

Project: _____
 Location: _____
 Cat. #: _____
 Type: _____
 Quantity: _____

LED

RLK T24 LED Board/Driver 2x4 Prismatic Retrofit Kit

Features:

- High performance, long life LED technology
- 0-10V dimming drivers standard
- Up to over 140 lumens per watt
- Pre-wired components and driver quick-disconnect allows for quick and easy installation, saving on labor costs
- A wide variety of lumen packages allows for flexibility in design and helps maximize energy savings
- Replaces up to 4 lamp T8 systems

Applications:

For use in most existing 2x4 prismatic troffer & surface box luminaires.
 For dry/indoor use only.

Note: Contractor/engineer must ensure proper fit in existing luminaire housing.

Ambient Operating Temp:

- -30°C to 40°C

Predicted Lifetime:

- L90 > 60,000hrs (reported)
- L70 > 200,000hrs (calculated)
- 90.6% lumen maint. @ 60,000 hrs (based on LM-80, TM-21 and in-situ laboratory testing)

Construction:

- Pre-wired boards and 0-10V driver
- Kit comes with (4) 2' LED boards wired for (2) 4' rows of LEDs
- Magnetic fasteners come standard and allow for easy application and adjustment of boards onto existing housing

Certifications:

- UL 1598c listed for US and Canada, suitable for damp locations
- RoHS compliant
- DesignLights Consortium qualified on specific configurations (refer to DLC qualified products list for exact model numbers) <http://designlights.org/>

Warranty:

- 5 year limited system warranty see www.LumenFocus.com for complete warranty terms and conditions



Powered by:



RLK T24

LED Board/Driver
2x4 Prismatic Retrofit Kit



Ordering Guide:

example: RLK T24 2 MD UV 840

Series	Retrofit Type	# of Rows	Output	Voltage	CRI/CCT	Options
RLK	T24	2		UV	-	
RLK	T24	2	SL VL LW ML MD MH HI VH SH	UV	830 835 840 850	Blank LVL BAA

Retrofit Type: T24 2x4 prismatic troffer/surface box

of Rows: 2 (2) 4' Rows of LEDs

Lumen Output: SL Super Low
VL Very Low
LW Low
ML Medium Low
MD Medium
MH Medium High
HI High
VH Very High
SH Super High

Voltage: UV 120-277V

CRI/CCT: 830 80 CRI / 3000K
835 80 CRI / 3500K
840 80 CRI / 4000K
850 80 CRI / 5000K

Options: Blank None
LVL 0-10V Dimming Leads for Easy Field Access
BAA Buy American Act compliant

Performance Chart:

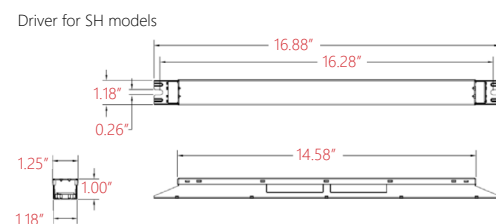
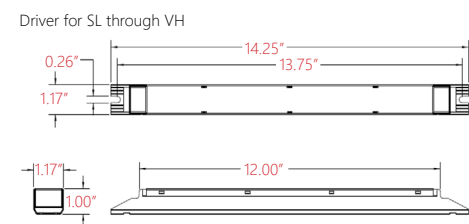
Catalog #	Nominal Lumens (3000K)	Watts (3000K)	LPW (3000K)	Nominal Lumens (3500K)	Watts (3500K)	LPW (3500K)	Nominal Lumens (4000K)	Watts (4000K)	LPW (4000K)	Nominal Lumens (5000K)	Watts (5000K)	LPW (5000K)
RLK T24 2 SL UV 8xx	2600	20	132.6	2610	20	133.2	2686	20	137.0	2712	20	138.4
RLK T24 2 VL UV 8xx	3352	25	134.1	3366	25	134.6	3463	25	138.5	3498	25	139.9
RLK T24 2 LW UV 8xx	3736	28	133.4	3751	28	134.0	3859	28	137.8	3898	28	139.2
RLK T24 2 ML UV 8xx	4117	31	132.8	4134	31	133.3	4253	31	137.2	4295	31	138.6
RLK T24 2 MD UV 8xx	4551	35	130.0	4570	35	130.6	4701	35	134.3	4748	35	135.7
RLK T24 2 MH UV 8xx	5256	41	127.6	5278	41	128.1	5430	41	131.8	5484	41	133.1
RLK T24 2 HI UV 8xx	6546	47	139.3	6573	47	139.9	6763	47	143.9	6830	47	145.3
RLK T24 2 VH UV 8xx	7278	53	137.3	7308	53	137.9	7519	53	141.9	7594	53	143.3
RLK T24 2 SH UV 8xx	8559	64	133.7	8595	64	134.3	8842	64	138.2	8931	64	139.5

