

BENTO

Technical Sheet



Introduction

Made of aluminum and featuring symmetrical lines, Bento is a luminaire with a minimalist design available in 4 sizes. Rectangular, it has a compartment housing the equipment at the back, harmoniously joining the illuminating part. With a dual compartment, it is fully IP66. Its sleeve is adaptable for a side or top mounting with adjustable tilt. Bento receives 8 to 72 LEDs depending on the size and can provide high performance asymmetrical road lighting via 2700K, 3000K or 4000K color temperature, while ensuring compliance with the regulations against light pollution. It can be equipped with intelligent devices thanks to the integration of Zhaga or NEMA standard sockets and its Zhaga D4i (Book 18) certification.

Variants



BENTO L



BENTO M



BENTO S V2 D60



BENTO S V2 D76



BENTO XS D60



BENTO XS D76

Electrical Characteristics

- Supply Current up to 1050.0mA.
- Output Voltage Range : 22.0V to 426.0V.
- Input Voltage Range: 220.0-240.0V.
- Electrical Class: I & II.
- Standard Electrical Shock Withstand: 6/10kV (diff/comm).

LED Characteristics

- Type: CMS.
- Luminous Flux Maintenance: L90 B10 100 000h 25°C.
- 217 : IRC > 20 - 517/519/520 : IRC > 50 - 722/727/730/740 : IRC > 70.
- ULR ≤ 0% (ULR: percentage of luminous flux directed directly upwards).
- Photobiological Risk: RG1.

Power and Luminous Intensities

Color temperature: 217

Size: S

LED	Source		At luminaire output											
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA		
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²
16	4375	100	17	1574	92	24	2154	90	35	2883	84	53	4043	77
32	8750	105	33	3149	97	47	4308	92	66	5766	87	102	8085	80

Size: M

LED	Source		At luminaire output											
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA		
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²
32	8750	111	33	3149	97	47	4308	92	66	5766	87	102	8085	80
48	13125	111	49	4723	97	70	6462	93	98	8649	88	146	12128	84
64	17500	116	63	6298	101	91	8615	96	129	11532	90	196	16170	83

Color temperature: 517

Size: XS

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	2319	101	10	924	93	14	1276	93	19	1663	88	28	2143	77	E
16	4637	110	18	1848	102	26	2551	101	36	3325	94	53	4285	81	E

Size: S

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	2319	101	10	924	93	14	1276	93	19	1663	88	28	2143	77	E
12	3478	110	14	1386	102	19	1914	101	27	2493	94	40	3214	81	E
16	4637	110	18	1848	102	26	2551	101	36	3325	94	53	4285	81	E
24	6956	113	27	2772	104	37	3827	104	50	4987	100	78	6427	83	E
32	9274	116	35	3696	107	49	5102	105	67	6649	100	105	8569	82	E

Size: M

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
32	9274	123	35	3696	107	49	5102	105	67	6649	100	105	8569	82	E
48	13911	126	51	5544	110	73	7654	105	103	9974	97	158	12854	82	E
64	18548	126	68	7392	110	96	10205	106	136	13299	99	210	17139	82	E

Color temperature: 519

Size: XS

LED	Source		At luminaire output												Energy class
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	2401	104	10	957	96	14	1321	96	19	1722	91	28	2219	80	D
16	4802	115	18	1914	106	26	2642	104	36	3443	97	53	4437	84	D

Size: S

LED	Source		At luminaire output												Energy class
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	2401	104	10	957	96	14	1321	96	19	1722	91	28	2219	80	D
12	3602	115	14	1435	106	19	1982	104	27	2583	97	41	3328	82	D
16	4802	115	18	1914	106	26	2642	104	36	3443	97	53	4437	84	D
24	7203	117	27	2870	108	37	3963	108	50	5165	104	78	6656	86	D
32	9604	120	35	3828	111	49	5285	109	67	6886	103	105	8874	85	D

Size: M

LED	Source		At luminaire output												Energy class
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
32	9604	127	35	3828	111	49	5285	109	67	6886	103	105	8874	85	D
48	14406	131	51	5742	114	73	7926	109	103	10330	100	158	13311	85	D
64	19207	131	68	7655	114	96	10568	110	136	13774	102	210	17748	85	D

