

NONRESIDENTIAL ACM MANUAL APPENDIX NB

Appendix NB - Illuminance Categories and Luminaire Power

Illuminance Categories

Please see Chapter 10 in the IESNA Lighting Handbook, Ninth Edition.

Illuminance Categories and Luminaire Power

Luminaire power shall be taken from the following tables.

Table NB-1 – Fluorescent Circline

Table NB-2 – Compact Fluorescent 2D

Table NB-3 – Compact Fluorescent

Table NB-4 – Long Compact Fluorescent

Table NB-5 – Fluorescent U-Tubes

Table NB-6 – Fluorescent Linear Lamps – Preheat

Table NB-7 – Fluorescent Linear Lamps T5

Table NB-8 – Fluorescent Rapid Start T-8

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Table NB-13 – High Intensity Discharge

Table NB-14 – 12 Volt Tungsten Halogen Lamps Including MR16, Bi-pin, AR70, AR111, PAR36

Table NB-1 – Fluorescent Circline

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
Rapid Start (22 W)	1	FC8T9	1	MAG STAND.	Mag. Stand.	27	8" OD
T5 Program Start (22 W)	1	FC9T5	1	ELECT NO	Electronic Normal Light	28	8" OD
	2	FC9T5	1	ELECT NO	Electronic Normal Light	53	
T5 Program Start (40 W)	1	FC12T5	1	ELECT NO	Electronic Normal Light	41	12" OD
	2	FC12T5	1	ELECT NO	Electronic Normal Light	80	
T5 Rapid Start (55 W)	1	FC12T5HO	1	ELECT NO	Electronic Normal Light	55	12" OD
	2	FC12Tag5HO	1	ELECT NO	Electronic Normal Light	103	
	1	FC12T5HO	1	ELECT DIM	Electronic Dimming	12-59	
	2	FC12T5HO	1	ELECT DIM	Electronic Dimming	24-114	
T5 Rapid Start (40 + 22 W)	1+1	FC12T5/FC9T5	1	ELECT NO	Electronic Normal Light	68	8" & 12" OD

RO = ballast factor 70 to 85% NO = ballast factor 85 to 100% HO = ballast factor >100%

Table NB-2 – Compact Fluorescent 2D

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
10W, GR10q-4 Four Pin Base	1	CFS10W/GR10q	1	MAG STD	Mag. Stand.	16	3.6" across
	1	CFS10W/GR10q	1	ELECT	Electronic	13	
	2	CFS10W/GR10q	1	ELECT	Electronic	26	
16W, GR10q-4 Four Pin Base	1	CFS16W/GR10q	1	MAG STD	Mag. Stand.	23	5.5" across
	1	CFS16W/GR10q	1	ELECT	Electronic	15	
	2	CFS16W/GR10q	1	ELECT	Electronic	30	
21W, GR10q-4 Four Pin Base	1	CFS21W/GR10q	1	MAG STD	Mag. Stand.	31	5.5" across
	1	CFS21W/GR10q	1	ELECT	Electronic	21	
	2	CFS21W/GR10q	1	ELECT	Electronic	42	
28W, GR10q-4 Four Pin Base	1	CFS28W/GR10q	1	MAG STD	Mag. Stand.	38	8.1" across
	1	CFS28W/GR10q	1	ELECT	Electronic	28	
	2	CFS28W/GR10q	1	ELECT	Electronic	56	
(38W, GR10q-4 Four Pin Base	1	CFS38W/GR10q	1	ELECT	Electronic	37	8.1" across
	2	CFS38W/GR10q	1	ELECT	Electronic	74	

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Table NB-3 – Compact Fluorescent

Type	Lamps		Ballasts		System Watts	Comment	
	Number	Designation	Number	Designation			Description
Twin (5 W, G23 Two Pin Base - F5TT Lamp)	1	CFT5W/G23	1	MAG STD	Mag. Stand.	9	4.1" MOL
	2	CFT5W/G23	2	MAG STD	Mag. Stand.	18	
Twin (7 W, G23 Two Pin Base - F7TT Lamp)	1	CFT7W/G23	1	MAG STD	Mag. Stand.	11	5.3" MOL
	2	CFT7W/G23	2	MAG STD	Mag. Stand.	22	
Twin (7 W, 2G7 Four Pin Base - F7TT Lamp)	1	CFT7W/2G7	1	ELECT	Electronic	8	5.3" MOL
	2	CFT7W/2G7	2	ELECT	Electronic	16	
Twin (9 W, G23 Two Pin Base - F9TT Lamp)	1	CFT9W/G23	1	MAG STD	Mag. Stand.	13	6.5" MOL
	2	CFT9W/G23	2	MAG STD	Mag. Stand.	26	
Twin (9 W, 2G7 Four Pin Base - F9TT Lamp)	1	CFT9W/2G7	1	ELECT	Electronic	10	6.5" MOL
	2	CFT9W/2G7	2	ELECT	Electronic	20	
Twin (13 W, GX23 Two Pin Base - F13TT)	1	CFT13W/GX23	1	MAG STD	Mag. Stand.	17	7.5" MOL
	2	CFT13W/GX23	2	MAG STD	Mag. Stand.	34	
Twin (13 W, 2GX7 Four Pin Base - F13TT)	1	CFT13W/2GX7	1	ELECT	Electronic	17	7.5" MOL
	2	CFT13W/2GX7	2	ELECT	Electronic	34	
Quad (9 W, G23-2 Two Pin Base - F9DTT Lamp)	1	CFQ9W/G23-2	1	MAG STD 120	120 V Mag. Stand.	13	4.4" MOL
	2	CFQ9W/G23-2	2	MAG STD 120	120 V Mag. Stand.	26	
Quad (13 W, G24d-1 Two Pin Base - F13DTT Lamp)	1	CFQ13W/G24d -1	1	MAG STD 120	120 V Mag. Stand.	18	6.0" MOL
	2	CFQ13W/G24d -1	2	MAG STD 120	120 V Mag. Stand.	36	
	1	CFQ13W/G24d -1	1	MAG STD 277	277 V Mag. Stand.	16	
	2	CFQ13W/G24d -1	2	MAG STD 277	227 V Mag. Stand.	32	
Quad (13 W, GX23-2 Two Pin Base)	1	CFQ13W/GX2 3-2	1	MAG STD	Mag. Stand.	17	4.8" MOL
	2	CFQ13W/GX2 3-2	2	MAG STD	Mag. Stand.	34	
Quad (16W GX32d-1 Two Pin Base)	1	CFQ16W/GX3 2d-1	1	MAG STD	Mag. Stand.	20	5.5" MOL
	2	CFQ16W/GX3 2d-1	2	MAG STD	Mag. Stand.	40	
Quad (18 W, G24d-2 Two Pin Base - F18DTT Lamp)	1	CFQ18W/G24d -2	1	MAG STD 120	120 V Mag. Stand.	25	6.8" MOL
	2	CFQ18W/G24d -2	2	MAG STD 120	120 V Mag. Stand.	50	
	1	CFQ18W/G24d -2	1	MAG STD 277	227 V Mag. Stand.	22	

