

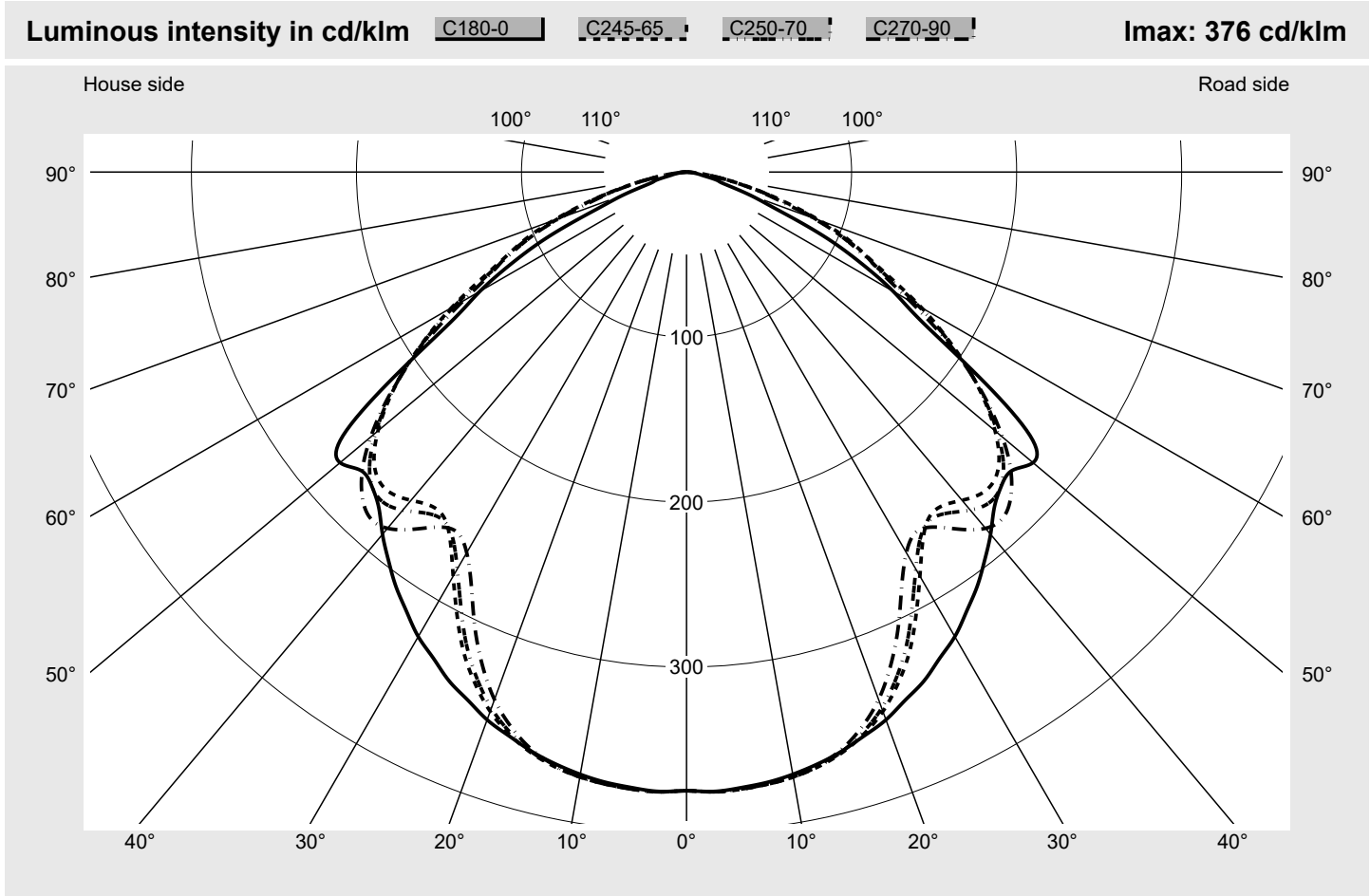


Photometric test report

Family Tunnellight TL-L	Order number: 5WD7A8P0H2C5 EAN: 4069025065544	LP number 59482_204
	Version refurbishment insert for tunnel luminaire, luminaire insert Retrofit Optic symmetric extremely wide distribution Cover enclosure of PMMA Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 9800 lm Power consumption = 63.4 W Luminous efficacy = 154.6 lm/W	serial documentation 09.04.2024
		