Color temperature: 520

Size: XS

LED	Source		At luminaire output												Energy class
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	2530	110	10	1015	102	14	1392	101	19	1814	96	28	2337	84	D
16	5059	121	18	2030	112	26	2783	110	36	3627	103	53	4674	89	D

Size: S

LED	Source		At luminaire output												Energ class
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	2530	110	10	1015	102	14	1392	101	19	1814	96	28	2337	84	D
12	3794	121	14	1512	112	19	2087	110	27	2720	102	40	3506	88	D
16	5059	121	18	2030	112	26	2783	110	36	3627	103	53	4674	89	D
24	7588	122	27	3024	113	37	4175	113	50	5440	109	78	7012	90	D
32	10118	127	35	4032	117	49	5566	115	67	7254	109	105	9349	90	D

Size: M

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
32	10118	134	35	4032	117	49	5566	115	67	7254	109	105	9349	90	D
48	15176	139	51	6089	121	73	8349	115	103	10881	106	158	14023	89	D
64	20235	139	68	8119	121	96	11132	116	136	14509	107	210	18697	90	D

Color temperature: 722**Size: XS**

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	2973	129	10	1185	119	14	1635	119	19	2132	113	28	2747	97	E
16	5945	142	18	2369	131	26	3271	129	36	4262	121	53	5493	104	E

Size: S

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	2973	129	10	1185	119	14	1635	119	19	2132	113	28	2747	97	E
12	4459	142	14	1777	131	19	2453	129	27	3196	120	40	4120	102	E
16	5945	142	18	2369	131	26	3271	129	36	4262	121	53	5493	104	E
24	8918	144	27	3554	133	37	4906	133	50	6393	128	78	8240	107	E
32	11890	148	35	4738	137	49	6541	135	67	8524	128	105	10986	105	E

Size: M

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
32	11890	157	35	4738	137	49	6541	135	67	8524	128	105	10986	105	E
48	17835	162	51	7107	141	73	9813	135	103	12787	124	158	16480	105	E
64	23780	162	68	9477	141	96	13084	136	136	17050	126	210	21973	105	E

Color temperature: 727**Size: XS**

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	3245	141	10	1294	130	14	1785	130	19	2327	123	28	2998	106	D
16	6489	155	18	2586	143	26	3570	141	36	4653	132	53	5996	113	D

Size: S

LED	Source		At luminaire output												Energ. class
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	3245	141	10	1294	130	14	1785	130	19	2327	123	28	2998	106	D
12	4867	155	14	1939	143	19	2678	141	27	3490	131	41	4497	112	D
16	6489	155	18	2586	143	26	3570	141	36	4653	132	53	5996	113	D
24	9734	157	27	3879	145	37	5356	145	50	6980	140	78	8994	117	D
32	12978	162	35	5173	150	49	7142	147	67	9306	139	105	11992	115	D

Size: M

LED	Source		At luminaire output															Energ. class
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	230mA			350mA			500mA			700mA			1050mA			
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
24 4P6S	13977	162	33	4648	141	51	6866	135	75	9570	128	107	12915	121	nan	nan	nan	E
32	12978	172	nan	nan	nan	35	5173	150	49	7142	147	67	9306	139	105	11992	115	D
48	19467	177	nan	nan	nan	51	7759	154	73	10711	147	103	13960	136	158	17988	114	D
48 4P6S	27953	162	66	9295	141	103	13733	134	151	19142	127	215	25829	121	nan	nan	nan	E
64	25956	177	nan	nan	nan	68	10345	154	96	14281	149	136	18613	138	210	23983	115	D

Size: L

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	230mA			350mA			500mA			700mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
72 4P6S	48741	164	98	13943	143	154	20600	134	226	28711	128	322	38744	121	E

Color temperature: 730**Size: XS**

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	3373	147	10	1354	136	14	1855	135	19	2418	128	28	3117	110	D
16	6745	161	18	2706	149	26	3711	146	36	4836	137	53	6232	118	D

Size: S

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	3373	147	10	1354	136	14	1855	135	19	2418	128	28	3117	110	D
12	5059	161	14	2016	149	19	2783	146	27	3627	136	40	4675	116	D
16	6745	161	18	2706	149	26	3711	146	36	4836	137	53	6232	118	D
24	10118	163	27	4032	151	37	5566	151	50	7253	146	78	9349	121	D
32	13491	168	35	5376	155	49	7422	153	67	9672	145	105	12466	119	D

