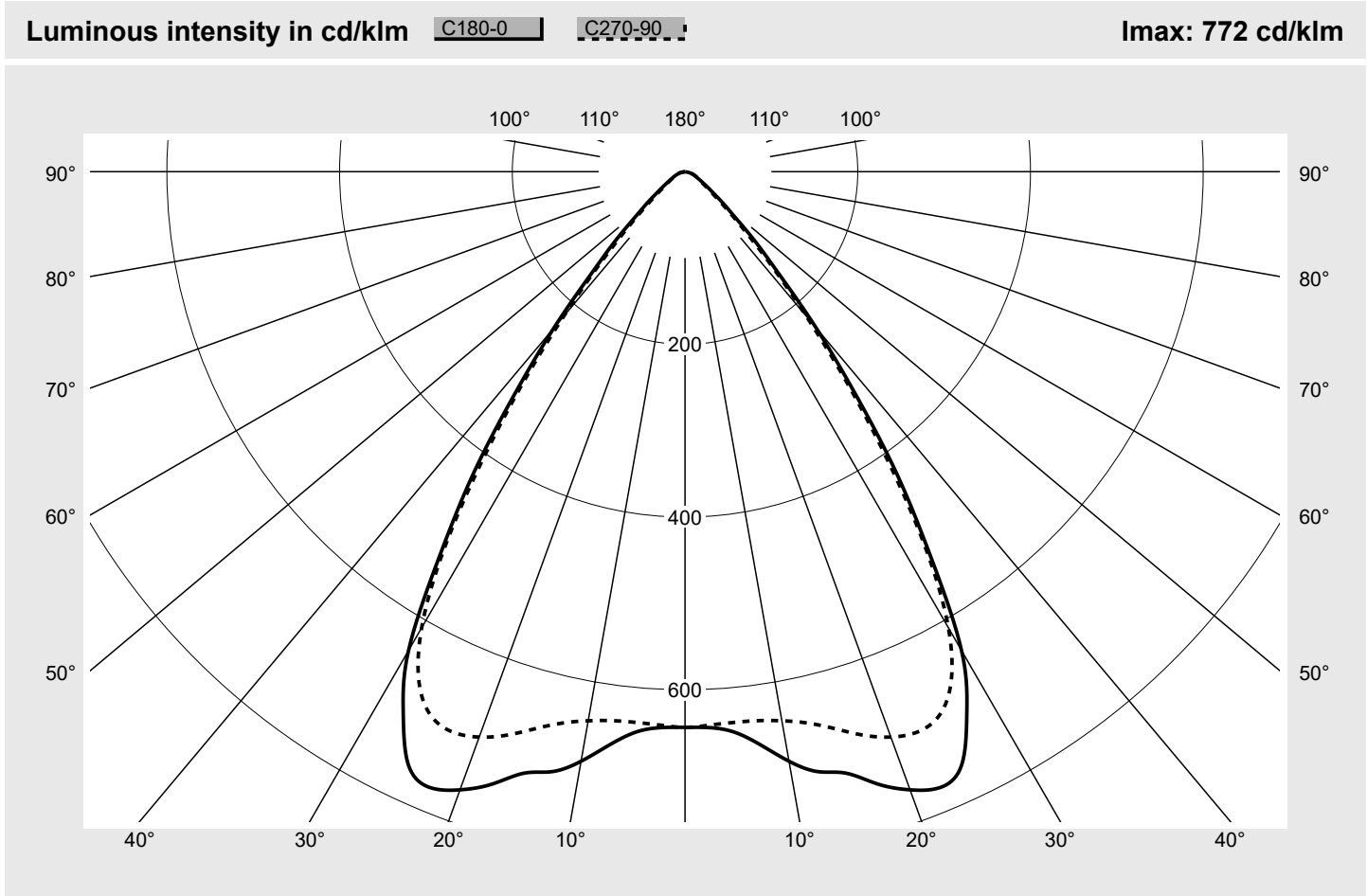


Photometric test report

Family Highbay 11	Order number: 51HN12DB4QLA01 EAN: 4069025374219	LP number 59710_87
	Version	primary light control with lens, PMMA, housing, white, for Licross® rail, wide distribution, with multisensor node BT
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 36000 lm Power consumption = 178.2 W Luminous efficacy = 202 lm/W
		serial documentation 31.01.2025
		



