

Photometric test report

Family
Highbay 11



Order number: 51HN11DA4MLA01
EAN: 4069025373915

Version

Lamps

Controlgear

Rated values

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

LED 4000 K | CRI ≥ 80

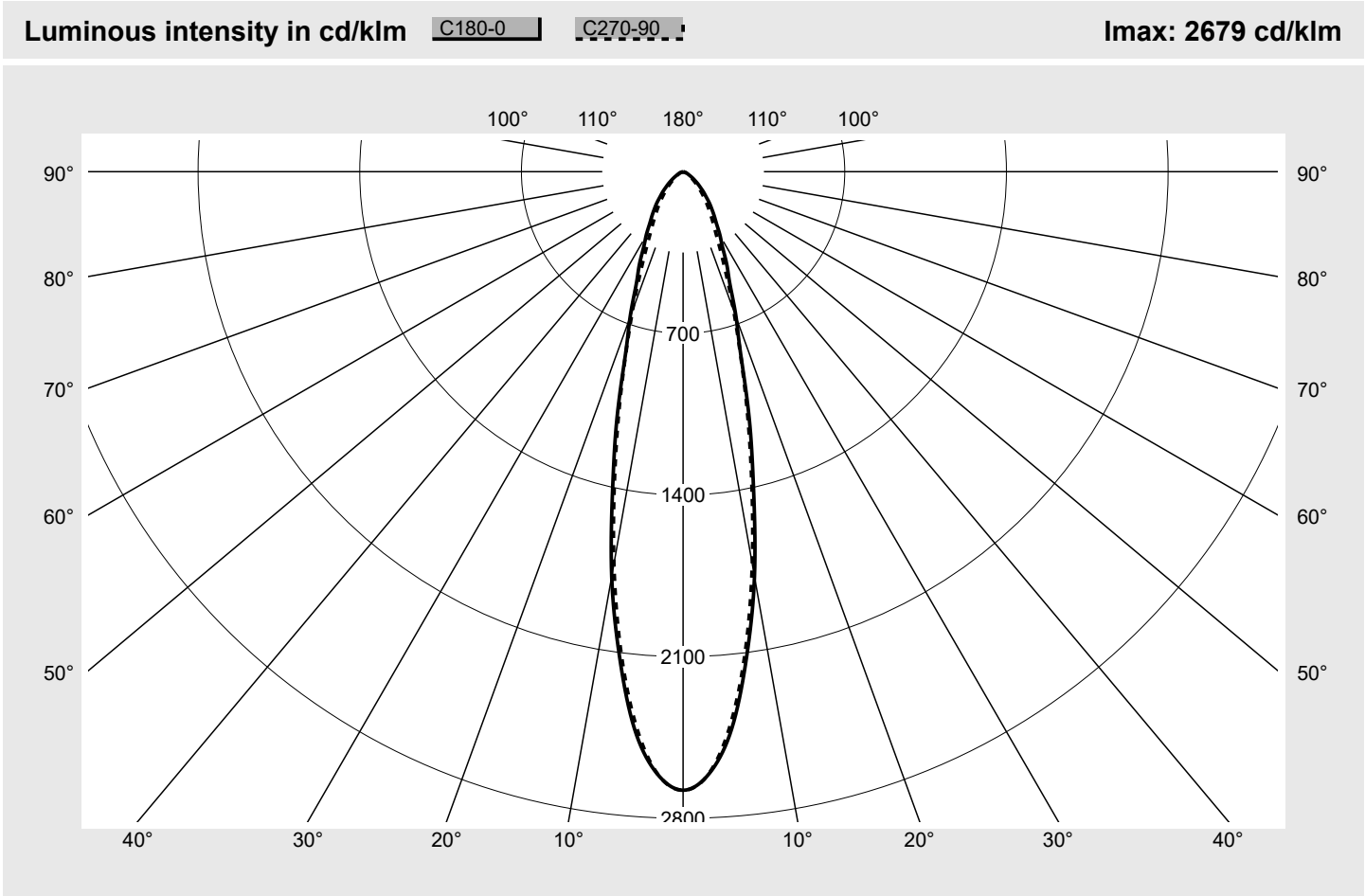
ECG-DALI

Net luminous flux = 28000 lm
Power consumption = 147.1 W
Luminous efficacy = 190.3 lm/W