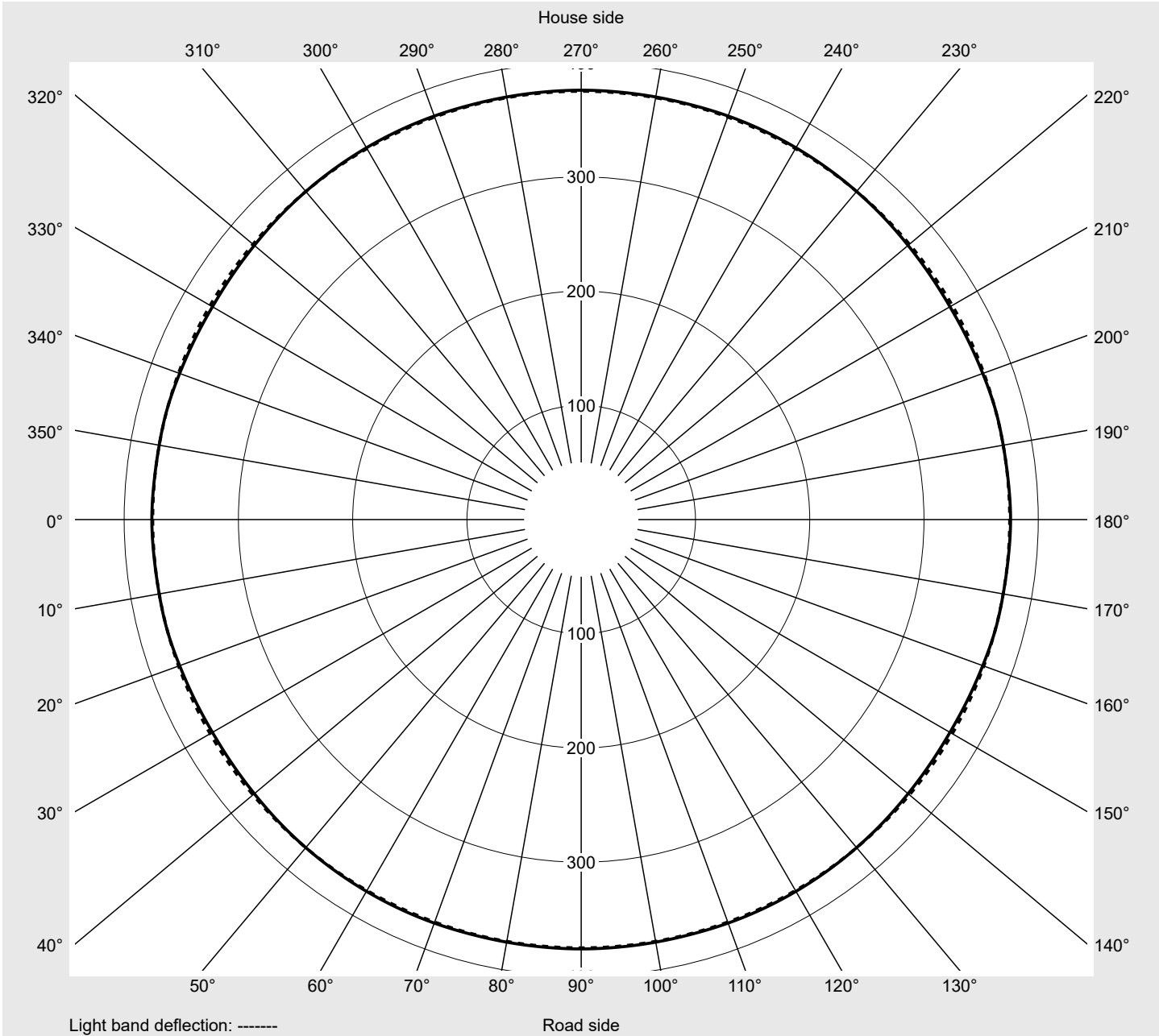
Luminaire output ratios	
Eta	100.0%
Eta 0° - 90°	100.0%
Eta 90° - 180°	0.0%
Measurement conditions	
DIN EN 13032 and DIN 5032	

