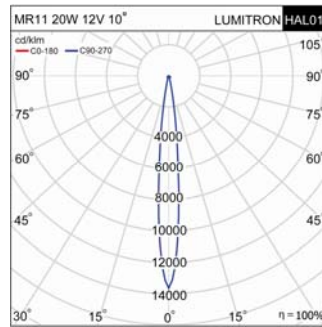


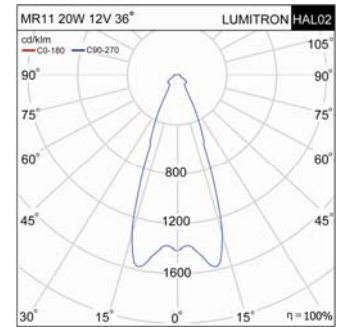


MR11

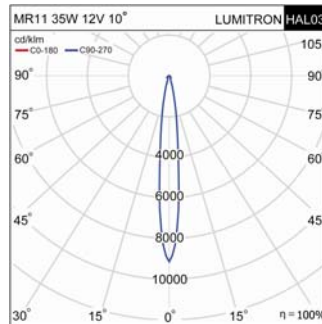
MR11 20W 12V 10°		LUMITRON HAL01	
Height		E(0°)	E(4.9°)
0.5 m	∅ 0.09	12769 lx	6397 lx
1.0 m	∅ 0.17	3192 lx	1599 lx
1.5 m	∅ 0.26	1419 lx	711 lx
2.0 m	∅ 0.34	798 lx	400 lx
2.5 m	∅ 0.43	511 lx	256 lx
3.0 m	∅ 0.51	355 lx	178 lx



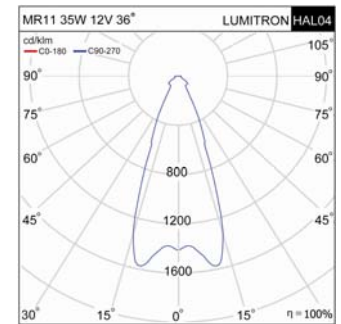
MR11 20W 12V 36°		LUMITRON HAL02	
Height		E(0°)	E(19.7°)
0.5 m	∅ 0.35	1797 lx	841 lx
1.0 m	∅ 0.72	449 lx	210 lx
1.5 m	∅ 1.07	200 lx	93 lx
2.0 m	∅ 1.43	112 lx	53 lx
2.5 m	∅ 1.79	72 lx	34 lx
3.0 m	∅ 2.15	50 lx	23 lx



MR11 35W 12V 10°		LUMITRON HAL03	
Height		E(0°)	E(5.8°)
0.5 m	∅ 0.10	21577 lx	10724 lx
1.0 m	∅ 0.20	5394 lx	2681 lx
1.5 m	∅ 0.30	2397 lx	1192 lx
2.0 m	∅ 0.41	1349 lx	670 lx
2.5 m	∅ 0.51	863 lx	429 lx
3.0 m	∅ 0.61	599 lx	298 lx

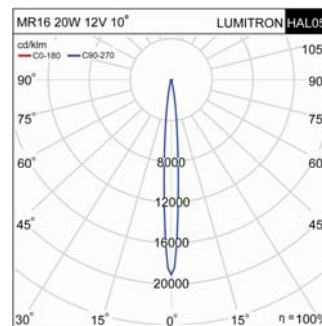


MR11 20W 12V 36°		LUMITRON HAL04	
Height		E(0°)	E(20.3°)
0.5 m	∅ 0.37	3591 lx	1485 lx
1.0 m	∅ 0.74	898 lx	371 lx
1.5 m	∅ 1.11	399 lx	165 lx
2.0 m	∅ 1.48	224 lx	93 lx
2.5 m	∅ 1.85	144 lx	59 lx
3.0 m	∅ 2.22	100 lx	41 lx

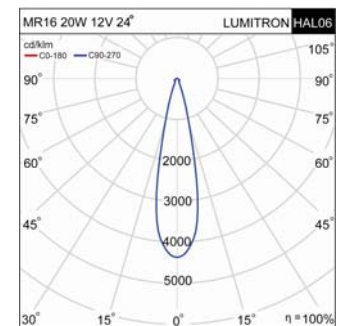


MR16

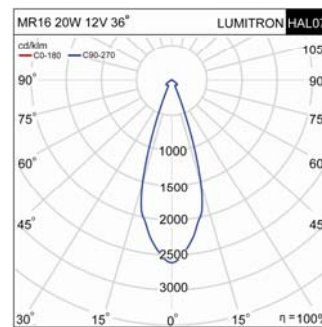
MR16 20W 12V 10°		LUMITRON HAL05	
Height		E(0°)	E(5.0°)
0.5 m	∅ 0.07 m	20490 lx	10377 lx
1.0 m	∅ 0.14 m	5122 lx	2594 lx
1.5 m	∅ 0.22 m	2277 lx	1153 lx
2.0 m	∅ 0.29 m	1281 lx	649 lx
2.5 m	∅ 0.36 m	820 lx	415 lx
3.0 m	∅ 0.43 m	569 lx	288 lx



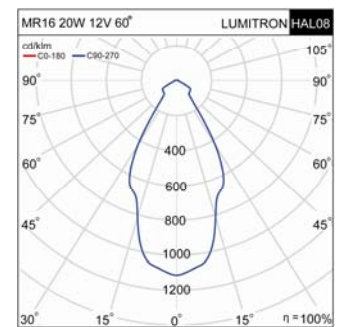
MR16 20W 12V 24°		LUMITRON HAL06	
Height		E(0°)	E(11.7°)
0.5 m	∅ 0.21 m	5208 lx	2446 lx
1.0 m	∅ 0.41 m	1302 lx	612 lx
1.5 m	∅ 0.62 m	579 lx	272 lx
2.0 m	∅ 0.83 m	325 lx	153 lx
2.5 m	∅ 1.04 m	208 lx	98 lx
3.0 m	∅ 1.24 m	145 lx	68 lx



