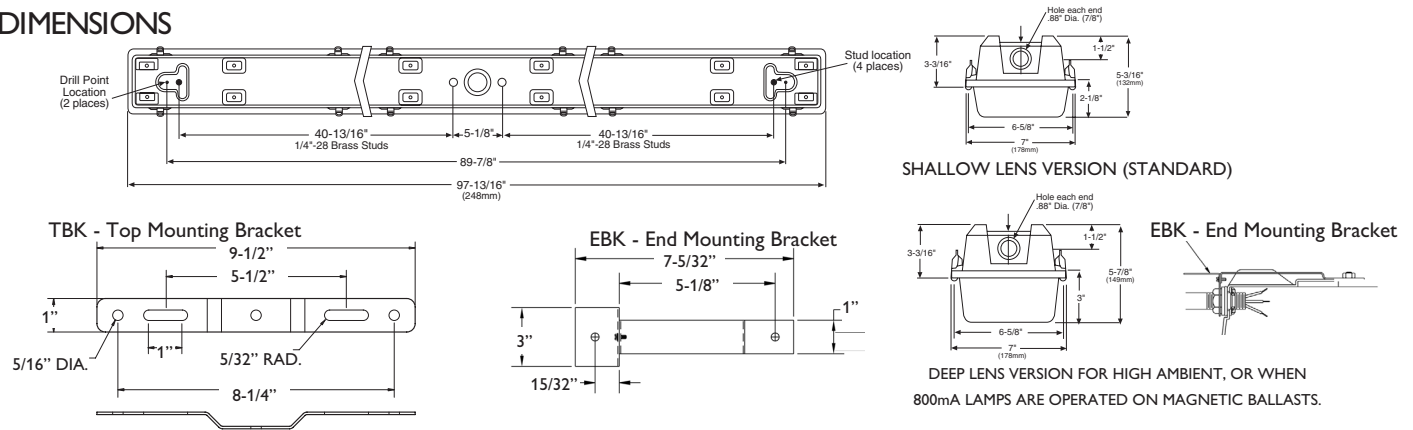


DIMENSIONS



PHOTOMETRIC DATA CATALOG # DWAE259-120-1/2-EB LAMPS = F96T8 INPUT WATTS = 102 LER = F-74
 TEST #LSC7929 S/MH=1.5 BALLAST = ELECTRONIC BALLAST FACTOR = .85 TER = 43
 COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.24 BASED ON 3000 HRS. AND \$.08 PER KWH. FIXTURE EFFICIENCY= 76.6%

CANDLEPOWER				
Angle	End	45	Cross	
0	2033	2033	2033	
5	2054	2045	2017	
15	1977	2055	2075	
25	1839	1992	2077	
35	1629	1895	2033	
45	1362	1715	1911	
55	995	1465	1674	
65	624	1176	1495	
75	337	962	1270	
85	114	630	862	
95	54	406	620	
105	30	231	402	
115	24	114	171	
125	19	52	40	
135	18	32	22	
145	7	18	3	
155	11	25	0	
165	26	8	2	
175	25	20	4	

MAINTAINED ILLUMINATION TABLE- Square Feet/ Fixture*						
■ 80-50-20 Reflectances (Ceiling-Wall-Floor) ■ LLF = 0.74 5800 Lumens/Lamp very clean ■ Room width divided by room height = 5 or more, 2 or 1						
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
2-Lamp 59w	5	-	-	126	90	63
	2	-	137	82	59	41
	1	-	98	59	42	-

COEFFICIENT OF UTILIZATION										
pfc	20			70			50			
	70	50	30	70	50	30	70	50	30	
RCR	0	89	89	89	86	86	86	81	81	81
	1	79	75	70	76	71	68	68	65	65
	2	70	64	57	68	61	56	57	53	53
	3	64	55	47	61	54	46	50	45	45
	4	58	48	40	56	46	40	44	38	38
	5	54	42	35	52	41	34	39	33	33
	6	48	39	30	46	36	30	34	28	28
	7	46	34	28	44	34	27	32	26	26
	8	41	32	25	40	30	23	28	23	23
	9	40	28	22	38	28	22	27	20	20
	10	36	27	20	35	26	20	25	19	19

