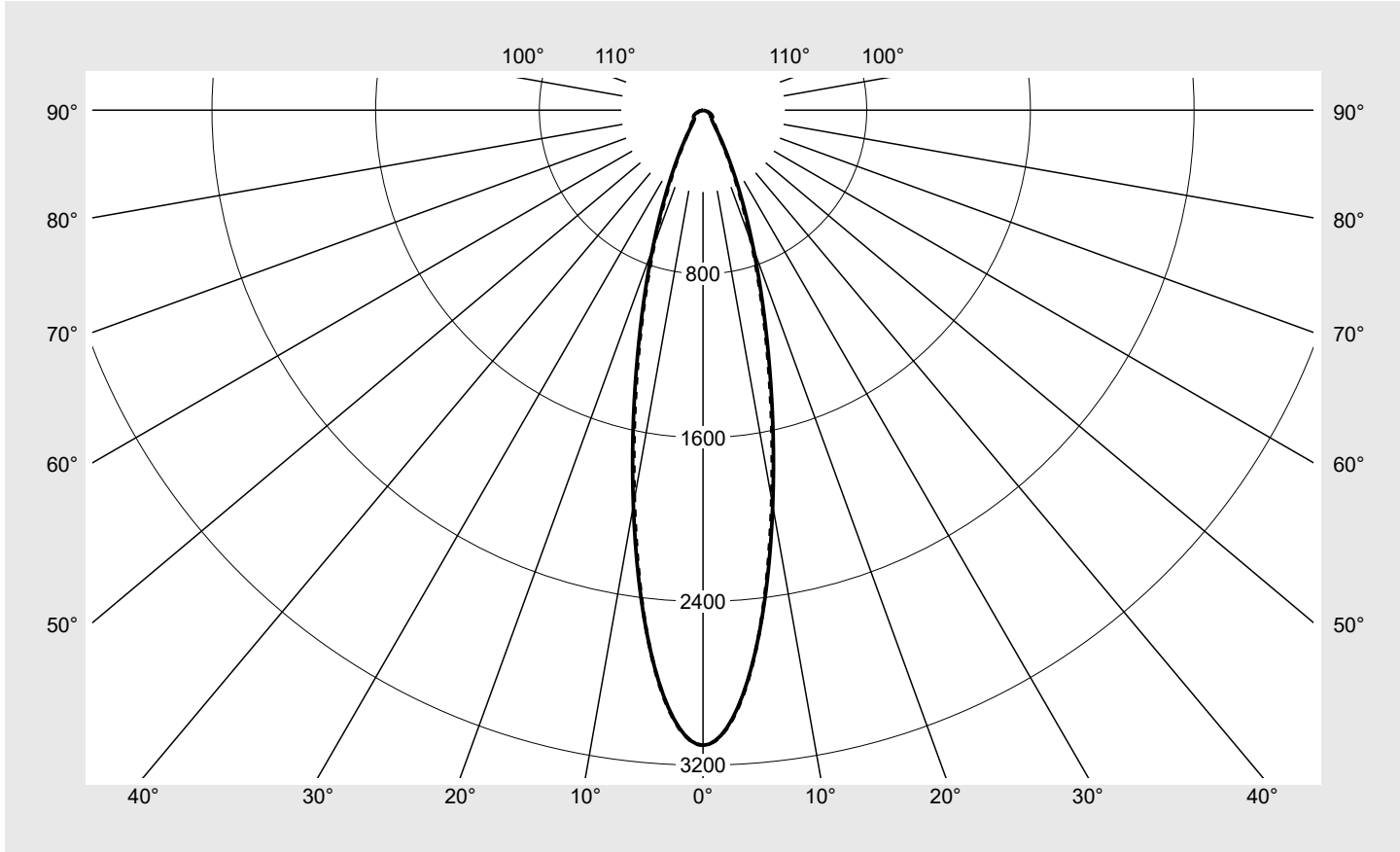


Lichttechnischer Prüfbefund

Familie Highbay 11	Bestell-Nr.: 51HL61D24HCA + 59HL91001 EAN: 4058352348895 + 4058352323519	LP-Nummer 58920_7
Ausführung	eng strahlend, UGR≤22, Einscheibensicherheitsglas (ESG)	Seriendokumentation 13.06.2019
Bestückung	LED 4000 K CRI ≥ 80	
Betriebsgerät	EVG-DALI	
Bemessungswerte	Nettolichtstrom = 18890 lm Systemleistung = 111.2 W Lichtausbeute = 169.9 lm/W	



