

Photometric test report

Family
Highbay 11



Order number: 51HN11DB3MLA
EAN: 4069025424266

Version

Lamps

Controlgear

Rated values

primary light control with lens, PMMA, housing, white, for Licross® rail, narrow distribution

LED 3000 K | CRI ≥ 80

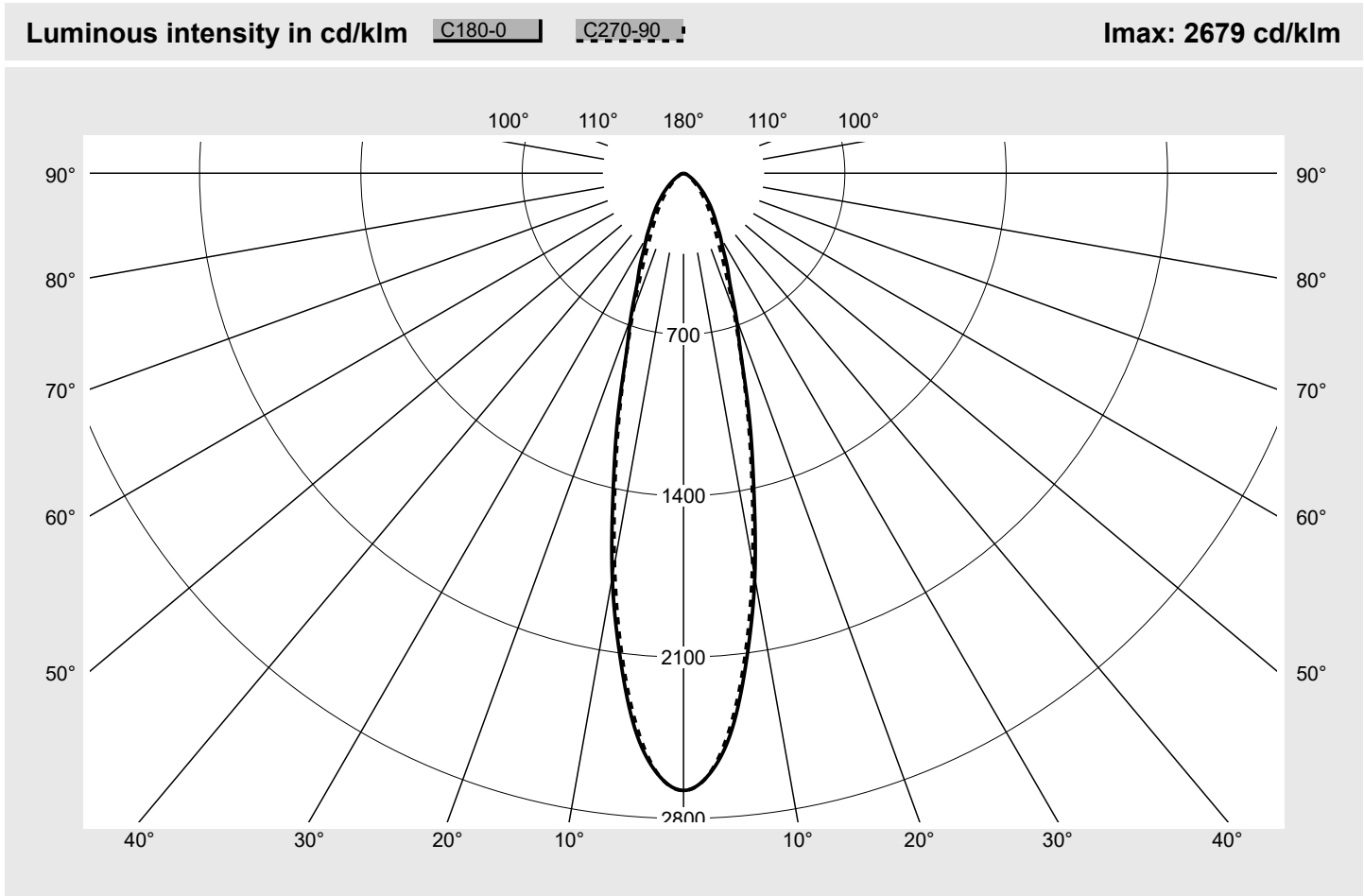
ECG-DALI

Net luminous flux = 28480 lm
Power consumption = 146.3 W
Luminous efficacy = 194.7 lm/W

