

Lichttechnischer Prüfbefund

Familie
Highbay 21

Bestell-Nr.: 51HLA2D24MLB
EAN: 4058352417973

LP-Nummer
58922_23



Ausführung breit strahlend, UGR≤22
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 27600 lm
 Systemleistung = 171.1 W
 Lichtausbeute = 161.3 lm/W

Seriendokumentation
01.07.2020

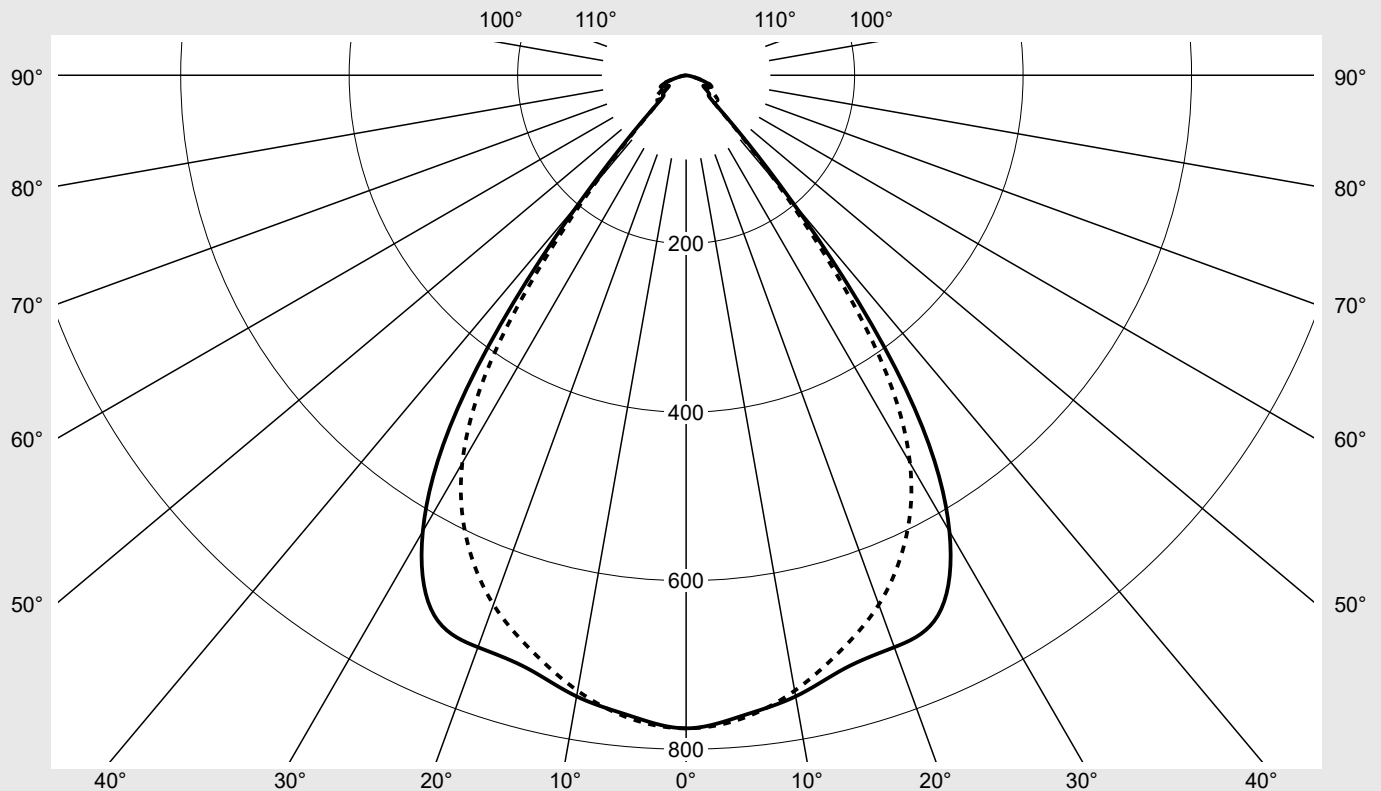
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Lichtstärke in cd/klm

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

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

Lichttechnische Abmessungen in mm: L = 600, B = 320

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°		10647.3	10453.3	11385.4	13186.2	11145.3	10476.5	10421.6
50°		8051.1	6939.9	6205.4	7633.1	7543.0	8762.0	10455.4
55°		6937.7	6437.7	5385.1	5776.6	6205.9	8314.3	10525.8
60°		7129.1	7948.5	7214.5	5473.1	5227.6	7048.9	9365.3
65°		11230.5	7809.0	7660.7	6405.5	5428.3	7811.3	10724.7
70°		10901.2	7972.6	7952.9	7491.8	6439.8	8170.6	11807.0
75°		6987.0	4915.4	5650.7	7112.5	6662.7	7209.7	7225.8
80°		2897.4	2683.0	3334.5	4216.9	5230.2	5015.8	4877.5
85°		508.0	499.8	585.5	852.7	1824.2	2116.1	2320.6

