





DP25 & DR25
LED LINEAR RECESSED LUMINAIRE

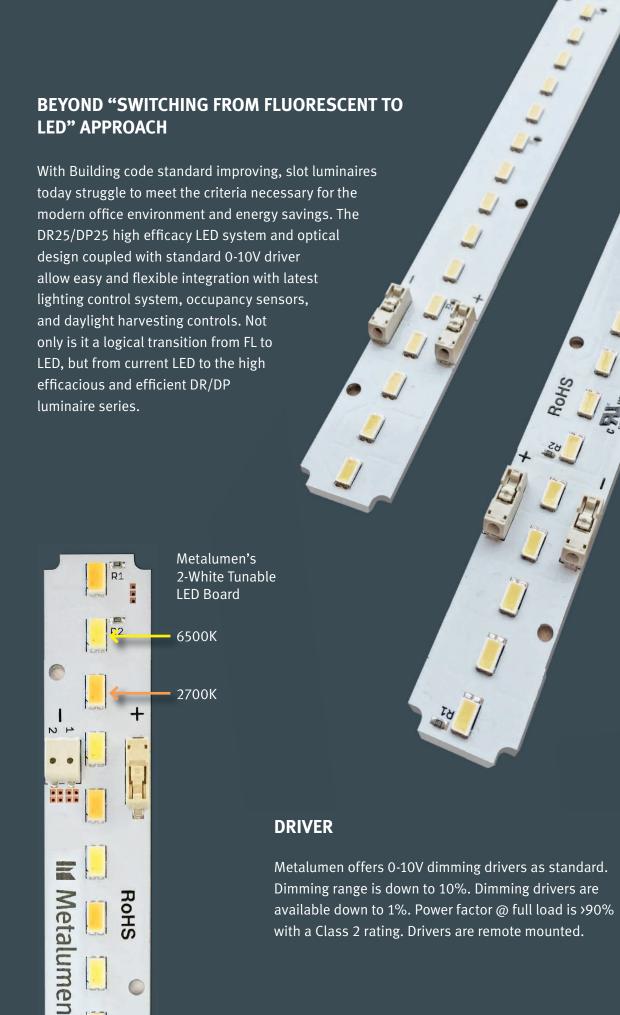




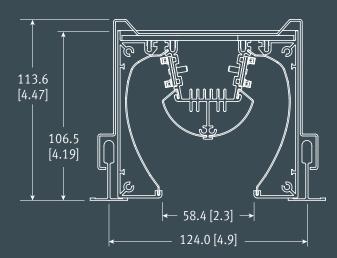
The DR25 & DP25 are recessed, linear LED luminaires engineered for supreme functionality, high efficacy and leading edge design. They are completely designed optically and aesthetically with innovation and accuracy in mind. The carefully constructed interior curved reflector allows light to continuously bounce creating a smooth, consistent glow with wide Bat-wing distribution all the while completely concealing the LED source for excellent glare-free brightness control.

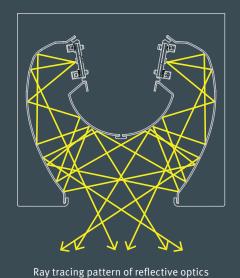
The exterior floating look and feel lifts up your space to a floating linear slot experience that perfectly combines ideal lighting with the feel of light-pipe technology - complex system design with clean and simple exterior look. These 2.3" aperture open cavity luminaires will look astonishing in any office environment, library, retail space, classroom or health facility. DR25 & DP25 are available in T-Bar recessed symmetric and asymmetric distribution for ideal performance including perimeter and wall-wash applications.

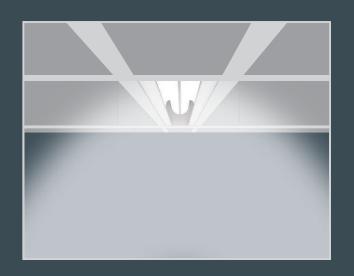
Simple elegance that is architecturally breathtaking.



DR25







DR25-2L35K-4-N-N-L3 Wattage: 48 Lumens: 4431 Efficacy: 92 LPW





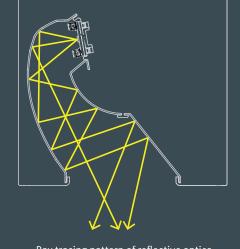
We have gone beyond the barrier of using lenses in our innovative fixtures. Our newly designed Floating Optic® luminaires are designed around the LED engine and high efficient optical system. We rely on

every angle of the optical system utilized in our design to efficiently and optimally control the light beam. The carefully designed reflector also perfects the shape of the distribution curve to make sure it works best in the application for which it was designed.