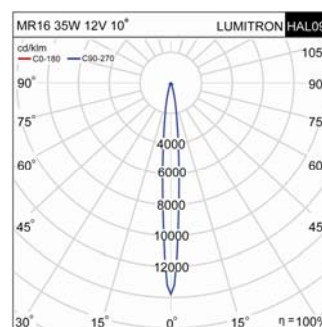
MR16 20W 12V 36°		LUMITRON HAL07	
Height		E(0°)	E(16.9°)
0.5 m	∅ 0.30 m	3124 lx	1386 lx
1.0 m	∅ 0.61 m	781 lx	347 lx
1.5 m	∅ 0.91 m	347 lx	154 lx
2.0 m	∅ 1.22 m	195 lx	87 lx
2.5 m	∅ 1.52 m	125 lx	55 lx
3.0 m	∅ 1.82 m	87 lx	39 lx



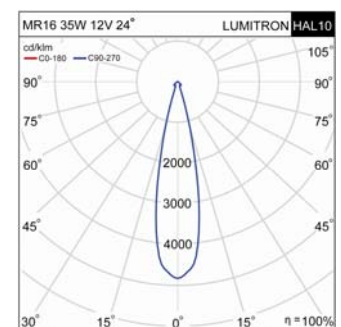
MR16 20W 12V 60°		LUMITRON HAL08	
Height		E(0°)	E(27.7°)
0.5 m	∅ 0.53 m	1417 lx	493 lx
1.0 m	∅ 1.05 m	354 lx	123 lx
1.5 m	∅ 1.58 m	157 lx	55 lx
2.0 m	∅ 2.10 m	89 lx	31 lx
2.5 m	∅ 2.63 m	57 lx	20 lx
3.0 m	∅ 3.15 m	39 lx	14 lx



MR16 35W 12V 10°		LUMITRON HAL09	
Height		E(0°)	E(4.4°)
0.5 m	∅ 0.08 m	33251 lx	16743 lx
1.0 m	∅ 0.15 m	8313 lx	4186 lx
1.5 m	∅ 0.23 m	3695 lx	1860 lx
2.0 m	∅ 0.31 m	2078 lx	1046 lx
2.5 m	∅ 0.38 m	1330 lx	670 lx
3.0 m	∅ 0.46 m	924 lx	465 lx

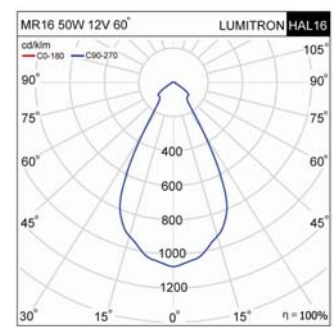
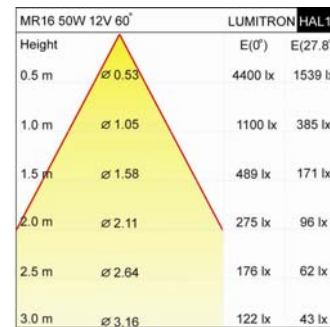
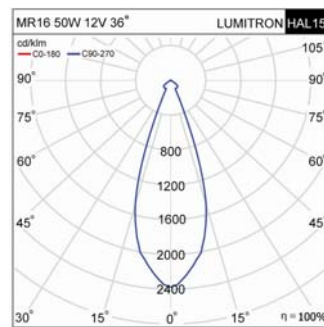
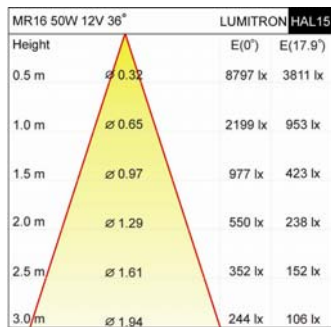
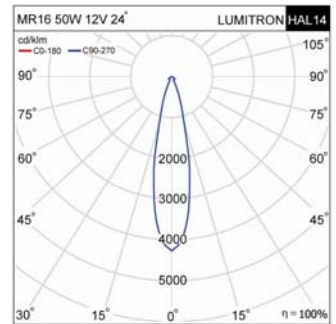
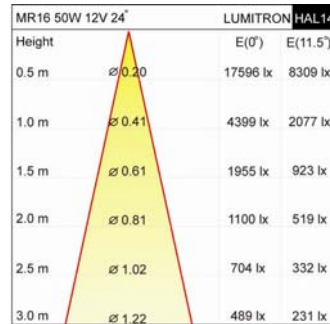
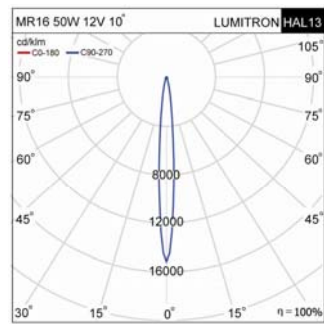
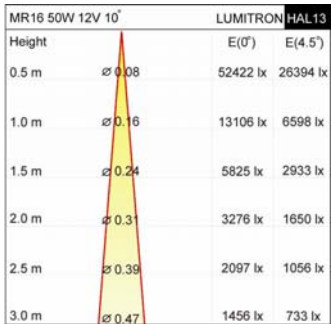
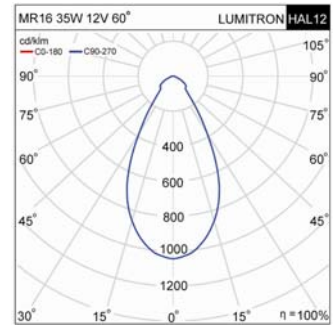
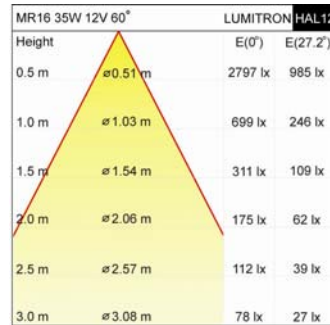
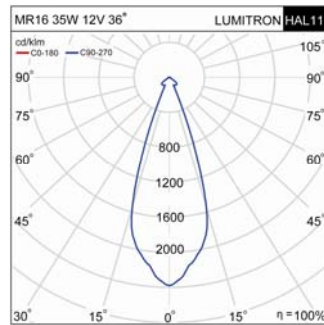
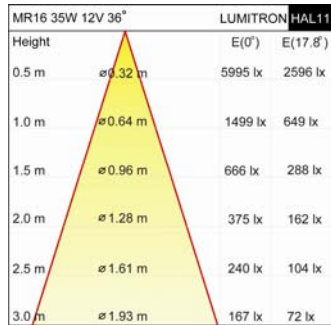


