

APL Two and Four Lamp Fluorescent Factory Sealed Luminaires

Explosionproof, Dust-Ignitionproof

120-277 V, 120 V , 277 V , 347 V , 50/60 Hz. For use with Threaded Metal Conduit. Suitable for Wet Locations and Paint Spray Booths.

Class I, Division 1 and 2, Groups C,D

Class II, Division 1 and 2, Groups E,F,G

Class III

Marine Type Electric Fixture Inside Drip-Proof Type

Applications

- Classified areas where ignitable gases and vapors, dusts, paint residue, paint powder, or corrosive atmospheres may be present, or where excessive moisture is a problem.
- Approved for mounting directly inside a paint spray booth. Complies with NEC 516-3(b) and NFPA No. 33.
- Typical applications include refineries, chemical and petrochemical plants, textile mills, grain elevators and other grain-processing facilities, pharmaceutical plants, and paint spray areas.

Features

- Factory sealed fixture. No external seals needed for classified areas.
- Two lamp:
 - Compact size
 - Uses two single-ended biaxial 40 W fluorescent lamps in a fixture only 29"/736.6 mm long
 - Available for 120-277 V, 50/60 Hz
 - Available for 120 V, 277 V, 347 V, 50/60 Hz 
- Four lamp:
 - Uses four single-ended biaxial 40 W fluorescent lamps mounted tandem in a 52-1/2"/1333.5 mm long fixture
 - Available for 120-277 V, 50/60 Hz
 - Available for 120 V, 277 V, 347 V, 50/60 Hz 
- Easy to install. Has three 3/4"/19.1 mm conduit hubs on each end of fixture. Two close-up plugs per end are furnished. Mounts straight down, or at 45° angle to either side. Can be mounted horizontally, or mounted vertically on wall. Gasketed end caps remove easily for wiring or relamping.
- Explosionproof, heat-resistant and impact-resistant glass tubes protect lamps.
- Cool-operating fluorescent lamps provide excellent color rendition and high lumen output per watt. Average lamp life is 20,000 hours. Lamps are furnished.
- Corrosion resistant.
- Reflector (optional) is designed for efficient distribution. Installs and removes using only a screwdriver.
- Appleton APL fixtures are supplied with energy-saving Class P ballasts, equipped with an automatic thermally activated protective device.

Standard Materials

- End housing: copperfree (4/10 of 1% max.) aluminum
- Housing hood and optional reflectors: heavy gauge aluminum
- Wire guard: stainless steel

Standard Finishes

- End housings and hood: two-coat baked gray epoxy finish
- Reflector: white baked powder coat polyester reflecting surface

Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10794
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428



Two Lamp APL



Two Lamp APL with Optional Reflector



Four Lamp APL



Four Lamp APL with Optional Reflector

Illustrated Feature



APL Fixture shown with explosionproof, gasketed end caps removed, allowing access for wiring and relamping.

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Marine Type Electric Fixture Inside Drip-Proof Type

	Lamps (Included)	Volts	Hub Size (Inches)	Temperature Rating	Supply Wire °F/°C	Catalog Number
Luminaires Without Reflector						
	Two Lamp					
	(2) 40 W F40BX	120-277	3/4	T-6	140/60	APL240BU
	(2) 40 W F40BX	3477	3/4	T-6	140/60	APL240-347 
	Four Lamp					
	(4) 40 W F40BX	120-277	3/4	T6	140/60	APL440BU
	(4) 40W F40BX	347	3/4	T-6	60°C	APL440-347 
Aluminum reflector with white powder coat polyester finish						
	Two Lamp					APL2R
	Four Lamp					APL4R
Wire Guard						
	Two Lamp					APL-2-GU-SS
	Four Lamp					ARS-GU-SS
Exit Sign — 6" red lettering on white enamel field						
	Two Lamp Only					APLEXR

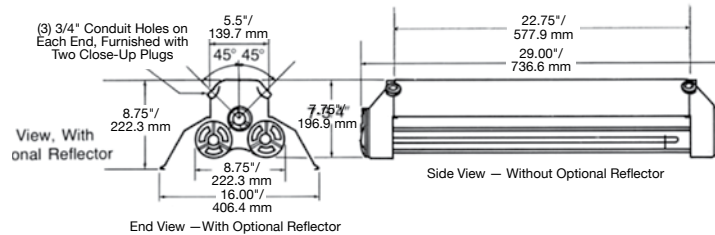
 CSA Certification only.