Classifications		Luminaire light output ratios	
DIN 5040	A 6 0	η_{LB}	100.0%
CIE	N1=88 N2=98 N3=100	ϕ_u	100.0%
	N4=100 N5=100	ϕ_o	0.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Highbay 11	Order number: 51HN12DB4QLA01 EAN: 4069025374219	LP number 59710_87
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	643.6	643.6	643.6	643.6	643.6	643.6	643.6	1.0	1.0
2,5°	644.5	645.1	645.0	644.3	644.2	643.7	641.7	7.7	8.7
5,0°	651.5	652.3	650.7	647.5	645.3	643.2	640.4	15.5	24.1
7,5°	669.6	669.1	664.2	657.2	651.2	645.8	641.3	23.5	47.6
10,0°	693.4	691.0	681.5	670.0	659.9	651.2	645.8	31.9	79.6
12,5°	711.8	709.4	700.3	685.9	671.9	660.7	654.0	40.7	120.2
15,0°	721.3	721.7	717.1	704.9	689.4	675.9	667.7	49.7	169.9
17,5°	743.8	740.8	737.9	726.5	708.9	693.0	684.2	59.4	229.3
20,0°	761.9	761.9	759.6	745.2	724.0	705.6	696.8	69.2	298.5
22,5°	772.0	771.2	770.0	754.7	731.1	710.8	702.6	78.2	376.7
25,0°	758.1	756.6	756.3	743.6	722.7	703.3	695.6	85.1	461.8
27,5°	706.7	709.5	709.5	700.0	685.7	672.3	667.0	87.8	549.7
30,0°	640.4	635.6	633.7	626.6	621.7	614.1	609.9	85.8	635.5
32,5°	530.6	537.6	535.6	526.2	530.2	524.1	520.8	78.1	713.6
35,0°	428.2	426.4	425.9	411.9	420.8	414.2	411.4	66.0	779.6
37,5°	322.5	323.4	327.0	311.0	319.4	310.8	308.2	53.0	832.6
40,0°	236.1	234.0	241.6	230.8	230.9	219.8	218.4	40.7	873.3
42,5°	162.3	165.3	172.9	171.1	161.7	151.3	150.8	30.2	903.5
45,0°	117.3	114.9	119.4	122.5	109.3	102.6	102.3	21.9	925.4
47,5°	80.5	81.4	82.8	85.5	75.2	71.4	70.8	15.9	941.3
50,0°	59.4	58.0	58.0	59.0	52.9	50.5	49.6	11.7	953.0
52,5°	43.3	42.8	42.8	43.0	39.3	37.2	36.6	8.9	961.8
55,0°	33.3	32.4	32.9	33.7	30.5	28.7	28.3	7.1	968.9
57,5°	25.9	25.4	25.9	26.8	24.5	22.9	22.9	5.8	974.7
60,0°	20.9	20.2	21.2	21.8	20.4	18.9	19.2	4.9	979.5
62,5°	16.9	16.2	17.4	18.0	17.2	15.9	16.4	4.1	983.6
65,0°	14.9	13.6	14.4	15.1	14.8	13.6	14.4	3.6	987.2
67,5°	12.3	11.4	12.5	12.4	13.0	11.7	12.6	3.1	990.3
70,0°	10.4	9.5	10.5	10.1	11.1	10.1	11.0	2.7	993.0
72,5°	8.2	7.7	7.9	8.2	8.7	8.6	9.5	2.2	995.2
75,0°	6.5	6.0	6.0	6.4	6.6	7.1	7.9	1.7	996.9
77,5°	4.5	4.3	4.4	4.7	5.1	5.6	6.3	1.3	998.2
80,0°	2.9	2.7	2.9	3.1	3.5	4.1	4.7	0.9	999.1
82,5°	1.3	1.4	1.6	1.8	2.2	2.7	3.3	0.5	999.7
85,0°	0.6	0.6	0.6	0.7	1.0	1.4	1.8	0.3	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