MR16 35W 12V 24°		LUMITRON HAL10	
Height		E(0°)	E(11.4°)
0.5 m	∅ 0.20 m	12401 lx	5845 lx
1.0 m	∅ 0.40 m	3100 lx	1461 lx
1.5 m	∅ 0.60 m	1378 lx	649 lx
2.0 m	∅ 0.81 m	775 lx	365 lx
2.5 m	∅ 1.01 m	496 lx	234 lx
3.0 m	∅ 1.21 m	344 lx	162 lx

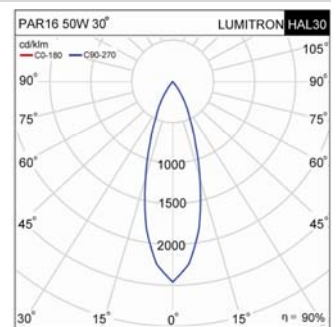
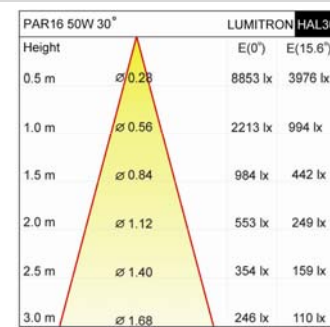
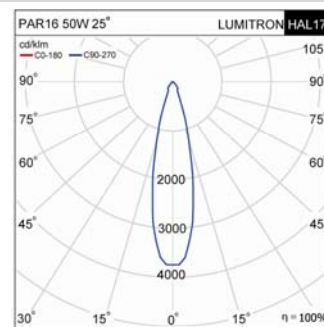
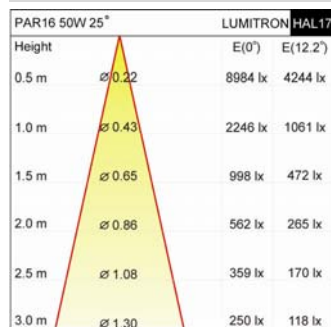




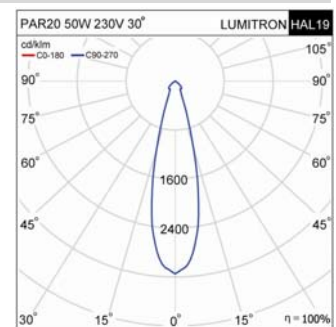
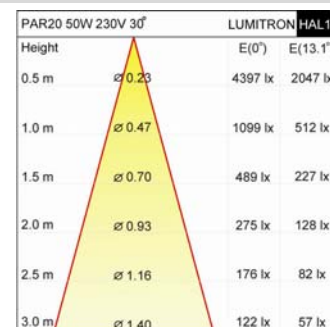
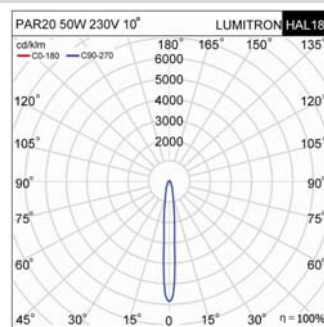
MR16



PAR16



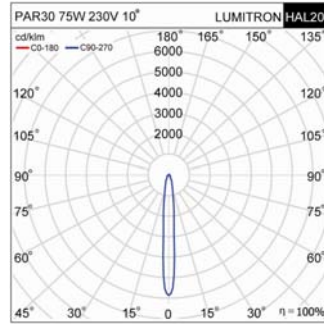
PAR20



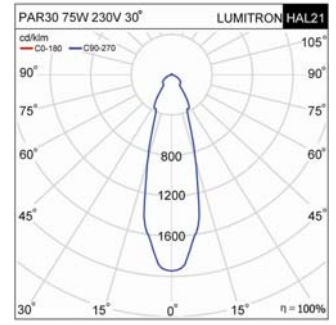


PAR30

PAR30 75W 230V 10°		LUMITRON HAL20	
Height		E(0°)	E(5.0°)
0.5 m	ø 0.09	29995 lx	14981 lx
1.0 m	ø 0.17	7499 lx	3745 lx
1.5 m	ø 0.26	3333 lx	1665 lx
2.0 m	ø 0.35	1875 lx	936 lx
2.5 m	ø 0.44	1200 lx	599 lx
3.0 m	ø 0.52	833 lx	416 lx

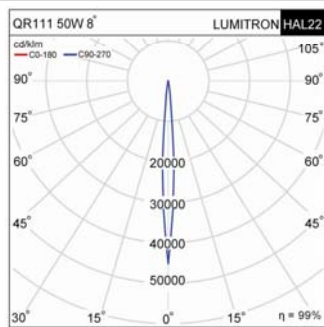


PAR30 75W 230V 30°		LUMITRON HAL21	
Height		E(0°)	E(14.6°)
0.5 m	ø 0.25	9601 lx	4380 lx
1.0 m	ø 0.52	2400 lx	1095 lx
1.5 m	ø 0.78	1067 lx	487 lx
2.0 m	ø 1.04	600 lx	274 lx
2.5 m	ø 1.30	384 lx	175 lx
3.0 m	ø 1.56	267 lx	122 lx

