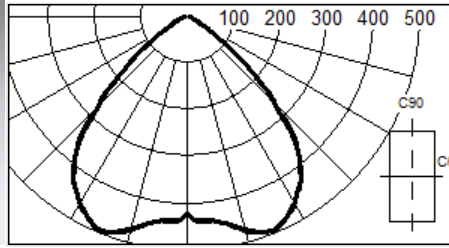


► Budynek Urzędu Miasta Stołecznego Warszawy



R720/LEDW3645SX2

surface mounted luminaire - lens -
rectangular - grey
lacquered sheet steel housing
design: EER design
individual luminaire

Mechanical characteristics

dimensions: (LxWxH) 1500 mm x 150 mm x 50 mm
weight: 6 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
power consumption: 47.4 W
power factor >= 0.9
photobiological safety: EN 62471: risk group 1
unlimited

Luminance

luminous flux luminaire: 4600 lm
luminous efficacy luminaire: 97 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/km

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

Corrected glare indices referring to a total lamp flux of 4600lm

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	X Y	Viewing direction at right angles to lamp axis	Viewing direction parallel angles to lamp axis
2H 2H	17.7 18.6 18.0 18.8 19.0	17.8 18.7 18.1 18.9 19.1	
	3H	17.7 18.5 18.0 18.7 18.9	17.8 18.6 18.1 18.8 19.0
	4H	17.7 18.4 18.0 18.6 18.9	17.8 18.5 18.1 18.7 19.0
	6H	17.6 18.2 18.0 18.5 18.8	17.7 18.3 18.1 18.6 18.9
	8H	17.6 18.2 18.0 18.5 18.8	17.7 18.3 18.1 18.6 18.9
	12H	17.6 18.1 17.9 18.4 18.7	17.7 18.2 18.0 18.5 18.8
4H 2H	17.7 18.4 18.0 18.6 18.9	17.8 18.5 18.1 18.7 19.0	
	3H	17.7 18.2 18.1 18.5 18.8	17.8 18.3 18.2 18.6 18.9
	4H	17.7 18.1 18.1 18.4 18.8	17.8 18.2 18.2 18.5 18.9
	6H	17.7 18.0 18.1 18.4 18.7	17.8 18.1 18.2 18.5 18.8
	8H	17.7 17.9 18.1 18.3 18.7	17.8 18.0 18.2 18.4 18.8
	12H	17.7 17.9 18.1 18.3 18.7	17.8 18.0 18.2 18.4 18.8
8H 4H	17.7 17.9 18.1 18.3 18.7	17.8 18.0 18.2 18.4 18.8	
	6H	17.7 17.8 18.1 18.2 18.7	17.8 17.9 18.2 18.3 18.8
	8H	17.7 17.7 18.1 18.2 18.7	17.8 17.8 18.2 18.3 18.7
	12H	17.6 17.7 18.1 18.1 18.7	17.7 17.7 18.2 18.2 18.7
	12H 4H	17.6 17.8 18.1 18.2 18.7	17.7 17.9 18.2 18.3 18.8
	6H	17.6 17.7 18.1 18.2 18.6	17.7 17.8 18.2 18.2 18.7
S = 1.0H	18.1 17.6 18.1 18.1 18.6	17.7 17.7 18.2 18.2 18.7	
1.5H	+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/m²/4600lm

gamma	C 0	C 30	C 45	C 60	C 90
45°	9851	10338	10691	10175	10184
50°	6846	7156	7593	7260	7074
55°	4038	4292	4742	4390	4218
60°	2050	2178	2331	2214	2125
65°	1294	1335	1435	1362	1315
70°	956	1014	1062	995	976
75°	745	788	829	791	801

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 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

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

