



FHN-LED

Security **LED** Recessed Flange

PRODUCT SPECIFICATION

The FHN series is designed for use in all levels of security facilities and high abuse applications.

Mounting

Mounts recessed in metal pan or gypsum ceiling with universal mounting brackets.

Housing

Die-formed cold rolled steel with seams welded and ground smooth. Stainless steel available.

Door

One piece, die formed cold rolled steel door with 14 gauge lens retainers and a full length welded pin piano hinge. Stainless steel available.

Internal Lens

Optic Plus lens (standard) completely hides diode image while providing minimum 95% light transmission.

Finish

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

Hardware

Recessed, stainless steel, tamper-proof fasteners.

Driver

0-10Vdc dimming, Range 1 %-100%
-40°C Min. starting temperature, >0.9 PF, <20% THD

Wiring

Access plate with two .875 in. diameter knockouts. Driver provided with pre-wired 3-wire self-aligning input power quick disconnect and 2-wire quick disconnect to LED module.

Certifications

UL Listed damp or wet location. IP54 rated.

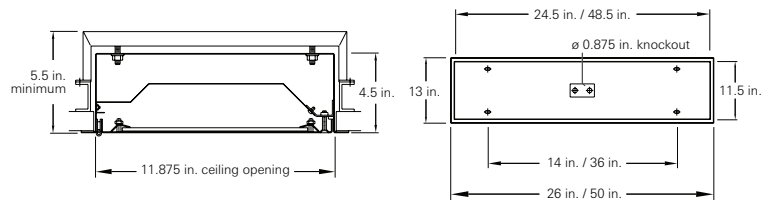
Job Name _____

Fixture Type _____

Catalog No. _____

Approval _____

Date _____



FHN	one	two	three	four	five	six	seven	eight	nine	ten	eleven	twelve	thirteen
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one	Luminaire Size	seven	Voltage	eleven	Door Fasteners
2	2 ft fixture	120	120 V, 60 Hz	AP	Stainless steel allen head with pin
4	4 ft fixture	277	277 V, 60 Hz	TP	Stainless steel torx head with pin
		VAR	Variable, 120-277 V, 50/60Hz	PH	Phillips, non-security
two	LED Rows	eight	Driver	twelve	UL Listing
1L	One	DM	0-10Vdc Dimming, <u>standard</u>	D	Damp Location
2L	Two			W	Wet Location
3L	Three	nine	Internal Lens	thirteen	Options
three	Color Temperature	122	Optic Plus LED diffusing acrylic lens, <u>std</u>	SO	Specified output*
30	3000K	53	.125 in. K12 prismatic acrylic	2C	Two-circuit wired
35	3500K	12	.125 in. K12 prismatic polycarbonate	CU	Canadian UL Listing
40	4000K	15	.156 in. K12 prismatic polycarbonate	EM	Emergency battery backup
50	5000K	16	.187 in. K12 prismatic polycarbonate	FH	Fuse and holder
four	Material Gauge	75	.156 in. C73 prismatic tempered glass	NL-LED	Night light, LED (Amber available) <i>5-100% Adjustability</i>
N	18 gauge, minimum security	ten	External Lens	IMS	Integral Occ Sensor
D	16 gauge, medium security	30	.187 in. clear polycarbonate	PF	Plaster frame
X	14 gauge, maximum security	32	.250 in. clear polycarbonate		
five	Material	36	.375 in. clear polycarbonate		
C	Cold rolled steel	38	.500 in. clear polycarbonate		
S	Stainless steel	90	.187 in. clear tempered glass		
six	Finish	92	.250 in. clear tempered glass		
R	Brushed stainless steel	96	.375 in. clear tempered glass		
W	White				

* Indicated as SO(xx/xxxx). Specified output, Input watts / delivered lumens to be determined based on specified requirements.

Modifications are available to meet custom requirements. Specifications and dimensions are subject to change without notice.

Photometric Data for a 1x4 fixture with three rows (Full Output)

Lumens	Input Watts	Lumens / Watt	CCT	CRI	LED Life
18110	164.3 watts	110	4000K	>80	>100,000

Photometric Data for a 1x2 fixture with three rows (Full Output)

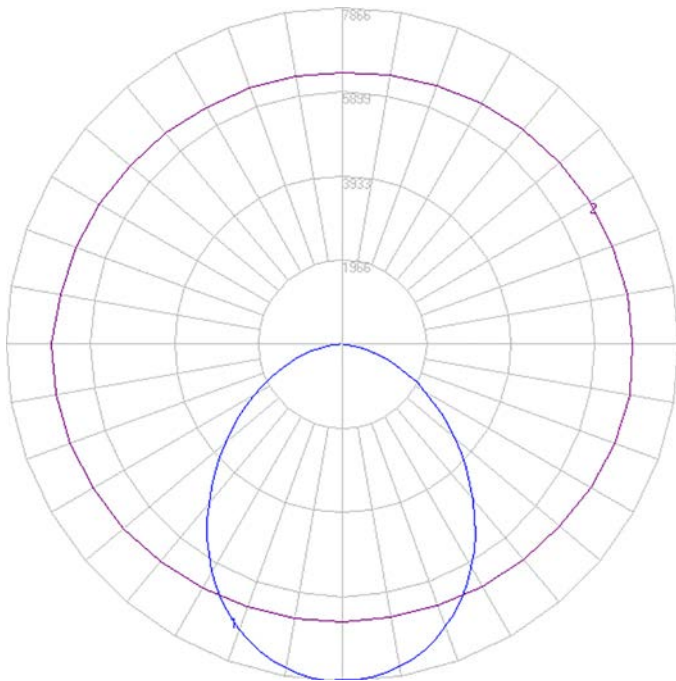
Lumens	Input Watts	Lumens / Watt	CCT	CRI	LED Life
9055	82.2 watts	110	4000K	>80	>100,000

Coefficients of Utilization - Zonal Cavity Method (FHN-LED 1x4)

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCC: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.05	1.01	.98	1.07	1.03	.99	.86	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86
2	1.00	.92	.86	.80	.97	.90	.84	.73	.87	.82	.78	.84	.79	.76	.81	.77	.74	.72
3	.91	.81	.73	.67	.89	.80	.72	.63	.77	.71	.65	.74	.69	.64	.72	.67	.63	.61
4	.84	.72	.64	.57	.82	.71	.63	.54	.69	.62	.56	.66	.60	.55	.64	.59	.55	.53
5	.77	.65	.56	.50	.75	.64	.55	.48	.62	.54	.49	.60	.53	.48	.58	.52	.48	.46
6	.71	.58	.50	.43	.70	.58	.49	.42	.56	.48	.43	.54	.48	.43	.53	.47	.42	.40
7	.66	.53	.45	.39	.65	.52	.44	.37	.51	.43	.38	.49	.43	.38	.48	.42	.38	.36
8	.62	.49	.40	.34	.60	.48	.40	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.32
9	.58	.45	.37	.31	.56	.44	.36	.30	.43	.36	.31	.42	.35	.31	.41	.35	.31	.29
10	.54	.41	.33	.28	.53	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26

FHN-LED - Polar Candela Distribution (FHN-LED 1x4)



FHN-LED - Polar Candela Distribution (FHN-LED 1x2)