APL Two Lamp Factory Sealed Luminaire Dimensions and Photometric Data

Explosionproof, Dust-Ignitionproof

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Dimensions



APL240

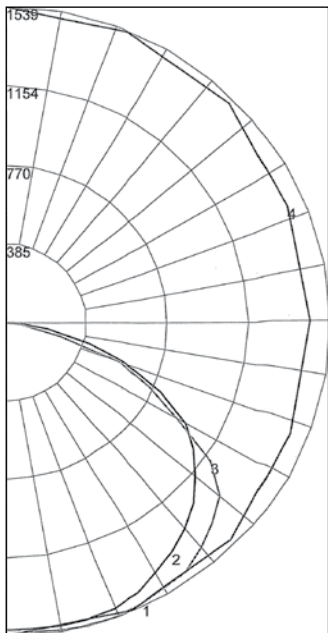
Photometric Data

Total Luminaire Efficiency = 81.4%

CIE Type — Direct

Plane	Spacing Criteria
0-180	1.28
90-270	1.50
Diagonal	1.54

Zone	Lumens
0-10	143.58
10-20	422.85
20-30	667.66
30-40	852.03
40-50	948.58
50-60	920.43
60-70	709.76
70-80	373.12
80-90	87.31
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



REPORT NUMBER: APL240R

Lamps: Two 40 W Two-Foot Explosionproof Fluorescent

Coefficients of Utilization — Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc	80				70				50				30				10				0			
% Walls R _w	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	0	0	0
0	97	97	97	97	95	95	95	95	90	90	90	87	87	87	83	83	83	81	81	81	81	81	81	81
1	88	84	81	77	86	82	79	76	79	76	74	76	73	71	73	71	69	68	68	68	68	68	68	68
2	80	73	67	62	78	71	66	62	68	64	60	66	62	59	63	60	57	56	56	56	56	56	56	56
3	72	64	57	51	70	62	56	51	60	54	50	58	53	49	55	51	48	46	46	46	46	46	46	46
4	66	56	49	43	64	55	48	43	53	47	42	51	46	41	49	45	41	39	39	39	39	39	39	39
5	61	50	42	37	59	49	42	36	47	41	36	45	40	35	44	39	35	33	33	33	33	33	33	33
6	56	44	37	32	54	44	37	31	42	36	31	41	35	31	40	34	31	29	29	29	29	29	29	29
7	52	40	33	28	50	39	33	28	38	32	27	37	31	27	36	31	27	25	25	25	25	25	25	25
8	48	37	29	24	47	36	29	24	35	29	24	34	28	24	33	28	24	22	22	22	22	22	22	22
9	45	33	27	22	43	33	26	22	32	26	22	31	26	22	30	25	21	20	20	20	20	20	20	20
10	42	31	24	20	41	30	24	20	29	24	20	29	23	19	28	23	19	18	18	18	18	18	18	18

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	1234.09	19.6	24.1	90-120	0.00	0.0	0.0
0-40	2086.12	33.1	40.7	90-130	0.00	0.0	0.0
0-60	3955.13	62.8	77.2	90-150	0.00	0.0	0.0
0-90	5125.31	81.4	100.0	90-180	0.00	0.0	0.0
				0-180	5125.32	81.4	100.0

 CSA Certification only.

