

DESCRIPTION

A graceful arched housing with elegantly contoured perforated lamp diffusers and louver. Available in (2'x2') or (2'x4') configurations, these luminaires have no visible lamps, fasteners, hardware, or glaring reflectors, just soft, diffused, and comfortable lighting. "The Fenestra" 232/234/R Series provide for a high-tech appearance and a low tolerance fit. Combined, these elements make the Neo-Ray Fenestra Series 232/234/R an appropriate luminaire for executive offices, private offices, conference rooms, corridors, open office spaces, VDT workspaces, reception areas and dining spaces.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

A ... Construction

20-gauge steel housing (2'x2' or 2'x4').

B ... Shielding

Perforated metal panels backed by a white acrylic diffuser. White painted baffle runs down the center of the luminaire.

C ... Electrical

120, 277, 347 or Universal Voltage electronic ballast. Fixtures and electrical components certified to UL and CUL standards.

D ... Reflector

Standard white powder coated reflector or optional Tannenbaum reflector

E ... Finish

Durable, low gloss, white, powder coated acrylic.

F ... Mounting

Recessed. Specify:
(ETG) 15/16" Flat Exposed T-grid,
(STG) 9/16" Screw Slot T-grid,
(SR) Sheet Rock (Flanged),
(FTG) 9/16" Flat Exposed T-grid.



Fenestra 232 234

2 & 3BX
2 & 3T8
2 & 3T5
2 & 3T5HO

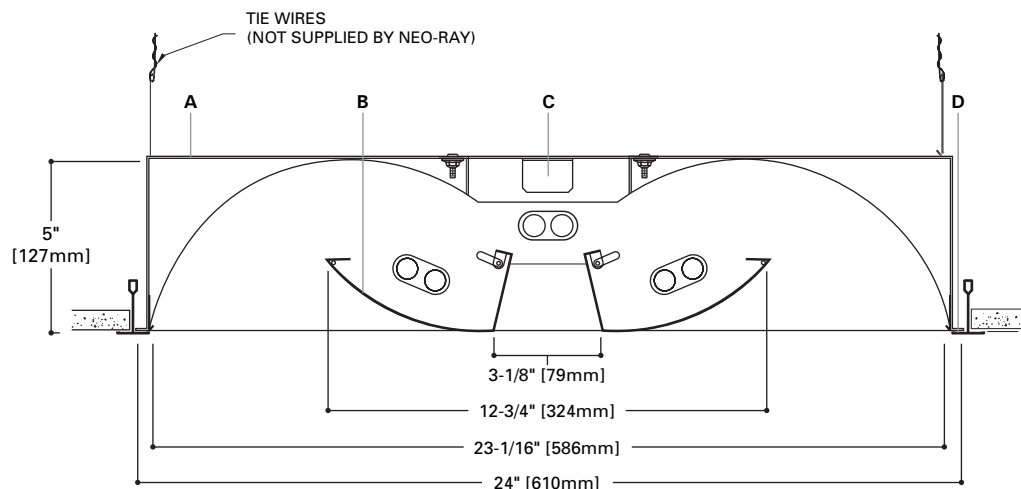
Recessed
Direct-Indirect

Light Distribution:
Indirect - 0.0%
Direct - 100.0%

TANNENBAUM



Optional rippled aluminum reflector.



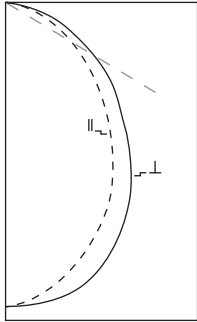
ORDERING INFORMATION

Series	Options ¹	Mounting	Number of Lamps	Ceiling Type	Voltage ³	Ballast	Emergency
232: 2' x 2' 234: 2' x 4'	A: Air Return ²	R: Recessed	2: 2 Lamps (Not included) 3: 3 Lamps (Not included)	ETG: 15/16" Exposed T-Grid STG: Slot T-Grid SR: Sheet Rock (Flanged) FTG: 9/16" Exposed T-Grid	1: 120V 2: 277V 3: 347V	EB: Electronic Ballast DB: Dimming Ballast	EM: Emergency Pack
			Lamp Type T8 T5 T5HO BX40W BX50W			Switching Options SI: Single Switching DU: Double Switching	Louver Options SF: Frosted Baffle SIB: Blue Ice Baffle SLS: Light Slots Baffle

Notes: 1 Can be left blank or more than one option may be available, consult factory.
2 Air Return not available for Slot T-Grid
3 Not all options available. Please consult your Cooper Lighting Representative for availability.

Specifications and Dimensions subject to change without notice.
Consult your representative for additional options and finishes.

PHOTOMETRICS



232-BX40W
(3) F40/30BS/SPX35
3150 Lumens

Efficiency 59.2%

Test Report
#LSI 15657

(Consult factory for I.E.S. data
not included within this report.)