113.6 [4.47] 106.5 [4.19] - 58.4 [2.3] - 124 [4.9]







DP25

Ray tracing pattern of reflective optics

DP25-2L35K-4-N-N-L3
Wattage: 24
Lumens: 2316
Efficacy: 97 LPW

OPTICAL SYSTEM PERFECTED FOR

OPTIMAL WIDE BAT-WING DISTRIBUTION

WITH HIGH EFFICACY AND EFFICIENCY DESIGN

CONTROL OPTIONS

2-White Tunable Module by Metalumen



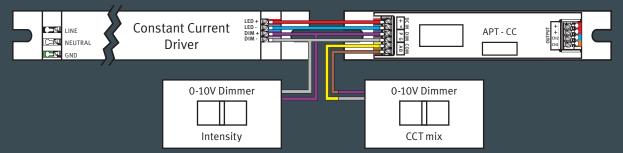
- DMX wired communication via COM ports with up to 512 addresses
- Dimming using a 0-10V dimmer connected to the COM ports

OPTION CODES	Max Output Channels	Max Output Power [W]	Max Channel Power [W]	Control over Driver Dim	0-10V Dim	Dim Minimum %	0-10V-CCT/Intensity
V	2	100	100	•	*		•
X	2	100	100	•	1%	•	

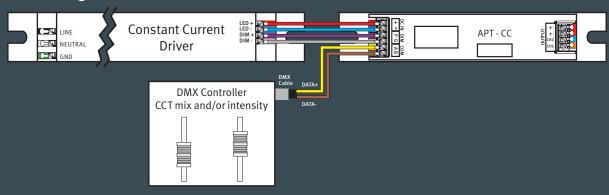
^{* =} Dim minimum limited by driver specs

WIRING DIAGRAM

Dual 0-10V Dimmer Configuration



DMX Configuration



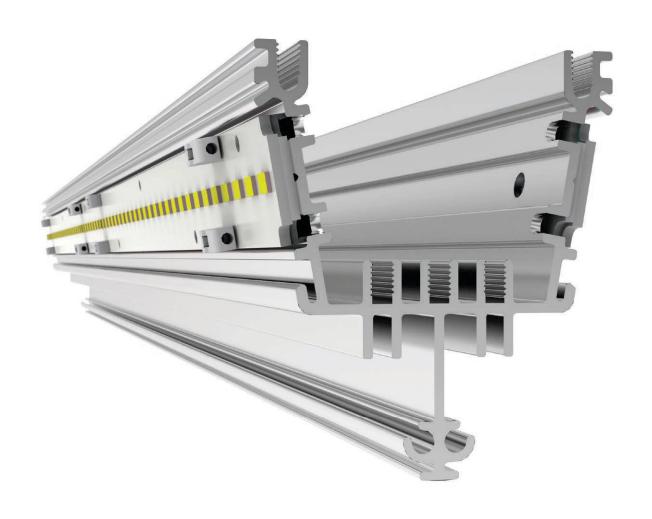
2-White Tunable Control Options (By Others):

- Standard 512 channel DMX system by Lutron, Fulham, etc... (requires complete DMX system)
- Standard 0-10V dimmers: one for Intensity and another for CCT mix.



EXTRUSION

Extrusion and LED-Engine coupling design is engineered for maximum heat dissipation. The finned surface at different angles optimally keep the LED array at low operating temperature maintaining consistent lumen output performance, wattage consumption and long life. Our fixture design puts this small form luminaire with a beast of a performer attitude at L85≥60,000h.



CALCULATION SUMMARIES —

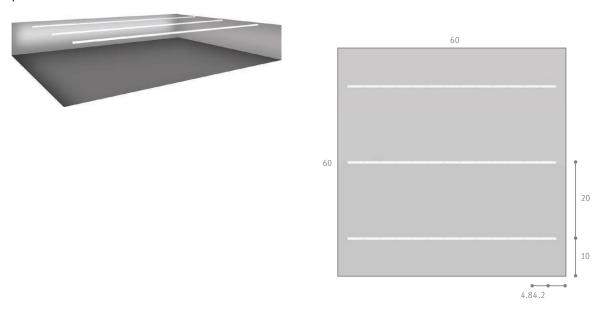
Room Type	Wall-Washer	Open Office	Public Library
71		Open Office	rublic Library
Wall Size	20 x 9'	_	-
Isle Size	_	_	14 x 7.4'
Set Back	3'	_	3.35'
Room Size	20 x 20'	60 x 60'	14 x 14'
Ceiling Height	9'	9'	9'
Catalogue Number	DP25-1L35K-4-L3	DR25-2L35K-4-L2	DR25-2L35K-4-L2
Number of 4' Luminaires	1 run @ 16'	3 runs @ 52'	1 run @ 12'
Watts/4' luminaires	24W	38W	35W
Lumens/4' luminaires	2316	3738	3086
Avg. Vertical/Stack/Wall Light Level	27 FC	18 FC	21.2 FC
Avg. Horizontal/Floor Light Level	_	35 FC	31 FC
Spacing	_	20' OC	-
Lighting Power Density	0.24 W/ft ²	0.41 W/ft ²	0.54 W/ft ²