Type	Lamps		Ballasts		System Watts	Comment
	Number	Designation	Number	Designation Description		
	2	CFQ18W/G24d -2	2	MAG STD 277 227 V Mag. Stand.	44	
	1	CFQ22W/GX3 2d-2	1	MAG STD Mag. Stand.	27	6.0" MOL
Quad (22W, GX32d Two Pin Base)	2	CFQ22W/GX3 2d-2	2	MAG STD Mag. Stand.	54	
Quad (26 W, G24d-3 Two Pin Base - F26DTT Lamp)	1	CFQ26W/G24d -3	1	MAG STD 120 120 V Mag. Stand.	37	7.6" MOL
	2	CFQ26W/G24d -3	2	MAG STD 120 120 V Mag. Stand.	74	
	1	CFQ26W/G24d -3	1	MAG STD 277 227 V Mag. Stand.	33	
	2	CFQ26W/G24d -3	2	MAG STD 277 227 V Mag. Stand.	66	
	1	CFQ26W/G24d -3	1	ELECT 277V 277 V Electronic	27	
	2	CFQ26W/G24d -3	2	ELECT 277V 277 V Electronic	54	
Quad (28W GX32d Two Pin Base)	1	CFQ28W/GX3 2d-3	1	MAG STD Mag. Stand.	34	6.8" MOL
	2	CFQ28W/GX3 2d-3	2	MAG STD Mag. Stand.	68	
Quad (10 W, G24q-1 Four Pin Base)	1	CFQ10W/G24q -1	1	MAG STD 120 120 V Mag. Stand.	16	4.6" MOL
	2	CFQ10W/G24q -1	2	MAG STD 120 120 V Mag. Stand.	32	
	1	CFQ10W/G24q -1	1	MAG STD 277 227 V Mag. Stand.	13	
	2	CFQ10W/G24q -1	2	MAG STD 277 227 V Mag. Stand.	26	
Quad (13 W, G24q-1 Four Pin Base)	1	CFQ13W/G24q -1	1	MAG STD 120 120 V Mag. Stand.	18	6.0" MOL
	2	CFQ13W/G24q -1	2	MAG STD 120 120 V Mag. Stand.	36	
	1	CFQ13W/G24q -1	1	MAG STD 277 227 V Mag. Stand.	16	
	2	CFQ13W/G24q -1	2	MAG STD 277 227 V Mag. Stand.	32	
	1	CFQ13W/G24q -1	1	ELECT Electronic	14	
	2	CFQ13W/G24q -1	2	ELECT Electronic	25	
Quad (13 W, GX7 Four Pin Base)	1	CFQ13W/GX7	1	MAG STD Mag. Stand.	17	4.8" MOL
	2	CFQ13W/GX7	2	MAG STD Mag. Stand.	34	
Quad (18 W, G24q-2 Four Pin Base)	1	CFQ18W/G24q -2	1	MAG STD 120 120 V Mag. Stand.	25	6.8" MOL

Type	Lamps		Ballasts		System Watts	Comment
	Number	Designation	Number	Designation Description		
	2	CFQ18W/G24q -2	2	MAG STD 120 120 V Mag. Stand.	50	
	1	CFQ18W/G24q -2	1	MAG STD 277 227 V Mag. Stand.	22	
	2	CFQ18W/G24q -2	2	MAG STD 277 227 V Mag. Stand.	44	
	1	CFQ18W/G24q -2	1	ELECT Electronic	21	
	2	CFQ18W/G24q -2	2	ELECT Electronic	38	
Triple (13 W, GX24q-1 Four Pin Base)	1	CFM 13W/GX24q-1	1	MAG STD Mag. Stand.	18	4.2" MOL
	2	CFM 13W/GX24q-1	2	MAG STD Mag. Stand.	36	
	1	CFM 13W/GX24q-1	1	ELECT Electronic	14	
	2	CFM 13W/GX24q-1	2	ELECT Electronic	25	
Triple (18W, GX24q-2 Four Pin Base)	1	CFM 18W/GX24q-2	1	MAG STD Mag. Stand.	25	5.0" MOL
	2	CFM 18W/GX24q-2	2	MAG STD Mag. Stand.	50	
	1	CFM 18W/GX24q-2	1	ELECT Electronic	21	
	2	CFM 18W/GX24q-2	2	ELECT Electronic	38	
Triple (26W, GX24q-3 Four Pin Base)	1	CFTR 26W/GX24q-3	1	MAG STD Mag. Stand.	37	4.9 to 5.4" MOL
	2	CFTR 26W/GX24q-3	2	MAG STD Mag. Stand.	74	
	1	CFTR 26W/GX24q-3	1	ELECT Electronic	28	
	2	CFTR 26W/GX24q-3	1	ELECT Electronic	55	
	1	CFTR 26W/GX24q-3	1	ELECT DIM Electronic Dimming	8~29	BF .05~1.0
	2	CFTR 26W/GX24q-3	1	ELECT DIM Electronic Dimming	12~57	BF .05~1.0
Triple (32 W, GX24q-3 Four Pin Base)	1	CFTR32WG X2 4q-3	1	ELECT Electronic	35	
	2	CFTR32WG X2 4q-3	1	ELECT Electronic	69	
	1	CFTR32WG X2 4q-3	1	ELECT DIM Electronic Dimming	9~38	BF .05~1.05
	2	CFTR32WG X2 4q-3	1	ELECT DIM Electronic Dimming	20~76	BF .05~1.05

