Applications:

The NFL Light Luminaires are used:

- In hazardous locations where dust, dirt, combustible vapors, smoke, fumes, moisture, corrosive, and wet conditions are present
- Where lamps may be broken due to physical abuse or movable equipment, such as in manufacturing areas or warehouses
- Where cleanliness and sanitation are prime factors such as in dairies, canneries, food processing plants, bottling plants, and laboratories
- In dock areas for protection against salt spray
- In areas where low mounting height and the even light distribution associated with a line type light source are required

Key Features:

- UL, cUL Listed for Class I, Division 2, Groups A, B, C, D areas with ambient suitability of 40°C (104°F) and 55°C (131°F) ambient suitability
- NEMA 4X with Myers Hubs and threaded metal plug (furnished)
- Non-metallic construction enclosure is corrosion-resistant
- Continuous form-in-place gasket ensures dust-tight, moisture-tight, and wet locations integrity
- Molded-in-place mounting studs eliminate the need of bracket gaskets
- Standard construction includes:
 S.S. mounting brackets
 Electronic ballast
 Cold weather ballast (4' F32 T8)
- S.S. mounting bracket combination ceiling and chain
- S.S. mounting brackets provide superior corrosion resistance
- Electronic ballast for energy efficiency
- Cold Weather Ballast (4' F32 T8)
- Two ½" conduit Myers Hubs for end and feed through wiring simplify installation and wiring
- Full metal fixture interior provides improved photometrics as well as access to and concealment of ballast and wiring
- Provisions (drill mark) on 4 ft. unit to field drill for pendant mounting for application and installation flexibility

Certifications and Compliances:

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, Group IIC
- UL Listed 844
- cUL

2

- Wet locations
- 4X



Standard Materials:

- Housing non-metallic, one piece fiberglass-reinforced polyester
- Latches Celcon[™] acetal plastic
- Lens acrylic plastic
- Gaskets seamless thermoset polyurethane
- Mounting Bracket stainless steel

Celecon™ is a trade name of Hoechst Celanese.

Standard Finishes:

- Fiberglass housing white
- Acrylic plastic lens crepe pattern

Options:

Suffix
S658
FA
S799*
95046*

Stainless steel latches
 Tamperproof latches

†For non-hazardous locations. *UNV voltages: 120, 208, 230, 240, 277, 50–60 Hz.

Ratings (Electrical/Size):

Sources/Wattage: luminaires are for use with the following lamps

- NFL2140 one 40 W long twin tube
- NFL4232
- two 32W T8 lampsNFL4240two 34W "F40 Style" T12 lamps

Voltages

- 120V 60Hz
- 120 277V, 50 60 Hz
- 347V 60 Hz

Conduit Entries

• Two 1/2" inch Myers hubs, one on each end

Temperature Performance Data:

Ambient temperature range suitability: °

Two lamp, 32W T8, 4 ft luminaire
All others
Supply wire

-18°C to 55°C
0°C to 55°C
75°C min.

Ordering Information:

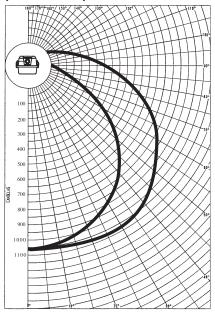
Luminaire Cat. #	Size/# of Lamp(s)	Wattage/ Lamp type	Voltage/Hz	
NFL2140/UNV		40W T5 compact	120 / 60 120–277/50–60 347 / 60	
NFL2140/347	2 ft/ 1-lamp	single ended		
NFL4232/UNV	4 ft/2-lamp	32W T8 rapid start	120 / 60 120–277/50–60	
NFL4240/120 NFL4240/277 NFL4240/347	4ft/2-lamp	34W T12 "F40 Style" rapid start	120 / 60 277 / 60 347 / 60	
N2FL4232/UNV N2FL4232/347	4ft/2-lamp	32W T8 rapid start	347 / 60	

Crouse-Hinds

NFL Series Fluorescent Luminaires

Luminaire: All NFL Luminaires

Candlepower Distribution Curve (in Candelas)



Candelas							
Angle	Along	Across					
0°	1049	1049					
10°	1034	1056					
20°	978	1071					
30°	866	1075					
40°	762	1027					
50°	606	939					
60°	416	838					
70°	228	723					
80°	92	549					
90°	17	363					
100°	19	243					
110°	10	131					
120°	5	46					
130°	4	20					
140°	4	9					
150°	4	3					
160°	4	0					
170°	0	0					
180°	0	0					

Zonal Lumens

Zone	Lumens	
0–30	862	
0–40	1462	
0–60	2778	
0–90	4130	
0–180	4499	

Photometric data, developed using two (2) F32T8/35K 2850 lumen lamps, represents the performance of all NFL series luminaires.

