



R721/LEDW2435SX2

suspended 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: 5.7 kg

Optic

lens - LED+LENS
Luminous area: 0.1176 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: 36.8 W
power factor >= 0.9

photobiological safety: EN 62471: risk group 1
unlimited

Luminance

luminous flux luminaire: 3550 lm
luminous efficacy luminaire: 96 lm/W

Classifications

UTE: 0.71 B + 0.29 T CIE: 489 / 681 / 702 / 706 /
F1 = 493 F1' = 493 1000
F2 = 188 F2' = 188
F3 = 21 F3' = 21 CIE_FLUXCODE: 0.69 / 0.97 /

Luminous intensities in cd/klm

gamma	C 0	C 45	C 90	gamma	C 0	C 45	C 90
0°	294	294	294	90°	0	0	0
5°	307	308	309	95°	3	2	1
10°	315	315	317	100°	3	8	8
15°	331	329	332	105°	13	17	16
20°	344	342	345	110°	24	26	25
25°	341	341	341	115°	34	35	35
30°	322	325	322	120°	43	45	44
35°	298	301	298	125°	52	54	54
40°	254	264	257	130°	60	63	63
45°	189	205	195	135°	69	72	72
50°	119	132	123	140°	77	79	79
55°	63	74	65	145°	84	86	87
60°	28	32	29	150°	90	92	92
65°	15	16	15	155°	95	97	97
70°	9	10	9	160°	100	101	101
75°	5	6	6	165°	104	105	104
80°	3	3	3	170°	106	107	107
85°	1	1	1	175°	108	108	108
90°	0	0	0	180°	108	108	108

Average luminances in cd/m²/3550lm

gamma	C 0	C 30	C 45	C 60	C 90
45°	8050	8447	8736	8314	8322
50°	5594	5847	6204	5933	5780
55°	3300	3507	3875	3588	3447
60°	1675	1780	1905	1809	1736
65°	1057	1091	1173	1113	1074
70°	781	829	867	813	798
75°	609	643	677	646	655

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	101	99	98	86	85	84	77	76	75	63
2	91	87	85	78	75	73	70	68	67	56
3	82	77	73	70	67	64	64	61	59	50
4	74	68	64	64	60	56	58	54	52	44
5	67	60	56	58	53	50	53	49	46	39
6	60	54	49	53	48	44	48	44	41	35
7	55	48	43	48	43	39	44	40	37	32
8	50	43	39	44	39	35	41	36	33	29
9	46	39	35	41	36	32	38	33	30	26
10	43	36	31	38	33	29	35	30	27	24

Corrected glare indices referring to a total lamp flux of 3550lm

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	15.2	15.9	15.8	16.5	17.1	15.2	16.0	15.9	16.6	17.2
3H	15.0	15.7	15.7	16.3	16.9	15.1	15.8	15.8	16.4	17.0
4H	15.0	15.5	15.7	16.2	16.8	15.1	15.6	15.8	16.3	16.9
6H	14.9	15.4	15.6	16.1	16.7	15.0	15.5	15.7	16.2	16.8
8H	14.8	15.3	15.6	16.0	16.7	14.9	15.4	15.7	16.1	16.8
12H	14.8	15.2	15.5	15.9	16.6	14.9	15.3	15.6	16.0	16.7
4H 2H	15.0	15.6	15.7	16.2	16.8	15.1	15.7	15.8	16.3	16.9
3H	14.9	15.3	15.6	16.1	16.7	15.0	15.4	15.7	16.1	16.8
4H	14.8	15.2	15.6	15.9	16.6	14.9	15.3	15.7	16.0	16.7
6H	14.8	15.1	15.6	15.8	16.5	14.9	15.1	15.6	15.9	16.6
8H	14.7	15.0	15.5	15.7	16.5	14.8	15.1	15.6	15.8	16.6
12H	14.7	14.9	15.5	15.7	16.4	14.8	15.0	15.6	15.8	16.5
8H 4H	14.7	14.9	15.5	15.7	16.5	14.8	15.0	15.6	15.8	16.6
6H	14.6	14.8	15.5	15.6	16.4	14.7	14.9	15.6	15.7	16.5
8H	14.6	14.7	15.4	15.5	16.3	14.7	14.8	15.5	15.6	16.4
12H	14.5	14.6	15.4	15.5	16.3	14.6	14.7	15.5	15.6	16.4
12H 4H	14.6	14.8	15.4	15.6	16.4	14.7	14.9	15.5	15.7	16.5
6H	14.6	14.7	15.4	15.5	16.3	14.7	14.8	15.5	15.6	16.4
8H	14.5	14.6	15.4	15.5	16.3	14.6	14.7	15.5	15.6	16.4
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°	2268	2380	2461	2342	2344
50°	1576	1647	1748	1671	1628
55°	929	988	1091	1011	971
60°	472	501	537	510	489
65°	298	307	330	313	303
70°	220	233	244	229	225
75°	172	181	191	182	184

Utilisation factors according to LITG in %

Rho Ceiling	80%	80%	80%	80%	50%	50%	50%	30%	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	49	41	46	39	45	38	43	37	36	30
0.80	60	52	57	50	54	48	52	46	44	37
1.00	69	60	64	57	61	55	58	53	50	43
1.25	78	70	71	65	69	63	65	60	57	49
1.50	84	76	76	70	73	68	69	65	61	53
2.00	92	84	82	77	79	74	73	70	65	57
2.50	97	91	86	82	83	79	77	74	69	60
3.00	102	96	89	86	86	83	80	77	72	62
4.00	106	101	92	89	89	86	82	79	74	64
5.00	109	105	94	91	91	89	83	82	75	65

F4 = 3 F4 = 3
F5 = 294 F5 = 294

0.99 / 0.71 / 1.00

BZ: BZ2

CAE: sym

DIN: B53 (Nach Arbeitsblatt 7
und 8)

DIN_U: $\Phi u = 0.71$

DIN_SU: $\Phi su = 0.69$

SO: $\Phi so = 0.71$

UTE: B

