

U23F2/LEDW35DE

Classifications

CIE: 467 / 784 / 955 / 1000 / 1000

CIE FLUXCODE : 0.47 / 0.78 / 0.95 / 1.00 / 1.00

BZ: BZ5/1.25/BZ4/1.5/BZ5

CAE: Symmetrical

DIN: A40 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.54

UTE: 1.00 E + 0.00 T

Intensity for 3400lm

Gamma	C0	C45	C90
0°	1178.6	1178.6	1178.6
5°	1169.6	1170.0	1173.5
10°	1155.0	1154.7	1158.7
15°	1129.2	1129.8	1133.5
20°	1095.3	1094.7	1098.7
25°	1051.6	1050.9	1055.2
30°	998.9	998.7	1002.0
35°	938.1	937.4	941.3
40°	869.4	868.3	871.9
45°	793.1	792.0	795.7
50°	709.7	708.9	712.8
55°	620.1	619.3	625.3
60°	524.6	525.1	529.8
65°	424.1	427.1	433.9
70°	322.3	327.2	335.7
75°	223.4	229.4	238.9
80°	130.0	138.7	146.2
85°	48.1	54.3	43.7
90°	0.0	0.0	0.0

UGR classification

Corrected Glare Ratings for a Total Lamp Flux of 3400lm (S = 0.25H)

Ceiling Walls Floor	Room Reflection Factors (%)									
	70	70	50	50	30	70	70	50	50	30
Room Dimensions	Viewed Crosswise					Viewed Endwise				
X = 2H Y = 2H	17.2	19.0	17.5	19.3	19.5	17.2	19.0	17.5	19.3	19.6
Y = 3H	18.7	20.4	19.1	20.7	21.0	18.8	20.5	19.1	20.8	21.1
Y = 4H	19.3	20.9	19.7	21.2	21.5	19.4	21.0	19.8	21.3	21.6
Y = 6H	19.7	21.1	20.1	21.5	21.8	19.9	21.4	20.3	21.7	22.0
Y = 8H	19.8	21.2	20.2	21.5	21.9	20.0	21.4	20.4	21.8	22.1
Y = 12H	19.8	21.2	20.2	21.5	21.9	20.1	21.4	20.5	21.8	22.1
X = 4H Y = 2H	17.8	19.4	18.2	19.7	20.0	17.9	19.4	18.2	19.7	20.1
Y = 3H	19.5	20.9	19.9	21.3	21.6	19.6	21.0	20.0	21.3	21.7
Y = 4H	20.3	21.5	20.7	21.8	22.2	20.4	21.6	20.8	22.0	22.4
Y = 6H	20.8	21.9	21.2	22.3	22.7	21.0	22.1	21.4	22.5	22.9
Y = 8H	20.9	22.0	21.4	22.4	22.8	21.2	22.2	21.6	22.6	23.0
Y = 12H	21.0	21.9	21.5	22.4	22.8	21.2	22.2	21.7	22.6	23.0
X = 8H Y = 4H	20.6	21.6	21.0	22.0	22.4	20.7	21.7	21.1	22.1	22.5
Y = 6H	21.2	22.1	21.7	22.5	23.0	21.4	22.3	21.9	22.7	23.2
Y = 8H	21.5	22.2	21.9	22.7	23.2	21.7	22.4	22.2	22.9	23.4
Y = 12H	21.6	22.3	22.1	22.7	23.3	21.8	22.5	22.3	23.0	23.5
X = 12H Y = 4H	20.6	21.5	21.0	21.9	22.4	20.7	21.6	21.2	22.1	22.5
Y = 6H	21.3	22.1	21.8	22.5	23.0	21.5	22.2	22.0	22.7	23.2
Y = 8H	21.6	22.2	22.1	22.7	23.2	21.8	22.4	22.3	22.9	23.4
UGR Variations with Observer Position for Luminaire Spacings S										
S = 1.0H	+0.1		-0.1		+0.1		-0.1			
S = 1.5H	+0.2		-0.3		+0.2		-0.3			
S = 2.0H	+0.4		-0.6		+0.4		-0.6			

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Colour properties

Correlated Colour Temperature : 3000

Ra: 80

Efficiency

Utilisation Factors according to IES (%)

	Room Reflection Factors (%)									
	80	80	80	50	50	50	30	30	30	0
Ceiling	80	80	80	50	50	50	30	30	30	0
Walls	50	30	10	50	30	10	50	30	10	0
Floor	20	20	20	20	20	20	20	20	20	0
RCR = 1	103	99	97	96	94	92	92	90	89	83
2	89	83	79	83	79	76	80	76	74	69
3	77	71	65	73	67	63	70	66	62	58
4	69	61	55	65	58	54	62	57	53	50
5	61	53	47	58	51	46	56	50	46	43
6	55	47	41	52	45	40	51	45	40	37
7	50	42	36	48	41	36	46	40	35	33
8	46	38	32	44	37	32	43	36	32	29
9	42	34	29	40	33	29	39	33	28	26
10	39	31	26	37	31	26	36	30	26	24

Utilisation Factors according to LiTG (%)

	Room Reflection Factors (%)									
	80	80	80	50	50	50	50	50	30	0
Ceiling	80	80	80	50	50	50	50	50	30	0
Walls	50	30	50	30	50	30	50	30	30	0
Floor	30	30	10	10	30	30	10	10	10	0
k = 0.60	47	38	45	37	45	37	43	36	36	29
0.80	58	49	55	47	55	47	53	46	45	38
1.00	67	57	62	54	63	55	60	53	52	45
1.25	77	67	70	63	72	64	68	62	61	54
1.50	84	74	76	69	78	71	73	67	66	60
2.00	93	84	83	77	86	79	80	75	73	67
2.50	99	92	88	83	91	86	85	80	79	73
3.00	105	98	92	87	96	91	88	85	83	78
4.00	110	104	95	91	100	96	92	89	87	82
5.00	114	109	98	95	104	100	94	92	90	86

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Available accessories

U23H2 *Recessed mounting frame for plaster-board and wooden ceilings M600*

U23H4 *Surface mounted rim M600*

Dimensional drawing