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 Appleton®

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APL Four Lamp Fluorescent Factory Sealed Luminaire Photometric Data

Explosionproof, Dust-Ignitionproof

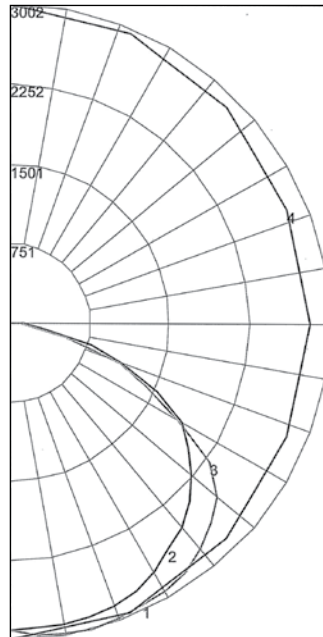
120-277 V, 120 V , 277 V , 347 V , 50/60 Hz. For use with Threaded Metal Conduit. Suitable for Wet Locations and Paint Spray Booths.

Total Luminaire Efficiency = 79.9%

CIE Type – Direct

Plane	Spacing Criteria
0-180	1.30
90-270	1.50
Diagonal	1.54

Zone	Lumens
0-10	277.70
10-20	817.61
20-30	1291.05
30-40	1648.83
40-50	1837.13
50-60	1787.64
60-70	1379.79
70-80	722.47
80-90	148.89
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



REPORT NUMBER: **APL440R**

Lamps: Four 40 W Explosionproof Fluorescent

Coefficients of Utilization – Zonal Cavity Method

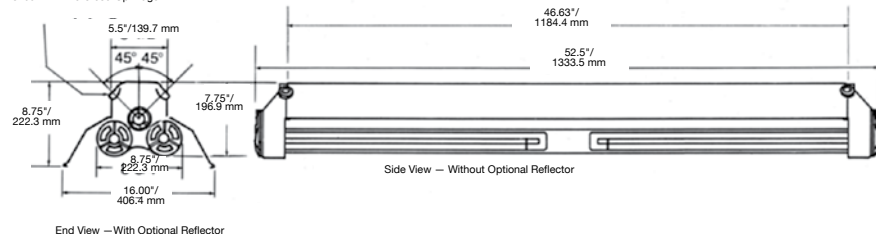
Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc	80				70				50				30				10				0
% Walls Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	95	95	95	95	93	93	93	93	89	89	89	85	85	85	82	82	82	80	80	80	0
1	87	83	79	76	85	81	78	75	78	75	73	74	72	70	72	70	68	67	67	67	0
2	78	72	66	61	76	70	65	61	67	63	59	65	61	58	62	59	56	55	55	55	0
3	71	62	56	50	69	61	55	50	59	53	49	57	52	48	54	51	47	45	45	45	0
4	65	55	48	42	63	54	47	42	52	46	41	50	45	41	48	44	40	38	38	38	0
5	59	49	41	36	58	48	41	36	46	40	35	45	39	35	43	38	35	33	33	33	0
6	55	44	36	31	53	43	36	31	41	35	31	40	35	30	39	34	30	28	28	28	0
7	51	39	32	27	49	39	32	27	38	31	27	36	31	27	35	30	26	25	25	25	0
8	47	36	29	24	46	35	29	24	34	28	24	33	28	24	32	27	24	22	22	22	0
9	44	33	26	22	43	32	26	21	31	25	21	31	25	21	30	25	21	20	20	20	0
10	41	30	24	19	40	30	24	19	29	23	19	28	23	19	28	23	19	18	18	18	0

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	2386.36	19.2	24.1	90-120	0.00	0.0	0.0
0-40	4035.19	32.5	40.7	90-130	0.00	0.0	0.0
0-60	7659.96	61.8	77.3	90-150	0.00	0.0	0.0
0-90	9911.11	79.9	100.0	90-180	0.00	0.0	0.0
				0-180	9911.11	79.9	100.0

(3) 3/4" Conduit Holes on Each End, Furnished with Two Close-Up Plugs



 CSA Certification only.