LP number
59711_393

serial
documentation
09.04.2025

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Classifications		Luminaire light output ratios	
DIN 5040	A 7 0	η_{LB}	100.0%
CIE	N1=85 N2=97 N3=100	ϕ_u	100.0%
	N4=100 N5=100	ϕ_o	0.0%

Measurement conditions	
DIN EN 13032 and DIN 5032	

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Table of values for luminous intensities		Maximum luminous intensity

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C- planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0,0°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	4.0	4.0
2,5°	2608.0	2619.4	2619.4	2616.5	2617.6	2616.2	2606.1	31.3	35.3
5,0°	2420.1	2415.7	2414.1	2408.4	2406.6	2402.3	2391.7	57.6	92.8
7,5°	2113.4	2116.1	2112.3	2103.0	2097.6	2090.5	2079.6	75.2	168.1
10,0°	1780.1	1768.7	1762.7	1751.6	1743.6	1735.2	1724.7	83.4	251.5
12,5°	1410.1	1409.3	1404.7	1395.9	1388.1	1380.5	1373.1	82.8	334.3
15,0°	1106.5	1097.8	1095.0	1089.4	1083.1	1078.4	1073.9	77.3	411.5
17,5°	830.1	840.2	835.5	831.1	826.6	824.9	824.1	68.5	480.0
20,0°	671.1	661.9	651.8	643.2	639.9	639.4	641.0	60.8	540.8
22,5°	531.9	530.5	514.2	498.9	497.0	496.6	496.8	53.4	594.2
25,0°	450.6	441.3	420.6	401.3	399.0	395.8	392.4	47.9	642.1
27,5°	370.8	368.7	351.4	331.7	326.8	321.1	316.0	43.1	685.2
30,0°	320.4	312.1	300.8	284.1	278.0	270.2	264.7	39.7	724.9
32,5°	271.0	266.8	259.0	245.6	238.0	229.0	224.7	36.5	761.4
35,0°	235.8	228.9	222.7	210.5	201.6	193.0	191.7	33.3	794.7
37,5°	204.4	197.8	191.5	181.1	172.0	164.3	162.4	30.3	825.0
40,0°	176.7	170.7	163.1	154.3	146.1	138.3	135.6	27.3	852.2
42,5°	147.6	145.5	138.6	130.6	123.2	115.8	113.3	24.2	876.4
45,0°	126.0	121.8	116.3	109.0	102.0	95.3	93.2	21.1	897.6
47,5°	103.2	101.5	97.1	90.9	84.6	78.4	76.7	18.3	915.9
50,0°	85.9	82.9	79.4	74.6	69.1	63.7	61.9	15.5	931.4
52,5°	69.0	67.2	64.5	61.0	56.2	51.6	49.7	13.0	944.4
55,0°	55.6	54.1	52.2	49.5	45.7	41.7	40.0	10.9	955.3
57,5°	43.6	43.1	41.8	39.8	37.0	33.6	32.2	9.0	964.3
60,0°	33.2	33.3	33.9	32.4	30.5	27.5	26.1	7.4	971.7
62,5°	25.9	26.0	27.0	26.2	25.1	22.4	21.3	6.1	977.8
65,0°	21.6	21.2	21.7	21.3	20.9	18.8	17.7	5.1	982.9
67,5°	17.0	17.1	17.8	17.0	17.3	15.6	14.8	4.3	987.2
70,0°	13.5	13.4	14.4	13.6	14.1	13.0	12.4	3.5	990.7
72,5°	11.0	10.8	10.9	10.9	11.0	10.7	10.6	2.8	993.5
75,0°	9.0	8.4	8.4	8.3	8.6	9.0	8.9	2.3	995.8
77,5°	6.6	6.4	6.2	6.2	6.6	7.3	7.4	1.8	997.5
80,0°	4.4	4.2	4.1	4.2	4.7	5.7	5.8	1.3	998.8
82,5°	2.0	2.1	2.2	2.4	3.0	3.9	4.1	0.8	999.6
85,0°	0.8	0.8	0.8	1.0	1.5	2.2	2.4	0.4	999.9
87,5°	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.1	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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UGR-Table	Standard room	siteco

Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	18.7	19.9	19.1	20.2	20.5	17.5	18.7	17.9	19.0	19.3
	3H	19.0	20.0	19.3	20.3	20.7	17.8	18.8	18.2	19.2	19.5
	4H	19.0	20.0	19.4	20.3	20.7	18.0	18.9	18.3	19.3	19.6
	6H	19.1	19.9	19.5	20.3	20.7	18.1	18.9	18.5	19.3	19.7
	8H	19.1	19.8	19.6	20.2	20.6	18.2	18.9	18.6	19.3	19.7
	12H	19.1	19.8	19.5	20.1	20.6	18.2	18.9	18.6	19.3	19.7
4H	2H	18.8	19.7	19.2	20.1	20.4	17.7	18.7	18.1	19.0	19.4
	3H	19.1	19.9	19.5	20.3	20.7	18.1	18.9	18.6	19.3	19.7
	4H	19.2	19.9	19.7	20.3	20.8	18.3	19.0	18.8	19.4	19.9
	6H	19.3	19.9	19.7	20.3	20.8	18.5	19.1	19.0	19.5	20.0
	8H	19.3	19.8	19.8	20.2	20.7	18.6	19.1	19.1	19.6	20.0
	12H	19.3	19.7	19.8	20.2	20.7	18.6	19.1	19.1	19.5	20.0
8H	4H	19.2	19.7	19.7	20.2	20.6	18.3	18.8	18.8	19.3	19.8
	6H	19.3	19.7	19.8	20.2	20.7	18.6	19.0	19.1	19.5	20.0
	8H	19.3	19.6	19.8	20.1	20.7	18.7	19.0	19.2	19.5	20.1
	12H	19.2	19.5	19.8	20.0	20.6	18.7	19.0	19.3	19.5	20.1
12H	4H	19.2	19.6	19.7	20.1	20.6	18.3	18.8	18.8	19.2	19.7
	6H	19.3	19.6	19.8	20.1	20.6	18.6	18.9	19.1	19.4	19.9
	8H	19.2	19.5	19.8	20.0	20.6	18.7	19.0	19.2	19.5	20.0

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 852 B = 264	
C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45,0°	22560.1	21806.9	20824.6	19522.1	18265.0	17070.1	16688.0
50,0°	16912.6	16323.8	15632.4	14704.2	13601.7	12539.6	12184.6
55,0°	12271.8	11939.6	11525.9	10927.2	10085.5	9205.8	8835.8
60,0°	8419.9	8429.0	8585.7	8202.8	7715.1	6960.7	6613.3
65,0°	6464.6	6355.5	6499.6	6394.5	6259.3	5625.1	5317.1
70,0°	5008.5	4948.2	5315.8	5020.0	5209.6	4796.0	4583.5
75,0°	4390.7	4120.7	4130.0	4074.2	4203.3	4382.9	4375.1
80,0°	3203.2	3084.4	2983.7	3037.7	3394.3	4122.0	4205.8
85,0°	1185.5	1170.9	1224.7	1384.5	2125.4	3129.3	3546.2