Photometric test report

Family Highbay 11			Order number: 51HN12DB4QLA01 EAN: 4069025374219							LP number 59710_87	
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	20.6	21.8	20.9	22.2	22.5	20.3	21.5	20.6	21.9	22.2
	3H	20.6	21.7	20.9	22.0	22.4	20.3	21.4	20.7	21.7	22.1
	4H	20.6	21.6	21.0	21.9	22.3	20.3	21.3	20.7	21.7	22.1
	6H	20.5	21.5	20.9	21.8	22.2	20.3	21.3	20.7	21.6	22.0
	8H	20.6	21.4	21.0	21.8	22.2	20.4	21.2	20.8	21.6	22.0
	12H	20.6	21.3	21.0	21.7	22.1	20.4	21.1	20.8	21.5	22.0
4H	2H	20.4	21.5	20.8	21.8	22.2	20.2	21.2	20.6	21.6	21.9
	3H	20.5	21.3	20.9	21.7	22.1	20.2	21.1	20.7	21.5	21.9
	4H	20.5	21.2	20.9	21.7	22.1	20.3	21.0	20.7	21.5	21.9
	6H	20.5	21.1	20.9	21.5	22.0	20.3	21.0	20.8	21.4	21.9
	8H	20.4	21.0	20.9	21.5	22.0	20.3	20.9	20.8	21.4	21.8
	12H	20.5	20.9	20.9	21.4	21.9	20.4	20.8	20.9	21.3	21.8
8H	4H	20.4	21.0	20.9	21.5	21.9	20.2	20.8	20.7	21.2	21.7
	6H	20.4	20.9	20.9	21.3	21.9	20.3	20.7	20.8	21.2	21.7
	8H	20.4	20.8	20.9	21.3	21.8	20.3	20.7	20.8	21.2	21.7
	12H	20.4	20.7	20.9	21.2	21.7	20.3	20.6	20.8	21.1	21.7
12H	4H	20.4	20.9	20.9	21.4	21.9	20.2	20.7	20.7	21.2	21.7
	6H	20.4	20.8	20.9	21.3	21.8	20.3	20.6	20.8	21.1	21.7
	8H	20.4	20.7	20.9	21.2	21.7	20.3	20.6	20.8	21.1	21.7

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°	26556.1	26003.2	27029.9	27722.7	24732.4	23221.4	23153.0
50,0°	14796.1	14446.2	14431.0	14688.7	13180.8	12567.5	12351.9
55,0°	9298.5	9049.9	9179.0	9389.7	8517.7	8006.8	7910.5
60,0°	6687.9	6456.1	6783.6	6987.2	6541.9	6058.3	6135.4
65,0°	5643.2	5133.5	5471.7	5707.6	5589.1	5168.7	5460.7
70,0°	4850.4	4425.5	4895.3	4736.2	5195.7	4729.7	5165.3
75,0°	3997.3	3702.3	3692.4	3949.0	4103.0	4391.8	4895.8
80,0°	2698.7	2518.1	2664.6	2878.5	3249.0	3821.4	4355.9
85,0°	1078.0	1072.4	1107.3	1296.5	1917.2	2554.4	3309.2