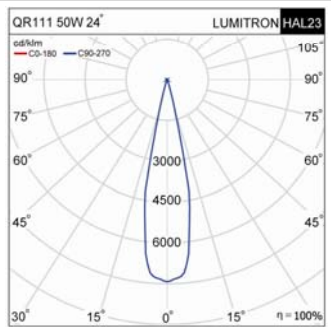


QR11

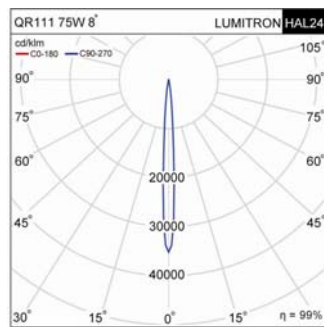
QR111 50W 8°		LUMITRON HAL22	
Height		E(0°)	E(3.5°)
0.5 m	ø 0.06	92362 lx	46534 lx
1.0 m	ø 0.12	23091 lx	11634 lx
1.5 m	ø 0.18	10262 lx	5170 lx
2.0 m	ø 0.24	5773 lx	2908 lx
2.5 m	ø 0.31	3694 lx	1861 lx
3.0 m	ø 0.37	2566 lx	1293 lx



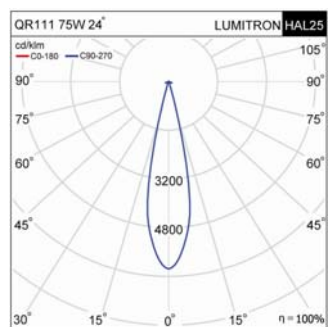
QR111 50W 24°		LUMITRON HAL23	
Height		E(0°)	E(11.3°)
0.5 m	ø 0.20	16030 lx	7714 lx
1.0 m	ø 0.40	4007 lx	1929 lx
1.5 m	ø 0.60	1781 lx	857 lx
2.0 m	ø 0.80	1002 lx	482 lx
2.5 m	ø 1.00	641 lx	309 lx
3.0 m	ø 1.20	445 lx	214 lx



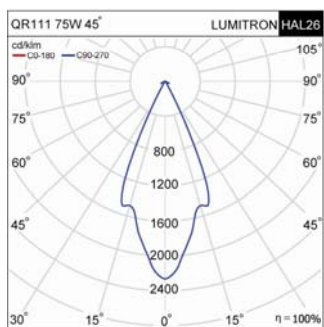
QR111 75W 8°		LUMITRON HAL24	
Height		E(0°)	E(3.5°)
0.5 m	ø 0.06	120000 lx	60201 lx
1.0 m	ø 0.12	30000 lx	15050 lx
1.5 m	ø 0.18	13333 lx	6689 lx
2.0 m	ø 0.24	7500 lx	3763 lx
2.5 m	ø 0.31	4800 lx	2408 lx
3.0 m	ø 0.37	3333 lx	1672 lx



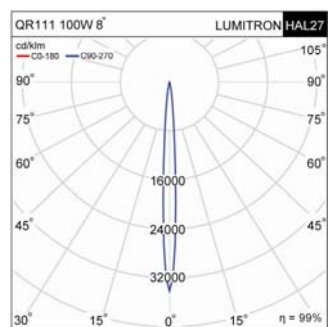
QR111 75W 24°		LUMITRON HAL25	
Height		E(0°)	E(11.1°)
0.5 m	ø 0.20	21200 lx	10071 lx
1.0 m	ø 0.39	5300 lx	2518 lx
1.5 m	ø 0.59	2356 lx	1119 lx
2.0 m	ø 0.78	1325 lx	629 lx
2.5 m	ø 0.98	848 lx	403 lx
3.0 m	ø 1.18	589 lx	280 lx



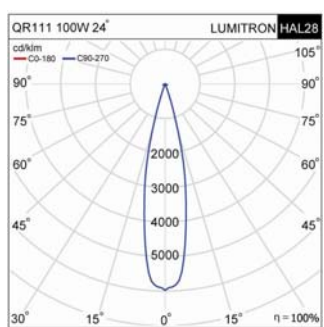
QR111 75W 45°		LUMITRON HAL26	
Height		E(0°)	E(22.7°)
0.5 m	ø 0.42	7602 lx	2995 lx
1.0 m	ø 0.84	1900 lx	749 lx
1.5 m	ø 1.25	845 lx	333 lx
2.0 m	ø 1.67	475 lx	187 lx
2.5 m	ø 2.09	304 lx	120 lx
3.0 m	ø 2.51	211 lx	83 lx



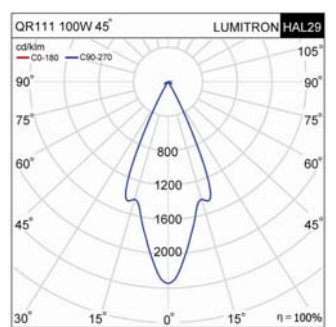
QR111 100W 8°		LUMITRON HAL27	
Height		E(0°)	E(3.4°)
0.5 m	ø 0.06	192000 lx	95599 lx
1.0 m	ø 0.12	48000 lx	23900 lx
1.5 m	ø 0.18	21333 lx	10622 lx
2.0 m	ø 0.24	12000 lx	5975 lx
2.5 m	ø 0.30	7680 lx	3824 lx
3.0 m	ø 0.36	5333 lx	2656 lx



QR111 100W 24°		LUMITRON HAL28	
Height		E(0°)	E(22.5°)
0.5 m	ø 0.20	33999 lx	16177 lx
1.0 m	ø 0.40	8500 lx	4044 lx
1.5 m	ø 0.59	3778 lx	1797 lx
2.0 m	ø 0.79	2125 lx	1011 lx
2.5 m	ø 0.99	1360 lx	647 lx
3.0 m	ø 1.19	944 lx	449 lx

