

Lichttechnischer Prüfbefund

Familie
Highbay 11



Bestell-Nr.: 51HLA1D24NCA + 59HL91004
EAN: 4058352322932 + 4058352341674

LP-Nummer
58926_4

Seriendokumentation
13.06.2019

Ausführung eng strahlend, UGR≤25, Prismenabdeckung, PC, LLD
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 30010 lm
Systemleistung = 189.6 W
Lichtausbeute = 158.3 lm/W

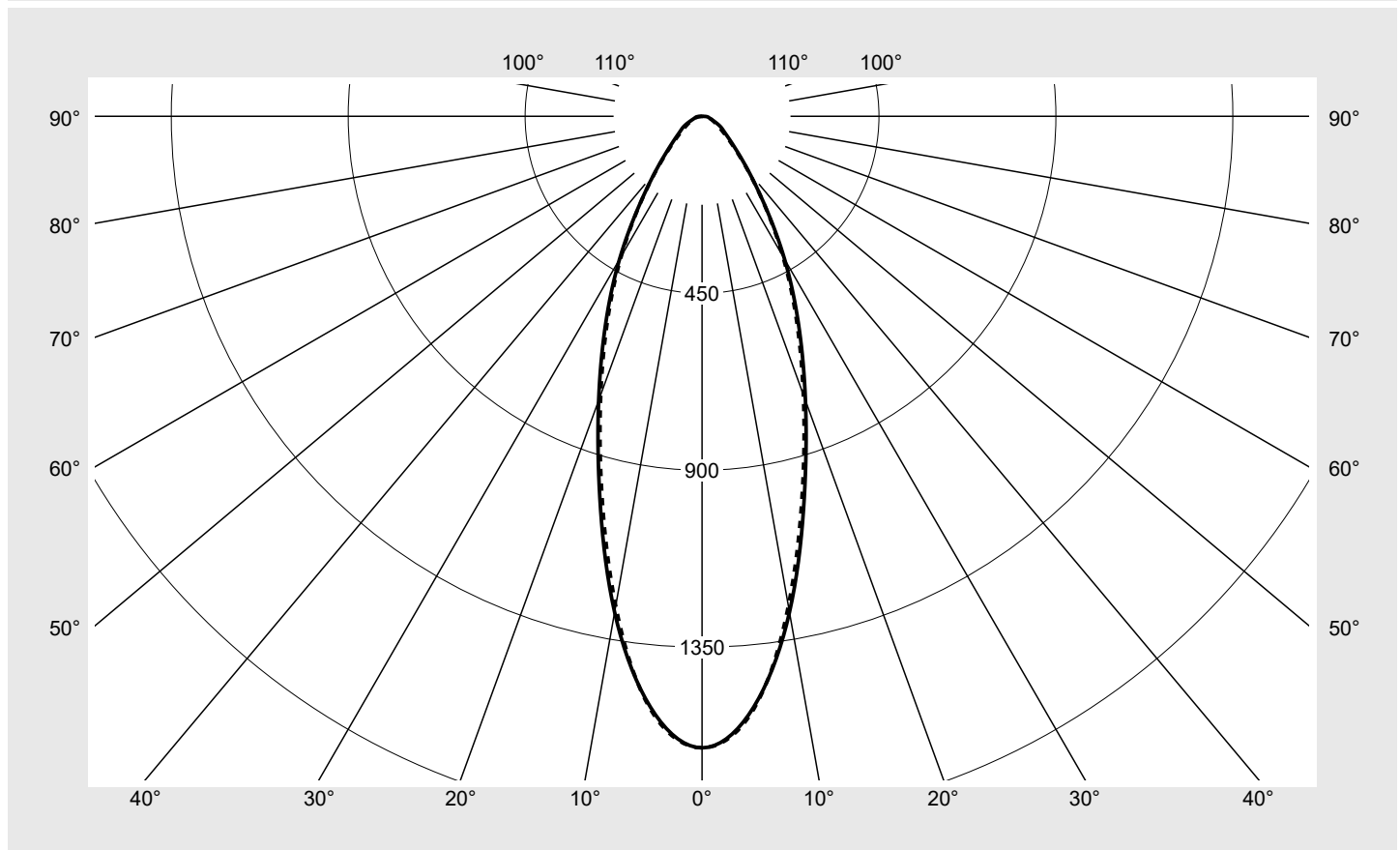
sitEco

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

Lichttechnischer Prüfbefund

Familie Highbay 11	Bestell-Nr.: 51HLA1D24NCA + 59HL91004 EAN: 4058352322932 + 4058352341674	LP-Nummer 58926_4
Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

