

FEATURES

- Slim design, less than 5" high and only 4" deep
- Meets ADA requirements
- Smooth white acrylic diffuser for soft even illumination
- White injection molded decorative plastic ends hold diffuser in place. Easily removable for lamp access
- Heavy gauge steel die formed housing with heat sink embossments behind ballast for cooler operation and longer life
- A grounded convenience outlet and an on/off push switch are standard equipment (120 volt fixtures only). An optional pull chain switch is available

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

BALLASTS

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, magnetic or electronic ballasts. CEE NEMA Premium compliant.

ELECTRICAL

Standard class "P", thermally protected, autoresetting HPF ballast, sound rated A. CEE NEMA Premium compliant. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

FINISH

All parts pre-painted with high gloss baked white enamel, minimum reflectance 86%, applied over iron phosphate pre-treatment for maximum adhesion and rust resistance.

SHIELDING

100% opal acrylic extrusion.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924.

ORDERING INFORMATION

EXAMPLE W4-232-EU

W		-		-		-		-		
MODEL	SIZE	NO. OF LAMPS	LAMP TYPE	BALLAST	VOLTAGE	OPTIONS				
W Slim Wall Mount Light	2 2'	1 One	14 2', T5: 14 Watt	E Electronic T8, Instant Start	U 120V-277V	GLR Fast Blow Fuse				
	3 3'	2 Two	17 2' T8: 17 Watt			EL Emergency Battery Pack, T8 4 ft Only				
	4 4'		24 2', T5HO: 24 Watt	EP Electronic T5 or T5HO, Programmed Start For others available, see Ballast Options.	120 120V	EL5 Emergency Battery Pack, T5 or T5HO 4 ft Only				
		21 3', T5: 21 Watt	347 347V		PSW Pull Chain Switch (120V only)					
		25 3', T8: 25 Watt	39 3', T5HO: 39 Watt							
		39 3', T5HO: 39 Watt	28 4', T5: 28 Watt							
		28 4', T5: 28 Watt	32 4' T8: 32, 30, 28 or 25 Watt							
		32 4' T8: 32, 30, 28 or 25 Watt	54 4', T5HO: 54 Watt							
		54 4', T5HO: 54 Watt								
						LSW Less Switch (120V only) LCO Less Grounded Convenience Outlet (120V only) PAF Paint After Fabrication S18 18" Stem w/Canopy SS18 18" 45 Swivel Stem w/Canopy For a complete list of options, see options and accessories section.				

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	W4-240-LE W Surface Mounted 48" x 4 7/8" 2-L Wall Mount Wrap w/Opal Acrylic Lens
Ballast	446-L-SLH-TC-P
Ballast Factor	0.95
Lamp	F40/CW
Lumens per Lamp	3150
Watts	84
Shielding Angle	N/A
Spacing Criterion	0° = N/A 90° = N/A
Luminous Opening in Feet	Length: 4.00 Width: 0.41 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

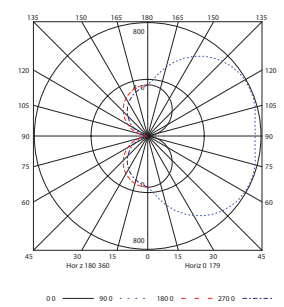
	0.0	45.0	90.0	135.0	180.0
Average Luminance Angle	0	2369	2369	2369	2369
	30	2327	4085	4919	4085
	40	2296	4952	6160	4952
	45	2265	5495	6924	5495
	50	2236	6106	7832	6106
	55	2197	6877	8960	6877
	60	2140	7824	10396	7824
	65	2050	9194	12331	9194
	70	1938	11092	15199	11092
	75	1775	14252	19907	14252
	80	1550	20373	29066	20373
	85	1130	39236	57235	39236

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50				0
RW	70	50	30	10	70	50	30	10	50	30	10	0	
1	60	57	53	51	55	52	49	47	44	41	40	23	
2	54	48	44	40	49	44	40	37	37	34	31	18	
3	49	42	37	32	45	39	34	30	32	28	25	14	
4	44	37	31	27	40	34	29	25	28	24	21	12	
5	41	32	27	22	37	30	25	21	25	21	18	10	
6	37	29	23	19	34	27	22	18	22	18	15	8	
7	34	26	20	17	31	24	19	15	20	16	13	7	
8	32	23	18	14	29	22	17	13	18	14	12	6	
9	29	21	16	13	27	20	15	12	17	12	10	5	
10	27	19	15	11	25	18	14	11	15	12	9	5	

Test 8957 Test Date 1/8/03

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	325	5.2	8.1
0-40	570	9.0	14.2
0-60	1171	18.6	29.3
0-90	2001	31.8	50.0
90-120	830	13.2	20.7
90-130	1141	18.1	28.5
90-150	1675	26.6	41.9
90-180	2001	31.8	50.0
0-180	4001	63.5	100.0

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	63.5%
Luminaire Efficacy Rating (LER)	45
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$5.33 based on 3000 hrs. and \$0.08 per KWH

LUMINAIRE DATA

Luminaire	W4-140-LE W Surface Mounted 48" x 4 7/8" 1-L Wall Mount with Opal Acrylic Lens
Ballast	446-L-SLH-TC-P
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	45
Shielding Angle	N/A
Spacing Criterion	0° = N/A 90° = N/A
Luminous Opening in Feet	Length: 4.00 Width: 0.41 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

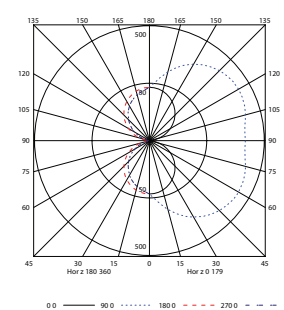
	0.0	45.0	90.0	135.0	180.0
Average Luminance Angle	0	1523	1523	1523	1523
	30	1493	2463	2910	2463
	40	1474	2922	3581	2922
	45	1457	3212	4001	3212
	50	1440	3543	4483	3543
	55	1407	3948	5104	3948
	60	1378	4476	5881	4476
	65	1320	5187	6927	5187
	70	1267	6218	8463	6218
	75	1141	7887	10981	7887
	80	1021	11264	15951	11264
	85	904	21463	31404	21463

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50				0
RW	70	50	30	10	70	50	30	10	50	30	10	0	
1	72	68	64	60	66	62	59	56	52	50	47	28	
2	64	58	52	48	59	53	48	44	44	41	38	21	
3	58	50	44	39	53	46	40	36	38	34	31	17	
4	53	44	37	32	48	40	34	30	34	29	25	14	
5	48	39	32	27	44	36	30	25	30	25	22	12	
6	44	35	28	23	41	32	26	22	27	22	18	10	
7	41	31	25	20	37	29	23	19	24	19	16	9	
8	38	28	22	17	35	26	20	16	22	17	14	8	
9	35	25	19	15	32	24	18	14	20	16	12	7	
10	33	23	17	14	30	22	16	13	18	14	11	6	

Test 8958 Test Date 1/8/03

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	204	6.5	8.6
0-40	355	11.3	14.9
0-60	715	22.7	30.1
0-90	1188	37.7	50.0
90-120	472	15.0	19.9
90-130	658	20.9	27.7
90-150	983	31.2	41.4
90-180	1188	37.7	50.0
0-180	2375	75.4	100.0

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	75.4%
Luminaire Efficacy Rating (LER)	50
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$4.80 based on 3000 hrs. and \$0.08 per KWH

DIMENSIONAL DATA

