

Delivered Lumens & Electrical Data*									
Size	Lumen Package	Control	Delivered Lumens	System Watts 120-277V/347V**	Total Current (A)				
					120V	208V	240V	277V	347V**
2x2	32L	10V	3,070	25	0.21	0.12	0.11	0.10	0.08
		10V w/EB14		28	0.24	0.15	0.13	0.11	N/A
		SC1		25	0.21	0.12	0.11	0.10	N/A
		SC1 w/EB14		27	0.23	0.13	0.11	0.10	N/A
1x4/2x4	40L	10V	4,080	33	0.27	0.16	0.14	0.12	0.10
		10V w/EB14		36	0.31	0.17	0.15	0.13	N/A
		SC1		32	0.27	0.16	0.14	0.11	N/A
		SC1 w/EB14		34	0.29	0.16	0.14	0.12	N/A
1x4/2x4	50L	10V	5,000	41	0.34	0.20	0.17	0.14	N/A
		10V w/EB14		44	0.38	0.21	0.18	0.16	N/A
		SC1		40	0.32	0.19	0.17	0.14	N/A
		SC1 w/EB14		41	0.35	0.20	0.17	0.15	N/A

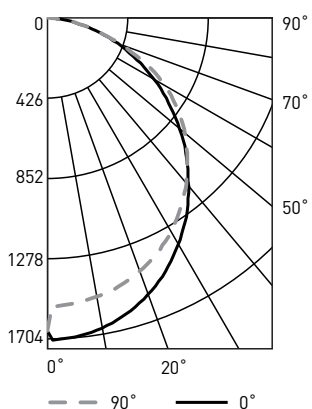
* Electrical data at 25°C (77°F). Actual wattage and lumens may differ by +/- 10% when operating between 120-277V or 347V +/- 10%.
 ** 347V not available with SmartCast Technology, 50L or EB14.

Delivered Emergency Lumens			
Size	Lumen Package	Approximate Delivered Emergency Lumens 0-10V	Approximate Delivered Emergency Lumens SC1
2X2	32L	1,100	1,140
1X4/2X4	40L	1,130	1,200
1X4/2X4	50L	1,140	1,220

Photometry

ZR14MT-50L-30K-10V BASED ON RESTL TEST REPORT #: PL15685-001A

Luminaire photometry has been conducted in accordance with IES LM-79-08. IES LM-79-08 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



Coefficients Of Utilization - Zonal Cavity Method				
RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	109	104	100	96
2	99	91	84	78
3	90	80	71	65
4	83	71	62	55
5	76	63	54	47
6	70	57	48	41
7	65	51	43	36
8	60	47	38	33
9	56	43	35	29
10	53	40	32	27

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m²)			
Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	4,487	4,744	4,512
55°	4,162	4,552	4,479
65°	3,777	4,400	4,162
75°	3,151	3,873	3,229
85°	1,956	2,141	1,402

Reference <https://www.creeledlighting.com/products/indoor/troffers/zr-series> for detailed photometric data.

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	1,278	N/A	27.6%
0-40	2,084	N/A	45.1%
0-60	3,663	N/A	79.2%
0-90	4,626	N/A	100%
0-180	4,626	N/A	100%

Application Reference

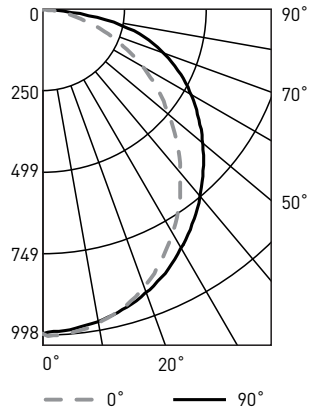
Open Space						
Spacing	Lumen Package	Initial Delivered Lumens	Wattage	LPW	w/ft²	Average fc
8 x 8	40L	4,080	32	128	0.48	58
	50L	5,000	40	125	0.64	71
8 x 10	40L	4,080	32	128	0.40	48
	50L	5,000	40	125	0.55	59
10 x 10	40L	4,080	32	128	0.32	39
	50L	5,000	40	125	0.36	48
10 x 12	40L	4,080	32	128	0.24	31
	50L	5,000	40	125	0.36	38