Luminous intensity class acc. to EN13201-2	
Class:	G6
Imax 70°	89.5
Imax 80°	20.7
Imax 90°	0.0
Imax >90°	0.0
Imax >95°	0.0

Photometric test report

Family Tunnellight TL-L	Order number: 5WD7A8P0H2C5 EAN: 4069025065544	LP number 59482_204
-----------------------------------	--	--------------------------------------

Envelope curve in cd/klm KMK 2.5° KMK 0° siteco



Photometric test report

Family Tunnellight TL-L	Order number: 5WD7A8P0H2C5 EAN: 4069025065544	LP number 59482_204
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C- planes	0° 180°	5°	10°	15°	20°	25°	30°	35°	40°	45°
		175° 185° 355°	170° 190° 350°	165° 195° 345°	160° 200° 340°	155° 205° 335°	150° 210° 330°	145° 215° 325°	140° 220° 320°	135° 225° 315°
γ										
Luminous intensity in cd/klm										
0,0°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0
2,5°	375.8	375.3	375.0	375.1	374.0	373.2	372.7	372.9	373.4	374.3
5,0°	374.6	374.3	374.2	374.3	373.2	372.4	371.9	372.2	372.8	373.6
7,5°	373.1	373.0	373.0	373.1	372.0	371.2	370.7	371.0	371.5	372.4
10,0°	370.7	370.9	371.1	371.3	370.3	369.5	368.9	369.2	369.8	370.6
12,5°	367.4	367.9	368.2	368.4	367.5	366.8	366.2	366.5	367.1	367.9
15,0°	363.4	364.1	364.6	364.8	364.0	363.3	362.7	362.9	363.5	364.3
17,5°	358.2	359.5	360.2	360.4	359.7	359.0	358.2	358.3	358.6	359.0
20,0°	353.3	354.3	355.1	355.6	354.8	354.0	353.3	353.0	352.8	352.6
22,5°	346.4	348.4	349.5	349.8	349.1	348.1	347.0	346.1	345.2	344.2
25,0°	340.4	342.0	343.1	343.6	342.7	341.4	339.7	337.9	335.9	333.8
27,5°	332.2	334.7	336.1	336.2	335.0	333.2	330.7	327.6	324.3	320.7
30,0°	325.1	327.2	328.4	328.4	326.8	324.3	320.8	316.3	311.4	306.1
32,5°	315.8	318.6	319.9	319.6	317.4	313.9	309.2	303.2	296.5	289.1
35,0°	306.9	309.2	310.1	309.5	306.4	301.8	295.6	287.6	279.1	270.1
37,5°	296.7	299.3	299.9	298.5	294.4	288.6	281.2	271.3	261.6	252.2
40,0°	286.6	288.7	288.7	286.6	281.1	273.8	264.6	253.3	243.9	236.5
42,5°	276.0	278.8	278.4	274.6	267.5	258.4	247.5	236.0	228.9	226.3
45,0°	269.6	271.0	268.8	263.1	253.8	242.6	229.6	220.3	217.7	221.9
47,5°	267.7	268.7	264.7	255.7	242.9	229.1	214.3	209.2	211.5	221.1
50,0°	274.0	274.7	268.5	255.4	236.9	219.6	203.3	203.3	208.7	219.7
52,5°	262.3	264.7	261.3	251.9	233.3	216.3	201.1	203.5	208.1	214.9
55,0°	216.1	216.5	215.4	212.7	205.8	203.6	205.9	208.7	209.2	207.5
57,5°	169.7	171.3	169.4	164.0	162.7	170.6	187.8	203.8	208.0	200.2
60,0°	144.6	144.2	140.7	134.0	132.9	139.8	154.8	173.9	186.6	192.7
62,5°	118.5	119.6	117.3	111.8	112.8	118.6	129.4	139.1	150.0	162.1
65,0°	91.1	90.1	88.7	87.0	91.8	99.3	109.8	115.5	120.4	124.2
67,5°	59.4	60.9	61.1	60.1	65.2	73.0	83.3	91.9	96.6	97.5
70,0°	41.2	40.7	40.7	41.1	44.7	50.1	57.1	64.8	71.4	76.8
72,5°	24.0	24.8	25.3	25.5	28.3	32.4	37.8	44.0	49.5	54.2
75,0°	19.1	19.3	19.5	19.8	20.8	22.2	24.0	29.0	33.7	38.1
77,5°	11.3	11.9	12.4	12.9	14.3	15.7	17.0	20.3	23.0	25.4
80,0°	7.9	7.8	7.8	7.9	8.3	8.9	9.7	11.6	14.1	17.2
82,5°	4.9	4.9	4.9	4.9	5.1	5.5	5.9	6.9	8.1	9.6
85,0°	2.8	2.7	2.7	2.8	2.8	2.9	3.1	3.4	3.9	4.6
87,5°	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.4	1.6
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Photometric test report