LP number
59711_86

serial
documentation
31.01.2025

siteco



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	21.1	22.2	21.4	22.5	22.9	19.9	21.1	20.2	21.4	21.7
	3H	21.3	22.3	21.7	22.7	23.0	20.2	21.2	20.5	21.5	21.9
	4H	21.4	22.3	21.8	22.7	23.0	20.3	21.2	20.7	21.6	22.0
	6H	21.4	22.3	21.8	22.6	23.0	20.4	21.3	20.9	21.7	22.1
	8H	21.5	22.2	21.9	22.6	23.0	20.6	21.3	21.0	21.7	22.1
	12H	21.4	22.1	21.9	22.5	22.9	20.6	21.2	21.0	21.6	22.1
4H	2H	21.1	22.1	21.5	22.4	22.8	20.1	21.0	20.5	21.4	21.7
	3H	21.4	22.2	21.9	22.6	23.0	20.5	21.2	20.9	21.6	22.1
	4H	21.6	22.2	22.0	22.7	23.1	20.7	21.4	21.1	21.8	22.2
	6H	21.6	22.2	22.1	22.6	23.1	20.9	21.4	21.3	21.9	22.4
	8H	21.6	22.1	22.1	22.6	23.1	20.9	21.5	21.4	21.9	22.4
	12H	21.6	22.0	22.1	22.5	23.0	21.0	21.4	21.5	21.9	22.4
8H	4H	21.5	22.1	22.0	22.5	23.0	20.7	21.2	21.2	21.6	22.1
	6H	21.6	22.0	22.1	22.5	23.0	20.9	21.3	21.4	21.8	22.3
	8H	21.6	22.0	22.1	22.5	23.0	21.0	21.4	21.5	21.9	22.4
	12H	21.6	21.9	22.1	22.4	22.9	21.1	21.4	21.6	21.9	22.4
12H	4H	21.5	22.0	22.0	22.4	22.9	20.7	21.1	21.2	21.6	22.1
	6H	21.6	22.0	22.1	22.4	23.0	20.9	21.2	21.4	21.7	22.3
	8H	21.6	21.9	22.1	22.4	22.9	21.0	21.3	21.5	21.8	22.4

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 426 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°	44359.7	42878.8	40947.2	38386.1	35914.4	33564.8	32813.5
50,0°	33255.1	32097.3	30737.8	28912.7	26744.9	24656.4	23958.5
55,0°	24130.0	23476.8	22663.3	21486.1	19831.1	18101.3	17373.8
60,0°	16555.9	16573.8	16882.1	16129.2	15170.2	13686.8	13003.6
65,0°	12711.2	12496.8	12780.1	12573.4	12307.7	11060.5	10454.9
70,0°	9848.2	9729.6	10452.4	9870.8	10243.5	9430.4	9012.6
75,0°	8633.4	8102.4	8120.7	8011.0	8265.0	8618.0	8602.6
80,0°	6298.5	6064.8	5866.9	5973.0	6674.1	8105.0	8269.9
85,0°	2331.0	2302.4	2408.1	2722.3	4179.2	6153.1	6972.9