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

Lichttechnischer Prüfbefund

Familie Highbay 11	Bestell-Nr.: 51HL61D24HCA + 59HL91001 EAN: 4058352348895 + 4058352323519	LP-Nummer 58920_7
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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	
		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	

Lichttechnischer Prüfbefund

Familie Highbay 11	Bestell-Nr.: 51HL61D24HCA + 59HL91001 EAN: 4058352348895 + 4058352323519	LP-Nummer 58920_7
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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	17,3	18,4	17,6	18,8	19,1	16,2	17,4	16,6	17,7	18,0
	3H	18,7	19,8	19,1	20,1	20,4	17,6	18,6	18,0	19,0	19,3
	4H	19,1	20,0	19,5	20,4	20,8	18,1	19,1	18,5	19,4	19,8
	6H	19,2	20,0	19,6	20,4	20,8	18,5	19,3	18,9	19,7	20,1
	8H	19,3	20,0	19,7	20,4	20,8	18,6	19,3	19,0	19,7	20,1
	12H	19,2	19,9	19,7	20,3	20,7	18,6	19,3	19,0	19,7	20,1
4H	2H	18,0	18,9	18,4	19,3	19,7	17,2	18,2	17,6	18,5	18,9
	3H	19,5	20,3	20,0	20,7	21,1	18,7	19,5	19,1	19,9	20,3
	4H	19,9	20,7	20,4	21,1	21,5	19,3	20,0	19,7	20,4	20,8
	6H	20,1	20,7	20,5	21,1	21,6	19,6	20,2	20,1	20,6	21,1
	8H	20,1	20,6	20,6	21,0	21,5	19,7	20,2	20,2	20,7	21,1
	12H	20,1	20,5	20,5	21,0	21,5	19,7	20,1	20,2	20,6	21,1
8H	4H	20,1	20,6	20,6	21,1	21,6	19,5	20,0	20,0	20,5	21,0
	6H	20,3	20,7	20,8	21,2	21,7	19,9	20,3	20,4	20,8	21,3
	8H	20,2	20,6	20,7	21,1	21,6	19,9	20,3	20,5	20,8	21,3
	12H	20,2	20,5	20,7	21,0	21,6	19,9	20,3	20,5	20,8	21,3
12H	4H	20,1	20,6	20,6	21,0	21,5	19,5	19,9	20,0	20,4	20,9
	6H	20,3	20,6	20,8	21,1	21,6	19,9	20,2	20,4	20,7	21,2
	8H	20,2	20,5	20,8	21,0	21,6	19,9	20,2	20,5	20,8	21,3

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 590 B = 312
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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°		8678.3	8728.7	9416.5	10316.2	9953.6	9322.6	9123.8
50°		9383.3	9575.6	10274.7	10603.7	9121.5	7894.0	7740.3
55°		10106.4	10297.5	10865.5	10542.6	9169.5	7855.0	7805.1
60°		10333.7	10413.9	10701.0	10707.2	9280.8	7898.7	7796.7
65°		9871.9	9818.3	10062.5	10319.2	9004.3	7766.2	7691.2
70°		8533.0	8467.0	8751.2	9059.9	8236.0	7329.3	7305.0
75°		5975.9	6167.8	6557.5	7137.6	6673.7	6504.4	6673.7
80°		3158.7	3290.4	3658.6	4058.7	4377.8	4416.2	5351.7
85°		541.6	544.0	666.4	916.0	1311.6	1582.4	2151.1

