

FEATURES

- Ideal for vandal-prone areas, such as schools, hallways, dormitories, restrooms, bus stops, and locker rooms
- Effective, secure illumination mounts to ceilings or walls
- Rugged, 16 gauge heavy duty steel housing
- Diffuser is UV stabilized .130" thick, one-piece, prismatic polycarbonate for high-impact protection
- Formed end cap welded to housing for additional strength
- Wireway extends below lamp to protect lamp for impact breakage
- White powder coat finish painted after fabrication
- For ceiling, wall, or pendant—individual or in continuous row
- Six tamper-resistant screws protect against unauthorized entry
- Wet location (covered ceiling mount), Damp Location (Wall Mount)

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

CONSTRUCTION

Heavy 16 gauge cold rolled steel housing.

BALLASTS

Energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, unless otherwise specified. CEE NEMA Premium compliant.

ELECTRICAL

Standard class "P", thermally protected, auto-resetting 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

Painted parts are treated with a five stage phosphate bonding process and finished with a high reflectance baked white enamel.

SHIELDING

Diffuser is of 0.130" thick clear prismatic polycarbonate material.

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 VRW4-332-3EU

VR		4		32		U	
MODEL	WIDTH	SIZE	NO. OF LAMPS	LAMP TYPE	BALLAST	VOLTAGE	OPTIONS
VR Vandal Resistant Wraparound	N Narrow (5 1/8") M Medium (8 3/16") W Wide (12 3/16")	4 4'	1 One (VRN) 2 Two (VRN, VRM) 3 Three (VRW) 4 Four (VRW)	32 4', T8: 32, 30, 28 or 25 Watt	E Electronic T8, Instant Start 3E 3-Lamp Electronic T8, Instant Start 4E 4-Lamp Electronic T8, Instant Start	U 120V-277V	EL Emergency Battery Pack NYC NYC Compliant NYCU NYC Compliant, Union Label

ACCESSORIES (ORDER SEPARATELY)	
VDR	Tamper Resistant Screwdriver
GLRK	Fast Blow Fuse Kit
S18	18" Stem, Canopy
SS18	18" Swivel Stem - 45° Swivel

PHOTOMETRIC DATA AVG. LUMINANCE (Candela/Sq. M.)

LUMINAIRE DATA

Luminaire	VRN4-232-E Vandal Resistant Wraparound 5" x 48" 2-Lamp with Prismatic Polycarbonate Refractor	
Ballast	E232PI120G01	
Ballast Factor	0.92	
Lamp	F32T8	
Lumens per Lamp	2800	
Watts	56	
Mounting	Surface	
Shielding Angle	0° = 90 90° = 90	
Spacing Criterion	0° = 1.21 90° = 1.46	
Luminous Opening in Feet	Length: 3.96 Width: 0.44 Height: 0.22	

Average Luminaire Angle	0.0	22.5	45.0	67.5	90.0
0	7036	7036	7036	7036	7036
30	6414	6275	6547	6548	6499
40	5625	5688	5804	5669	5584
45	4594	4837	4936	4848	4753
50	3732	3884	4124	4251	4240
55	3273	3071	3381	3715	3864
60	2806	2410	2787	3155	3450
65	2260	1942	2412	2728	3061
70	1786	1582	2215	2631	2968
75	1305	1365	2129	2674	2948
80	1136	1332	1951	2758	3098
85	954	1221	1795	2804	3399

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	953	17.0	23.4
0-40	1588	28.4	39.0
0-60	2606	46.5	64.0
0-90	3310	59.1	81.3
90-120	497	8.9	12.2
90-130	613	11.0	15.1
90-150	736	13.1	18.1
90-180	760	13.6	18.7
0-180	4071	72.7	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	80				70				50				0			
	RW	70	50	30	10	70	50	30	10	50	30	10	0	0	0	0
1	76	72	69	66	66	72	69	66	63	63	61	59	48			
2	69	63	58	54	66	60	56	52	56	52	49	41				
3	63	55	50	45	60	53	48	44	49	45	41	35				
4	58	49	43	38	55	47	42	37	44	39	36	30				
5	53	44	38	33	51	43	37	32	40	35	31	26				
6	49	40	34	29	47	38	33	28	36	31	27	23				
7	46	36	30	26	44	35	29	25	33	28	24	20				
8	42	33	27	23	41	32	26	22	30	25	21	18				
9	40	30	24	21	38	29	24	20	27	23	19	16				
10	37	28	22	19	36	27	22	18	25	21	18	15				

RCR = Room Cavity Ratio

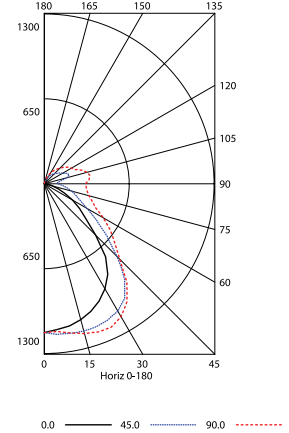
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	72.7%
Luminaire Efficacy Rating (LER)	67
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.58 based on 3000 hrs. and \$0.08 per KWH

Test HP07297 Test Date 7/29/1997

INDOOR CANDELA PLOT



LUMINAIRE DATA

Luminaire	VRW4-432-4E Vandal Resistant Wraparound 16" x 48" 4-Lamp with Prismatic Polycarbonate Lens	
Ballast	B432I120RH	
Ballast Factor	0.88	
Lamp	F32T8	
Lumens per Lamp	2800	
Watts	106	
Mounting	Surface	
Shielding Angle	0° = 90 90° = 90	
Spacing Criterion	0° = 1.22 90° = 1.37	
Luminous Opening in Feet	Length: 3.96 Width: 1.29 Height: 0.19	

AVG. LUMINANCE (Candela/Sq. M.)