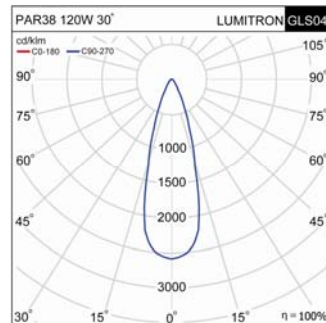
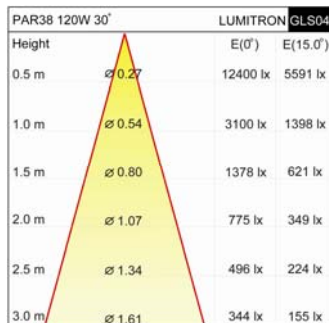
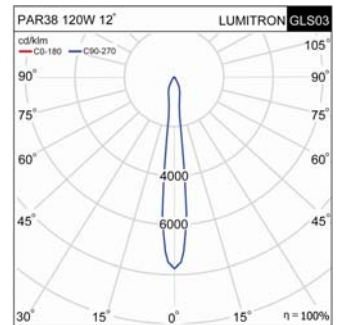
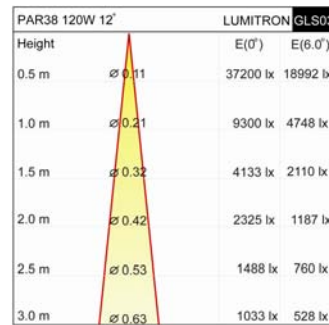
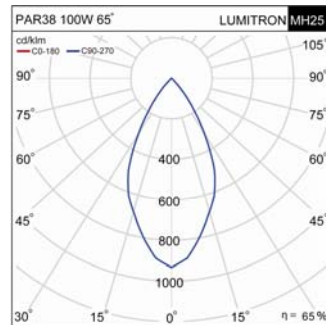
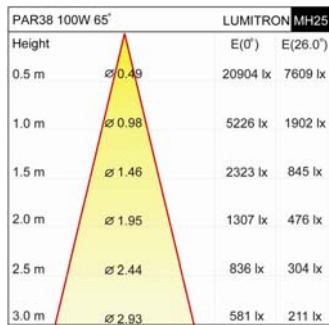
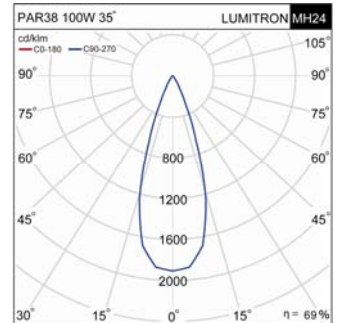
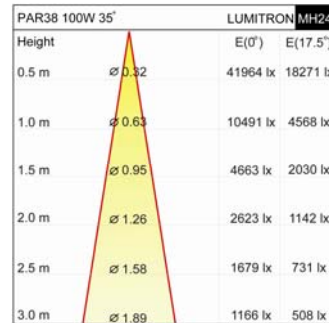
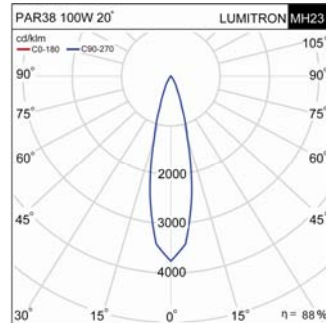
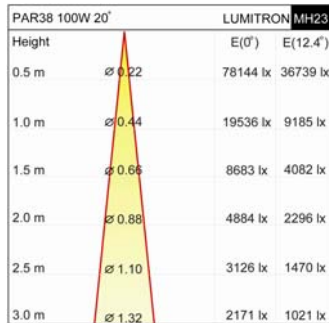


QR111 100W 45°		LUMITRON HAL29	
Height		E(0°)	E(22.5°)
0.5 m	ø 0.42	11201 lx	4440 lx
1.0 m	ø 0.83	2800 lx	1110 lx
1.5 m	ø 1.24	1245 lx	493 lx
2.0 m	ø 1.66	700 lx	278 lx
2.5 m	ø 2.07	448 lx	178 lx
3.0 m	ø 2.49	311 lx	123 lx

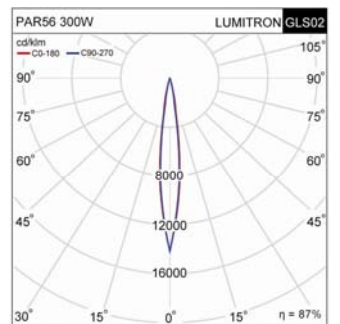
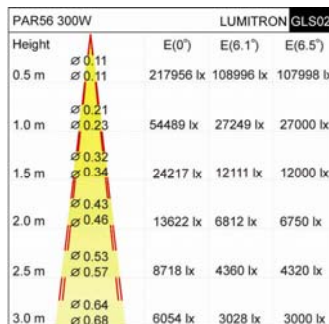
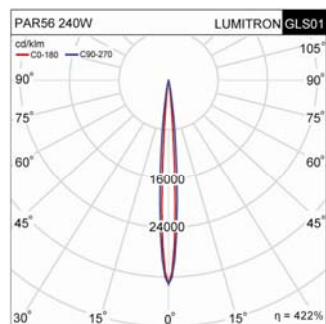
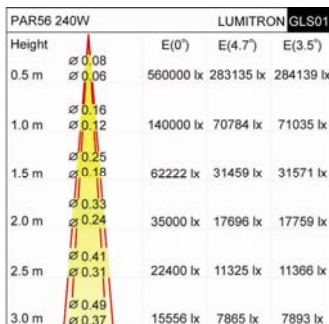




PAR38

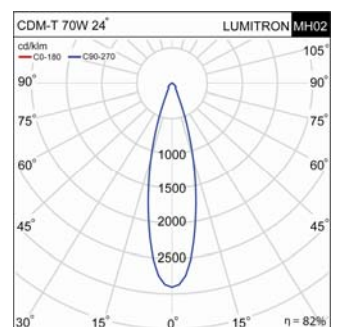
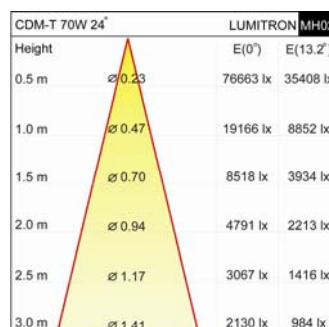
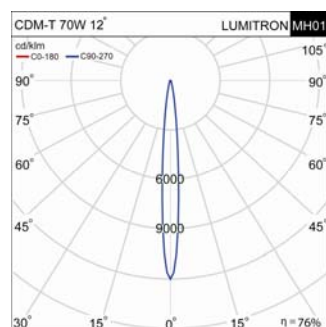
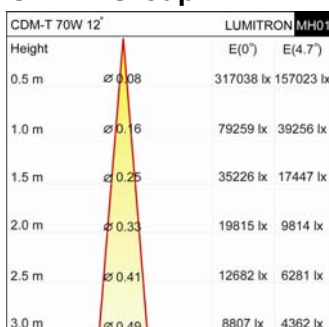