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Luminance values in cd/m²

γ 65°

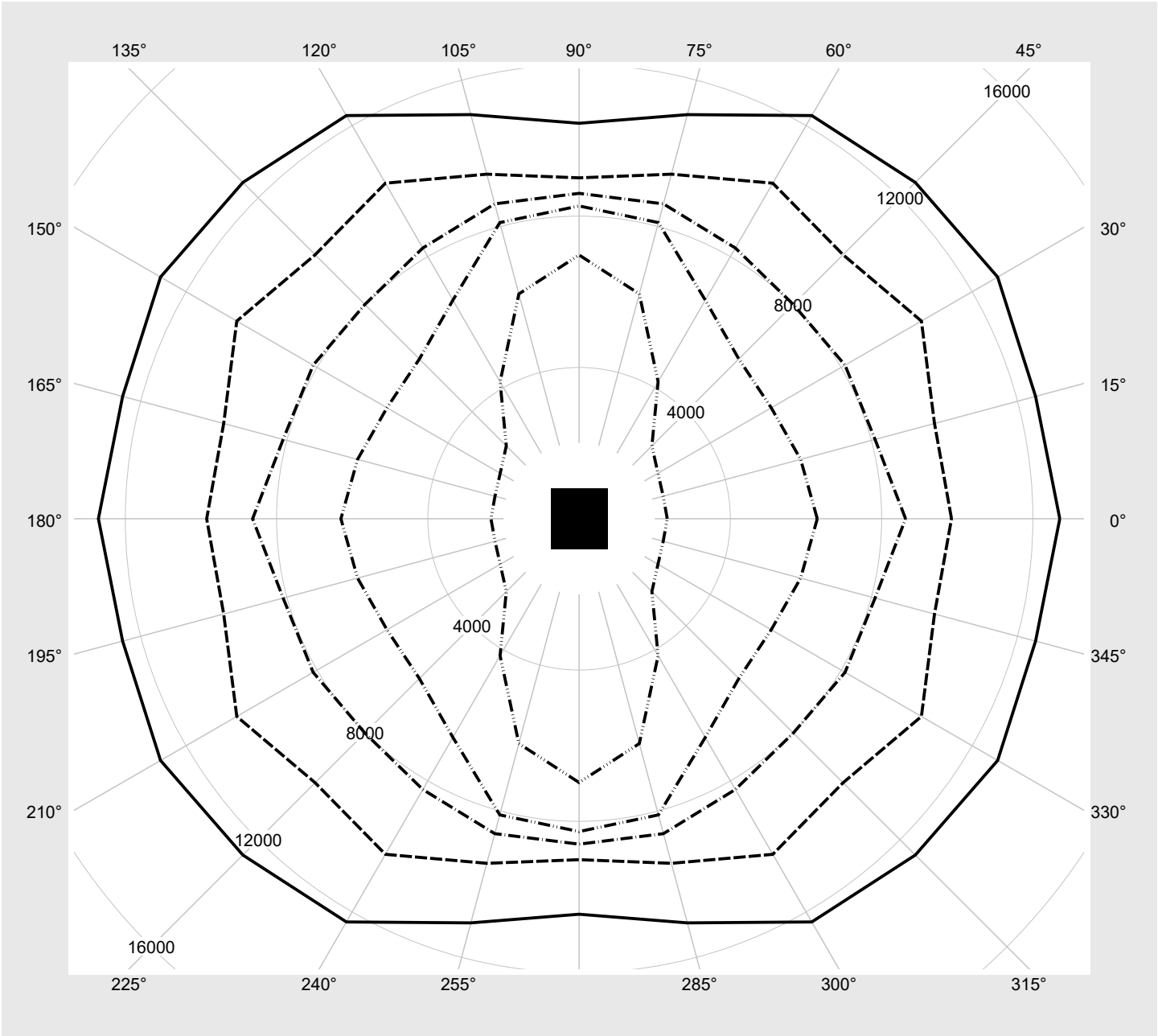
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table		environmental temperature: 25°C



Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	----	----	----	----
95	240	252	26584	138.7
90	227	250	25246	130.8
85	213	248	23796	122.4
80	200	245	22443	114.7
75	186	243	20975	106.4
70	173	240	19598	98.8
65	160	237	18213	91.2
60	147	234	16807	83.6
55	134	231	15399	76.2
50	121	227	13971	68.8
45	109	223	12641	62.0
40	96	218	11192	54.6
35	84	213	9836	47.8
30	71	207	8355	40.7
25	59	201	6969	34.0
20	47	192	5572	27.5
15	35	181	4154	21.1
10	24	168	2843	15.1
5	12	142	1395	8.3
2	5	110	539	4.4