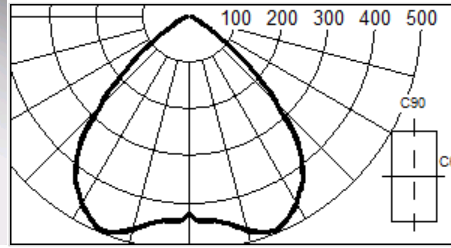


► Budynek Urzędu Miasta Stołecznego Warszawy



U722/LEDW3635S

recessed luminaire - lens - square - white
lacquered sheet steel housing
design: EER design
individual luminaire

Mechanical characteristics

dimensions: (LxWxH) 596 mm x 596 mm x 50 mm
minimum cutout: (LxW) 596 mm x 596 mm
ceiling module: M600
weight: 6.3 kg

Optic

lens - LED+LENS
Luminous area: 0.1764 m²

Lamp

lamp type: LED HP
colour temperature: 3000K / warm white

Electrical equipment

S: driver fixed output
voltage: 220-240V
frequency: 50-60Hz
Wieland connection: 1 x 3 polar Wieland
connection available
power consumption: 35.4 W
power factor >= 0.9
photobiological safety: EN 62471: risk group 1
unlimited

Luminance

luminous flux luminaire: 3600 lm
luminous efficacy luminaire: 102 lm/W

Classifications

UTE: 1.00 B

F1 = 698 F*1 = 698
F2 = 266 F*2 = 266
F3 = 29 F*3 = 29
F4 = 4 F*4 = 4
F5 = 0 F*5 = 0

CIE: 693 / 965 / 995 / 1000 / 1000
CIE_FLUXCODE: 0.69 / 0.97 / 0.99 / 1.00 / 1.00
BZ: BZ2
CAE: sym
DIN: A50 (Nach Arbeitsblatt 7)
DIN_U: Phi u = 1.00
DIN_SU: Phi su = 0.69
UTE: B

Luminous intensities in cd/klm

gamma	C 0	C 45	C 90
0°	416	416	416
5°	435	436	438
10°	447	446	450
15°	468	467	470
20°	487	484	488
25°	484	484	483
30°	457	460	456
35°	422	426	422
40°	359	374	365
45°	267	290	276
50°	169	187	174
55°	89	104	93
60°	39	45	41
65°	21	23	21
70°	13	14	13
75°	7	8	8
80°	4	5	4
85°	1	2	1
90°	0	0	0

Average luminances in cd/m²/3600lm

gamma	C 0	C 30	C 45	C 60	C 90
45°	7710	8091	8367	7963	7970
50°	5358	5600	5942	5682	5536
55°	3160	3359	3711	3436	3301
60°	1605	1705	1824	1732	1663
65°	1012	1045	1123	1066	1029
70°	748	794	831	779	764
75°	583	616	649	619	627

Utilisation factors according to IES in %

Rho Ceiling	80%	80%	80%	50%	50%	50%	30%	30%	30%	0%
Rho Walls	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
Rho Floor	20%	20%	20%	20%	20%	20%	20%	20%	20%	0%
R.C.R. = 1	108	106	104	102	100	99	98	96	95	90
2	97	93	90	92	89	87	89	86	84	80
3	88	82	79	83	79	76	81	77	75	71
4	79	73	69	76	71	67	74	69	66	63
5	72	66	61	69	64	60	67	62	59	56
6	66	59	54	63	57	53	62	56	53	50
7	60	53	48	58	52	48	57	51	47	45
8	56	48	44	54	47	43	52	47	43	41
9	51	44	39	50	43	39	48	43	39	37
10	47	40	36	46	40	36	45	39	35	34

Corrected glare indices referring to a total lamp flux of 3600lm

Rho Ceiling	70%	70%	50%	50%	30%	70%	70%	50%	50%	30%
Rho Walls	50%	30%	50%	30%	30%	50%	30%	50%	30%	30%
Rho Floor	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Dimensions	Viewing direction at right angles to lamp axis					Viewing direction parallel angles to lamp axis				
X Y										
2H 2H	16.9	17.8	17.1	18.0	18.2	17.0	17.9	17.2	18.1	18.3
3H	16.8	17.6	17.1	17.8	18.1	16.9	17.7	17.2	17.9	18.2
4H	16.8	17.5	17.1	17.8	18.0	16.9	17.6	17.2	17.9	18.1
6H	16.8	17.4	17.1	17.7	18.0	16.9	17.5	17.2	17.8	18.1
8H	16.8	17.3	17.1	17.6	17.9	16.9	17.4	17.2	17.7	18.0
12H	16.8	17.3	17.1	17.6	17.9	16.9	17.4	17.2	17.7	18.0
4H 2H	16.8	17.5	17.1	17.8	18.0	16.9	17.6	17.2	17.9	18.1
3H	16.9	17.4	17.2	17.7	18.0	17.0	17.5	17.3	17.8	18.1
4H	16.9	17.2	17.2	17.6	17.9	17.0	17.3	17.3	17.7	18.0
6H	16.9	17.1	17.2	17.5	17.9	17.0	17.2	17.3	17.6	18.0
8H	16.8	17.1	17.2	17.5	17.9	16.9	17.2	17.3	17.6	18.0
12H	16.8	17.0	17.2	17.4	17.8	16.9	17.1	17.3	17.5	17.9
8H 4H	16.8	17.1	17.2	17.4	17.8	16.9	17.1	17.3	17.5	17.9
6H	16.8	17.0	17.3	17.4	17.8	16.9	17.0	17.3	17.5	17.9
8H	16.8	16.9	17.3	17.3	17.8	16.9	17.0	17.4	17.4	17.9
12H	16.8	16.8	17.3	17.3	17.8	16.9	16.9	17.4	17.4	17.9
12H 4H	16.8	17.0	17.2	17.4	17.8	16.9	17.1	17.3	17.5	17.9
6H	16.8	16.9	17.2	17.3	17.8	16.9	17.0	17.3	17.4	17.9
8H	16.8	16.8	17.3	17.3	17.8	16.9	16.9	17.3	17.4	17.9
S = 1.0H	+1.3 / -2.7					+1.3 / -2.8				
1.5H	+2.8 / -6.1					+2.8 / -6.1				
2.0H	+4.6 / -7.4					+4.6 / -7.5				

Average luminances in cd/m²/1000lm

gamma	C 0	C 30	C 45	C 60	C 90
45°	2142	2247	2324	2212	2214
50°	1488	1556	1651	1578	1538
55°	878	933	1031	954	917
60°	446	474	507	481	462
65°	281	290	312	296	286
70°	208	221	231	216	212
75°	162	171	180	172	174

Utilisation factors according to LITG in %

Rho Ceiling	80%	80%	80%	80%	50%	50%	50%	50%	30%	0%
Rho Walls	50%	30%	50%	30%	50%	30%	50%	30%	30%	0%
Rho Floor	30%	30%	10%	10%	30%	30%	10%	10%	10%	0%
k=0.60	58	50	55	49	56	49	54	48	48	42
0.80	71	63	66	60	68	61	65	59	59	53
1.00	79	71	74	68	76	69	72	67	66	61
1.25	89	82	82	77	84	79	80	75	74	70
1.50	95	88	86	82	90	84	84	80	79	75
2.00	102	96	91	87	96	91	89	86	84	80
2.50	108	102	95	92	100	96	93	90	89	85
3.00	112	107	98	96	104	100	96	94	92	88
4.00	116	112	100	98	106	103	97	96	94	90
5.00	119	115	102	100	109	106	99	98	96	92