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

Lichttechnischer Prüfbefund

Familie Highbay 11	Bestell-Nr.: 51HLA1D24NCA + 59HL91004 EAN: 4058352322932 + 4058352341674	LP-Nummer 58926_4
------------------------------	---	-----------------------------

UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	19,9	21,2	20,2	21,5	21,8	19,4	20,7	19,8	21,0	21,3
	3H	20,7	21,8	21,1	22,2	22,5	20,3	21,4	20,6	21,7	22,1
	4H	21,1	22,1	21,5	22,5	22,8	20,7	21,7	21,1	22,1	22,4
	6H	21,5	22,4	21,9	22,8	23,2	20,9	21,9	21,3	22,3	22,7
	8H	21,8	22,6	22,2	23,0	23,4	21,1	21,9	21,5	22,3	22,7
	12H	22,0	22,8	22,5	23,2	23,6	21,2	22,0	21,6	22,4	22,8
4H	2H	20,2	21,3	20,6	21,6	22,0	19,8	20,9	20,2	21,2	21,6
	3H	21,2	22,1	21,6	22,5	22,9	20,8	21,7	21,3	22,1	22,5
	4H	21,7	22,4	22,1	22,9	23,3	21,3	22,1	21,7	22,5	22,9
	6H	22,2	22,9	22,7	23,3	23,8	21,6	22,3	22,1	22,8	23,2
	8H	22,5	23,1	23,0	23,6	24,1	21,8	22,4	22,3	22,8	23,3
	12H	22,9	23,4	23,4	23,9	24,4	22,0	22,5	22,4	22,9	23,4
8H	4H	21,8	22,4	22,3	22,9	23,3	21,5	22,1	22,0	22,5	23,0
	6H	22,5	23,0	23,0	23,5	24,0	21,9	22,4	22,4	22,9	23,4
	8H	23,0	23,4	23,5	23,9	24,4	22,1	22,6	22,6	23,0	23,6
	12H	23,5	23,8	24,0	24,3	24,9	22,3	22,7	22,9	23,2	23,7
12H	4H	21,8	22,3	22,3	22,8	23,3	21,5	22,0	22,0	22,5	23,0
	6H	22,6	23,0	23,1	23,5	24,0	22,0	22,4	22,5	22,9	23,5
	8H	23,1	23,4	23,6	23,9	24,5	22,2	22,6	22,8	23,1	23,7