Scaling Factor:

Pattern 12 Prismatic Acrylic lens = 0.88

Performance may vary depending on existing luminaire/lens characteristics and condition.

Schematic:



RLK T24

LED Board/Driver
2x4 Prismatic Retrofit Kit



Photometric Data:

RLK T24 2 MH UV 830

Test No.: LLIA000933-008

Luminaire Lumens: 5,256 lm

Luminaire Watts: 41.2W

Efficacy: 127.6 LPW

Spacing Criterion (0-180): 1.32

Spacing Criterion (90-270): 1.28

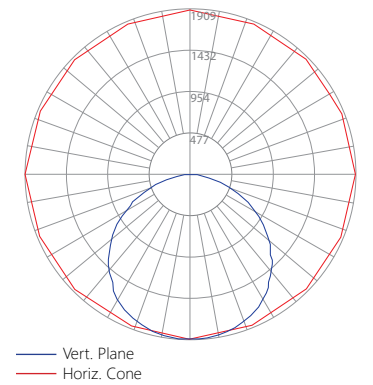
Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2664	2680	2620
55	2597	2527	2603
65	2356	2381	1303
75	1861	1056	281
85	574	399	354

Coefficients Of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

RC	80				70				50				30			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90		
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42		
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30		
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27		

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08



Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	697.03	13.30
0-30	1490.61	28.40
0-40	2459.63	46.80
0-60	4388.91	83.50
0-80	5224.86	99.40
0-90	5256.15	100.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
0-180	5256.15	100.00

RLK T24 2 MH UV 830 w/ A12 lens

Test No.: LLIA000933-005A

Luminaire Lumens: 4,620 lm

Luminaire Watts: 41.2W

Efficacy: 112.1 LPW

Spacing Criterion (0-180): 1.24

Spacing Criterion (90-270): 1.20

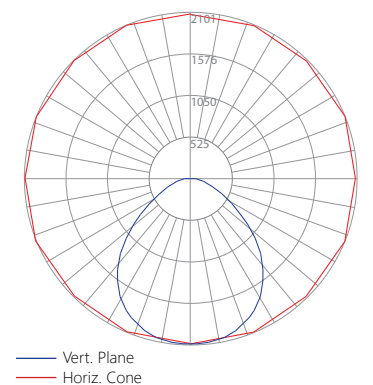
Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2584	2476	2316
55	1926	1762	1623
65	1419	1111	1275
75	1295	1034	1474
85	1586	1544	1960

Coefficients Of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

RC	80				70				50				30			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106		
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91		
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67		
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59		
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52		
6	74	61	53	47	72	60	53	47	59	52	47	57	51	46		
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41		
8	64	51	43	38	63	51	43	38	50	43	38	48	42	37		
9	60	47	40	34	59	47	39	34	46	39	34	45	39	34		
10	57	44	36	31	55	43	36	31	43	36	31	42	35	31		

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08



Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	760.67	16.50
0-30	1600.39	34.60
0-40	2554.48	55.30
0-60	3970.97	85.90
0-80	4522.46	97.90
0-90	4619.38	100.00
90-120	1.06	0.00
90-130	1.06	0.00
90-150	1.06	0.00
90-180	1.06	0.00
0-180	4620.44	100.00