

TOVO

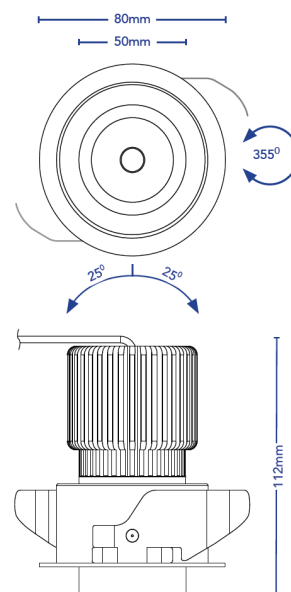
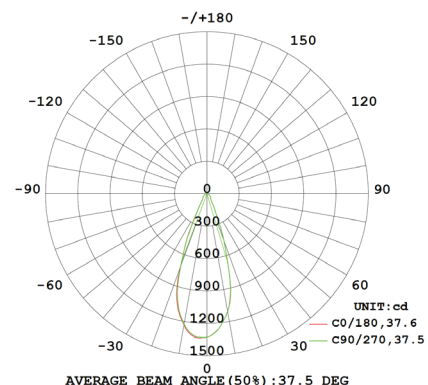
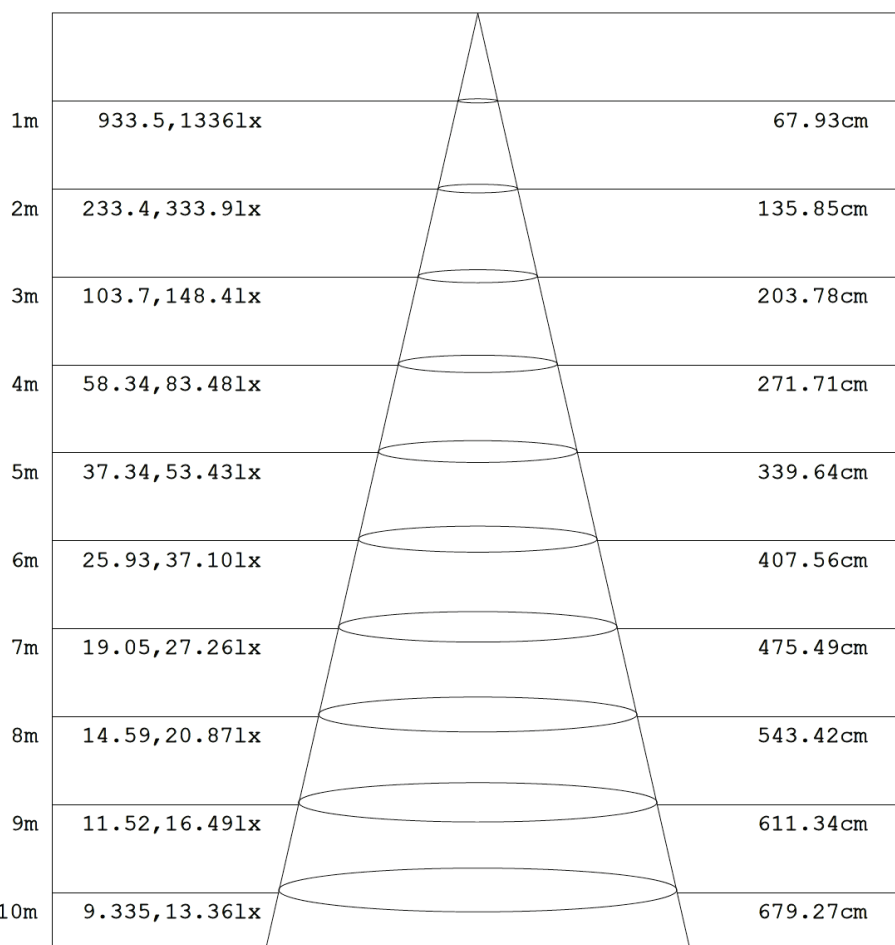
PHOTOMETRY

Downlight - Modulated Click Spot Series - Semi Trimless - D Spot - 3000K

FITTING - Downlight - Modulated Click Spot Series - Semi Trimless - D Spot		CODE - 4683_3000K_60 ⁰	
BODY - Modulated Downlight System With Long Snoot & Small Trim. Allowing For Interchangeable Body			
LAMP - TOVO 10W 3000K 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	674.5 Lm	LAMPS INSIDE	1
IMAX	1346 CD	LIGHT OUTPUT RATIO	100%
CIE CLASS	Direct	UP	.01%
EFFICIENCY	59.14 Lm/W	DOWN	99.9%

LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	17359	21151
80	31715	33049
75	38725	39678
70	44353	44985
65	49587	49955
60	54686	54786
55	60232	60100
50	66442	65812
45	71320	70144