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Luminance values in cd/m²

γ 65°

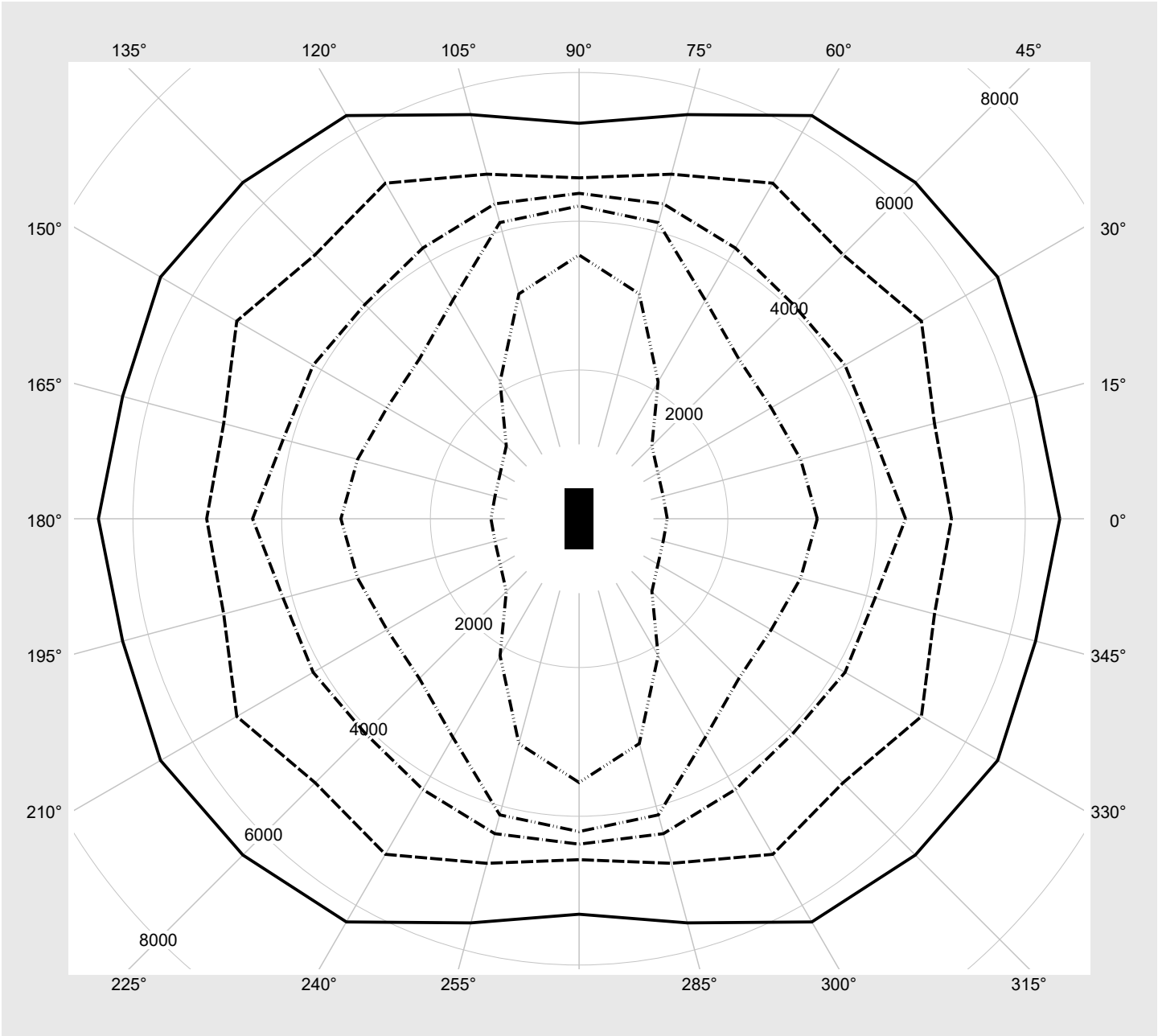
γ 70°

γ 75°

γ 80°

γ 85°

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Family Highbay 11	Order number: 51HN11DB3MLA EAN: 4069025424266	LP number 59711_393
Dimming levels table environmental temperature: 25°C		sit eco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	28480	146.3
95	241	252	27090	138.5
90	227	250	25584	130.1
85	214	248	24180	122.4
80	201	245	22765	114.8
75	188	243	21347	107.2
70	175	240	19914	99.6
65	162	238	18482	92.1
60	149	234	17041	84.6
55	137	231	15704	77.8
50	124	228	14249	70.4
45	111	224	12780	62.9
40	99	219	11420	56.1
35	86	214	9936	48.8
30	74	209	8562	42.2
25	62	202	7174	35.5
20	49	194	5668	28.4
15	37	183	4265	21.7
10	25	169	2859	15.3
5	13	145	1442	8.4
2	5	110	495	3.9