Photometric test report

Family
Highbay 11

Order number: 51HN12DB4QLA01
EAN: 4069025374219

LP number
59710_87

Luminance values in cd/m²

γ 65°

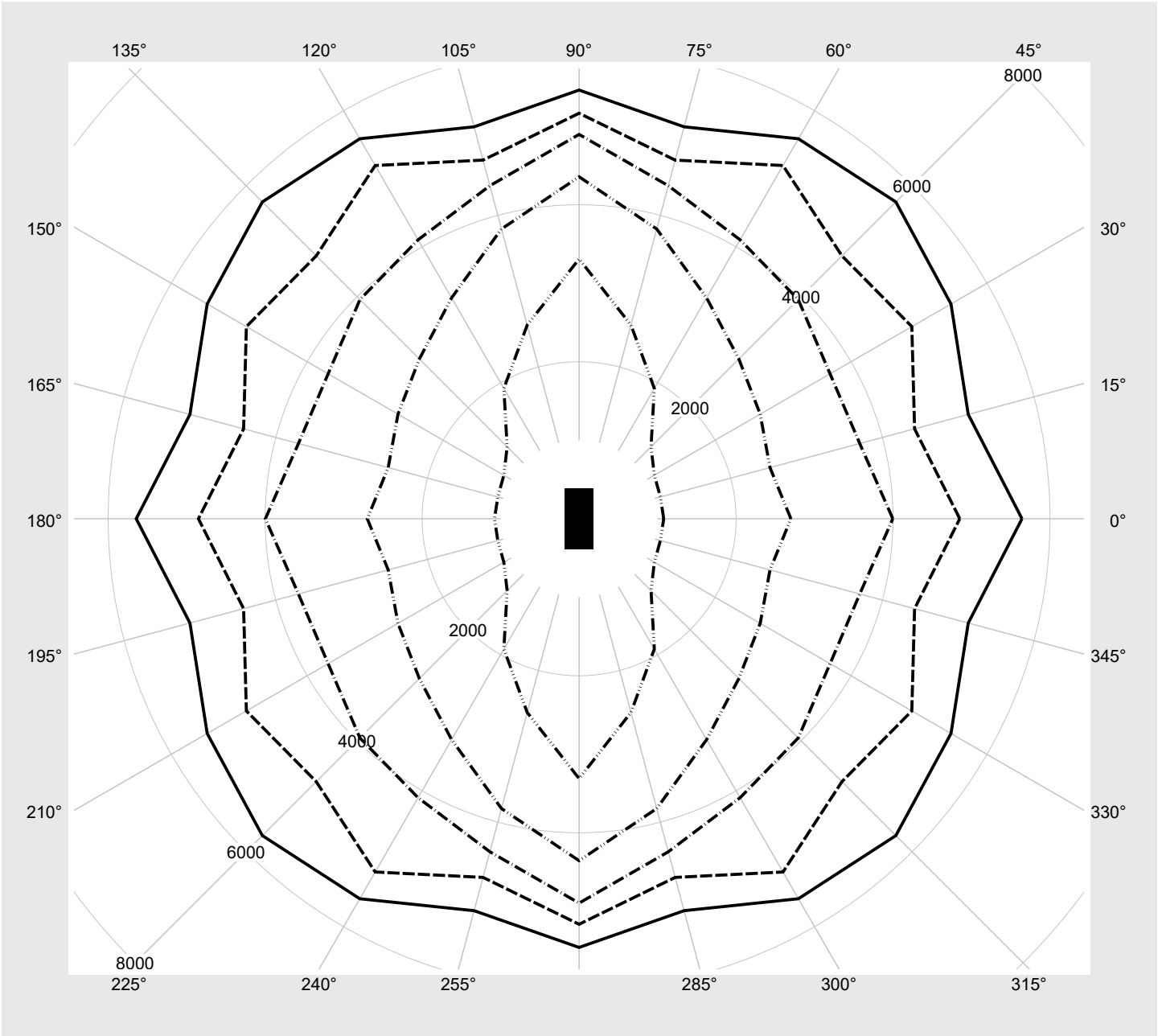
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

Family Highbay 11	Order number: 51HN12DB4QLA01 EAN: 4069025374219	LP number 59710_87
Dimming levels table		environmental temperature: 25°C

siteco

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	36000	178.2
95	241	252	34258	168.8
90	227	250	32370	158.7
85	214	248	30612	149.5
80	201	245	28833	140.1
75	188	243	27050	131.0
70	175	240	25256	121.7
65	162	238	23457	112.7
60	149	234	21641	103.6
55	136	231	19822	94.6
50	123	227	17982	85.6
45	111	224	16268	77.4
40	98	219	14402	68.5
35	86	214	12670	60.4
30	73	208	10780	51.5
25	61	202	9014	43.5
20	49	194	7241	35.6
15	37	183	5454	27.7
10	25	169	3653	19.8
5	13	145	1834	11.6
1	4	102	463	5.3