



CLEANPAK Lighting Calculations

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Numbers in table are footcandles

CLEANPAK Description		CEILING HEIGHT ==>		Numbers in table are footcandles								
		Room W	Room L	2' On Center Lights			4' On Center Lights			6' On Center Lights		
				8'	10'	12'	8'	10'	12'	8'	10'	12'
				AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG	AVG
Clean-Trak 2.6 T8 clear	Clean-Trak 2.6 with T8 normal output, two F25T8 (3') lamps, 0.87 ballast factor, with reflector, with clear lens. CLEANPAK IES #47225 2.6 T8-WR-WCL	8'	24'	102	84	70	55	45	38			
		16'	24'	119	105	94	64	57	50			
		48'	48'	146	137	130	76	71	68			
	Clean-Trak 2.6 with T8 normal output, two F25T8 (3') lamps, 0.87 ballast factor, without reflector, with clear lens. CLEANPAK IES #47226 2.6 T8-WOR-WCL	8'	24'	84	68	57	45	37	31			
		16'	24'	99	86	77	53	46	41			
		48'	48'	120	113	107	62	58	56			
Clean-Trak 2.6 T8 amber	Clean-Trak 2.6 with T8 normal output, two F25T8 (3') lamps, 0.87 ballast factor, with reflector, with amber lens. CLEANPAK IES #47227 2.6 T8-WR-WAL	8'	24'	61	50	42	33	27	23			
		16'	24'	71	63	56	38	34	30			
		48'	48'	86	81	77	45	42	40			
	Clean-Trak 2.6 with T8, two F25T8 (3') lamps, HO 1.0 ballast factor, with reflector, with amber lens. CLEANPAK IES #47227 2.6 HO T8-WR-WAL	8'	24'	69	57	48	37	31	26			
		16'	24'	81	71	64	43	38	34			
		48'	48'	98	92	88	51	48	46			
Clean-Trak 2.6 T5 clear	Clean-Trak 2.6 with T5 high output, two F39T5 lamps, 1.0 ballast factor, with reflector, with clear lens. CLEANPAK IES #51539 2.6 39T5HO-WR-WCL	8'	24'	169	143	120	92	77	64	61	44	37
		16'	24'	199	180	160	108	97	86	64	65	51
		48'	48'	243	229	220	126	119	114	76	72	68
Clean-Trak 2.6 T5 amber	Clean-Trak 2.6 with T5 high output, two F39T5 lamps, 1.0 ballast factor, with reflector, with amber lens. CLEANPAK IES #59540 2.6 39T5HO-WR-WAL	8'	24'	88	73	61	47	39	33	32	27	22
		16'	24'	105	94	84	56	51	45	38	34	30
		48'	48'	128	122	117	67	63	60	45	42	40
SealTrak 2.0	SealTrak 2.0 with standard T8, two F32T8 (4') lamps, 0.87 ballast factor, with reflector, with clear lens. CLEANPAK IES #49303 ST T8-WR-WCL	8'	24'	110	106	104	71	69	68			
		16'	24'	158	153	151	85	83	81			
		48'	48'	173	169	166	93	87	86			
	SealTrak 2.0 with Gold T8, two F32T8 (4') Gold lamps, 0.87 ballast factor, with reflector, with clear lens. CLEANPAK IES #49447 ST T8-GEGO-WR-WCL	8'	24'	62	52	44	41	34	29			
		16'	24'	85	75	67	47	42	37			
		48'	48'	107	101	97	56	52	50			

Preferred choices. For the least cost, try to use the 4' and 6' on center lights column first. If you cannot find something that works here, then go to the 2' on center columns.

Do not use, except for very high light level requirements--higher cost.

Do not use, except for low light level applications.

Reflectances: Ceiling 0.8 (white powder coated perforated screens); Walls 0.6 (white cleanroom walls); Floor 0.3 (gray grates).
0.91 Depreciation factor. Light levels measured at work plane 30" above floor. No allowances have been made for effects of tools, furniture, or windows which could either result in higher or lower light levels. Other factors that were not assumed for these calculations, but which may affect illumination values include: temperature, luminaire dirt and luminaire or wall surface depreciation (negligible in cleanrooms), and line voltage characteristics.