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
Triple or Quad (42W, GX24q-4 Four Pin Base)	1	CFTR42WGX2 4q-4	1	ELECT	Electronic	46	
	2	CFTR42WGX2 4q-4	1	ELECT	Electronic	94	
	1	CFTR42WGX2 4q-4	1	ELECT DIM	Electronic Dimming	10~49	BF .05~1.05
	2	CFTR42WGX2 4q-4	1	ELECT DIM	Electronic Dimming	20~98	BF .05~1.05
Triple or Quad (57W, GX24q-5 Four Pin Base)	1	CFTR57WGX2 4q-5	1	ELECT	Electronic	62	
	1	CFTR57WGX2 4q-5	1	ELECT DIM	Electronic Dimming	18~66	BF .05~1.05
Triple or Quad (70W, GX24q-6 Four Pin Base)	1	CFTR70WGX2 4q-6	1	ELECT	Electronic	75	
	1	CFTR70WGX2 4q-6	1	ELECT DIM	Electronic Dimming	18~80	BF .05~1.00

RO = ballast factor 70 to 85% NO = ballast factor 85 to 100% HO = ballast factor >100%

Table NB-4 –Long Compact Fluorescent

Type	Lamps		Ballasts		System Watts	Comment	
	Number	Designation	Number	Designation			Description
T5 Twin (18W - F18TT Lamp)	1	FT18W/2G11	1	MAG.	Mag. Energy Efficient	23	BF~1.0
	2	FT18W/2G11	1	MAG.	Mag. Energy Efficient	46	BF~1.0
	3	FT18W/2G11	1	MAG.	Mag. Energy Efficient	69	
	1	FT18W/2G11	1	ELECT	Electronic	24	
	2	FT18W/2G11	1	ELECT	Electronic	35	
	3	FT18W/2G11	1	ELECT	Electronic	52	
T5 Twin (24-27W- F24TT or F27TT Lamp)	1	FT24W/2G11	1	MAG.	Mag. Energy Efficient	32	
	2	FT24W/2G11	1	MAG.	Mag. Energy Efficient	66	
	3	FT24W/2G11	1	MAG.	Mag. Energy Efficient	98	
	1	FT24W/2G11	1	ELECT	Electronic	27	BF~1.0
	2	FT24W/2G11	1	ELECT	Electronic	52	BF~1.0
T5 Twin (36-39W - F36TT or F39TT Lamp)	1	FT36W/2G11	1	MAG.	Mag. Energy Efficient	51	
	2	FT36W/2G11	1	MAG.	Mag. Energy Efficient	66	
	3	FT36W/2G11	2	MAG.	Mag. Energy Efficient	117	
	1	FT36W/2G11	1	ELECT	Electronic	37	
	2	FT36W/2G11	1	ELECT	Electronic	70	
	1	FT36W/2G11	1	ELECTHO	Electronic High Output	46	BF=1.22
	2	FT36W/2G11	1	ELECTHO	Electronic High Output	86	BF=1.20
T5 Twin (40 W - F40TT Lamp)	1	FT40W/2G11	1	MAG.	Mag. Energy Efficient	43	
	2	FT40W/2G11	1	MAG.	Mag. Energy Efficient	86	
	3	FT40W/2G11	2	MAG.	Mag. Energy Efficient	130	
Electronic Ballasts	1	FT40W/2G11	1	ELECT NO	Electronic	41	BF~.90
	2	FT40W/2G11	1	ELECT NO1	Electronic	72	BF~.88
	2	FT40W/2G11	1	ELECT NO2	Electronic	78	BF~.97
	3	FT40W/2G11	1	ELECT NO	Electronic	103	BF~.86
	1	FT40W/2G11	1	ELECT HO	Electronic High Output	50	BF ~ 1.1
	1	FT40W/2G11	1	ELECT DIM1	Electronic Dimming	10-41	BF .05~1.0
	2	FT40W/2G11	1	ELECT DIM1	Electronic Dimming	17-80	BF .05~1.0
	1	FT40W/2G11	1	ELECT DIM2	Electronic Dimming	11-38	BF .05~.88
	2	FT40W/2G11	1	ELECT DIM2	Electronic Dimming	16-76	BF .05~.88
T5 Twin (50 W - F50TT Lamp)	1	FT50W/2G11	1	ELECT NO	Electronic Normal Output	54	BF~.98
	2	FT50W/2G11	1	ELECT NO	Electronic Normal Output	106	BF~.98
	1	FT50W/2G11	1	ELECT HO	Electronic High Output	61	BF~1.12
	2	FT50W/2G11	1	ELECT HO	Electronic High Output	115	BF~1.10
	1	FT50W/2G11	1	ELECT DIM	Electronic Dimming	51	

Type	Lamps		Ballasts		System Watts	Comment	
	Number	Designation	Number	Designation			Description
	2	FT50W/2G11	1	ELECT DIM	Electronic Dimming	92	
T5 Twin (55 W - F55TT Lamp)	1	FT55W/2G11	1	ELECT NO	Electronic Normal Output	58	BF~.92
	2	FT55W/2G11	1	ELECT NO	Electronic Normal Output	109	BF~.90
	1	FT55W/2G11	1	ELECT DIM	Electronic Dimming	13-59	BF .03~.90
	2	FT55W/2G11	1	ELECT DIM	Electronic Dimming	24-114	BF .03~.90
T5 Twin (80 W – F80TT Lamp)	1	FT80W/2G11	1	ELECT NO	Electronic	91	BF~1.00

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Table NB-5 – Fluorescent U-Tubes

