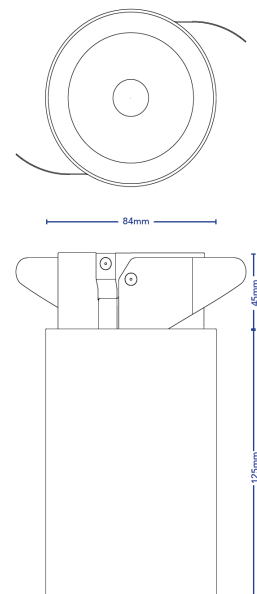
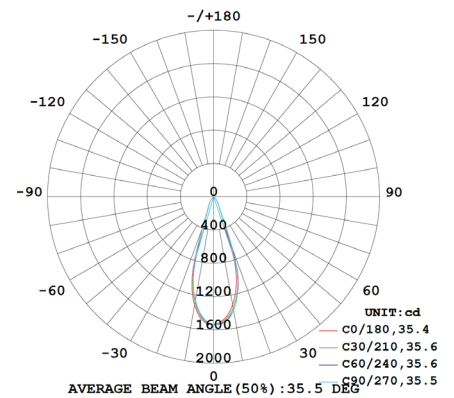
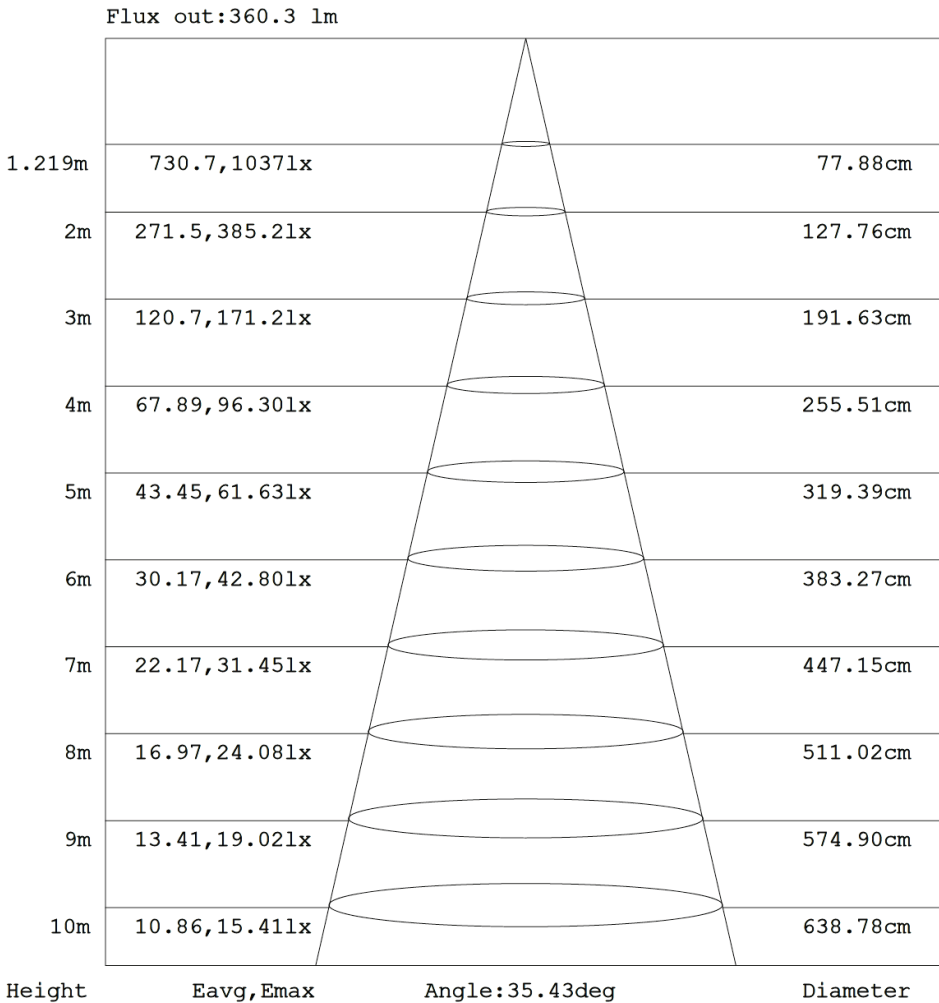


