



VRR-LED

Vandal Resistant High Abuse Anti-Ligature LED Grid / Flange 15/16 to 1-1/2 in. T-grid ceiling

PRODUCT SPECIFICATION

The VRR is designed for general purpose lighting in high abuse areas, stairwells, locker rooms, showers, and parking garages. Anti-ligature for public safety

Mounting

Suitable for installation in recessed 15/16"-1.5" T-Grid or hard ceiling applications. Hard ceiling (flange) type mounts via swing arm brackets that extend and clamp with a single screw action. Swing arm bracket also serves as connection for earthquake cables.

Housing

18 gauge die-formed cold rolled steel with seams welded and ground smooth.

Door

One-piece 18 gauge die-formed cold rolled steel overlapping door with 14 gauge lens retainers. Freedom Hinge™ design permits removal and hinging from either side. Stainless steel and 16 gauge aluminum available.

Internal Lens

LED diffusing Lexan, standard.

Finish

Polyester powder-coated after phosphate pretreatment for superior adhesion and corrosion resistance. Brushed stainless steel available.

Driver

0-10Vdc 1% dimming, >0.9 PF, <20% THD
Factory programmable, Operating temp -40°C Min. to 50°C Max

Wiring

Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.

Hardware

Recessed, stainless steel, tamper-proof fasteners.

Certifications

UL Listed damp or wet location.
Wet location option is IP65 rated.



Job Name _____

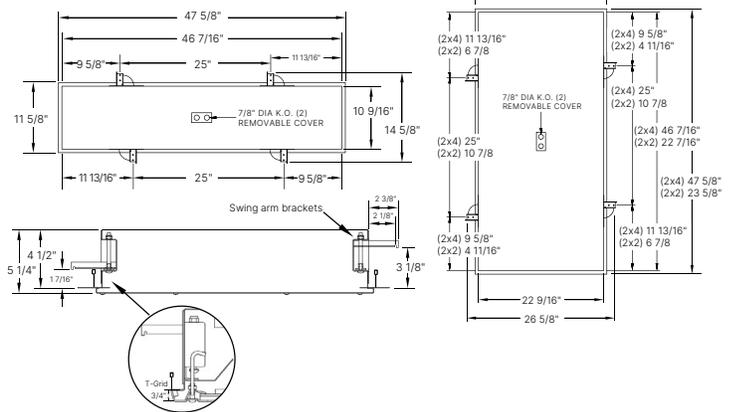
Fixture Type _____

Catalog No. _____

Approval _____ Date _____



Ceiling Grid / Flange Design



	one	two	three	four	five	six	seven	eight	nine	ten	eleven	twelve	thirteen	fourteen
VRR	-	-	/	-	-	-	-	VAR	DM	-	/	-	-	-

<p>one Luminaire Size 14 1 x 4, three rows max 22 2 x 2 24 2 x 4</p> <p>two LED Source Refer to the LED Source Table on Page 2 for available options.</p> <p>three Color Temperature 30 3000K 35 3500K 40 4000K 50 5000K</p> <p>four CRI 80 80 CRI 90 90 CRI</p> <p>four Door Gauge N 18 gauge D 16 gauge, aluminum only</p> <p>six Door Material A Aluminum C Cold rolled steel S Stainless steel</p>	<p>seven Finish R Brushed (Stainless steel only) W White</p> <p>eight Voltage VAR Variable, 120-277 V, 50/60Hz</p> <p>nine Driver DM 0-10Vdc Dimming, <u>standard</u></p> <p>ten Internal Lens 122 Optic Plus LED diffusing acrylic 130 LED diffusing Lexan, <u>standard</u> 53 .125 in. prismatic acrylic 12 .125 in. prismatic polycarbonate 15 .156 in. prismatic polycarbonate</p> <p>eleven External Lens 00 No external lens, <u>standard</u> 33 .125 in. clear polycarbonate 30 .187 in. clear polycarbonate 32 .250 in. clear polycarbonate <i>Contact factory for Aluminum (AH) and SS (SH) housings</i></p>	<p>twelve Door Fasteners AP Stainless steel allen head with pin TP Stainless steel torx head with pin PH Phillips, non-security</p> <p>thirteen UL Listing D Damp Location W Wet Location</p> <p>fourteen Options 2C Two-circuit wired AM Anti-microbial coating (exposed areas) CU Canadian UL Listing CP CCEA Chicago EM Emergency battery backup FH Fuse and holder NL-LED Night light, LED <i>5-100% Adjustability</i> ANL-LED Amber night light, LED <i>5-100% Adjustability</i> IMS Integral Occ Sensor PF Plaster frame</p>
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Modifications are available to meet custom requirements. Specifications and dimensions are subject to change without notice.

		3000K		3500K		4000K		5000K		
LED Source (Box 2)		Delivered Lumens	L/W	Input Watts						
1' x 4' Fixture										
1W20		2296	112	2330	114	2399	117	2466	120	20.5
1W30		3505	117	3558	119	3662	122	3765	126	29.9
1W40		4795	117	4868	119	5011	122	5151	126	41.0
1W55		6147	112	6239	114	6423	117	6603	120	54.8
2W70		7911	117	8030	119	8267	122	8498	126	67.6
2W85		9591	117	9735	119	10022	122	10302	125	82.1
2W100		12294	112	12479	114	12846	117	13206	120	109.6
2' x 2' Fixture										
2W28		3083	118	3129	120	3221	123	3311	127	26.1
2W43		4639	117	4709	119	4847	122	4983	126	39.6
2W58		6209	113	6303	115	6488	118	6670	122	54.8
4W85		9278	117	9417	119	9695	122	9966	126	79.3
4W110		12417	113	12604	115	12975	118	13339	122	109.6
2' x 4' Fixture										
2W43		4981	129	5056	131	5205	135	5350	139	38.5
2W61		6898	129	7002	131	7208	135	7410	139	53.3
2W75		8793	123	8926	125	9188	129	9446	132	71.5
2W95		11337	121	11507	123	11846	126	12178	130	93.7
2W110		12932	118	13126	120	13513	123	13891	127	109.6
3W135		15764	122	16001	124	16472	128	16933	131	128.9
3W165		19397	118	19689	120	20269	123	20836	127	164.4
4W195		22674	121	23015	123	23692	126	24356	130	187.4
4W225		25862	118	26252	120	27024	123	27781	127	219.2

Delivered lumen output calculated using 130 inner lens and no outer lens (Highlighted below).

Lens Multiplier - Use the multipliers below to adjust the delivered lumens					
Internal Lens			External Lens		
53	.125 in. prismatic acrylic	1.05	33	.125 in. clear polycarbonate	0.86
12	.125 in. prismatic polycarbonate	1.03	30	.187 in. clear polycarbonate	0.85
15	.156 in. prismatic polycarbonate	1.02	32	.250 in. clear polycarbonate	0.83
122	Optic Plus diffusing acrylic	1.05	00	No external lens	1.00
130	.118 in. LED diffusing Lexan, <u>standard</u>	1.00	90 CRI Multiplier		.83

Specified Output Option

L.C. Doane programmable drivers allow us to deliver a specific lumen output. If none of the options in the chart above fit your application, let us know the desired lumen output and we will do the rest. See the example how this will be specified.

Example Model:

VRR24-**XW**SO-40/80-DCW-VARDM-130/00-APD(**XXXXX**)

XW = We will determine the number of rows.

LUMENS = XXXXX