

# LEDMRK LED Magnetic Retrofit Kits



Project:	
Type:	
Catalog #:	



## STANDARD



The LEDMRK series is a family of LED magnetic retrofit kits, which are used to update existing 2x2 and 2x4 fluorescent luminaires to LED. This family of retrofit kits is designed to deliver general ambient lighting in a variety of indoor settings, including schools, offices, hospitals and stores. These high-efficacy retrofit kits provide long-life and uniform illumination, as well as standard 0-10 vdc dimming capability.

## FEATURES

- Available in 4000k (neutral white) & 5000k (cool white) color temperatures, and in sizes appropriate for retrofit of existing 2x2 and 2x4 fluorescent luminaires.\*
- Long-life LEDs provide 199,000 hours of operation with at least 70% of initial lumen output (L<sub>70</sub>).\*\*
- Provides a range of 2,990 to 5,623 lumens.\*
- Uniform illumination with no visible LED pixilation.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- 0-10vdc dimming capability is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Select either clear or frosted polycarbonate lenses.
- Easy retrofit installation in existing 2x2 and 2x4 fluorescent luminaires.

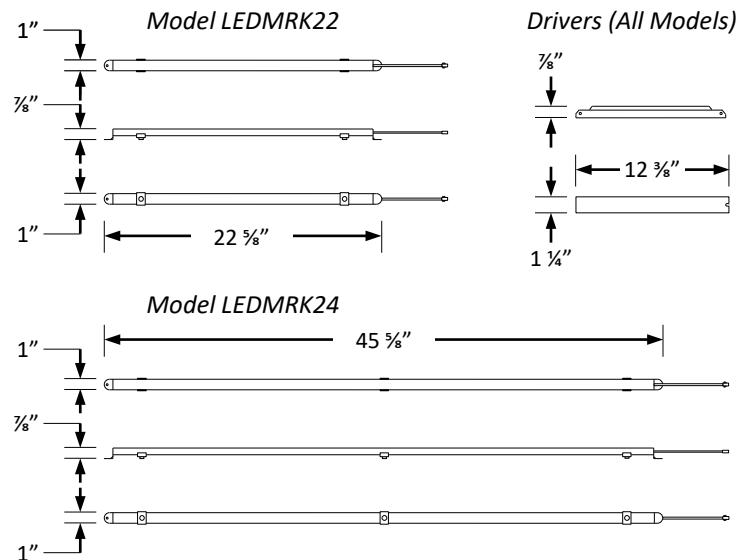
\* Contact factory for other color temperatures and lumen packages.

\*\* L<sub>70</sub> hours are IES TM-21-11 calculated hours.

## WARRANTY & LISTINGS

- cULus for damp locations and insulated ceilings. Suitable for ambient temperatures from -20°C to 45°C (-4°F to 113°F).
- Models with clear lenses are DLC premium approved, and models with frosted lenses are DLC standard approved.
- Flicker-free per IEEE1789-2015 (low risk of adverse effects of flicker at 100% light output level).
- Complies with RoHS (Restriction on Hazardous Substances) requirements.
- Complies with FCC Part 15, class B.
- Complies with EN61000-4-5, surge immunity protection (1kV).
- 5-year warranty of all electronics and housing.

## DIMENSIONS



Weight: 1.0 – 1.6 lbs.

## ORDERING INFORMATION

Example: LEDMRK22-2S-30WC-4KMV

LED magnetic strips for 2' x 2' housings, 2 LED strips, 30 watts, clear lens, 4000k, 120-277 volt input

Model	Existing Luminaire	Number of LED Strips	Watts	Lens	Color Temperature	Lumens	Lumens Per Watt (LPW)	Input Voltage
LEDMRK	22 = 2' x 2'	2S = 2 strips	30W = 30	C = Clear	4K = 4000k	3,845	128	MV = Multi-volt (120-277V)
				F = Frosted	5K = 5000k	3,767	126	
		3S = 3 strips	40W = 39	C = Clear	4K = 4000k	2,990	100	
				F = Frosted	5K = 5000k	3,067	102	
	24 = 2' x 4'	2S = 2 strips	40W = 39	C = Clear	4K = 4000k	4,894	125	
				F = Frosted	5K = 5000k	4,999	128	
		3S = 3 strips	45W = 44	C = Clear	4K = 4000k	3,919	100	
				F = Frosted	5K = 5000k	4,034	103	