AVERAGE LUMINANCE CD/SQ.M WITH 5800 LUMEN LAMPS				
ANGLE	END	45°	CROSS	
45	5585	5601	5807	
55	4986	5390	5612	
65	4182	5133	5785	
75	3574	5361	6028	
85	3122	5067	5506	

TYPICAL V.C.P.'s					
Room Size	Mounting Height		Crosswise		
	8.5	10	8.5	10	
30x30	34	40	26	31	
40x40	31	35	24	27	
60x30	35	39	30	35	
60x60	29	31	21	24	
100x100	28	29	21	22	

LIGHT DISTRIBUTION				
DEGREES	LUMENS	% LAMP	% FIXTURE	
0-30	1684	14.5	19.0	
0-40	2854	24.6	32.1	
0-60	5402	46.6	60.8	
0-90	8066	69.5	90.8	
90-180	815	7.0	9.2	
0-180	8881	76.6	100.0	

LLF = .74 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
 LLD = 0.88 @ 40% RATED LAMP LIFE BF = 0.85 ELECTRONIC BALLAST & 59wT8 LAMP (RELAMP AT 70% LAMP LIFE)

PHOTOMETRIC DATA CATALOG # DWAE286HO-120-1/2-EB LAMPS = F86T8HO INPUT WATTS = 145 LER = F-70
 TEST #LSC7930 S/MH=1.5 BALLAST = ELECTRONIC BALLAST FACTOR = .88 TER = 40
 COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.43 BASED ON 3000 HRS. AND \$.08 PER KWH. FIXTURE EFFICIENCY= 72.6%

CANDLEPOWER				
Angle	End	45	Cross	
0	2671	2671	2671	
5	2683	2681	2660	
15	2606	2682	2705	
25	2420	2633	2724	
35	2130	2484	2627	
45	1742	2230	2408	
55	1276	1876	2123	
65	797	1537	1907	
75	414	1246	1607	
85	132	836	1113	
95	73	562	806	
105	60	338	542	
115	44	154	275	
125	28	84	78	
135	36	20	36	
145	28	29	7	
155	33	9	1	
165	38	31	3	
175	30	15	8	

MAINTAINED ILLUMINATION TABLE- Square Feet/ Fixture*						
■ 80-50-20 Reflectances (Ceiling-Wall-Floor) ■ LLF = 0.74 8000 Lumens/Lamp Clean ■ Room width divided by room height = 5 or more, 2 or 1						
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
2-Lamp 86w	5	-	-	-	120	84
	2	-	-	110	78	55
	1	-	131	79	56	39

COEFFICIENT OF UTILIZATION										
pfc	20			70			50			
	70	50	30	70	50	30	70	50	30	
RCR	0	84	84	84	81	81	81	77	77	77
	1	75	70	67	71	68	65	64	60	60
	2	68	60	55	65	58	53	55	50	50
	3	60	53	46	58	51	45	46	41	41
	4	56	46	39	53	45	38	41	35	35
	5	51	40	34	48	40	33	36	32	32
	6	46	36	29	45	35	28	33	28	28
	7	42	33	26	41	32	26	29	25	25
	8	40	29	23	39	28	23	28	22	22
	9	38	27	20	35	27	20	25	20	20
	10	34	25	19	34	25	19	23	17	17

AVERAGE LUMINANCE CD/SQ.M WITH 8000 LUMEN LAMPS				
ANGLE	END	45°	CROSS	
45	7143	7282	7317	
55	6394	6903	7117	
65	5342	6709	7380	
75	4391	6944	7627	
85	3614	6724	7109	

TYPICAL V.C.P.'s					
Room Size	Mounting Height		Crosswise		
	8.5	10	8.5	10	
30x30	28	33	22	26	
40x40	25	28	19	22	
60x30	29	32	25	29	
60x60	24	25	17	19	
100x100	23	23	17	18	

LIGHT DISTRIBUTION				
DEGREES	LUMENS	% LAMP	% FIXTURE	
0-30	2208	13.8	19.0	
0-40	3732	23.3	32.1	
0-60	7009	43.8	60.3	
0-90	10465	65.4	90.1	
90-180	1153	7.2	9.9	
0-180	11618	72.6	100.0	

LLF = .74 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
 LLD = 0.88 @ 40% RATED LAMP LIFE BF = 0.88 ELECTRONIC BALLAST & 86w T8HO LAMP (RELAMP AT 70% LAMP LIFE)



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