Size: M

LED	Source		At luminaire output															
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	230mA			350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
24 4P6S	14806	172	33	4923	150	51	7274	142	75	10138	135	107	13681	128	nan	nan	nan	E
32	13491	178	nan	nan	nan	35	5376	155	49	7422	153	67	9672	145	105	12466	119	D
48	20235	185	nan	nan	nan	51	8119	161	73	11132	153	103	14509	141	158	18697	119	D
48 4P6S	29612	172	66	9847	150	103	14548	142	151	20277	135	215	27361	128	nan	nan	nan	E
64	26980	185	nan	nan	nan	68	10826	161	96	14843	155	136	19345	143	210	24930	119	D

Size: L

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	230mA			350mA			500mA			700mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
72 4P6S	51632	173	98	14770	151	154	21822	142	226	30415	135	322	41043	128	E

Color temperature: 740

Size: XS

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	3503	153	10	1405	141	14	1927	140	19	2511	133	28	3237	114	D
16	7005	168	18	2811	155	26	3854	152	36	5023	142	53	6473	122	D

Size: S

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
8	3503	153	10	1405	141	14	1927	140	19	2511	133	28	3237	114	D
12	5254	167	14	2094	154	19	2890	152	27	3766	142	40	4855	121	D
16	7005	168	18	2811	155	26	3854	152	36	5023	142	53	6473	122	D
24	10508	170	27	4188	157	37	5781	157	50	7532	151	78	9709	126	D
32	14010	174	35	5583	161	49	7707	159	67	10044	150	105	12945	124	D

Size: M

LED	Source		At luminaire output															
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	230mA			350mA			500mA			700mA			1050mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
24 4P6S	15320	178	33	5094	155	51	7527	147	75	10490	140	107	14156	133	nan	nan	nan	E
32	14010	185	nan	nan	nan	35	5583	161	49	7707	159	67	10044	150	105	12945	124	D
48	21015	192	nan	nan	nan	51	8432	167	73	11562	159	103	15069	146	158	19418	123	D
48 4P6S	30640	178	66	10188	155	103	15053	147	151	20980	140	215	28311	132	nan	nan	nan	E
64	28020	192	nan	nan	nan	68	11243	167	96	15416	161	136	20091	149	210	25890	124	D

