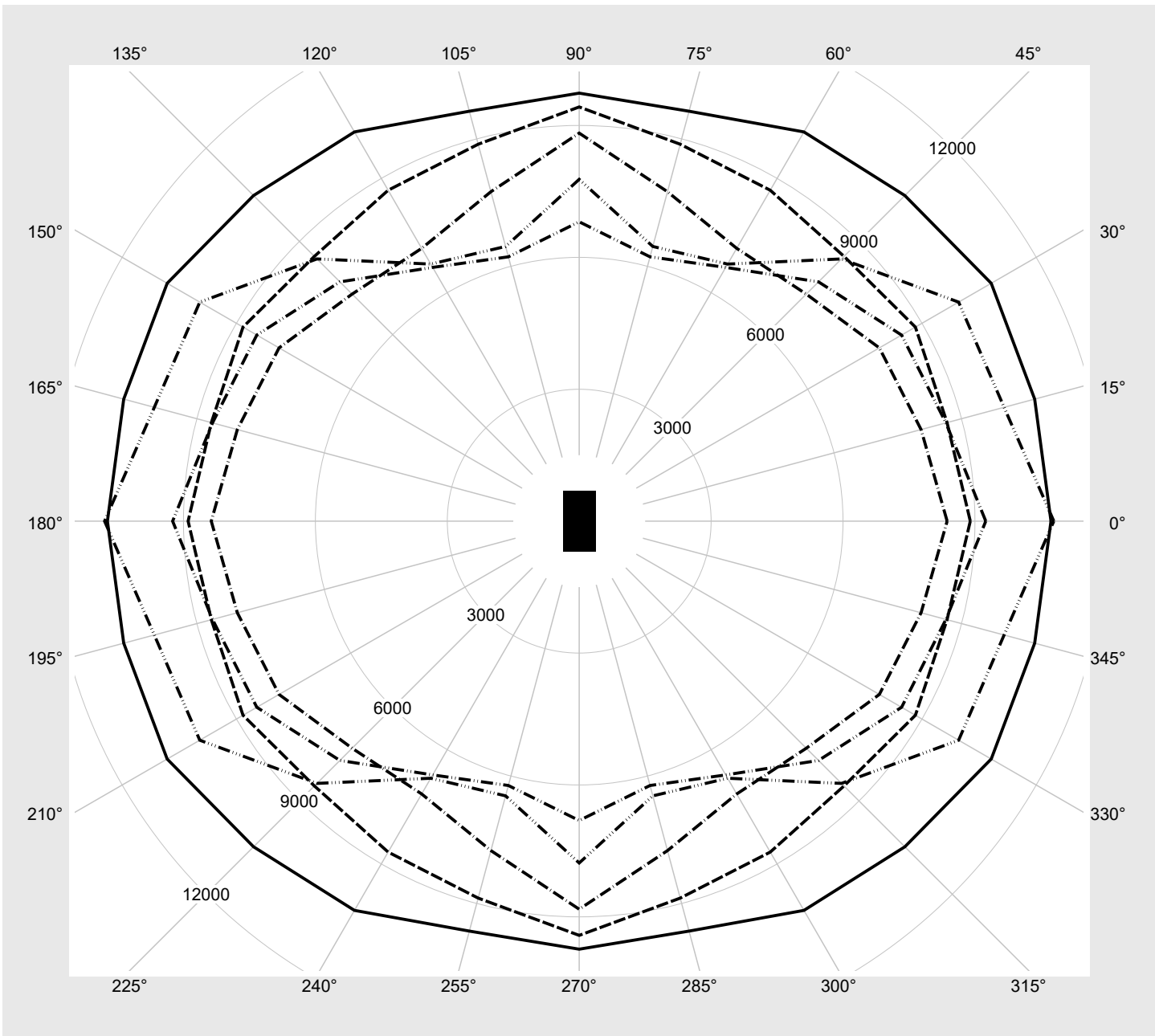
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Leuchtdichten in cd/m²

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	26070	162.4
95	241	252	24767	153.6
90	227	250	23463	145.0
85	214	248	22160	136.6
80	201	245	20856	128.3
75	188	243	19553	120.1
70	175	240	18249	111.9
65	162	237	16946	103.9
60	149	234	15642	95.9
55	136	231	14339	88.1
50	124	228	13035	80.3
45	111	224	11732	72.7
40	99	219	10428	65.0
35	86	215	9125	57.5
30	74	209	7821	50.1
25	62	203	6518	42.6
20	50	195	5214	35.3
15	38	185	3911	28.1
10	26	170	2606	20.8