Average Luminaire Angle	0.0	22.5	45.0	67.5	90.0
0	5976	5976	5976	5976	5976
30	5526	5539	5769	5886	5958
40	4963	5146	5315	5226	5175
45	4086	4288	4265	4246	4099
50	3212	3293	3479	3588	3575
55	2671	2640	2823	3010	3223
60	2253	2024	2136	2341	2743
65	1921	1521	1604	1768	2205
70	1617	1269	1340	1466	1785
75	1326	1118	1268	1384	1476
80	1049	1135	1293	1481	1567
85	890	1000	1285	1617	1964

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	2270	20.3	31.9
0-40	3737	33.4	52.6
0-60	5815	51.9	81.8
0-90	6678	59.6	94.0
90-120	327	2.9	4.6
90-130	370	3.3	5.2
90-150	417	3.7	5.9
90-180	429	3.8	6.0
0-180	7107	63.5	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	80				70				50				0			
	RW	70	50	30	10	70	50	30	10	50	30	10	0	0	0	0
1	69	66	64	61	67	64	62	60	61	59	58	51				
2	63	59	55	52	61	57	54	51	54	51	49	44				
3	58	52	48	44	57	51	47	43	49	45	42	38				
4	54	47	42	38	52	46	41	38	44	40	37	34				
5	50	42	37	33	48	41	37	33	40	35	32	30				
6	46	38	33	29	45	38	33	29	36	32	29	26				
7	43	35	30	26	42	34	29	26	33	29	26	23				
8	40	32	27	24	39	31	27	23	30	26	23	21				
9	38	30	25	21	36	29	24	21	28	24	21	19				
10	35	27	23	19	34	27	22	19	26	22	19	17				

RCR = Room Cavity Ratio

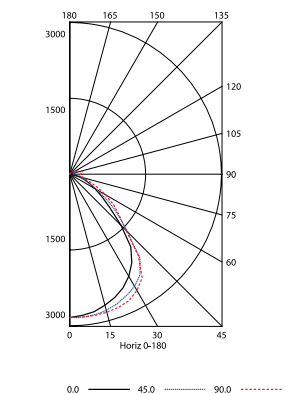
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

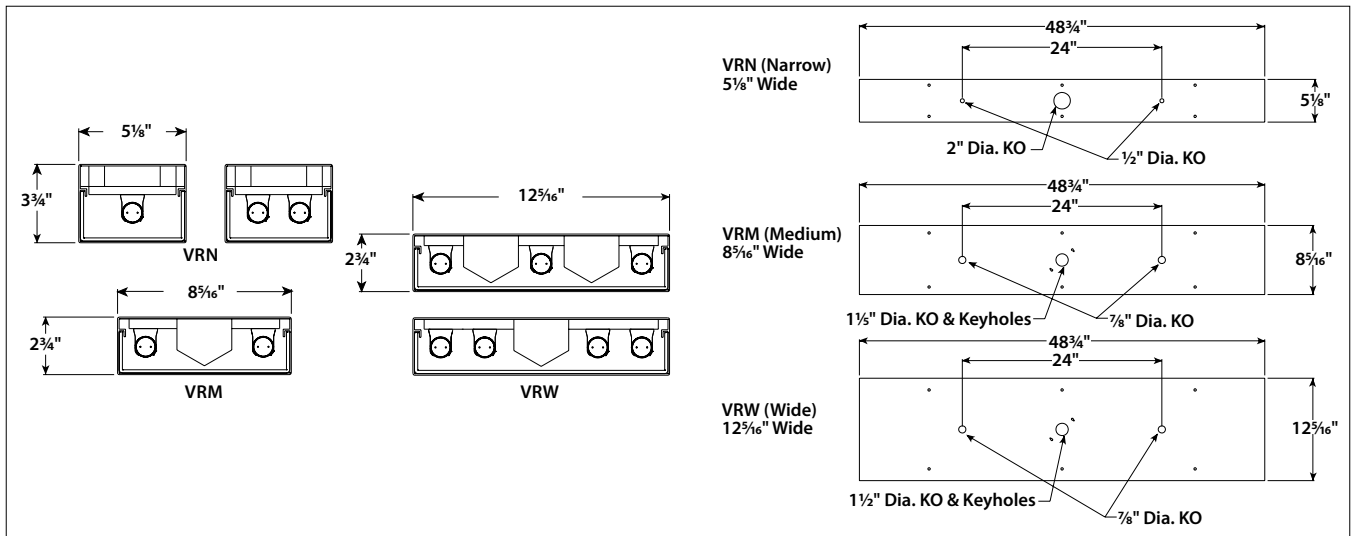
Total Luminaire Efficiency	63.5%
Luminaire Efficacy Rating (LER)	59
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$4.07 based on 3000 hrs. and \$0.08 per KWH

Test HP07299 Test Date 7/31/1997

INDOOR CANDELA PLOT



DIMENSIONAL DATA



NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.
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