Coefficients of Utilization

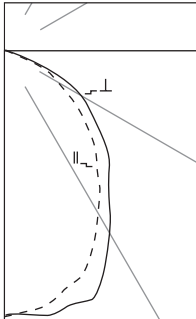
Effective floor cavity reflectance										20%											
rc	80%				70%				50%				30%				10%				0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	70	70	70	70	69	69	69	69	66	66	66	63	63	63	60	60	60	59			
1	65	63	61	59	64	62	60	58	59	58	56	57	56	54	55	54	53	52			
2	60	56	53	50	59	55	52	49	53	51	48	51	49	47	50	48	46	45			
3	56	50	46	43	54	49	46	43	48	45	42	46	44	41	45	43	40	39			
4	52	46	41	38	51	45	41	37	43	40	37	42	39	36	41	38	36	35			
5	48	41	36	33	47	41	36	33	39	35	32	38	35	32	37	34	32	31			
6	44	37	32	29	43	37	32	29	36	32	29	35	31	28	34	31	28	27			
7	41	34	29	26	40	33	29	25	32	28	25	31	28	25	31	27	25	24			
8	38	31	26	23	37	30	26	23	30	25	23	29	25	22	28	25	22	21			
9	36	28	24	20	35	28	23	20	27	23	20	26	23	20	26	22	20	19			
10	33	26	21	18	32	25	21	18	25	21	18	24	21	18	24	20	18	17			

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1850	19.59	33.09
0-40	2899	30.69	51.85
0-60	4674	49.46	83.56
0-90	5593	59.19	100.00
90-180	0	0.00	0.00
0-180	5593	59.19	100.00
Total Luminaire Efficiency = 59.2%			

Candela

Angle	Along II	45°	Across ⊥
0	2555	2555	2555
5	2508	2514	2554
10	2411	2440	2524
15	2285	2334	2466
20	2136	2203	2369
25	1970	2052	2223
30	1782	1870	2038
35	1580	1672	1846
40	1365	1461	1619
45	1149	1257	1393
50	972	1057	1207
55	802	883	1034
60	641	726	847
65	495	573	642
70	368	419	449
75	248	263	305
80	139	146	171
85	49	58	64
90	0	0	0



234-3T8
(3) F32T8/935
2950 Lumens

Efficiency 61.6%

Test Report
#12165.0

(Consult factory for I.E.S. data
not included within this report.)

Coefficients of Utilization

Effective floor cavity reflectance										20%											
rc	80%				70%				50%				30%				10%				0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	73	73	73	73	72	72	72	72	68	68	68	66	66	66	63	63	63	62			
1	68	66	63	61	66	64	62	60	62	60	58	59	58	57	57	56	55	54			
2	63	58	55	52	61	57	54	51	55	52	50	53	51	49	51	49	48	46			
3	58	52	48	44	56	51	47	44	49	46	43	48	45	42	46	44	42	40			
4	53	47	42	38	52	46	41	38	44	40	37	43	40	37	42	39	36	35			
5	49	42	37	33	48	41	36	33	40	35	32	39	35	32	37	34	32	30			
6	45	38	32	29	44	37	32	29	36	32	28	35	31	28	34	30	28	27			
7	42	34	29	25	41	33	29	25	32	28	25	32	28	25	31	27	25	23			
8	39	31	25	22	38	30	25	22	29	25	22	29	25	22	28	24	22	20			
9	36	27	23	19	35	27	22	19	26	22	19	26	22	19	25	21	19	18			
10	33	25	20	17	32	25	20	17	24	20	17	24	20	17	23	19	17	16			

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0-30	1778	20.1	32.6
0-40	2776	31.4	50.9
0-60	4561	51.5	83.6
0-90	5456	61.6	100.0
90-180	0	0.0	0.0
0-180	5456	61.6	100.0
Total Luminaire Efficiency = 61.6%			

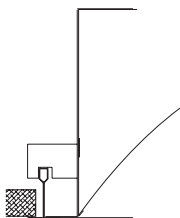
Luminance Data

Angle in Deg	0-Deg cd/sm	45-Deg cd/sm	90-Deg cd/sm
45	2322	2534	2705
55	1943	2180	2448
65	1623	1921	2074
75	1320	1287	1352
85	964	964	964

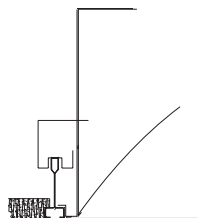
Candela

Angle	Along II	45°	Across ⊥
0	2347	2347	2347
5	2315	2326	2341
10	2287	2315	2372
15	2178	2224	2324
20	2101	2177	2323
25	1900	1986	2120
30	1703	1795	1886
35	1512	1600	1663
40	1320	1406	1463
45	1173	1280	1366
50	967	1061	1166
55	796	893	1003
60	621	720	801
65	490	580	626
70	361	421	381
75	244	238	250
80	140	133	141
85	60	60	60
90	0	0	0

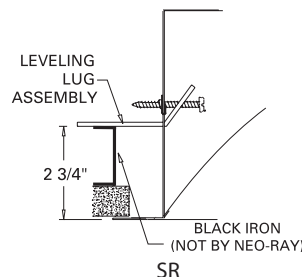
MOUNTING INFORMATION



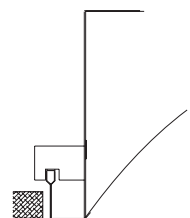
ETG



STG



SR



FTG