

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D24NLA
EAN: 4058352361481

LP-Nummer
58922_19



Ausführung breit strahlend, UGR≤22
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 33150 lm
Systemleistung = 189.6 W
Lichtausbeute = 174.8 lm/W

Seriendokumentation
31.03.2020

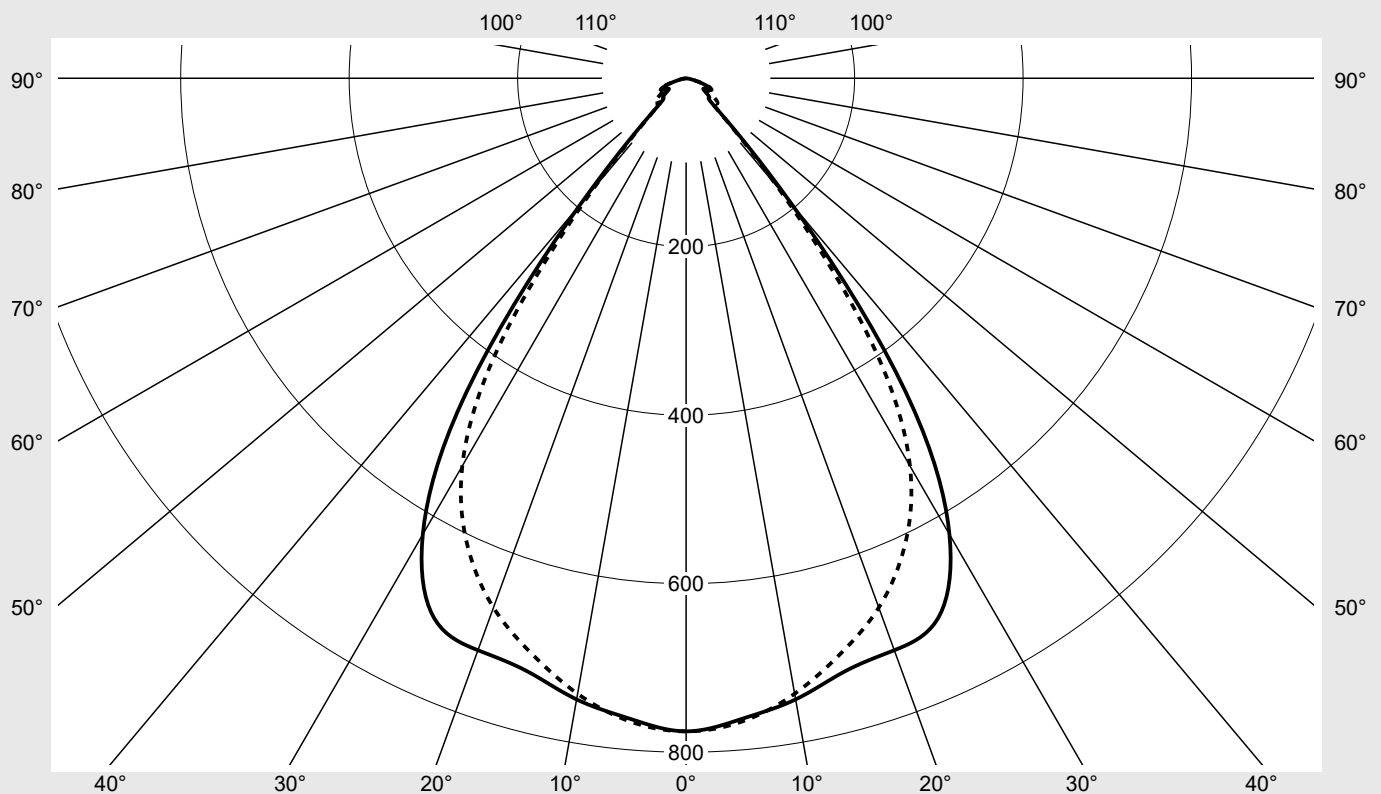
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 775 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=89 N2=96 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°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
γ									
0°	775.3	775.3	775.3	775.3	775.3	775.3	775.3	4.6	4.6
5°	763.3	765.5	767.8	768.1	766.5	768.2	766.4	36.6	41.3
10°	748.7	752.6	756.7	755.9	749.0	745.7	741.9	71.5	112.7
15°	728.8	736.6	748.6	748.7	732.9	716.3	707.4	104.1	216.8
20°	722.5	731.1	745.9	741.9	711.6	682.4	668.7	134.6	351.4
25°	707.4	710.1	723.4	713.1	669.4	627.0	613.5	158.4	509.9
30°	625.1	622.7	643.6	650.9	594.8	541.3	531.4	165.9	675.7
35°	454.3	465.0	515.3	546.7	478.1	404.7	385.8	148.3	824.0
40°	194.7	222.6	276.1	324.0	261.7	198.8	171.4	86.1	910.1
45°	52.4	51.4	56.0	64.9	54.8	51.5	51.3	21.3	931.5
50°	36.0	31.0	27.7	34.1	33.7	39.2	46.8	14.5	946.0
55°	27.7	25.7	21.5	23.0	24.8	33.2	42.0	12.2	958.2
60°	24.8	27.6	25.1	19.0	18.2	24.5	32.6	11.3	969.5
