

36REI LIGHTING CHART

Programmed at 20% 180W Max Load w/ Emergency Dimming

NOTE: 36REI IS PROGRAMMED AT 20% 180W MAX. LOAD

Luminaire wattage	35	36	37	38	39	40	41	42	43	44
Emergency Dim to 20% (W)	7	7.2	7.4	7.6	7.8	8	8.2	8.4	8.6	8.8
# of Emergency Luminaires	5	5	4	4	4	4	4	4	4	4
Actual wattage from 36REI used	35	36	29.6	30.4	31.2	32	32.8	33.6	34.4	35.2
Lumens per EM fixture **	833	857	881	904	928	952	976	1000	1023	1047
Total System Lumens provided	4165	4284	3522	3618	3713	3808	3903	3998	4094	4189
Total fixture wattage (Max. 180 W)	175	180	148	152	156	160	164	168	172	176

Luminaire wattage	45	46	47	48	49	50	51	52	53	54
Emergency Dim to 20% (W)	9	9.2	9.4	9.6	9.8	10	10.2	10.4	10.6	10.8
# of Emergency Luminaires	4	3	3	3	3	3	3	3	3	3
Actual wattage from 36REI used	36	27.6	28.2	28.8	29.4	30	30.6	31.2	31.8	32.4
Lumens per EM fixture **	1071	1095	1119	1142	1166	1190	1214	1238	1261	1285
Total System Lumens provided	4284	3284	3356	3427	3499	3570	3641	3713	3784	3856
Total fixture wattage (Max. 180 W)	180	138	141	144	147	150	153	156	159	162

Luminaire wattage	55	56	57	58	59	60	61	62	63	64
Emergency Dim to 20% (W)	11	11.2	11.4	11.6	11.8	12	12.2	12.4	12.6	12.8
# of Emergency Luminaires	3	3	3	3	3	3	2	2	2	2
Actual wattage from 36REI used	33	33.6	34.2	34.8	35.4	36	24.4	24.8	25.2	25.6
Lumens per EM fixture **	1309	1333	1357	1380	1404	1428	1452	1476	1499	1523
Total System Lumens provided	3927	3998	4070	4141	4213	4284	2904	2951	2999	3046
Total fixture wattage (Max. 180 W)	165	168	171	174	177	180	122	124	126	128

Luminaire wattage	65	66	67	68	69	70	71	72	73	74
Emergency Dim to 20% (W)	13	13.2	13.4	13.6	13.8	14	14.2	14.4	14.6	14.8
# of Emergency Luminaires	2	2	2	2	2	2	2	2	2	2
Actual wattage from 36REI used	26	26.4	26.8	27.2	27.6	28	28.4	28.8	29.2	29.6
Lumens per EM fixture **	1547	1571	1595	1618	1642	1666	1690	1714	1737	1761
Total System Lumens provided	3094	3142	3189	3237	3284	3332	3380	3427	3475	3522
Total fixture wattage (Max. 180 W)	130	132	134	136	138	140	142	144	146	148

Luminaire wattage	75	80	85	88	90	91-180	150	175	180	
Emergency Dim to 20% (W)	15	16	17	17.6	18	18-36	30	35	36	
# of Emergency Luminaires	2	2	2	2	2	1	1	1	1	
Actual wattage from 36REI used	30	32	34	35.2	36	cal.	30			
Lumens per EM fixture **	1785	1904	2023	2094	2142	2140-4280	4200			
Total System Lumens provided	3570	3808	4046	4189	4284	2140-4280				
Total fixture wattage (Max. 180 W)	150	160	170	176	180	91-120	150			

** 140 lumens/watt & 85% system eff.

The 36REI may need to be re-programmed to enable 2.0 Vdc in emergency from the Violet/wht and Gray/wht leads. See instructions.