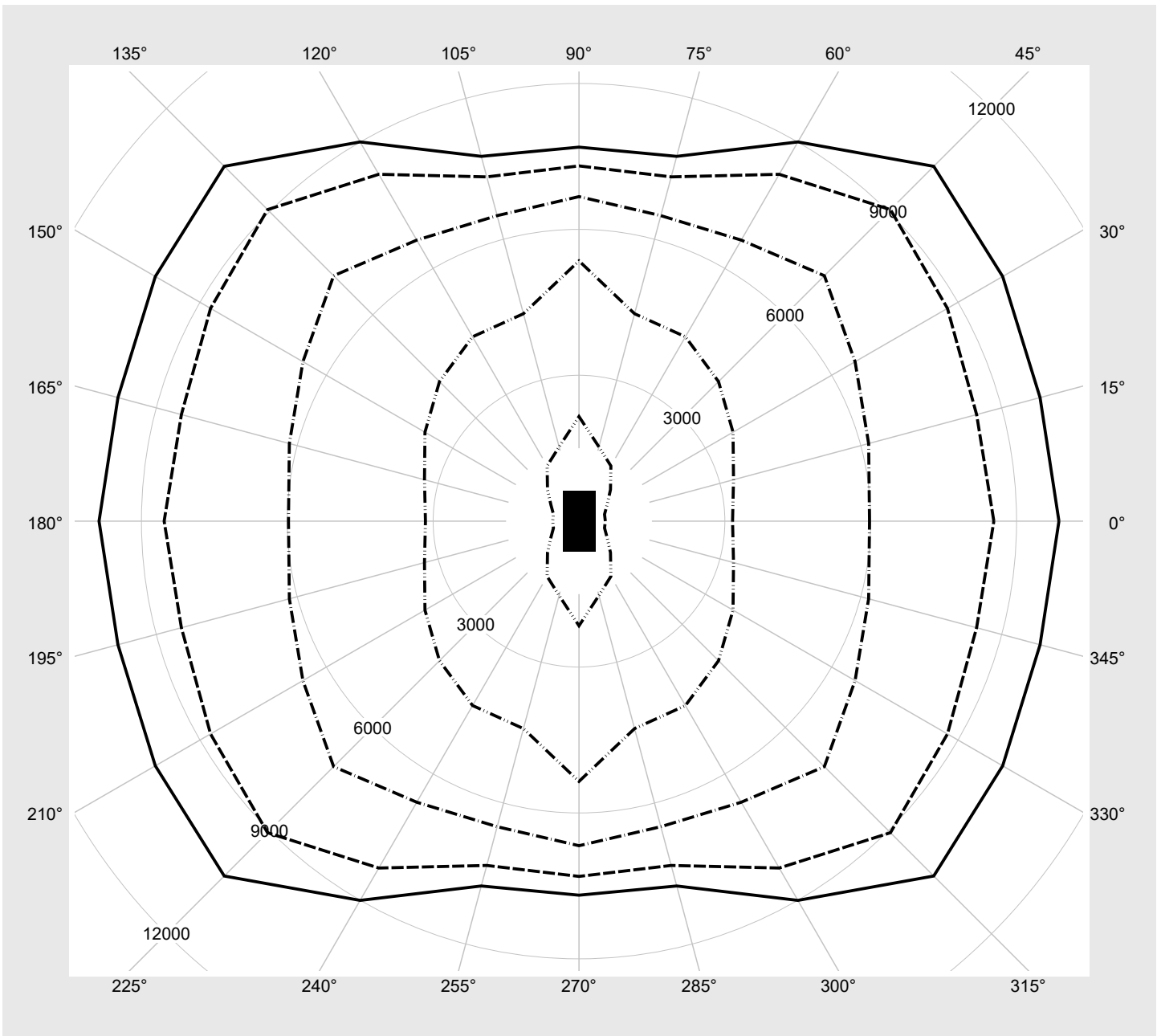
Lichttechnischer Prüfbefund

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Leuchtdichten in cd/m²

γ 65°	γ 70°	γ 75°	γ 80°	γ 85°
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Lichttechnischer Prüfbefund

Familie Highbay 11	Bestell-Nr.: 51HL61D24HCA + 59HL91001 EAN: 4058352348895 + 4058352323519	LP-Nummer 58920_7
Dimmstufen-Tabelle		sITeco
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	18890	111.2
95	241	252	17946	105.5
90	228	250	17001	100.0
85	215	248	16057	94.3
80	202	246	15112	89.0
75	189	244	14168	83.5
70	176	241	13223	78.2
65	163	239	12279	73.0
60	151	236	11334	67.5
55	138	233	10390	62.3
50	125	230	9445	57.1
45	113	226	8501	51.9
40	100	222	7556	47.0
35	88	218	6612	41.5
30	76	213	5667	36.5
25	63	208	4723	31.6
20	51	202	3778	26.6
15	39	194	2834	21.5
10	27	184	1888	16.4