65°	33.0	23.0	22.5	18.8	16.0	23.0	31.5	11.2	980.7
70°	25.9	19.0	18.9	17.8	15.3	19.4	28.1	10.1	990.8
75°	12.6	8.9	10.2	12.8	12.0	13.0	13.0	6.1	996.9
80°	3.5	3.2	4.0	5.1	6.3	6.1	5.9	2.6	999.6
85°	0.3	0.3	0.4	0.5	1.1	1.3	1.4	0.4	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	20,9	22,2	21,2	22,5	22,8	20,4	21,7	20,7	22,0	22,3
	3H	21,3	22,4	21,7	22,8	23,1	20,9	22,0	21,3	22,4	22,7
	4H	21,4	22,5	21,8	22,8	23,2	21,1	22,2	21,5	22,5	22,9
	6H	21,4	22,4	21,8	22,7	23,1	21,2	22,1	21,6	22,5	22,9
	8H	21,5	22,3	21,9	22,7	23,1	21,3	22,1	21,7	22,5	22,9
	12H	21,5	22,2	21,9	22,6	23,0	21,3	22,0	21,7	22,4	22,8
4H	2H	20,8	21,8	21,2	22,2	22,6	20,3	21,3	20,7	21,7	22,1
	3H	21,4	22,2	21,8	22,6	23,0	20,9	21,8	21,3	22,2	22,6
	4H	21,5	22,3	22,0	22,7	23,1	21,2	22,0	21,7	22,4	22,8
	6H	21,5	22,2	22,0	22,6	23,1	21,4	22,0	21,8	22,5	22,9
	8H	21,5	22,1	22,0	22,5	23,0	21,4	22,0	21,9	22,4	22,9
	12H	21,5	22,0	22,0	22,4	22,9	21,4	21,9	21,9	22,4	22,9
8H	4H	21,5	22,1	22,0	22,6	23,0	21,3	21,9	21,7	22,3	22,8
	6H	21,5	22,0	22,0	22,5	23,0	21,5	21,9	22,0	22,4	22,9
	8H	21,5	21,9	22,0	22,4	22,9	21,5	21,9	22,0	22,4	22,9
	12H	21,5	21,8	22,0	22,3	22,9	21,5	21,8	22,0	22,3	22,9
12H	4H	21,5	22,0	22,0	22,5	23,0	21,3	21,8	21,8	22,2	22,7
	6H	21,6	21,9	22,1	22,4	23,0	21,5	21,8	22,0	22,3	22,9
	8H	21,5	21,8	22,0	22,3	22,9	21,5	21,8	22,0	22,3	22,9