PAR56



CDM-T

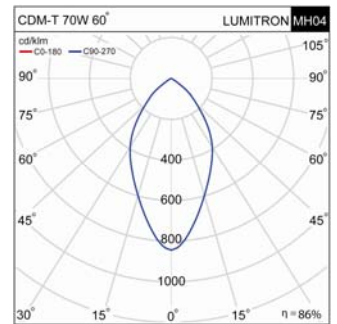
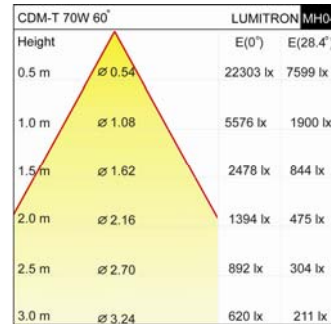
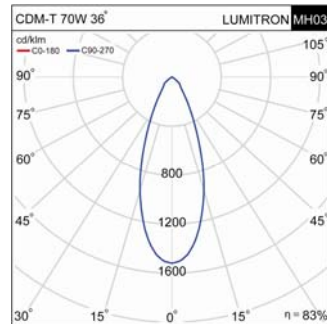
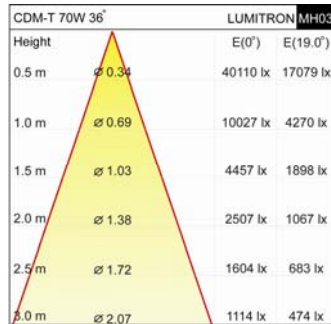
CDM-T Group 1



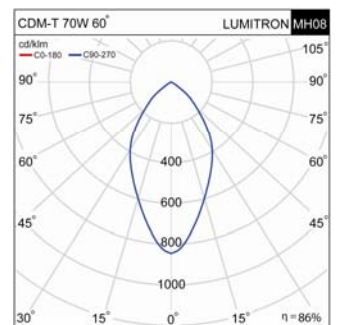
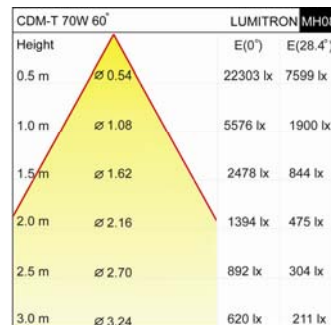
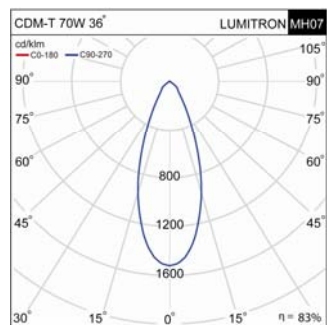
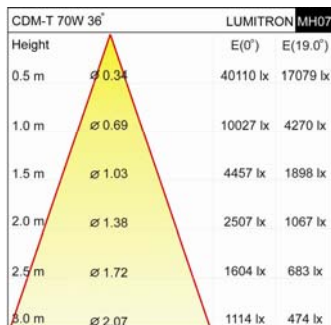
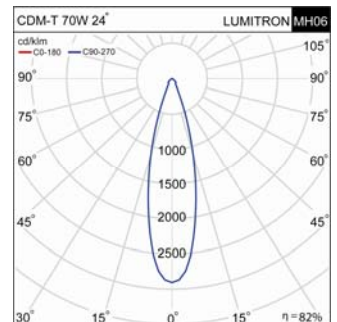
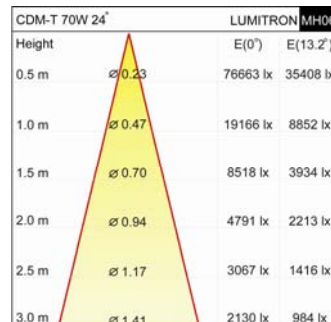
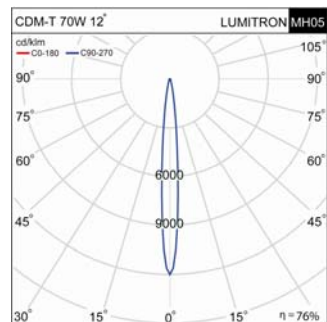
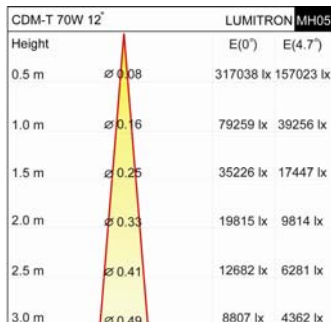
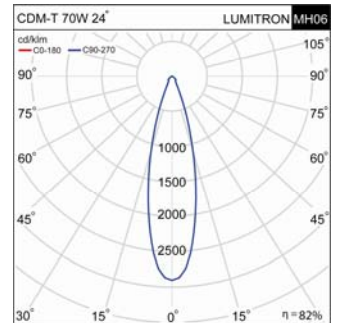
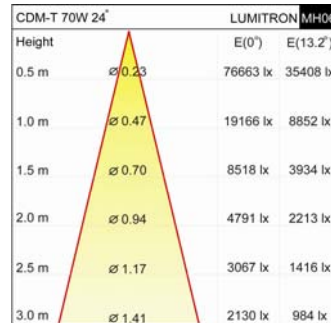
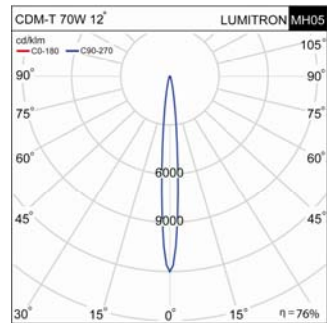
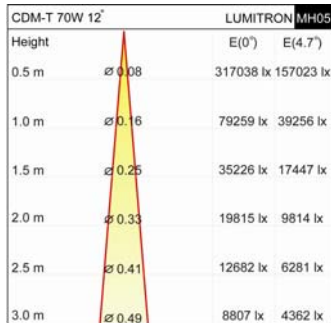