Type	Lamps		Ballasts			System Watts	Comment	
	Number	Designation	Number	Designation	Description			
2 ft. Fluorescent U-Tube T8 (32W - FBO31T8 or F32T8/U/6 Lamp)	1	FB31T8/F32T8U	0.5	MAG.	Mag. Energy Efficient	35	Tandem wired	
	1	FB31T8/F32T8U	1	MAG.	Mag. Energy Efficient	36		
	2	FB31T8/F32T8U	1	MAG.	Mag. Energy Efficient	69		
	3	FB31T8/F32T8U	1.5	MAG.	Mag. Energy Efficient	104	Tandem wired	
	3	FB31T8/F32T8U	2	MAG.	Mag. Energy Efficient	105		
	1	FB31T8/F32T8U	1	ELECT NO	Electronic Normal Output	39		
	2	FB31T8/F32T8U	1	ELECT NO	Electronic Normal Output	62		
	3	FB31T8/F32T8U	1	ELECT NO	Electronic Normal Output	92		
	4	FB31T8/F32T8U	1	ELECT NO	Electronic Normal Output			
	1	FB31T8/F32T8U	1	ELECT DIM	Electronic Dimming	9~33	BF .05~.88	
	2	FB31T8/F32T8U	1	ELECT DIM	Electronic Dimming	14~64	BF .05~.88	
	3	FB31T8/F32T8U	1	ELECT DIM	Electronic Dimming	18~93	BF .05~.88	
	4	FB31T8/F32T8U	1	ELECT DIM	Electronic Dimming	25~116	BF .05~.88	
	2 ft. Fluorescent U-Tube T12 ("Energy Saving" 34W)	1	FB40T12/ES	0.5	MAG.	Mag. Energy Efficient	36	Tandem wired
		1	FB40T12/ES	1	MAG.	Mag. Energy Efficient	43	
		2	FB40T12/ES	1	MAG.	Mag. Energy Efficient	72	
3		FB40T12/ES	1	MAG.	Mag. Energy Efficient	105		
3		FB40T12/ES	1.5	MAG.	Mag. Energy Efficient	108	Tandem wired	
3		FB40T12/ES	2	MAG.	Mag. Energy Efficient	115		
1		FB40T12/ES	0.5	ELECT	Electronic	30	Tandem wired	
1		FB40T12/ES	1	ELECT	Electronic	31		
2		FB40T12/ES	1	ELECT	Electronic	59		
3		FB40T12/ES	1	ELECT	Electronic	90		
3		FB40T12/ES	1.5	ELECT	Electronic	88	Tandem wired	
3		FB40T12/ES	2	ELECT	Electronic	90		

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Table NB-6 – Fluorescent Linear Lamps – Preheat

Type	Lamps		Ballasts			System Watts	Comment
	Nmbr	Designation	Nmbr	Designation	Description		
Fluorescent Preheat T5 (8W)	1	F8T5	1	MAG STD	Mag. Stand.	12	12" MOL
Fluorescent Preheat T8 (15W)	1	F15T8	1	MAG STD	Mag. Stand.	19	18" MOL
Fluorescent Preheat T12 (15W)	1	F15T12	1	MAG STD	Mag. Stand.	19	18" MOL
Fluorescent Preheat T12 (20W)	1	F20T12	1	MAG STD	Mag. Stand.	25	24" MOL
	2	F20T12	1	MAG STD	Mag. Stand.	50	24" MOL
Fluorescent Preheat T8 (30W)	1	F30T8	1	MAG STD	Mag. Stand.	46	30" MOL
	2	F30T8	1	MAG STD	Mag. Stand.	79	30" MOL

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Table NB-7 – Fluorescent Linear Lamps T5

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
~23" Fluorescent Program Start T5 (14W)	1	F14T5	1	ELECT	Elect. Program Start BF=1	18	
	2	F14T5	1	ELECT	Elect. Program Start BF=1	34	
~34.5" Fluorescent Program Start T5 (21W)	1	F21T5	1	ELECT	Elect. Program Start BF=1	27	
	2	F21T5	1	ELECT	Elect. Program Start BF=1	50	
~46" Fluorescent Program Start T5 (28W)	1	F28T5	1	ELECT	Elect. Program Start BF=1	30	
	2	F28T5	1	ELECT	Elect. Program Start BF=1	60	
~58.5" Fluorescent Program Start T5 (35W)	1	F35T5	1	ELECT	Elect. Program Start BF=1	40	
	2	F35T5	1	ELECT	Elect. Program Start BF=1	78	
~23" Fluorescent Program Start T5 High Output (24W)	1	F24T5HO	1	ELECT	Elect. Program Start BF=1	27	
	2	F24T5HO	1	ELECT	Elect. Program Start BF=1	52	
~34.5" Fluorescent Program Start T5 High Output(39W)	1	F39T5	1	ELECT	Elect. Program Start BF=1	43	
	2	F39T5	1	ELECT	Elect. Program Start BF=1	85	
~46" Fluorescent Program Start T5 High Output (54W)	1	F54T5	1	ELECT	Elect. Program Start BF=1	62	
	2	F54T5	1	ELECT	Elect. Program Start BF=1	117	

	1	F54T5	1	ELECT DIM	Elect. Dimming	12-63
	2	F54T5	1	ELECT DIM	Elect. Dimming	24-125
~57.5" Fluorescent Program Start T5 High Output (80W)	1	°F80T5	1	ELECT	Elect. Program Start BF=1	89

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Table NB-8 – Fluorescent Rapid Start T-8