Wall Washer





Open Office



Public Library





LED VS. FLUORESCENT ENERGY SAVINGS

4' DR25 Lens-Free Luminaire

Light Level	Wattage	Lumens Delivered	Efficacy (LPW)	Fluorescent Equivalent	Energy Savings*
L1	28	2423	87	1T8/1T5	29%
L2	35	3086	87	2T8/2T5	43%
L3	48	4431	92	1T5HO	20%
L4	97	8482	87	2T5H0	19%

4' DP25 Lens-Free Luminaire

Light Level	Wattage Lumens Delivered		Efficacy (LPW)	Fluorescent Equivalent	Energy Savings*
L1	14	1267	91	1T8	64%
L2	17	1613	93	1T8/1T5	55%
L3	24	2316	97	2T5/1T5HO	61%
L4	48	4434	92	2T5H0	60%

^{*} Energy Savings based upon standard lamp/ballast combination using an equivalent high efficient FL system.

SYSTEM ENERGY & MAINTENANCE SAVINGS



Payback Analysis Average Annualized Savings Per Year

Annual Energy Savings	\$840
Annual Lamp Maintenance Savings	\$1,916
Annual Combined Savings	\$2,756
Cost of Waiting (Monthly)	\$230
Simple Payback (years)	1.84
IRR (%)	54%
10 Year Cash Flow (Energy & Lamp Maintenance)	\$22,491

System Energy & Maintenance Cost Summary

	LED	Traditional
Total Initial Fixture/Installation Cost	\$27,300	\$22.230
Total System kW	2.76	4.68
Annual kWh	10,078	17,082
Cost of Energy per kWh	\$0.120	\$0.120
kWh Inflation Rate (%/yr)	0.00%	0.00%
Average Annual Energy Cost	\$1,209	\$2,050
Average Annual Maintenance Cost	\$0	\$1,916
Average Annual Energy & Maintenance Costs	\$1,209	\$3,966
Average Annual Energy & Maintenance Savings	\$2,756	

		Sav	vings	Cost/year		
		Annual	Cumulative	LED	Traditional	
	1st Year	\$840	\$840	\$1,209	\$2,050	
5th	5th Year	\$2,756	\$8,711	\$1,209	\$3,966	
	10th Year	\$2,756	\$22,491	\$1,209	\$3,966	

Cost
Savings LED Traditional
10 Year Total \$27,561 \$12,094 \$39,655

Study Perimeters: Room Size: 60' X 60' | Ceiling Height: 9' | 6 runs @ 52' with 10' OC | Reflectance: 80/50/20 | # of fixtures: 78 | LLF is 0.8

*** Calculation is based on actual LED fixture used in comparison to a 2-T5 FL fixture. Assumptions are \$0.12 per KWh and 10 operating Hours/day (10h @ full power). These are estimated savings only. Annual and monthly savings are based on a number of variables and assumptions that could change over time. The actual savings derived by our firm may be higher or lower. Metalumen's business does not imply a warranty of performance or savings as calculated and shown within this document.



COMPETITION COMPARISONS

Open Office Space Room Size: 60 X 60' Ceiling Height: 9' 6 runs @ 52' with 10' OC

Delivered Lumens 2423 2002 Input Power (Watts) 28 19.2 Delivered LPW 87 104 Watts/Sq.Ft. 0.60 0.42 Horizontal Avg. Fc 43 34 Horizontal Max Fc 57 45 Horizontal Min Fc 13 11 Min/Max 0.23 0.24 Vertical Avg. Fc 21 16

Metalumen DR25.4.L.2

Metalumen DR25.2.1.35K.4.L.2

Competitor F

Input Power (Watts) 35.4 49 Delivered LPW 87 59 Watts/Sq.Ft. 0.77 1.0 Horizontal Avg. Fc 55 52	19
Watts/Sq.Ft. 0.77 1.0	.1
	1
Horizontal Avg. Ec. 55 52	06
TIOTIZOTICAL TWS. TC	
Horizontal Max Fc 72 72)
Horizontal Min Fc 17 15	
Min/Max 0.24 0.2	21
Vertical Avg. Fc 27 23	i

Whiteboard/Art Piece: 12 x 4'
Room Size: 20 x 20'
Ceiling Height: 9'
of fixtures: (4) 1 run @ 16'