CDM-T

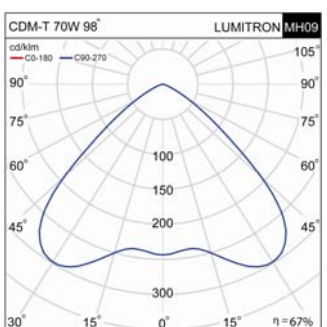
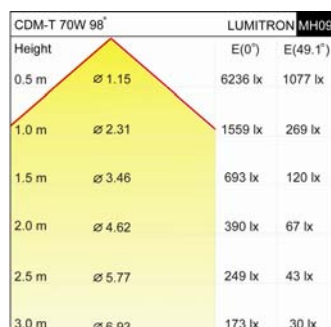
CDM-T Group 1



CDM-T Group 2



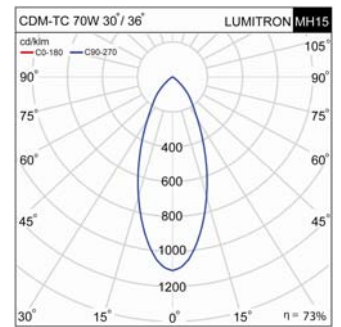
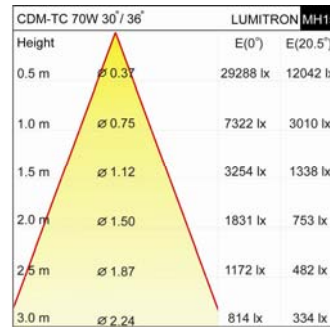
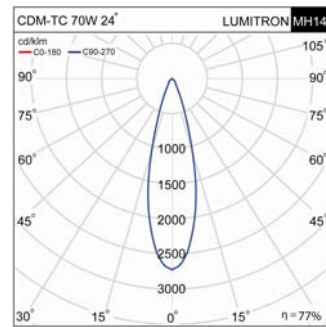
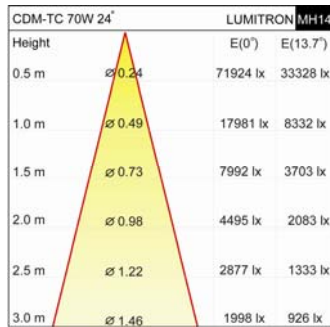
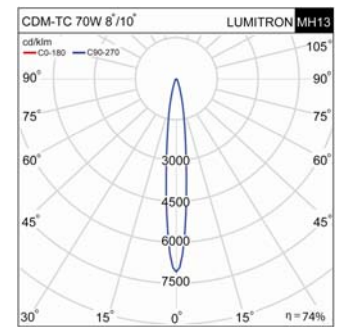
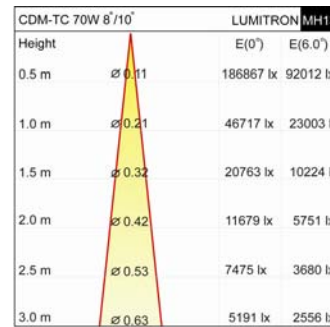
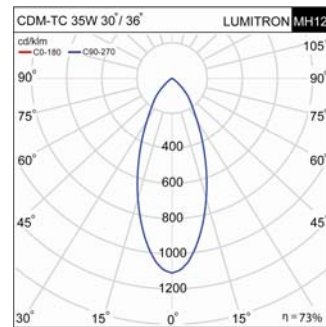
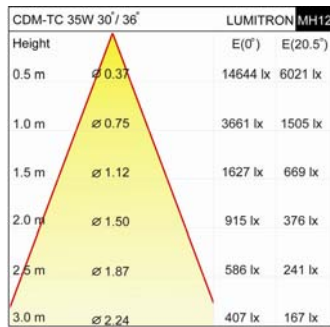
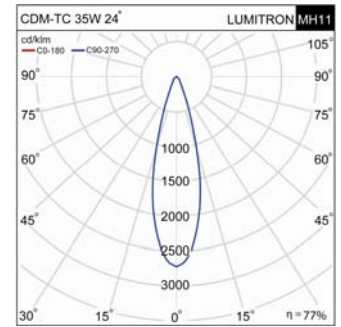
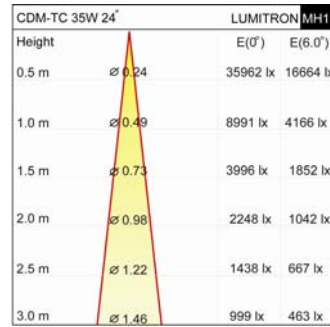
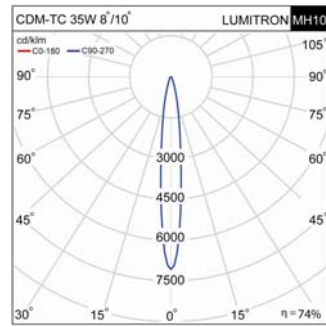
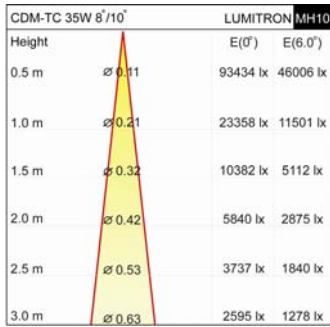
CDM-T Group 3