Family Tunnellight TL-L	Order number: 5WD7A8P0H2C5 EAN: 4069025065544	LP number 59482_204
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes γ	50°	55°	60°	65°	70°	75°	80°	85°	90°	Phi-zone	Total Phi-zone
	130° 230° 310°	125° 235° 305°	120° 240° 300°	115° 245° 295°	110° 250° 290°	105° 255° 285°	100° 260° 280°	95° 265° 275°			
Luminous intensity in cd/klm										Luminous flux in lm/klm	
0,0°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	0.6	0.6
2,5°	375.0	375.5	375.9	376.0	376.0	375.7	375.7	375.8	375.9	4.5	5.0
5,0°	374.3	374.9	375.3	375.5	375.5	375.2	375.2	375.3	375.5	8.9	14.0
7,5°	373.1	373.6	374.1	374.2	374.2	374.0	374.0	374.1	374.2	13.3	27.3
10,0°	371.3	371.9	372.3	372.3	372.2	372.0	372.0	372.1	372.2	17.7	45.0
12,5°	368.5	369.0	369.3	369.1	368.9	368.4	368.3	368.3	368.4	21.8	66.8
15,0°	364.6	364.8	364.9	364.3	363.6	362.9	362.6	362.4	362.4	25.8	92.6
17,5°	359.0	358.8	358.4	357.2	355.9	354.6	353.7	353.1	352.9	29.5	122.1
20,0°	352.0	351.0	349.9	347.8	345.7	343.5	341.9	340.8	340.2	32.8	155.0
22,5°	342.4	340.5	338.2	335.2	332.0	328.7	326.1	324.3	323.4	35.7	190.7
25,0°	330.8	327.7	324.2	320.1	315.7	311.2	307.6	305.1	303.7	38.1	228.8
27,5°	316.3	311.6	306.7	301.4	296.2	291.0	286.9	284.1	282.4	39.9	268.8
30,0°	300.0	293.9	288.0	282.8	277.9	273.3	269.9	267.6	266.4	41.4	310.2
32,5°	281.8	275.3	269.6	266.2	263.5	261.5	260.2	259.3	258.8	42.7	352.8
35,0°	263.2	258.2	255.1	255.9	257.4	259.6	261.2	262.2	262.7	43.9	396.7
37,5°	248.0	247.0	249.1	254.9	260.5	265.9	269.6	271.9	272.9	45.4	442.2
40,0°	238.2	242.9	250.7	259.7	267.5	274.0	278.0	280.7	281.9	46.9	489.1
42,5°	234.5	244.1	255.2	264.3	271.7	277.4	280.9	283.1	284.0	48.2	537.3
45,0°	234.4	246.0	256.9	263.9	269.3	273.2	275.8	277.3	277.9	49.1	586.4
47,5°	233.6	244.0	252.3	256.9	260.3	262.8	264.8	265.9	266.3	49.7	636.1
50,0°	229.0	236.3	241.5	244.0	245.9	247.2	248.7	249.6	249.8	50.1	686.2
52,5°	219.7	223.6	226.4	227.7	228.5	228.8	229.7	230.2	230.2	49.7	735.9
55,0°	207.5	207.8	208.6	208.5	208.4	208.1	208.4	208.3	207.9	46.9	782.9
57,5°	193.7	189.6	188.0	187.0	186.0	185.2	184.7	183.9	182.8	42.5	825.4
60,0°	180.4	171.8	166.8	164.4	162.2	160.3	159.2	157.9	156.4	37.9	863.3
62,5°	160.1	154.2	144.4	140.0	136.9	135.2	135.0	134.6	134.0	32.8	896.1
65,0°	131.8	132.2	125.5	120.3	117.7	117.6	118.7	119.4	119.6	27.8	923.9
67,5°	102.8	107.4	111.4	104.9	101.3	100.6	101.2	101.7	101.9	22.5	946.4
70,0°	80.8	85.1	89.5	85.9	83.2	81.4	81.6	81.7	81.7	17.4	963.9
72,5°	60.0	63.5	64.8	66.4	65.4	61.8	61.8	61.8	61.7	12.6	976.5
75,0°	41.4	44.7	48.1	48.6	48.1	46.6	46.4	46.4	46.4	9.3	985.8
77,5°	27.7	29.8	31.8	33.0	33.5	33.1	32.4	32.0	32.0	6.4	992.1
80,0°	18.0	18.9	19.8	20.4	20.7	20.7	20.3	20.1	20.1	4.0	996.1
82,5°	10.0	10.8	11.8	11.9	11.9	11.8	11.5	11.4	11.3	2.3	998.5
85,0°	4.7	5.0	5.3	5.5	5.6	5.4	5.3	5.2	5.1	1.1	999.6
87,5°	1.6	1.7	1.8	1.8	1.8	1.8	1.7	1.7	1.7	0.4	1000.0
90,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