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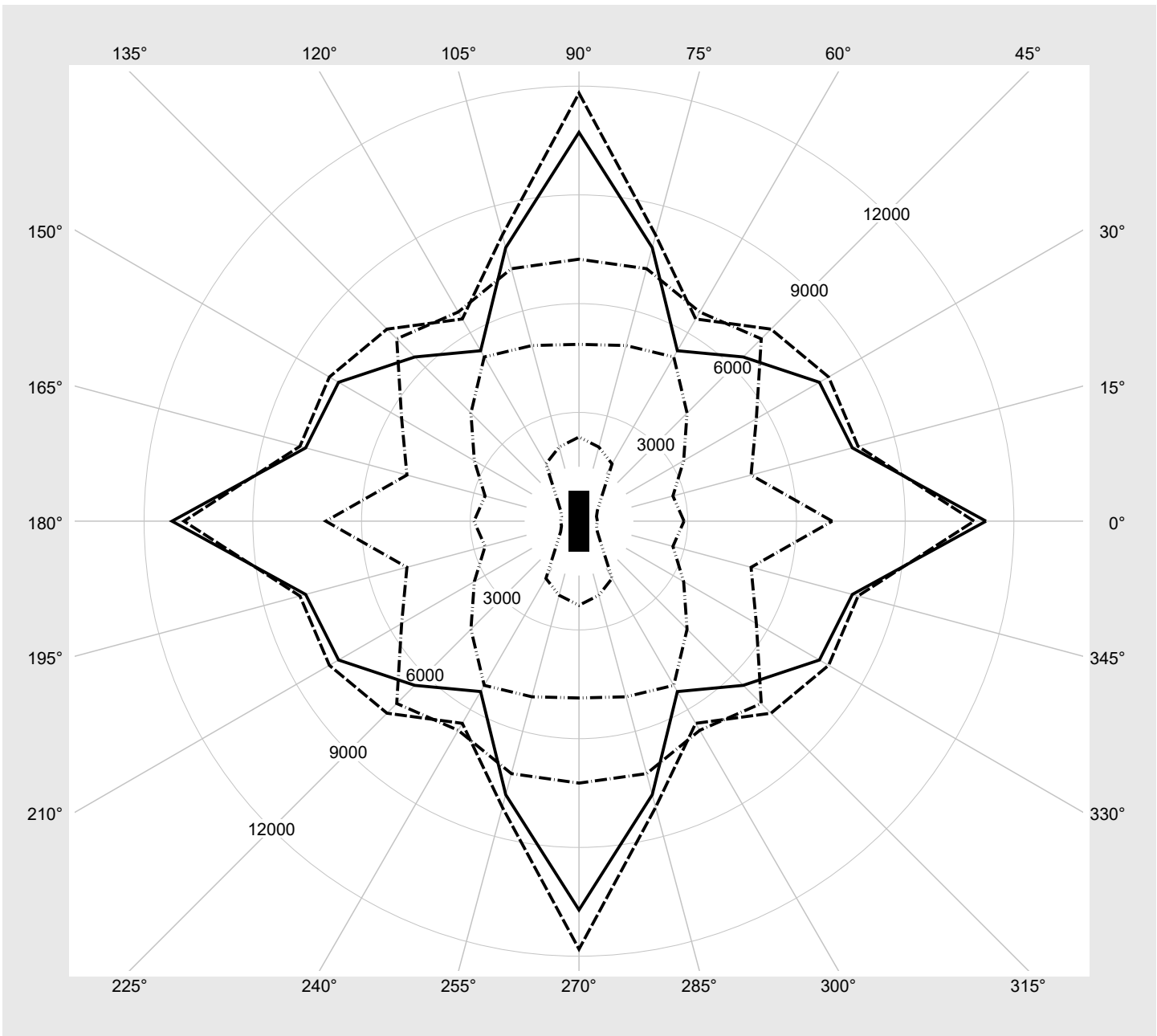
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Leuchtdichten in cd/m²

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	27600	171.1
95	240	252	26209	161.3
90	227	250	24884	152.0
85	213	248	23458	142.3
80	200	245	22116	133.3
75	186	243	20660	123.5
70	173	240	19286	114.7
65	160	237	17904	105.8
60	148	234	16606	97.5
55	135	231	15194	88.7
50	122	227	13767	79.9
45	110	223	12436	71.8
40	97	219	10988	63.2
35	85	214	9641	55.2
30	73	208	8280	47.2
25	61	202	6911	39.4
20	49	194	5528	31.5
15	37	183	4134	23.7
10	25	169	2729	16.0
5	14	148	1432	8.9
1	5	110	364	3.2