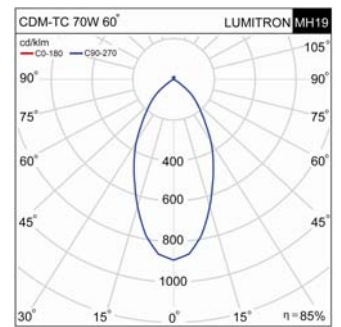
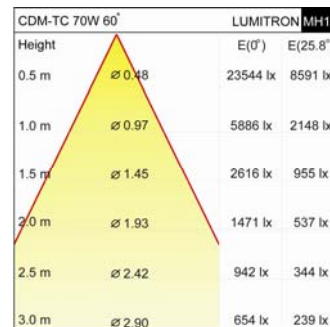
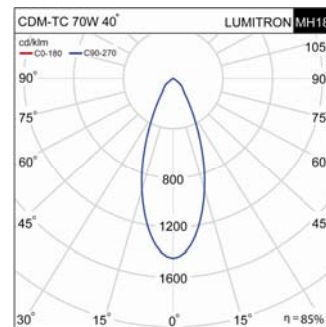
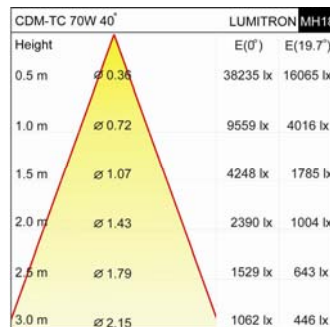
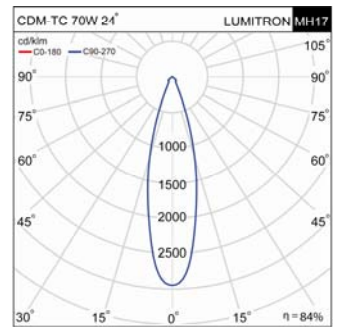
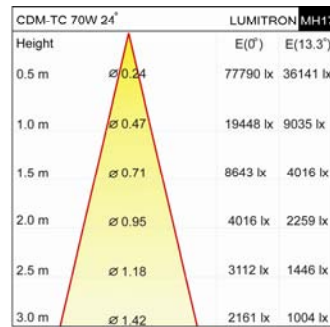
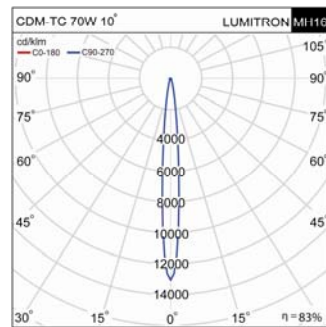
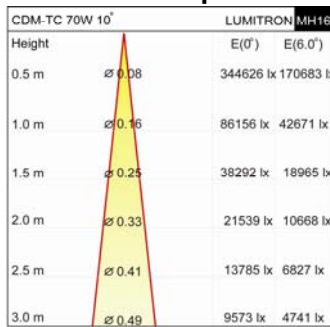


CDM-TC

CDM-TC Group 1



CDM-TC Group 2

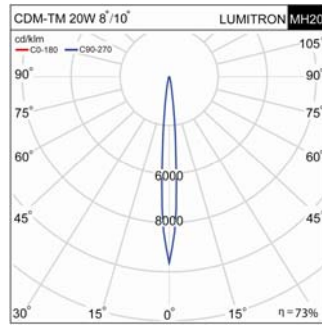




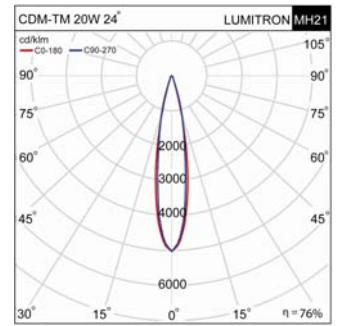
CDM-TM

CDM-TM Group 1

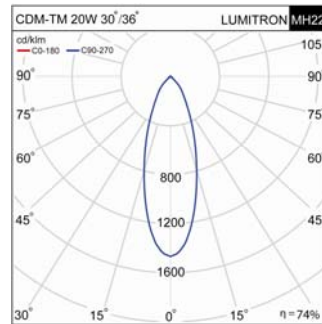
CDM-TM 20W 8°/10°		LUMITRON MH20	
Height		E(0°)	E(4.3°)
0.5 m	∅ 0.08	91716 lx	46726 lx
1.0 m	∅ 0.15	22929 lx	11681 lx
1.5 m	∅ 0.23	10191 lx	5192 lx
2.0 m	∅ 0.30	5732 lx	2920 lx
2.5 m	∅ 0.38	3669 lx	1869 lx
3.0 m	∅ 0.45	2548 lx	1298 lx



CDM-TM 20W 24°		LUMITRON MH21	
Height		E(0°)	E(8.9°) E(10.1°)
0.5 m	∅ 0.16 ∅ 0.18	30170 lx	14636 lx 14435 lx
1.0 m	∅ 0.31 ∅ 0.36	7543 lx	3659 lx 3609 lx
1.5 m	∅ 0.47 ∅ 0.53	3352 lx	1626 lx 1604 lx
2.0 m	∅ 0.63 ∅ 0.71	1886 lx	915 lx 902 lx
2.5 m	∅ 0.78 ∅ 0.89	1207 lx	585 lx 577 lx
3.0 m	∅ 0.94 ∅ 1.07	838 lx	407 lx 401 lx



CDM-TM 20W 30°/36°		LUMITRON MH22	
Height		E(0°)	E(16.8°)
0.5 m	∅ 0.30	8806 lx	3864 lx
1.0 m	∅ 0.60	2202 lx	966 lx
1.5 m	∅ 0.91	978 lx	429 lx
2.0 m	∅ 1.21	550 lx	241 lx
2.5 m	∅ 1.51	352 lx	155 lx
3.0 m	∅ 1.81	245 lx	107 lx



CMH MR16

CMH MR16 20W 40°		LUMITRON CMH01	
Height		E(0°)	E(21.0°)
0.5 m	∅ 0.38	6000 lx	2448 lx
1.0 m	∅ 0.77	1500 lx	612 lx
1.5 m	∅ 1.15	667 lx	272 lx
2.0 m	∅ 1.54	375 lx	153 lx
2.5 m	∅ 1.92	240 lx	98 lx
3.0 m	∅ 2.30	167 lx	68 lx