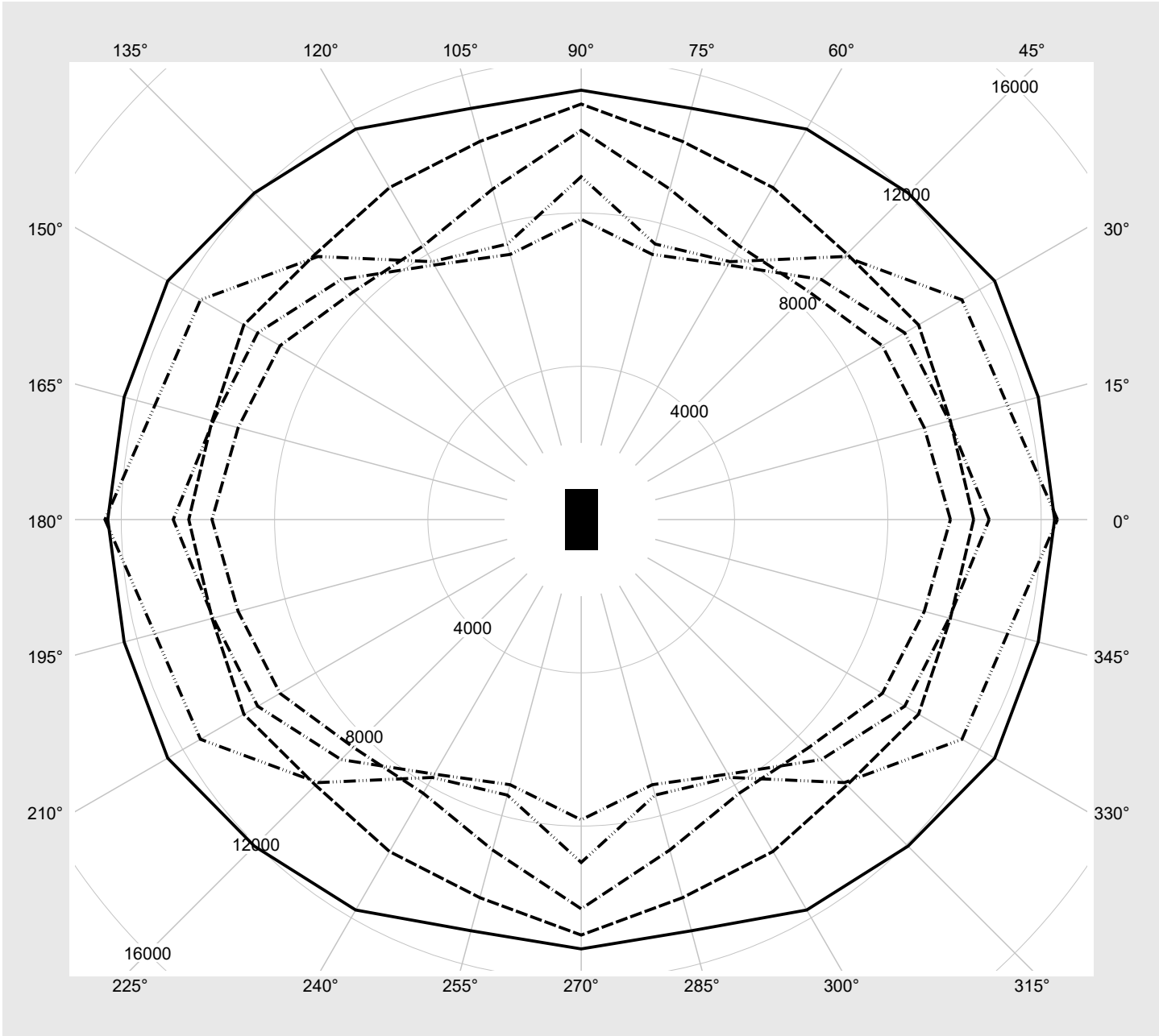
Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$	Lichttechnische Abmessungen in mm: L = 612 B = 330	H(C0) = 21	H(C180) = 21	H(C90) = 21	H(C270) = 21
--	---	------------	--------------	-------------	--------------

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°	45°	24958.7	23170.1	19426.2	17540.6	19650.7	22801.9	24540.3	
50°	50°	19472.2	18334.5	15913.4	14537.3	15791.2	17453.1	18363.6	
55°	55°	16361.4	15829.7	14426.0	13298.5	13571.9	14164.9	14635.0	
60°	60°	14843.0	14130.2	13560.3	12788.8	12367.6	12120.6	12387.9	
65°	65°	12351.5	12345.1	12455.8	12057.0	11767.3	11111.5	11206.5	
70°	70°	10238.7	9970.5	10163.0	9804.7	10004.3	10217.3	10844.8	
75°	75°	9632.8	9266.1	9073.7	8407.8	8247.8	8929.9	10160.1	
80°	80°	10644.1	9939.1	9745.9	8860.1	7671.8	7164.9	7838.0	
85°	85°	12425.4	11516.1	11470.3	9710.0	7772.2	7445.9	8949.5	

Lichttechnischer Prüfbefund

Familie Highbay 11	Bestell-Nr.: 51HLA1D24NCA + 59HL91004 EAN: 4058352322932 + 4058352341674	LP-Nummer 58926_4
-------------------------------------	---	------------------------------------

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



Lichttechnischer Prüfbefund

Familie Highbay 11	Bestell-Nr.: 51HLA1D24NCA + 59HL91004 EAN: 4058352322932 + 4058352341674	LP-Nummer 58926_4
Dimmstufen-Tabelle		sITeco
Umgebungstemperatur: 25°C		

Lichtstrom [%]	Dimmstufe linear	Dimmstufe logarithmisch	Lichtstrom [lm]	Systemleistung [W]
100	254	254	30010	189.6
95	240	252	28510	179.4
90	227	250	27009	169.2
85	213	248	25509	158.9
80	200	245	24008	148.9
75	187	243	22508	139.4
70	174	240	21007	129.6
65	161	237	19507	120.1
60	148	234	18006	110.8
55	135	231	16506	101.4
50	123	227	15005	92.3
45	110	224	13505	83.2
40	98	219	12004	74.4
35	85	214	10504	65.5
30	73	209	9003	56.9
25	61	202	7503	48.4
20	49	194	6002	39.9
15	37	184	4502	31.4
10	25	170	3000	23.0