Flux out:347.7 lm



Height Eavg, Emax Angle: 37.52deg Diameter



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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	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	.00
1.0	1.10	1.07	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.95	.94	.93
2.0	1.02	.98	.94	1.00	.97	.93	.97	.94	.91	.94	.92	.89	.91	.89	.87	.86
3.0	.95	.90	.86	.94	.89	.86	.91	.87	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.90	.84	.80	.88	.83	.79	.86	.82	.78	.84	.80	.77	.82	.79	.77	.75
5.0	.84	.79	.74	.84	.78	.74	.82	.77	.73	.80	.76	.73	.78	.75	.72	.71
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.66	.73	.69	.65	.72	.68	.65	.64
8.0	.72	.67	.63	.72	.66	.63	.71	.66	.62	.70	.65	.62	.69	.65	.62	.61
9.0	.69	.64	.60	.69	.63	.60	.68	.63	.60	.67	.62	.59	.66	.62	.59	.58
10.0	.66	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.64	.60	.57	.55

Candela Distribution

UNIT: cd

C(DEG) γ (DEG)		0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1328	1327	1327	1326	1327	1327	1326	1327	1328	1327	1327	1327	1326	1327	1327	1326	1327			
5	1253	1240	1239	1244	1252	1271	1290	1309	1330	1339	1344	1337	1320	1303	1288	1273				
10	1108	1086	1079	1088	1105	1135	1163	1196	1232	1249	1253	1243	1224	1189	1162	1138				
15	841	792	779	794	832	893	954	1008	1065	1085	1090	1082	1045	1003	961	906				
20	457	429	425	433	465	520	589	647	729	777	794	766	708	644	574	512				
25	199	191	181	190	198	219	273	345	399	430	439	427	379	326	268	223				
30	109	102	101	103	107	116	131	147	172	182	189	175	163	145	130	119				
35	69.0	64.5	63.9	64.9	66.1	69.5	74.7	84.9	91.7	96.9	97.2	91.9	87.3	82.4	75.2	71.0				
40	56.3	54.8	54.5	54.1	54.8	55.4	57.3	60.0	62.1	63.6	63.9	62.2	60.7	59.4	57.7	56.5				
45	50.4	49.5	49.1	49.1	49.6	50.3	51.5	53.4	54.6	55.1	55.2	54.6	53.6	52.4	51.8	50.9				
50	42.7	41.7	41.4	41.6	42.3	43.5	45.2	47.3	48.7	49.5	49.3	48.4	47.3	46.3	44.8	43.4				
55	34.5	33.8	33.6	33.8	34.5	35.6	36.8	38.4	39.5	40.2	39.9	39.2	38.0	37.2	36.1	35.1				
60	27.3	26.8	26.6	26.8	27.4	28.3	29.6	30.7	31.5	31.9	31.7	31.2	30.5	29.6	28.6	27.7				
65	21.0	20.4	20.2	20.5	21.1	22.0	23.0	24.1	24.5	24.9	24.8	24.5	23.8	23.0	22.1	21.2				
70	15.2	14.7	14.6	14.9	15.4	16.2	17.2	18.1	18.4	18.8	18.7	18.5	17.7	17.0	16.2	15.2				
75	10.0	9.61	9.54	9.80	10.3	11.1	11.9	12.7	12.5	13.2	13.1	12.9	12.5	11.6	10.7	10.0				
80	5.51	5.18	5.17	5.35	5.74	6.40	7.18	7.90	7.77	8.16	8.16	7.95	7.46	6.76	6.12	5.41				
85	1.51	1.27	1.21	1.45	1.84	2.40	2.96	3.61	3.79	3.80	3.86	3.80	3.16	2.62	2.06	1.34				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.08	0.08	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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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	0.08	0.00	0.16			
150	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.32	0.32	0.00	0.32	0.24	0.40	0.24	0.48				
155	0.16	0.08	0.47	0.08	0.00	0.08	0.24	0.00	0.56	0.48	0.32	0.64	0.72	0.79	0.64	0.72				
160	0.78	1.03	1.34	1.19	0.40	0.79	0.79	0.39	0.71	0.80	0.72	0.88	1.11	1.11	1.12	1.03				
165	1.51	1.27	1.51	1.35	0.88	1.35	1.43	1.28	1.51	1.51	1.11	1.03	1.11	1.12	1.19	1.44				
170	1.74	2.13	2.30	1.99	1.27	1.75	1.59	1.35	1.51	1.67	1.43	1.91	1.36	1.43	1.52	1.83				
175	1.67	2.86	3.65	2.63	1.43	2.63	2.71	1.91	1.51	1.67	1.83	2.07	2.07	1.43	1.99	2.07				
180	1.67	2.14	2.15	1.91	1.43	2.07	2.07	1.99	1.43	1.67	2.06	2.15	2.07	1.43	2.15	2.15				