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## ELECTRICAL DATA

Model	Color Temp.	CRI <sup>1</sup>	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage <sup>2</sup>	Input Current (A)			Power Factor	THD <sup>3</sup>	L <sub>70</sub> Hours <sup>4</sup>
							120V	240V	277V			
LEDMRK22-2S-30WC-4KMV	4000k	> 80	3,845	30	128	120-277	0.25	0.13	0.11	> 0.90	< 20%	199,000
LEDMRK22-2S-30WC-5KMV	5000k	> 80	3,767	30	126	120-277	0.25	0.13	0.11	> 0.90	< 20%	199,000
LEDMRK22-2S-30WF-4KMV	4000k	> 80	2,990	30	100	120-277	0.25	0.13	0.11	> 0.90	< 20%	199,000
LEDMRK22-2S-30WF-5KMV	5000k	> 80	3,067	30	102	120-277	0.25	0.13	0.11	> 0.90	< 20%	199,000
LEDMRK22-3S-40WC-4KMV	4000k	> 80	4,894	39	125	120-277	0.33	0.16	0.14	> 0.90	< 20%	199,000
LEDMRK22-3S-40WC-5KMV	5000k	> 80	4,999	39	128	120-277	0.33	0.16	0.14	> 0.90	< 20%	199,000
LEDMRK22-3S-40WF-4KMV	4000k	> 80	3,919	39	100	120-277	0.33	0.16	0.14	> 0.90	< 20%	199,000
LEDMRK22-3S-40WF-5KMV	5000k	> 80	4,034	39	103	120-277	0.33	0.16	0.14	> 0.90	< 20%	199,000
LEDMRK24-2S-40WC-4KMV	4000k	> 80	4,909	39	126	120-277	0.33	0.16	0.14	> 0.90	< 20%	199,000
LEDMRK24-2S-40WC-5KMV	5000k	> 80	5,025	39	129	120-277	0.33	0.16	0.14	> 0.90	< 20%	199,000
LEDMRK24-2S-40WF-4KMV	4000k	> 80	3,917	39	100	120-277	0.33	0.16	0.14	> 0.90	< 20%	199,000
LEDMRK24-2S-40WF-5KMV	5000k	> 80	4,073	39	104	120-277	0.33	0.16	0.14	> 0.90	< 20%	199,000
LEDMRK24-3S-45WC-4KMV	4000k	> 80	5,490	44	125	120-277	0.37	0.18	0.16	> 0.90	< 20%	199,000
LEDMRK24-3S-45WC-5KMV	5000k	> 80	5,623	44	128	120-277	0.37	0.18	0.16	> 0.90	< 20%	199,000
LEDMRK24-3S-45WF-4KMV	4000k	> 80	4,532	44	103	120-277	0.37	0.18	0.16	> 0.90	< 20%	199,000
LEDMRK24-3S-45WF-5KMV	5000k	> 80	4,680	44	106	120-277	0.37	0.18	0.16	> 0.90	< 20%	199,000

<sup>1</sup> Color rendering index.

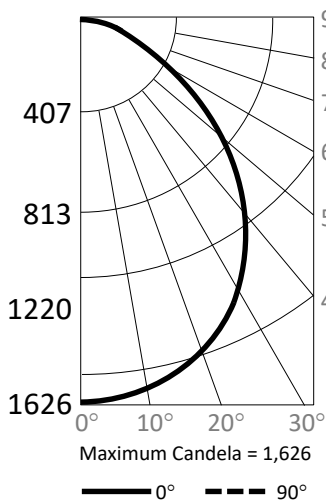
<sup>2</sup> All 50-60Hz.

<sup>3</sup> Total harmonic distortion.

<sup>4</sup> L<sub>70</sub> refers to the number of hours at which lumen output declines to 70% of the initial level. L<sub>70</sub> hours are IES TM-21-11 calculated hours.

## PHOTOMETRIC DATA

### LEDMRK22-2S-30WC-4KMV (3,845 Lumens)



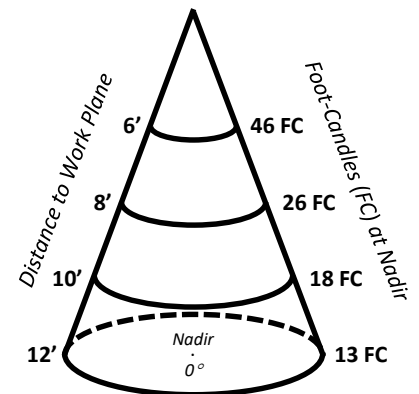
#### Candlepower Summary

	0°	90°
0°	1,626	1,626
10°	1,578	1,600
20°	1,461	1,516
30°	1,260	1,355
40°	981	1,109
50°	667	771
60°	404	454
70°	220	231
80°	122	130
90°	5	9

#### Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 10°	158	4.1%
0° - 20°	608	15.8%
0° - 30°	1,280	33.3%
0° - 40°	2,045	53.2%
0° - 50°	2,747	71.4%
0° - 60°	3,273	85.1%
0° - 70°	3,586	93.3%
0° - 80°	3,755	97.7%
0° - 90°	3,822	99.4%
90° - 180°	23	0.6%
0° - 180°	3,845	100.0%