10' ceiling; 80/50/20 reflectances; 2.5' workplane, open room. LLF: 1.0 Initial Open Space: 50' x 40' x 10'

Photometry

ZR22MT-32L-30K-10V BASED ON RESTL TEST REPORT #: PL15688-001A

Luminaire photometry has been conducted in accordance with IES LM-79-08. IES LM-79-08 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



Coefficients Of Utilization – Zonal Cavity Method				
RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	108	103	98	94
2	98	89	82	76
3	89	78	69	63
4	81	69	60	53
5	75	61	52	45
6	69	55	46	39
7	64	50	41	35
8	59	46	37	31
9	56	42	34	28
10	52	39	31	25

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m²)			
Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	2,452	2,691	2,961
55°	2,246	2,645	3,023
65°	2,004	2,684	3,277
75°	1,662	2,857	3,701
85°	1,073	2,649	3,074

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	761	N/A	26.2%
0-40	1,239	N/A	42.7%
0-60	2,191	N/A	75.5%
0-90	2,903	N/A	100%
0-180	2,903	N/A	100%

Reference <https://www.creelighting.com/products/indoor/troffers/zr-series> for detailed photometric data.

Application Reference

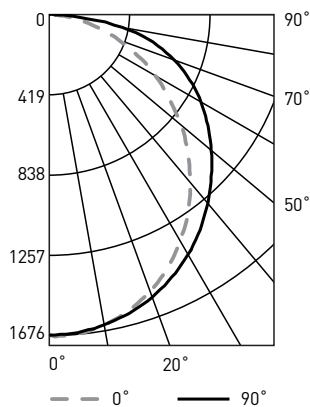
Open Space						
Spacing	Lumen Package	Initial Delivered Lumens	Wattage	LPW	w/ft²	Average fc
8 x 8	32L	3,070	25	123	0.38	43
8 x 10	32L	3,070	25	123	0.31	36
10 x 10	32L	3,070	25	123	0.25	29
10 x 12	32L	3,070	25	123	0.20	23

10' ceiling: 80/50/20 reflectances; 2.5' workplane, open room. LLF: 1.0 Initial
Open Space: 50' x 40' x 10'

Photometry

ZR24MT-50L-50K-10V BASED ON RESTL TEST REPORT #: PL15689-001B

Luminaire photometry has been conducted in accordance with IES LM-79-08. IES LM-79-08 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



Coefficients Of Utilization – Zonal Cavity Method				
RC %:	80			
RW %:	70	50	30	10
RCR: 0	119	119	119	119
1	108	103	98	94
2	98	89	82	75
3	89	78	69	62
4	81	69	59	52
5	74	61	52	45
6	69	55	46	39
7	64	50	41	34
8	59	45	37	31
9	55	42	33	28
10	52	38	30	25

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m²)			
Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	2,084	2,248	2,438
55°	1,923	2,229	2,536
65°	1,733	2,286	2,755
75°	1,453	2,492	3,114
85°	956	2,585	2,564

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	1,288	N/A	25.8%
0-40	2,104	N/A	42.2%
0-60	3,741	N/A	75%
0-90	4,990	N/A	100%
0-180	4,990	N/A	100%

Reference <https://www.creelighting.com/products/indoor/troffers/zr-series> for detailed photometric data.

Application Reference

Open Space						
Spacing	Lumen Package	Initial Delivered Lumens	Wattage	LPW	w/ft²	Average fc
8 x 8	40L	4,080	32	128	0.48	58
	50L	5,000	40	125	0.64	71
8 x 10	40L	4,080	32	128	0.40	48
	50L	5,000	40	125	0.55	59
10 x 10	40L	4,080	32	128	0.32	39
	50L	5,000	40	125	0.36	48
10 x 12	40L	4,080	32	128	0.24	31
	50L	5,000	40	125	0.36	38

10' ceiling: 80/50/20 reflectances; 2.5' workplane, open room. LLF: 1.0 Initial
Open Space: 50' x 40' x 10'