

RAZAR BOLLARD SERIES - LED

PHOTOMETRIC DATA GUIDE - LUMEN CHARTS (RZRB1-PLED)

RZRB1-PLED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
20	175	11.0	II	1579	144	B1-U0-G1	1704	155	B1-U0-G1	1794	163	B1-U0-G1	1883	171	B1-U0-G1	8.0	680	85	B0-U0-G0
			II-FR	1589	144	B1-U0-G0	1716	156	B1-U0-G0	1806	164	B1-U0-G0	1896	172	B1-U0-G0		684	86	B0-U0-G0
			III-M	1606	146	B1-U0-G1	1734	158	B1-U0-G1	1825	166	B1-U0-G1	1916	174	B1-U0-G1		691	86	B0-U0-G0
			III-W	1491	136	B0-U0-G1	1610	146	B0-U0-G1	1695	154	B0-U0-G1	1780	162	B1-U0-G1		642	80	B0-U0-G1
			IV	1594	145	B1-U0-G1	1721	156	B1-U0-G1	1811	165	B1-U0-G1	1902	173	B1-U0-G1		687	86	B0-U0-G0
			IV-FT	1452	132	B0-U0-G1	1567	142	B0-U0-G1	1650	150	B1-U0-G1	1732	157	B1-U0-G1		625	78	B0-U0-G1
			II-HS	1155	105	B0-U0-G0	1247	113	B0-U0-G0	1312	119	B0-U0-G0	1378	125	B0-U0-G0		497	62	B0-U0-G0
			II-FR-HS	1174	107	B0-U0-G0	1267	115	B0-U0-G0	1334	121	B0-U0-G0	1401	127	B0-U0-G0		505	63	B0-U0-G0
			III-M-HS	1169	106	B0-U0-G0	1261	115	B0-U0-G0	1328	121	B0-U0-G0	1394	127	B0-U0-G0		503	63	B0-U0-G0
			III-W-HS	1143	104	B0-U0-G1	1234	112	B0-U0-G1	1299	118	B0-U0-G1	1364	124	B0-U0-G1		492	62	B0-U0-G1
			IV-HS	1207	110	B0-U0-G0	1302	118	B0-U0-G0	1371	125	B0-U0-G0	1440	131	B0-U0-G0		519	65	B0-U0-G0
			IV-FT-HS	1141	104	B0-U0-G1	1231	112	B0-U0-G1	1296	118	B0-U0-G1	1361	124	B0-U0-G1		491	61	B0-U0-G1
20	350	21.4	II	2820	132	B1-U0-G1	3044	142	B1-U0-G1	3204	150	B1-U0-G1	3364	157	B1-U0-G1	17.0	1120	66	B0-U0-G0
			II-FR	2838	133	B1-U0-G1	3064	143	B1-U0-G1	3225	151	B1-U0-G1	3386	158	B1-U0-G1		1127	66	B0-U0-G0
			III-M	2869	134	B1-U0-G1	3097	145	B1-U0-G1	3260	152	B1-U0-G1	3423	160	B1-U0-G1		1140	67	B0-U0-G0
			III-W	2663	124	B1-U0-G1	2875	134	B1-U0-G1	3027	141	B1-U0-G1	3178	149	B1-U0-G1		1058	62	B0-U0-G1
			IV	2846	133	B1-U0-G1	3073	144	B1-U0-G1	3235	151	B1-U0-G1	3396	159	B1-U0-G1		1130	66	B0-U0-G0
			IV-FT	2593	121	B1-U0-G1	2800	131	B1-U0-G1	2947	138	B1-U0-G1	3094	145	B1-U0-G1		1030	61	B0-U0-G1
			II-HS	2062	96	B0-U0-G1	2226	104	B0-U0-G1	2343	109	B0-U0-G1	2460	115	B0-U0-G1		820	48	B0-U0-G0
			II-FR-HS	2097	98	B0-U0-G0	2264	106	B0-U0-G0	2383	111	B0-U0-G0	2502	117	B0-U0-G0		833	49	B0-U0-G0
			III-M-HS	2085	97	B0-U0-G1	2251	105	B0-U0-G1	2370	111	B0-U0-G1	2488	116	B0-U0-G1		829	49	B0-U0-G0
			III-W-HS	2042	95	B0-U0-G1	2204	103	B0-U0-G1	2320	108	B0-U0-G1	2436	114	B0-U0-G1		811	48	B0-U0-G1
			IV-HS	2155	101	B0-U0-G1	2326	109	B0-U0-G1	2448	114	B0-U0-G1	2571	120	B0-U0-G1		855	50	B0-U0-G0
			IV-FT-HS	2037	95	B0-U0-G1	2199	103	B0-U0-G1	2314	108	B0-U0-G1	2430	114	B0-U0-G1		809	48	B0-U0-G1

PHOTOMETRIC DATA GUIDE - LM-80 LUMEN MAINTENANCE

LED Life / Operating Hours	Lumen Depreciation	Lumen Depreciation Scale Factor
60,000 (10x Test Time Calculated)	L94	0.94x
100,000 (Theoretical Calculated)	L92	0.92x
150,000 (Theoretical Calculated)	L89	0.89x

Lumen Depreciation Calculations Done in Accordance With IESNA TM-21 & LM-80 (25°C Ambient)
TM-21 6x Test Time Dictates that L94 > 60,000 Hours.

ELECTRICAL DATA GUIDE - AMPERAGE CHARTS

# of LEDs	mA	System Watts	120V	208V	277V	347V	480V
20	175	11	0.09	0.05	0.04	0.03	0.02
20	350	21	0.18	0.10	0.08	0.06	0.04
40	175	22	0.18	0.11	0.08	0.06	0.05
40	350	43	0.36	0.21	0.15	0.12	0.09