- Coefficient of Utilization These values are for all NFL series luminaires (Do not use multipliers).
- Candlepower Distribution Curve (in candelas) and Zonal Lumens – These values are for all NFL series luminaires, adjusted by conversion factors (multipliers) below.

Example:

- Candlepower at 20° across for NFL4232 using two (2) F32T/35K lamps (5700 lumen total) is 1071 candelas.
- Candlepower at 20° across for NFL2140 using one (1) T5 compact lamp (3100 lumen total) is 1071 x .55 = 589 candelas.

		Lamp		
Luminaire Series	Qty	Watts	Type (Lumens ea.)	Conversion Factor (multipliers)
NFL2140 NFL4232 NFL4240	2 2	32 34 40	F32T8/35K (2850) F40T12/RS (2650) T5 Compact (3150)	1.0 0.93 0.55
NFL424U	1	40	15 Compact (3150)	0.55

Coefficient of Utilization: For all NFL Series Light Luminaires

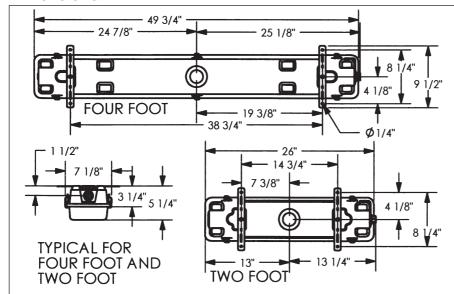
Effective Floor Cavity Reflectance 20%

% Reflectance	ichectarioe 2070	Room Cavity Ratio									
Eff. Ceiling	Wall	1	2	3	4	5	6	7	8	9	10
	70	.83	.75	.68	.62	.56	.51	.47	.44	.40	.37
00	50	.78	.67	.59	.52	.45	.40	.36	.32	.29	.26
80	30	.74	.61	.52	.44	.38	.33	.29	.25	.22	.20
	10	.71	.56	.46	.39	.32	.28	.24	.20	.17	.15
	70	.80	.72	.65	.59	.54	.49	.46	.42	.39	.36
70	50	.76	.65	.57	.50	.44	.39	.35	.31	.28	.26
70	30	.72	.60	.51	.43	.37	.32	.28	.25	.22	.19
	10	.69	.55	.46	.38	.32	.27	.23	.20	.17	.15
	50	.71	.61	.54	.47	.42	.37	.33	.30	.27	.24
50	30	.68	.57	.48	.42	.35	.31	.27	.24	.21	.19
	10	.66	.53	.44	.37	.31	.26	.23	.20	.17	.15
	50	.67	.58	.51	.45	.39	.35	.32	.28	.25	.23
30	30	.65	.54	.46	.40	.34	.30	.26	.23	.20	.18
	10	.62	.51	.42	.36	.30	.26	.22	.19	.16	.14
	50	.63	.54	.48	.42	.37	.33	.30	.27	.24	.22
10	30	.61	.51	.44	.38	.33	.29	.25	.22	.19	.17
	10	.59	.48	.41	.35	.29	.25	.22	.18	.16	.14
0	0	.57	.46	.39	.33	.27	.23	.20	.17	.14	.12

Crouse-Hinds

5L NFL Series Fluorescent Luminaires

Dimensions:



Net Luminaire Weights Luminaire Series Weight (lbs.) NFL2140 9.1 NFL4232 14.3 NFL4240 14.3

Temperature Performance Data:

Cat. No.	Watts	Ambient Temp. °C	Lamp Type	Supply Wire Temp. °C	Class I, Div. 2 Temp. Rating	Class II Temp. Rating	Simultaneous Presence Class I, Div. 2
NFL4232	32	40	T8	60	T6	-	-
NFL4232	32	55	T8	75	T5	-	-
NFL4240	34	40	T12	60	T6	-	-
NFL4240	34	55	T12	75	T5	-	-
NFL2140	40	40	T12	60	T6	-	-
NFL2140	40	55	T12	75	T5	-	-