TOVO PHOTOMETRY

Downlight - Modulated Click Spot Series - K Spot (Kingston) - 2700K

FITTING - Downlight - Modulated Click Spot Series - K Spot (Kingston)		CODE - 4691_2700K_60°	
BODY - Modulated Downlight System Surface Mounted Can. Semi Recessed Click In/Click Out Housing			
LAMP - TOVO 10W 2700K LED Lamp With Dimmable 25-42VDC 250mA LED Driver			
INSTALLATION - Recessed Downlight. 76mm Cut		POWER SUPPLY - 220- 250V LED Driver c/w Flex & Plug	
NOMINAL POWER	10W	RATED INPUT VOLTAGE	240V
NOMINAL FLUX	584 Lm	LAMPS INSIDE	1
IMAX	1540 CD	LIGHT OUTPUT RATIO	100%
CIE CLASS	Direct	UP	.0%
EFFICIENCY	51.86 Lm/W	DOWN	100.0%

LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	3	3
65	13	14
60	119	136
55	107	112
50	204	200
45	1017	1050





Downlight - Modulated ClickSpot Series - K Spot (Kingston) - 2700K

Coefficients of Utilisation

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization (CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	.90	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.95	.91	.87	.93	.89	.86	.91	.88	.85	.89	.86	.84	.83
5.0	.91	.87	.83	.90	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.81	.80
6.0	.87	.83	.79	.87	.82	.79	.85	.81	.78	.84	.81	.78	.83	.80	.77	.76
7.0	.84	.79	.76	.83	.79	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
8.0	.80	.76	.72	.80	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.70
9.0	.77	.73	.70	.77	.73	.69	.76	.72	.69	.75	.72	.69	.75	.71	.69	.68
10.0	.75	.70	.67	.74	.70	.67	.74	.69	.67	.73	.69	.67	.72	.69	.66	.65

Candela Distribution

UNIT: cd

C (DEG) \ y (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534	1534
5	1475	1486	1491	1501	1507	1514	1516	1521	1515	1513	1506	1501	1494	1482	1477	1466	1464	1457	1460
10	1320	1343	1357	1377	1382	1392	1387	1389	1374	1368	1349	1339	1322	1301	1291	1270	1266	1255	1264
15	1067	1105	1122	1145	1144	1153	1139	1133	1100	1081	1038	1021	998	958	953	917	928	919	947
20	580	642	655	684	664	669	623	607	548	518	457	430	402	361	378	337	370	346	379
25	195	208	211	220	216	218	212	209	201	195	184	177	171	166	164	161	159	158	162
30	124	126	127	130	129	130	129	131	129	128	125	121	118	115	113	110	110	109	111
35	86.7	88.6	88.6	89.9	89.7	90.9	91.0	92.1	91.3	91.2	88.6	86.6	84.6	81.8	80.7	78.9	79.0	78.8	80.3
40	62.5	63.9	63.8	64.6	64.2	65.1	64.3	64.9	63.8	63.0	59.4	56.9	54.8	51.8	50.8	49.1	49.8	49.9	52.1
45	32.2	33.7	33.5	34.5	34.0	34.6	33.4	32.2	30.0	28.9	24.5	22.7	21.0	16.8	16.6	15.2	16.5	16.6	19.4
50	5.87	6.61	7.62	7.11	7.69	6.60	5.78	5.32	4.28	3.65	3.00	2.80	2.70	2.59	2.53	2.53	2.49	2.53	2.55
55	2.74	2.68	2.63	2.61	2.64	2.72	2.88	2.91	2.92	2.89	2.97	3.08	3.16	3.29	3.23	3.23	3.14	3.14	3.08
60	2.67	2.79	2.80	2.83	2.87	2.98	3.07	3.05	2.88	2.78	2.57	2.46	2.35	2.14	1.96	1.79	1.76	1.76	1.94
65	0.24	0.27	0.27	0.28	0.28	0.28	0.27	0.25	0.22	0.20	0.18	0.17	0.17	0.15	0.14	0.13	0.14	0.13	0.15
70	0.04	0.05	0.06	0.06	0.06	0.07	0.05	0.05	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00