Photometric test report

Family Tunnellight TL-L	Order number: 5WD7A8P0H2C5 EAN: 4069025065544	LP number 59482_204
-----------------------------------	--	-------------------------------

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	9800	63.4
95	240	252	9301	59.9
90	227	250	8828	56.6
85	213	248	8320	53.2
80	200	245	7840	50.1
75	187	243	7359	46.9
70	174	240	6871	43.8
65	161	237	6382	40.7
60	148	234	5889	37.6
55	135	231	5391	34.5
50	122	227	4890	31.4
45	110	223	4423	28.5
40	97	219	3915	25.6
35	85	214	3441	22.8
30	72	208	2927	19.7
25	60	201	2446	16.9
20	48	193	1964	14.2
15	36	182	1477	11.4
13	31	177	1275	10.2

Dimming levels table	environmental temperature: 10°C
-----------------------------	---------------------------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	9930	63.5
95	240	252	9422	60.0
90	227	250	8941	56.7
85	213	248	8424	53.3
80	200	245	7937	50.2
75	187	243	7448	47.0
70	174	240	6953	43.9
65	161	237	6457	40.7
60	148	234	5958	37.7
55	135	231	5453	34.6
50	122	227	4946	31.5
45	110	223	4473	28.6
40	97	219	3959	25.6
35	85	214	3479	22.8
30	73	208	2999	20.0
25	60	201	2472	17.0
20	48	193	1985	14.2
15	36	182	1493	11.4
13	31	177	1289	10.2

Photometric test report

Family Tunnellight TL-L	Order number: 5WD7A8P0H2C5 EAN: 4069025065544	LP number 59482_204
-----------------------------------	--	--------------------------------------

Luminousfluxs table



Temperature °C	Luminous flux lm	Power consumption W
25.0	9800.0	63.4
10.0	9930.0	63.5