

# FRK6EA (2x4) 25W & 45W RETROFIT KIT Series



**Winner of 2014 "DOE" Next Generation Luminaires Design Competition**

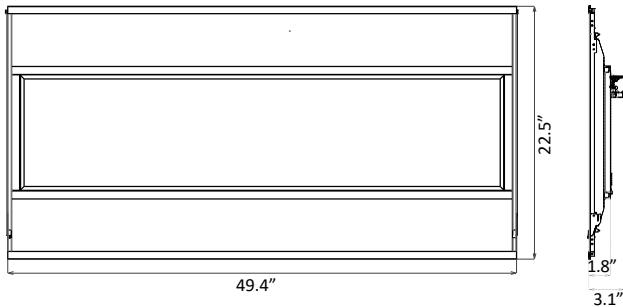
## PRODUCT DESCRIPTION

Samjin's innovative architectural retrofit kit series can be retrofitted into most existing troffers in just 10 minutes. Welcoming white light from the edge-lit light source emanates the perfect ambience into the living environment. All retrofit kits are ready for 0-10v dimming and meets all rebate qualification standards.

## APPLICATIONS

Office	Fitness Center
School	Retail
Healthcare	

## DIMENSIONS



## DM/ZT - 0~10 Volt Dimming

FRK Retrofit Kit series can be controlled with standard 0-10V LED dimmers. Tested 0-10V LED Dimmers include:

- Lutron – DIVA
- WattStopper - DLM

## PERFORMANCE OVERVIEW

PERFORMANCE	FRK6EA-02535E10US	FRK6EA-04535E10US
Light Output (Lm)	2,356	4,263
Power (W)	26.02	45.86
Efficacy (Lm/W)	90.55	92.96
CCT (K)	3,547	3,563
CRI	82.8	83.8
Power Factor	0.972	0.988
Input Voltage (V)	120-277	120-277

## PHYSICAL INFO

Dimension	49.4"(L) x 22.5"(W) x 3.1(H)
Weight	11 lb

## INSTALLATION

Spacing Criteria	1.26 (0-180°) / 1.20 (90°-270°)
Control	0-10V Dimming
Mounting	Retrofit Kit

## WARRANTY

5-Year Warranty (Terms and Conditions Apply)

## CERTIFICATIONS & QUALIFICATIONS



DLC Listed  
Only 2x4 45W



## ORDERING INFORMATION

SAMJIN	FRK	6EA	-025	35	E10
Brand	Model	Size	Wattage	CCT	Mounting
	Retrofit Kit	6EA 2' x 4'	-025 25 watt -045 45 watt	35 3500K 40 4000K 50 5000K	E10 Retrofit

U.S. Sales Partner ~ Controlled Lighting Corp.  
NY – 914-806-6684 ~ CA - 415-935-1346  
[sales@controlledlighting.net](mailto:sales@controlledlighting.net)

SAMJIN LED Inc.  
900 Lane Avenue, Suite 170, Chula Vista, CA 91914  
[lighting@samjinled.com](mailto:lighting@samjinled.com)

Rev. 3/1/18  
Specifications subject to change without notice

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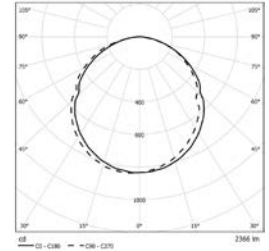
## PHOTOMETRIC DATA: FRK6EA-02535E10US

Test No: 2675716-04  
Test Date: 12/03/2013

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	Luminaire
0-30	646.8	27.3%	27.3%
0-40	1,060.0	44.8%	44.8%
0-60	1,868.8	79.0%	79.0%
60-90	496.8	21.0%	21.0%
0-90	2,365.6	100%	100%

### POLAR CANDELA DISTRIBUTION



### COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
	RW	70	50	30	0	70	50	30	0	50	30	20
RCR(0)	119	119	119	119	116	116	116	100	111	111	111	100
1	109	104	100	96	106	102	98	85	98	94	91	84
2	99	91	84	78	96	89	82	71	85	80	75	70
3	90	80	71	65	88	78	70	60	75	68	63	59
4	82	70	62	55	80	69	61	52	67	59	54	50
5	76	63	54	47	74	62	53	45	60	52	46	43
6	70	57	48	41	68	56	47	40	54	46	41	38
7	65	51	42	36	63	50	42	35	49	41	36	33
8	60	47	38	32	59	46	38	32	45	37	32	30
9	56	43	35	29	55	42	34	28	41	34	29	27
10	53	40	32	26	52	39	31	26	38	31	26	24

RCR = Room Cavity Ratio  
RC = Effective Ceiling Cavity Reflectance  
RW = Wall Reflectance

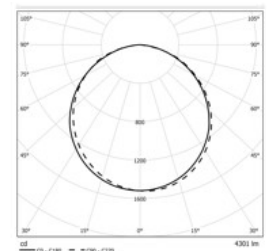
## PHOTOMETRIC DATA: FRK6EA-04535E10US

Test No: 2675716-06  
Test Date: 12/03/2013

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	Luminaire
0-30	1,176.50	27.40%	27.40%
0-40	1,926.60	44.80%	44.80%
0-60	3,406.00	79.20%	79.20%
60-90	894.8	20.80%	20.80%
0-90	4,300.80	100%	100%

### POLAR CANDELA DISTRIBUTION



### COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
	RW	70	50	30	0	70	50	30	0	50	30	20
RCR(0)	119	119	119	119	116	116	116	100	111	111	111	100
1	109	104	100	96	106	102	98	85	98	94	91	84
2	99	91	84	78	96	89	83	71	85	80	75	70
3	90	80	71	65	88	78	70	60	75	68	63	59
4	82	70	62	55	80	69	61	52	76	59	54	50
5	76	63	54	47	74	62	53	45	60	52	46	43
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