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
2 foot Fluorescent Rapid Start T8 (17W)	1	F17T8	1	MAG.	Mag. Energy Efficient	24	
	2	F17T8	1	MAG.	Mag. Energy Efficient	45	
Electronic Ballasts	1	F17T8	1	ELECT NO	Electronic Normal Output	22	
	2	F17T8	1	ELECT NO	Electronic Normal Output	33	
	3	F17T8	1	ELECT NO	Electronic Normal Output	53	
	3	F17T8	2	ELECT NO	Electronic Normal Output	55	
	4	F17T8	1	ELECT NO	Electronic Normal Output	63	
2 foot Fluorescent Rapid Start T8 (17W)	1	F17T8	1	ELECT DIM	Electronic Dimming	8~20	BF .05~.88
	2	F17T8	1	ELECT DIM	Electronic Dimming	10~37	BF .05~.88
	3	F17T8	1	ELECT DIM	Electronic Dimming	12~56	BF .05~.88
	4	F17T8	1	ELECT DIM	Electronic Dimming	18~69	BF .05~.88
3 foot Fluorescent Rapid Start T8 (25W)	1	F25T8	1	MAG.	Mag. Energy Efficient	33	
	2	F25T8	1	MAG.	Mag. Energy Efficient	65	
Electronic Ballasts	1	F25T8	1	ELECT NO	Electronic Normal Output	27	
	2	F25T8	1	ELECT NO	Electronic Normal Output	48	
	3	F25T8	1	ELECT NO	Electronic Normal Output	68	
	4	F25T8	1	ELECT NO	Electronic Normal Output	89	
	1	F25T8	1	ELECT RO	Electronic Reduced Output	24	
	2	F25T8	1	ELECT RO	Electronic Reduced Output	41	
	3	F25T8	1	ELECT RO	Electronic Reduced Output	59	
	4	F25T8	1	ELECT RO	Electronic Reduced Output	76	
	1	F25T8	1	ELECT HO	Electronic High Output	29	BF~1.05
	2	F25T8	1	ELECT HO	Electronic High Output	51	BF~1.05
	3	F25T8	1	ELECT HO	Electronic High Output	74	BF~1.05
	1	F25T8	1	ELECT DIM	Electronic Dimming	8~25	BF .05~.94
	2	F25T8	1	ELECT DIM	Electronic Dimming	13~49	BF .05~.94
	3	F25T8	1	ELECT DIM	Electronic Dimming	16~76	BF .05~.94

Type	Lamps		Ballasts			System Watts	Comment	
	Number	Designation	Number	Designation	Description			
	4	F25T8	1	ELECT DIM	Electronic Dimming	22-96	BF .05-.88	
4 foot Fluorescent Rapid Start T12 for T-8 ballasts ("Energy Saving" 25W)	1	F25T12ES	1	ELECT NO	Electronic Normal Output	27		
	2	F25T12ES	1	ELECT NO	Electronic Normal Output	52		
	3	F25T12ES	1	ELECT NO	Electronic Normal Output	77		
	4	F25T12ES	1	ELECT NO	Electronic Normal Output	95		
4 foot Fluorescent Instant Start T8 ("Energy Saving" 30W)	1	F32T8/30ES	1	ELECT NO	Electronic Normal Output	29		
	2	F32T8/30ES	1	ELECT NO	Electronic Normal Output	54		
	3	F32T8/30ES	1	ELECT NO	Electronic Normal Output	79		
	4	F32T8/30ES	1	ELECT NO	Electronic Normal Output	104		
	1	F32T8/30ES	1	ELECT RO	Electronic Reduced Output	27		
	2	F32T8/30ES	1	ELECT RO	Electronic Reduced Output	48		
	3	F32T8/30ES	1	ELECT RO	Electronic Reduced Output	70		
	4	F32T8/30ES	1	ELECT RO	Electronic Reduced Output	91		
	1	F32T8/30ES	1	ELECT NO EE	EE Normal Output	33		
	2	F32T8/30ES	1	ELECT NO EE	Energy efficiency Normal Output	52		
	3	F32T8/30ES	1	ELECT NO EE	Energy efficiency Normal Output	77		
	4	F32T8/30ES	1	ELECT NO EE	Energy efficiency Normal Output	101		
	1	F32T8/30ES	1	ELECT RO EE	EE Reduced Output	28		
	2	F32T8/30ES	1	ELECT RO EE	EE Reduced Output	45		
	3	F32T8/30ES	1	ELECT RO EE	EE Reduced Output	66		
	4	F32T8/30ES	1	ELECT RO EE	EE Reduced Output	88		
	4 foot Fluorescent Rapid Start T8 (32W)	1	F32T8	0.5	MAG.	Mag. Energy Efficient	35	Tandem wired
		1	F32T8	1	MAG.	Mag. Energy Efficient	39	
		2	F32T8	1	MAG.	Mag. Energy Efficient	70	

Type	Lamps		Ballasts		System Watts	Comment
	Number	Designation	Number	Description		
	3	F32T8	1.5	MAG.	Mag. Energy Efficient	105 Tandem wired
	3	F32T8	2	MAG.	Mag. Energy Efficient	109
	4	F32T8	2	MAG.	Mag. Energy Efficient	140 (2) two-lamp ballasts
4 foot Fluorescent Rapid Start T8 (32W)	1	F32T8	1	ELECT NO	Electronic Normal Output	32
	2	F32T8	1	ELECT NO	Electronic Normal Output	62
	3	F32T8	1	ELECT NO	Electronic Normal Output	93
	4	F32T8	1	ELECT NO	Electronic Normal Output	114
	1	F32T8	1	EE NO	EE Normal Output	35
	2	F32T8	1	EE NO	EE Normal Output	55
	3	F32T8	1	EE NO	EE Normal Output	82
	4	F32T8	1	EE NO	EE Normal Output	107
	1	F32T8	1	ELECT RO	Electronic Reduced Output	29
	2	F32T8	1	ELECT RO	Electronic Reduced Output	51
	3	F32T8	1	ELECT RO	Electronic Reduced Output	76
	4	F32T8	1	ELECT RO	Electronic Reduced Output	98
	2	F32T8	1	ELECT HO	Electronic High Output	77 BF~1.13
	3	F32T8	1	ELECT HO	Electronic High Output	112 BF~1.18
	1	F32T8	1	EE RO	EE Reduced Output	30
	2	F32T8	1	EE RO	EE Reduced Output	48
	3	F32T8	1	EE RO	EE Reduced Output	73
	4	F32T8	1	EE RO	EE Reduced Output	96
	2	F32T8	1	ELECT TL	Electronic Two Level (50 & 100%)	65
	1	F32T8	1	ELECT DIM1	Electronic Dimming	9~35 BF .05~1.0
	2	F32T8	1	ELECT DIM1	Electronic Dimming	15~68 BF .05~1.0
	3	F32T8	1	ELECT DIM1	Electronic Dimming	20~102 BF .05~1.0
	1	F32T8	1	ELECT DIM2	Electronic Dimming	9~33 BF .05~.88
	2	F32T8	1	ELECT DIM2	Electronic Dimming	14~64 BF .05~.88
	3	F32T8	1	ELECT DIM2	Electronic Dimming	18~93 BF .05~.88
	4	F32T8	1	ELECT DIM2	Electronic Dimming	25~116 BF .05~.88
5 foot Fluorescent	1	F40T8	1	MAG.	Mag. Energy Efficient	50

