



R718/LEDN0405SX2

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

Mechanical characteristics

dimensions: (LxWxH) 180 mm x 180 mm x 53 mm

Optic

lens - LED+LENS

Luminous area: 0.0196 m²

Lamp

lamp type: LED HP

colour temperature: 4000K / neutral white

Electrical equipment

S: driver fixed output

voltage: 220-240V

frequency: 50-60Hz

power consumption: 10.6 W

power factor >= 0.9

photobiological safety: EN 62471: risk group 1
unlimited

Luminance

luminous flux luminaire: 600 lm

luminous efficacy luminaire: 57 lm/W

Classifications

UTE: 1.00 A

F1 = 844 F1' = 844

F2 = 137 F2' = 137

F3 = 14 F3' = 14

F4 = 3 F4' = 3

F5 = 0 F5' = 0

CIE: 840 / 982 / 997 / 1000 /
1000

CIE_FLUXCODE: 0.84 / 0.98 /
1.00 / 1.00 / 1.00

BZ: BZ1

CAE: sym

DIN: A60 (Nach Arbeitsblatt
7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.75

UTE: A

Luminous intensities in cd/km

gamma	C 0	C 45	C 90
0°	617	617	617
5°	615	615	615
10°	612	612	612
15°	607	607	607
20°	606	606	606
25°	611	611	611
30°	591	591	591
35°	491	491	491
40°	339	339	339
45°	175	175	175
50°	68	68	68
55°	32	32	32
60°	18	18	18
65°	11	11	11
70°	7	7	7
75°	5	5	5
80°	3	3	3
85°	1	1	1
90°	1	1	1

Average luminances in cd/m²/600lm

gamma	C 0	C 30	C 45	C 60	C 90
45°	7580	7580	7580	7580	7580
50°	3245	3245	3245	3245	3245
55°	1709	1709	1709	1709	1709
60°	1094	1094	1094	1094	1094
65°	801	801	801	801	801
70°	647	647	647	647	647
75°	551	551	551	551	551

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	109	107	106	103	101	100	99	98	97	92
2	100	96	94	95	92	90	92	89	88	83
3	92	87	83	87	84	81	85	82	79	75
4	84	79	75	80	76	73	78	75	72	68
5	77	71	67	74	69	66	73	68	65	62
6	71	65	61	69	64	60	67	63	59	57
7	66	60	55	64	58	55	63	58	54	52
8	61	55	50	59	54	50	58	53	50	48
9	57	51	46	55	50	46	54	49	46	44
10	53	47	43	52	46	42	51	46	42	40

Corrected glare indices referring to a total lamp flux of 600lm

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	16.1	16.7	16.4	16.9	17.1	16.1	16.7	16.4	16.9	17.1
3H	16.1	16.6	16.3	16.8	17.0	16.1	16.6	16.3	16.8	17.0
4H	16.0	16.5	16.3	16.7	17.0	16.0	16.5	16.3	16.7	17.0
6H	16.0	16.4	16.3	16.6	16.9	16.0	16.4	16.3	16.6	16.9
8H	16.0	16.3	16.3	16.6	16.9	16.0	16.3	16.3	16.6	16.9
12H	16.0	16.3	16.3	16.5	16.9	16.0	16.3	16.3	16.5	16.9
4H 2H	16.0	16.4	16.3	16.7	17.0	16.0	16.4	16.3	16.7	17.0
3H	16.0	16.3	16.3	16.6	16.9	16.0	16.3	16.3	16.6	16.9
4H	16.0	16.1	16.3	16.5	16.8	16.0	16.1	16.3	16.5	16.8
6H	16.0	16.0	16.3	16.4	16.8	16.0	16.0	16.3	16.4	16.8
8H	15.9	16.0	16.3	16.4	16.8	15.9	16.0	16.3	16.4	16.8
12H	15.9	15.9	16.3	16.3	16.7	15.9	15.9	16.3	16.3	16.7
8H 4H	15.9	16.0	16.3	16.3	16.7	15.9	16.0	16.3	16.3	16.7
6H	15.9	15.9	16.3	16.3	16.7	15.9	15.9	16.3	16.3	16.7
8H	15.9	15.8	16.3	16.2	16.7	15.9	15.8	16.3	16.2	16.7
12H	15.9	15.7	16.3	16.2	16.7	15.9	15.7	16.3	16.2	16.7
12H 4H	15.9	15.9	16.3	16.3	16.7	15.9	15.9	16.3	16.3	16.7
6H	15.9	15.8	16.3	16.2	16.7	15.9	15.8	16.3	16.2	16.7
8H	15.9	15.7	16.3	16.2	16.7	15.9	15.7	16.3	16.2	16.7
S = 1.0H	+2.7 / -6.4					+2.7 / -6.4				
1.5H	+5.2 / -8.0					+5.2 / -8.0				
2.0H	+7.1 / -8.8					+7.1 / -8.8				

Average luminances in cd/m²/1000lm

gamma	C 0	C 30	C 45	C 60	C 90
45°	12634	12634	12634	12634	12634
50°	5409	5409	5409	5409	5409
55°	2848	2848	2848	2848	2848
60°	1823	1823	1823	1823	1823
65°	1336	1336	1336	1336	1336
70°	1078	1078	1078	1078	1078
75°	919	919	919	919	919

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	66	58	62	57	64	57	61	56	56	51
0.80	77	70	73	67	74	68	71	66	66	61
1.00	85	78	79	74	81	75	77	73	72	67
1.25	94	88	87	82	90	85	85	81	80	76
1.50	100	93	90	86	94	89	88	85	84	80
2.00	106	100	95	92	99	95	92	90	89	85
2.50	111	106	98	95	103	100	95	93	92	88
3.00	115	111	101	98	106	103	98	96	95	92
4.00	118	114	102	100	108	106	99	98	96	93
5.00	121	117	104	102	110	108	101	99	98	94