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 600 B = 320
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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°		12788.3	12555.4	13674.9	15837.8	13386.5	12583.2	12517.3
50°		9670.1	8335.4	7453.3	9168.0	9059.8	10524.0	12557.8
55°		8332.8	7732.2	6468.0	6938.1	7453.8	9986.2	12642.4
60°		8562.7	9546.9	8665.3	6573.7	6278.8	8466.4	11248.6
65°		13488.7	9379.2	9201.1	7693.6	6519.9	9382.1	12881.3
70°		13093.3	9575.8	9552.1	8998.3	7734.7	9813.6	14181.2
75°		8392.0	5903.8	6787.0	8542.8	8002.4	8659.5	8678.9
80°		3480.0	3222.5	4005.0	5064.9	6281.9	6024.4	5858.3
85°		610.2	600.2	703.3	1024.2	2191.0	2541.6	2787.3

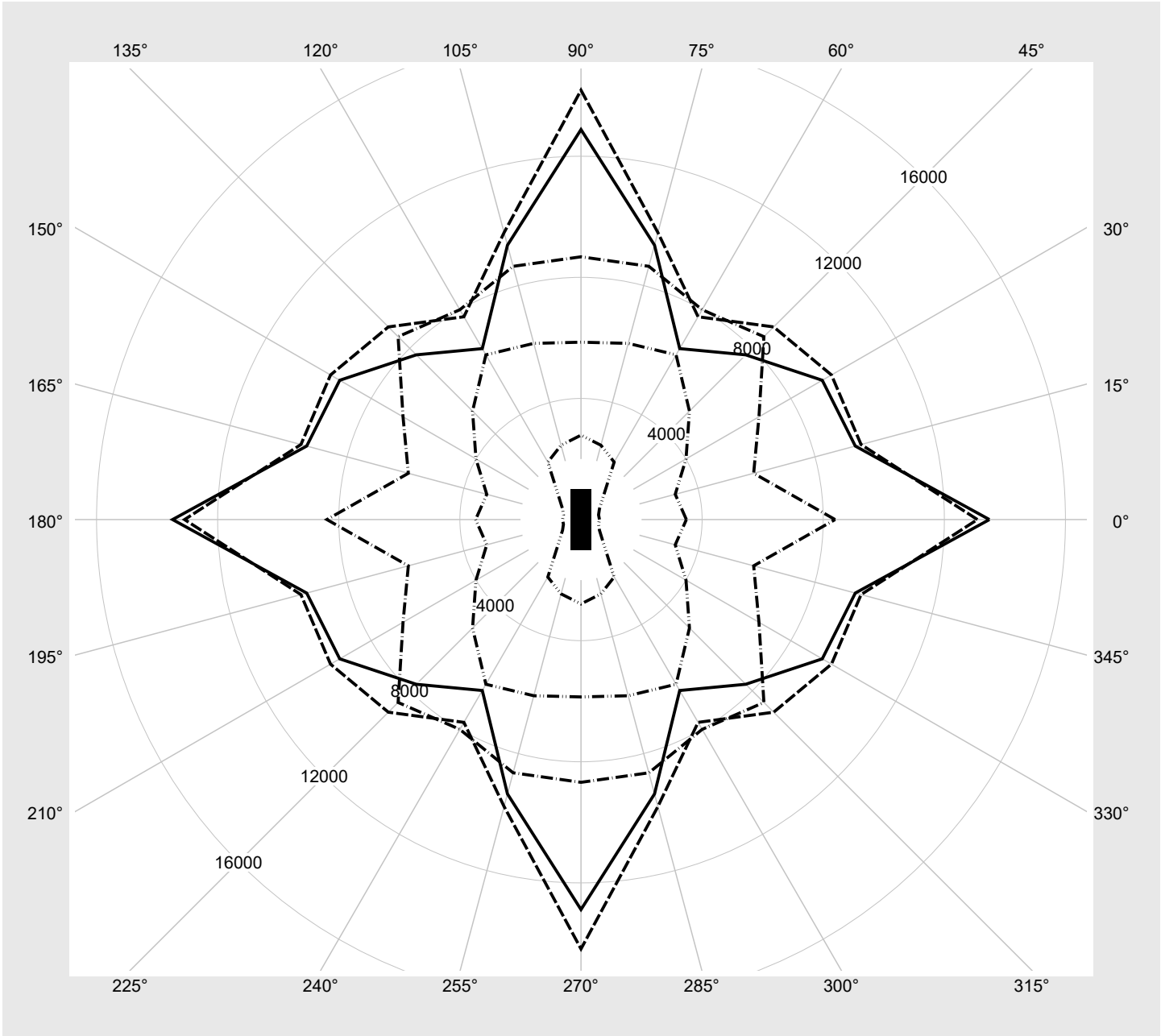
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Leuchtdichten in cd/m²

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	33150	189.6
95	240	252	31450	179.0
90	227	250	29852	169.1
85	213	248	28120	158.4
80	200	245	26494	148.5
75	187	243	24852	139.0
70	174	240	23201	129.3
65	161	237	21532	119.8
60	148	234	19854	110.4
55	136	231	18281	101.5
50	123	227	16574	92.0
45	110	223	14851	82.7
40	98	219	13249	74.2
35	86	214	11634	65.5
30	74	209	10004	57.1
25	61	202	8229	48.1
20	49	194	6577	39.5
15	37	183	4914	31.2
10	26	171	3371	23.3
5	14	148	1683	14.9
1	4	102	268	7.9