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
Rapid Start T8 (40W)	2	F40T8	1	MAG.	Mag. Energy Efficient	92	
	1	F40T8	1	ELECT	Electronic	46	
	2	F40T8	1	ELECT	Electronic	79	
	3	F40T8	1	ELECT	Electronic	112	
3 foot Fluorescent Rapid Start T12 ("Energy-Saving" 25W)	1	F30T12/ES	1	MAG STD	Mag. Stand.	42	
	2	F30T12/ES	1	MAG STD	Mag. Stand.	74	
	3	F30T12/ES	1.5	MAG STD	Mag. Stand.	111	Tandem wired
	3	F30T12/ES	2	MAG STD	Mag. Stand.	116	
	2	F30T12/ES	1	MAG.	Mag. Energy Efficient	66	
	1	F30T12/ES	1	ELECT	Electronic	26	
	2	F30T12/ES	1	ELECT	Electronic	53	
	1	F30T12	1	MAG STD	Mag. Stand.	46	
3 foot Fluorescent Rapid Start T12 ("Stand." 30W)	2	F30T12	1	MAG STD	Mag. Stand.	79	
	3	F30T12	1.5	MAG STD	Mag. Stand.	118	Tandem wired
	3	F30T12	2	MAG STD	Mag. Stand.	125	
	2	F30T12	1	MAG.	Mag. Energy Efficient	73	
	1	F30T12	1	ELECT	Electronic	30	
	2	F30T12	1	ELECT	Electronic	60	
	1	F40T12/ES Plus	0.5	MAG.	Mag. Energy Efficient	34	Tandem wired
	1	F40T12/ES Plus	1	MAG.	Mag. Energy Efficient	41	
4 foot Fluorescent Rapid Start T12 ("Energy-Saving Plus" 32W)	2	F40T12/ES Plus	1	MAG.	Mag. Energy Efficient	68	
	3	F40T12/ES Plus	1	MAG.	Mag. Energy Efficient	99	
	3	F40T12/ES Plus	1.5	MAG.	Mag. Energy Efficient	102	Tandem wired
	3	F40T12/ES Plus	2	MAG.	Mag. Energy Efficient	109	
	4	F40T12/ES Plus	2	MAG.	Mag. Energy Efficient	136	(2) Two-lamp ballasts
	1	F40T12/ES Plus	0.5	MAG.	Mag. Energy Efficient	34	Tandem wired

RO = ballast factor 70 to 85% NO = ballast factor 85 to 100% HO = ballast factor >100%

Table NB-9 – Fluorescent Rapid Start T-12

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
4 foot Fluorescent Rapid Start T12 ("Energy-Saving"34W)	1	F40T12/ES	0.5	MAG STD**	Mag. Stand.	42	Tandem wired
	1	F40T12/ES	1	MAG STD**	Mag. Stand.	48	
	2	F40T12/ES	1	MAG STD**	Mag. Stand.	82	
	3	F40T12/ES	1.5	MAG STD**	Mag. Stand.	122	Tandem wired
	3	F40T12/ES	2	MAG STD**	Mag. Stand.	130	
	4	F40T12/ES	2	MAG STD**	Mag. Stand.	164	(2) Two-lamp ballasts
	1	F40T12/ES	0.5	MAG.	Mag. Energy Efficient	36	Tandem wired
	1	F40T12/ES	1	MAG.	Mag. Energy Efficient	43	
	2	F40T12/ES	1	MAG.	Mag. Energy Efficient	72	
	3	F40T12/ES	1	MAG.	Mag. Energy Efficient	105	
	3	F40T12/ES	1.5	MAG.	Mag. Energy Efficient	108	Tandem wired
	3	F40T12/ES	2	MAG.	Mag. Energy Efficient	112	
	4	F40T12/ES	2	MAG.	Mag. Energy Efficient	144	(2) Two-lamp ballasts
	2	F40T12/ES	1	MAG HC	Mag. Heater Cutout	58	
	3	F40T12/ES	1.5	MAG HC	Mag. Heater Cutout	87	Tandem wired
	4	F40T12/ES	2	MAG HC	Mag. Heater Cutout	116	(2) Two-lamp ballasts
	2	F40T12/ES	1	MAG HC FO	Mag. Heater Cutout Full Light	66	
	3	F40T12/ES	1.5	MAG HC FO	Mag. Heater Cutout Full Light	99	Tandem wired
	4	F40T12/ES	2	MAG HC FO	Mag. Heater Cutout Full Light	132	(2) Two-lamp ballasts
	1	F40T12/ES	0.5	ELECT	Electronic	30	Tandem wired
	1	F40T12/ES	1	ELECT	Electronic	31	
	2	F40T12/ES	1	ELECT	Electronic	62	
	3	F40T12/ES	1	ELECT	Electronic	90	
	3	F40T12/ES	1.5	ELECT	Electronic	93	Tandem wired
	3	F40T12/ES	2	ELECT	Electronic	93	
	4	F40T12/ES	1	ELECT	Electronic	121	
4	F40T12/ES	2	ELECT	Electronic	124	(2) Two-lamp ballasts	