#### Cone of Light

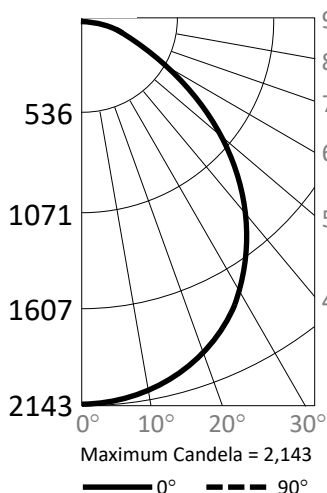


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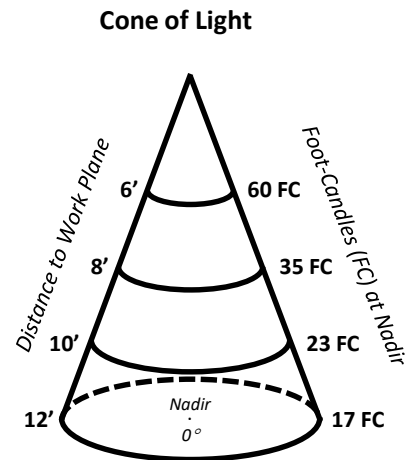
## PHOTOMETRIC DATA

### LEDMRK22-3S-40WC-4KMV (4,894 Lumens)

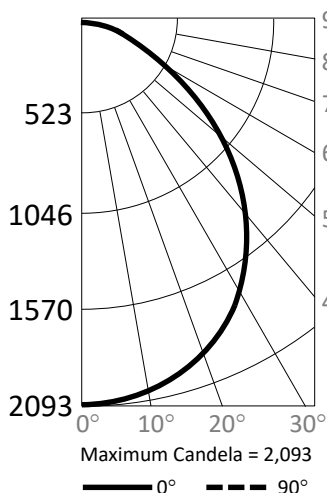


Candlepower Summary		
	0°	90°
0°	2,143	2,143
10°	2,085	2,111
20°	1,936	2,001
30°	1,669	1,783
40°	1,291	1,451
50°	872	994
60°	526	571
70°	282	296
80°	151	169
90°	6	10

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0° – 10°	202	4.1%
0° – 20°	780	15.9%
0° – 30°	1,641	33.5%
0° – 40°	2,620	53.5%
0° – 50°	3,511	71.8%
0° – 60°	4,174	85.3%
0° – 70°	4,568	93.3%
0° – 80°	4,781	97.7%
0° – 90°	4,866	99.4%
90° – 180°	28	0.6%
0° – 180°	4,894	100.0%

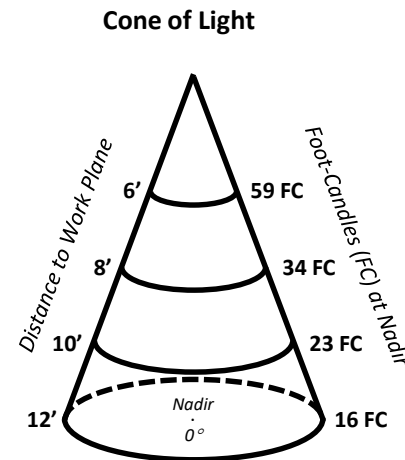


### LEDMRK24-2S-40WC-4KMV (4,909 Lumens)

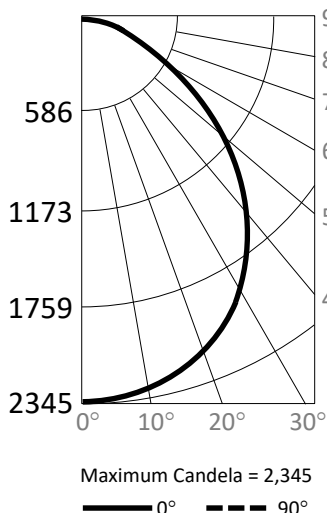


Candlepower Summary		
	0°	90°
0°	2,093	2,093
10°	2,054	2,066
20°	1,935	1,967
30°	1,712	1,766
40°	1,370	1,436
50°	941	1,003
60°	549	608
70°	286	315
80°	160	170
90°	7	20

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0° – 10°	198	4.0%
0° – 20°	766	15.6%
0° – 30°	1,620	33.0%
0° – 40°	2,605	53.1%
0° – 50°	3,514	71.6%
0° – 60°	4,194	85.4%
0° – 70°	4,595	93.6%
0° – 80°	4,803	97.9%
0° – 90°	4,888	99.6%
90° – 180°	21	0.4%
0° – 180°	4,909	100.0%



### LEDMRK24-3S-45WC-4KMV (5,490 Lumens)



Candlepower Summary		
	0°	90°
0°	2,345	2,345
10°	2,301	2,318
20°	2,172	2,211
30°	1,918	1,983
40°	1,537	1,606
50°	1,050	1,115
60°	614	666
70°	318	347
80°	177	188
90°	7	22

Zonal Lumen Summary		
Zone	Lumens	% Fixture
0° – 10°	222	4.0%
0° – 20°	859	15.7%
0° – 30°	1,818	33.1%
0° – 40°	2,922	53.2%
0° – 50°	3,940	71.8%
0° – 60°	4,696	85.5%
0° – 70°	5,141	93.6%
0° – 80°	5,373	97.9%
0° – 90°	5,467	99.6%
90° – 180°	23	0.4%
0° – 180°	5,490	100.0%