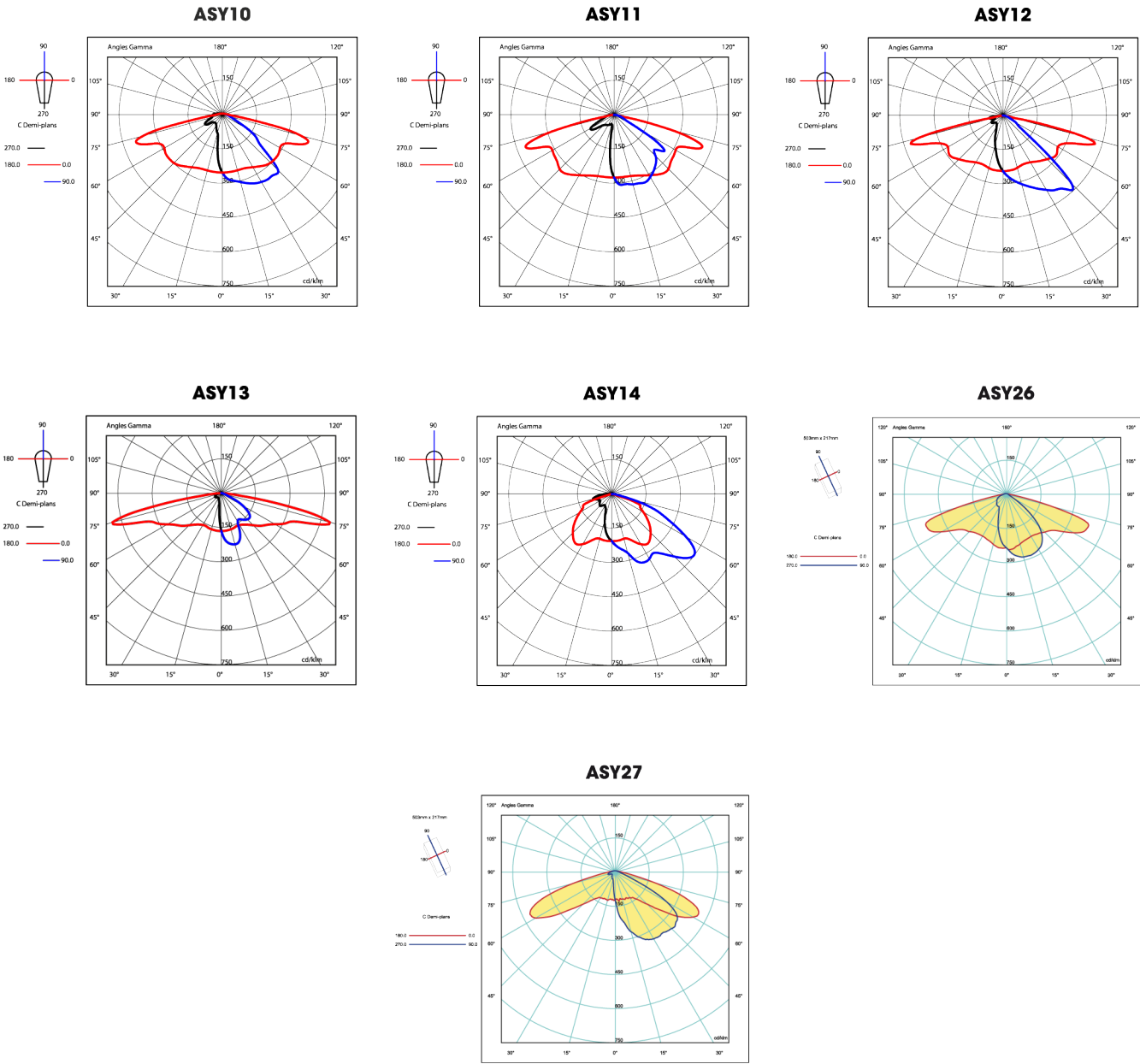
Size: L

LED	Source		At luminaire output												
	Nom. flow (lm) ¹	Nom. eff. (lm/W) ¹	230mA			350mA			500mA			700mA			Energ. class
			Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	Pt (W) ²	Φ (lm) ²	(lm/W) ²	
72 4P6S	53423	179	98	15282	156	154	22580	147	226	31471	140	322	42467	132	E

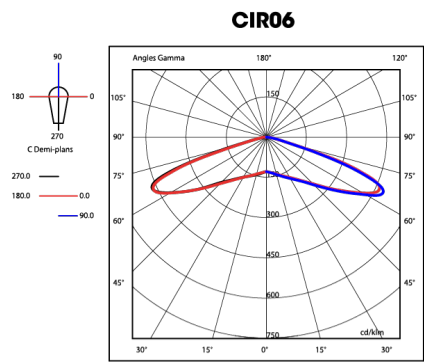
(¹) Maximum LED flux at operating temperature including driver consumption.
(²) Real data at luminaire output at operating temperature including driver consumption, optical accessories. A tolerance on the data is allowed in accordance with IEC 62717 and IEC 62722 standards.

Photometric Distributions

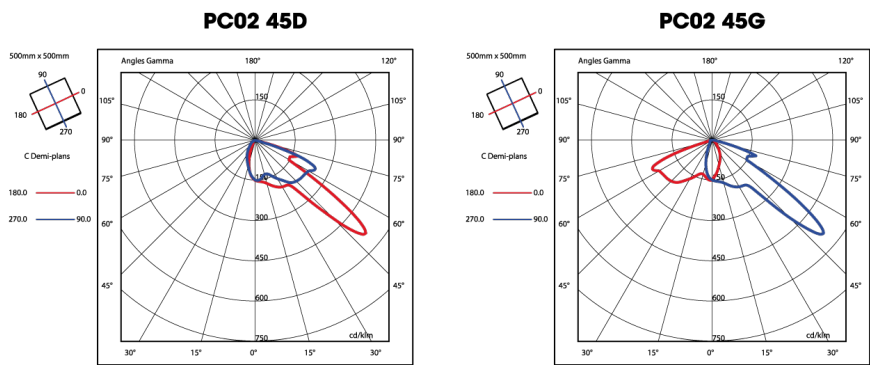
ASYMMETRICAL ROAD



CIRCULAR



CROSSWALK



SYMETRIC