Type	Lamps		Ballasts		System Watts	Comment	
	Number	Designation	Number	Designation Description			
	2	F40T12/ES	1	ELECT AO	Elec. Adjustable Output (to 15%)	60	
	3	F40T12/ES	1.5	ELECT AO	Elec. Adjustable Output (to 15%)	90	Tandem wired
	4	F40T12/ES	2	ELECT AO	Elec. Adjustable Output (to 15%)	120	(2) Two-lamp ballasts
4 foot Fluorescent Rapid Start Stand. (40W)	1	F40T12	0.5	MAG.	Mag. Energy Efficient	44	Tandem wired
	1	F40T12	1	MAG.	Mag. Energy Efficient	46	
	2	F40T12	1	MAG.	Mag. Energy Efficient	88	
	3	F40T12	1	MAG.	Mag. Energy Efficient	127	
	3	F40T12	1.5	MAG.	Mag. Energy Efficient	132	Tandem wired
	3	F40T12	2	MAG.	Mag. Energy Efficient	134	
	4	F40T12	2	MAG.	Mag. Energy Efficient	176	(2) Two-lamp ballasts
	2	F40T12	1	MAG HC	Mag. Heater Cutout	71	
	3	F40T12	1.5	MAG HC	Mag. Heater Cutout	107	Tandem wired
	4	F40T12	2	MAG HC	Mag. Heater Cutout	142	(2) Two-lamp ballasts
4 foot Fluorescent Rapid Start Stand. (40W) cont.	2	°F40T12	1	MAG °F FO	Mag. Heater Cutout Full Light	80	
	3	°F40T12	1.5	MAG °F FO	Mag. Heater Cutout Full Light	120	Tandem wired
	4	°F40T12	2	MAG °F FO	Mag. Heater Cutout Full Light	160	(2) Two-lamp ballasts
	1	°F40T12	0.5	ELECT	Electronic	36	Tandem wired
	1	°F40T12	1	ELECT	Electronic	37	
	2	°F40T12	1	ELECT	Electronic	72	
	3	°F40T12	1	ELECT	Electronic	107	
	3	°F40T12	1.5	ELECT	Electronic	108	Tandem wired
	3	°F40T12	2	ELECT	Electronic	109	
	4	°F40T12	1	ELECT	Electronic	135	
	4	°F40T12	2	ELECT	Electronic	144	(2) Two-lamp ballasts
	2	°F40T12	1	ELECT RO	Electronic Reduce Output (75%)	61	
	3	°F40T12	1	ELECT RO	Electronic Reduce Output (75%)	90	

Type	Lamps		Ballasts		System Watts	Comment
	Number	Designation	Number	Designation		
	3	°F40T12	1.5	ELECT RO	Electronic Reduce Output (75%)	92 Tandem wired
	4	°F40T12	2	ELECT RO	Electronic Reduce Output (75%)	122 (2) Two-lamp ballasts
	2	°F40T12	1	ELECT TL	Elec. Two Level (50 & 100%)	69
	3	°F40T12	1.5	ELECT TL	Elec. Two Level (50 & 100%)	104 Tandem wired
	4	°F40T12	2	ELECT TL	Elec. Two Level (50 & 100%)	138 (2) Two-lamp ballasts
	2	°F40T12	1	ELECT AO	Elec. Adjustable Output (to 15%)	73
	3	°F40T12	1.5	ELECT AO	Elec. Adjustable Output (to 15%)	110 Tandem wired
	4	°F40T12	2	ELECT AO	Elec. Adjustable Output (to 15%)	146 (2) Two-lamp ballasts
	2	°F40T12	1	ELECT DIM	Electronic Dimming (to 1%)	83
	3	°F40T12	1.5	ELECT DIM	Electronic Dimming (to 1%)	125 Tandem wired
	4	°F40T12	2	ELECT DIM	Electronic Dimming (to 1%)	166 (2) Two-lamp ballasts

RO = ballast factor 70 to 85% NO = ballast factor 85 to 100% HO = ballast factor >100%

Table NB-10 – Fluorescent Rapid Start High Output (HO) T8 & T12, 8 ft

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
8 foot Fluorescent Rapid Start T8 High Output (86W)	1	F96T8/HO	1	ELECT	Electronic	88	
	2	F96T8/HO	1	ELECT	Electronic	160	
8 foot Fluorescent Rapid Start T12 High Output ("Energy- Saving" 95W)	1	F96T12/HO/ES	1	MAG STD	Mag. Stand.	125	
	2	F96T12/HO/ES	1	MAG STD**	Mag. Stand.	227	
	2	F96T12/HO/ES	1	MAG.	Mag. Energy Efficient	208	
	2	F96T12/HO/ES	1	ELECT	Electronic	170	
8 foot Fluorescent Rapid Start T12 High Output ("Stand." 110W)	1	F96T12/HO	1	MAG STD	Mag. Stand.	140	
	2	F96T12/HO	1	MAG STD**	Mag. Stand.	252	
	2	F96T12/HO	1	MAG.	Mag. Energy Efficient	237	
	1	F96T12/HO	1	ELECT	Electronic	119	
	2	F96T12/HO	1	ELECT	Electronic	205	
8 foot Fluorescent Rapid Start T12 Very High Output ("Energy- Saving" 195W)	1	F96T12/VHO/ES	1	MAG STD	Mag. Stand.	200	
	2	F96T12/VHO/ES	1	MAG STD	Mag. Stand.	325	
8 foot Fluorescent Rapid Start T12 Very High Output ("Stand." 215W)	1	Stand.96T12/VHO	1	MAG STAND.	Mag. Stand.	230	
	2	Stand.96T12/VHO	1	MAG STAND.	Mag. Stand.	440	

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Table NB-11 – Fluorescent Instant Start (single pin base "Slimline") T12, 4 ft

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
4 foot Fluorescent Slimline Energy-Saving T12 (32W)	1	Stand.48T12/ES	1	MAG STAND.	Mag. Stand.	51	
	2	Stand.48T12/ES	1	MAG STAND.	Mag. Stand.	82	
4 foot Fluorescent Slimline Stand. Stand. (39W)	1	Stand.48T12	1	MAG Stand.	Mag. Stand.	59	
	2	Stand.48T12	1	MAG Stand.	Mag. Stand.	98	

RO = ballast factor 70 to 85% NO = ballast factor 85 to 100% HO = ballast factor >100%

Table NB-12 – Fluorescent Instant Start (single pin base "Slimline") T8 & T12, 8 ft.