All calculations based on 10-55C

- 1- Define the wattage of the normal/emergency luminaire.
- 2- Determine from the chart how many emergency luminaires can be used with the 36REI for 90 minutes
- 3- Use a lighting calculation program to determine spacing of emergency luminaires to meet life safety and local code requirements for egress.
- 4- Ensure that the total normal/(emergency) luminaire(s) or connected loads do not exceed 180 W.
- 5- LED Luminaires must incorporate linear 0-10Vdc dimming drivers and be wired with the 36REI when using the Emergency Dimming Feature functions. Not compatible with logarithmic dimming drivers.
- 6- **All Selection Chart Calculations are based on 85% driver efficiency and 140Lm/W efficacy.

36REI LIGHTING CHART

Programmed at 30% 120W Max Load w/ Emergency Dimming

NOTE: 120W @ 3 Vdc standard setting for Emergency Dimming feature.
Emergency Dimming feature can be reprogrammed for 2 Vdc and 180W loads.

Luminaire wattage	14	15	16	17	18	19	20	21	22	23
Emergency Dim to 30% (W)	4.2	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9
# of Emergency Luminaires	8	8	7	7	6	6	6	5	5	5
Lumens per EM fixture **	500	536	571	607	643	678	714	750	785	821
Total System Lumens provided	3998	4284	3998	4248	3856	4070	4284	3749	3927	4106
Total fixture wattage (Max. 120 W)	112	120	112	119	108	114	120	105	110	115

Luminaire wattage	24	25	26	27	28	29	30	31	32	33
Emergency Dim to 30% (W)	7.2	7.5	7.8	8.1	8.4	8.7	9	9.3	9.6	9.9
# of Emergency Luminaires	5	4	4	4	4	4	4	3	3	3
Lumens per EM fixture **	857	893	928	964	1000	1035	1071	1107	1142	1178
Total System Lumens provided	4284	3570	3713	3856	3998	4141	4284	3320	3427	3534
Total fixture wattage (Max. 120 W)	120	100	104	108	112	116	120	93	96	99

Luminaire wattage	34	35	36	37	38	39	40	41	42	43
Emergency Dim to 30% (W)	10.2	10.5	10.8	11.1	11.4	11.7	12	12.3	12.6	12.9
# of Emergency Luminaires	3	3	3	3	3	3	3	2	2	2
Lumens per EM fixture **	1214	1250	1285	1321	1357	1392	1428	1464	1499	1535
Total System Lumens provided	3641	3749	3856	3963	4070	4177	4284	2927	2999	3070
Total fixture wattage (Max. 120 W)	102	105	108	111	114	117	120	82	84	86

Luminaire wattage	44	45	46	47	48	49	50	51	52	53
Emergency Dim to 30% (W)	13.2	13.5	13.8	14.1	14.4	14.7	15	15.3	15.6	15.9
# of Emergency Luminaires	2	2	2	2	2	2	2	2	2	2
Lumens per EM fixture **	1571	1607	1642	1678	1714	1749	1785	1821	1856	1892
Total System Lumens provided	3142	3213	3284	3356	3427	3499	3570	3641	3713	3784
Total fixture wattage (Max. 120 W)	88	90	92	94	96	98	100	102	104	106

Luminaire wattage	54	55	56	58	60	61-120			Up to 36
Emergency Dim to 30% (W)	16.2	16.5	16.8	17.4	18	18.3-36			up to 36
# of Emergency Luminaires	2	2	2	2	1				1
Lumens per EM fixture **	1928	1964	1999	2071	2142	2140-4280		NON-DIM APPS	up to 4282
Total System Lumens provided	3856	3927	3998	4141	4284	2140-4280			up to 4282
Total fixture wattage (Max. 120 W)	108	110	112	116	120	61-120			36

- 1 - Define the wattage of the normal/emergency luminaire.
- 2 - Determine from chart how many emergency luminaires can be used with the 36REI.
- 3 - Use lighting calculation program to determine spacing of emergency luminaires to meet life safety and local requirements for egress.
- 4 - Ensure that the total normal/emergency lighting luminaire(s) wattage does not exceed 120W.
- 5 - LED Luminaires must incorporate 0-10Vdc dimming driver and be wired with the 36REI when using the Emergency Dimming function.
- 6 - **All Selection Chart calculations based on 85% driver efficiency and 140Lm/W efficacy.