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
8 foot Fluorescent T8 Slimline (59W)	1	F96T8	1	MAG.	Mag. Stand.	58	
	2	F96T8	1	MAG.	Mag. Stand.	120	
	2	F96T8	1	ELECT NO	Electronic Normal Output	110	
	1	F96T8	1	ELECT HO	Electronic High Output	72	BF~1.10
	2	F96T8	1	ELECT HO1	Electronic High Output	140	BF~1.10
	2	F96T8	1	ELECT HO2	Electronic High Output	151	BF~1.20
8 foot Fluorescent T12 Slimline ("Energy- Saving" 60W)	1	F96T12/ES	1	MAG STD	Mag. Stand.	74	
	2	F96T12/ES	1	MAG STD**	Mag. Stand.	131	
	2	F96T12/ES	1	MAG.	Mag. Energy Efficient	112	
	1	F96T12/ES	1	ELECT	Electronic	70	
	2	F96T12/ES	1	ELECT	Electronic	107	
8 foot Fluorescent T12 Slimline ("Stand." 75W)	1	F96T12	1	MAG STD	Mag. Stand.	92	
	2	F96T12	1	MAG STD**	Mag. Stand.	158	
	2	F96T12	1	MAG.	Mag. Energy Efficient	144	
	1	F96T12	1	ELECT	Electronic	85	
	2	F96T12	1	ELECT	Electronic	132	

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Table NB-13 – High Intensity Discharge

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
Mercury Vapor	1	H40	1	MAG STD	Mag. Stand.	51	
	1	H50	1	MAG STD	Mag. Stand.	63	
	1	H75	1	MAG STD	Mag. Stand.	88	
	1	H100	1	MAG STD	Mag. Stand.	119	
	1	H175	1	MAG STD	Mag. Stand.	197	
	1	H250	1	MAG STD	Mag. Stand.	285	
	1	H400	1	MAG STD	Mag. Stand.	450	
	1	H1000	1	MAG STD	Mag. Stand.	1080	
Metal Halide	1	M35/39	1	MAG STD	Mag. Stand.	48	
	1	M35/39	1	ELECT	Electronic	44	
	1	M50	1	MAG STD	Mag. Stand.	68	
	1	M50	1	ELECT	Electronic	58	
	1	M70	1	MAG STD	Mag. Stand.	92	
	1	M70	1	ELECT	Electronic	86	
	1	M100	1	MAG STD	Mag. Stand.	122	
	1	M100	1	ELECT	Electronic	110	
	1	M125	1	MAG STD	Mag. Stand.	150	
	1	M150	1	MAG STD	Mag. Stand.	186	
	1	M150	1	ELECT	Electronic	168	
	1	M175	1	MAG STD	Mag. Stand.	205	
	1	M200	1	MAG STD	Mag. Stand.	232	
	1	M225	1	MAG STD	Mag. Stand.	258	
	1	M250	1	MAG STD	Mag. Stand.	295	
	1	M320	1	MAG STD	Mag. Stand.	365	
	1	M320	1	MAG LR	277v Linear Reactor	345	
	1	M360	1	MAG STD	Mag. Stand.	422	
	1	M360	1	MAG LR	277v Linear Reactor	388	
	1	M400	1	MAG STD	Mag. Stand.	461	
	1	M400	1	MAG LR	277v Linear Reactor	426	
	1	M450	1	MAG STD	Mag. Stand.	502	
	1	M450	1	MAG LR	277v Linear Reactor	478	
1	M750	1	MAG STD	Mag. Stand.	820		
1	M900	1	MAG STD	Mag. Stand.	990		
1	M1000	1	MAG STD	Mag. Stand.	1080		
1	M1500	1	MAG STD	Mag. Stand.	1650		
1	M1650	1	MAG STD	Mag. Stand.	1810		

Type	Lamps		Ballasts			System Watts	Comment
	Number	Designation	Number	Designation	Description		
High Pressure Sodium	1	S35	1	MAG STD	Mag. Stand.	44	
	1	S50	1	MAG STD	Mag. Stand.	61	
	1	S70	1	MAG STD	Mag. Stand.	93	
	1	S100	1	MAG STD	Mag. Stand.	116	
	1	S150	1	MAG STD	Mag. Stand.	173	
	1	S200	1	MAG STD	Mag. Stand.	240	
	1	S250	1	MAG STD	Mag. Stand.	302	
High Pressure Sodium <i>cont.</i>	1	S400	1	MAG STD	Mag. Stand.	469	
	1	S1000	1	MAG STD	Mag. Stand.	1090	
Low Pressure Sodium	1	LPS18	1	MAG STAND.	Mag. Stand.	30	
	1	LPS35	1	MAG STAND.	Mag. Stand.	60	
	1	LPS55	1	MAG STAND.	Mag. Stand.	80	
	1	LPS90	1	MAG STAND.	Mag. Stand.	125	
	1	LPS135	1	MAG STAND.	Mag. Stand.	178	
	1	LPS180	1	MAG STAND.	Mag. Stand.	220	

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Table NB-14 – 12 Volt Tungsten Halogen Lamps Including MR16, Bi-pin, AR70, AR111, PAR36

Type	Lamps		Ballasts		System Watts	Comment
	Number	Designation	Number	Description		
	1	20 watt lamp	1	ELECT	Electronic Power Supply	23
	1	25 watt lamp	1	ELECT	Electronic Power Supply	28
	1	35 watt lamp	1	ELECT	Electronic Power Supply	38
	1	37 watt lamp	1	ELECT	Electronic Power Supply	41
	1	42 watt lamp	1	ELECT	Electronic Power Supply	45
	1	50 watt lamp	1	ELECT	Electronic Power Supply	54
	1	65 watt lamp	1	ELECT	Electronic Power Supply	69
	1	71 watt lamp	1	ELECT	Electronic Power Supply	75
	1	75 watt lamp	1	ELECT	Electronic Power Supply	80
	1	100 watt lamp	1	ELECT	Electronic Power Supply	106
	1	20 watt lamp	1	MAG	Mag. Transformer	24
	1	25 watt lamp	1	MAG	Mag. Transformer	29
	1	35 watt lamp	1	MAG	Mag. Transformer	39
	1	37 watt lamp	1	MAG	Mag. Transformer	42
	1	42 watt lamp	1	MAG	Mag. Transformer	46
	1	50 watt lamp	1	MAG	Mag. Transformer	55
	1	65 watt lamp	1	MAG	Mag. Transformer	70
	1	71 watt lamp	1	MAG	Mag. Transformer	76
	1	75 watt lamp	1	MAG	Mag. Transformer	81
	1	100 watt lamp	1	MAG	Mag. Transformer	108