Delivered Lumens

Metapunic 22.2.2. Competito

1267 1510

14 23.8

91 63

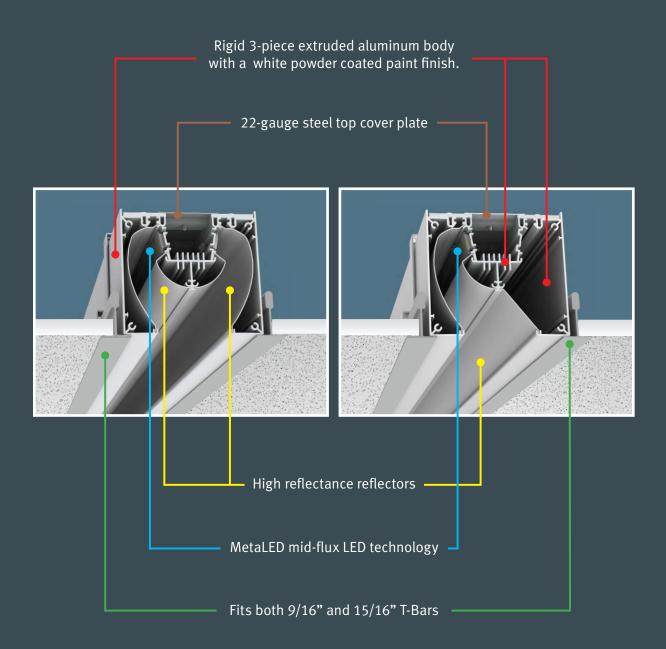
0.14 0.24

24 24

Input Power (Watts) Delivered LPW Watts/Sq.Ft. Vertical Avg. Fc 24 24 Vertical Max Fc 27 32 Vertical Min Fc 13 16 Min/Max 0.41 0.59 CRI 83 80

Metalumen DP25-4-12
Competitor D

Delivered Lumens	1613	1869
Input Power (Watts)	17.5	29.9
Delivered LPW	92	63
Watts/Sq.Ft.	0.18	0.30
Vertical Avg. Fc	31	30
Vertical Max Fc	41	34
Vertical Min Fc	17	20
Min/Max	0.41	0.59
CRI	83	80



The DR/DP series has been engineered to seamlessly integrate into any T-Bar ceiling system with ease. Whether it is a perimeter system, middle or just a simple wall-washer installation, DR/DP luminaires will integrate into the space hiding in the architecture of the space. With almost 40 years of lighting experience, the Metalumen DR/DP series add a new dimension to perimeter, ambient and wall-washing applications. The DR/DP series provides uniform illumination from wall to wall allowing tremendous design flexibility in any system.

STANDARD LENGTHS



STANDARD FINISHES



Custom finishes available. Specify RAL# in spec sheet.

ORDERING LOGIC

Sample part number

Model	Color Temp	Length (Optics Optics Up Down	Finish LL/Driver Circuitry	y Mounting Voltage Controls
Model		Length	Optics Up	Light Level (LL) / Driver	Voltage
DP25 =	Perimeter	2 = 2 ft	N = None (leave space empty)	Fixture Lumens Light level measured at 3500K.	1 = 120 V
DR25 =	Downlight	4 = 4 ft	Optics Down	Add 3% lumen output for 4000K or subtract 2% lumen output for 3000K.	2 = 277 V
Color Temp		8 = 8 ft	N = None - Open (leave space empty)	0-10V Dimming 3500k	3 = 347 V
1L30K =	3000K	R = Continuous Rows	Finish	(Standard) DP25 DR25 L1 = 1267 2423	4 = UNV (120 - 277 V)

Col	or Temp	8 = 8 ft	N = None - Open (leave space empty)		0-10V Dimming		00k	3 = 347 V
	1L30K = 3000K	R = Continuous Rows	Finish		(Standard)	DP25 1267		4 = UNV (120 - 277 V)
only o	1L35K = 3500K		B = Black				3086	Controls
DP25	1L40K = 4000K		SA = Satin Aluminum			2316 4434		N = None
	1LTUN = 2-White Tunable (2700 - 6500K)		W = White		Based on 4ft sections.			X = Module to DMX *
	2L30K = 3000K		C = Custom Finish Specify RAL#:	•	Circuitry			V = Module to 2-dimmers *
5 only	2L35K = 3500K				1 = 1 Circui	it		*Available with 2-White Tunable option only
DR25	2L40K = 4000K			ı	Mounting			
	2LTUN = 2-White Tunable (2700 - 6500K)				T = Recess	ed T-B	ar	

APPROVALS

Conforming to NRTL safety and IES recommendation testing standards. All components are UL/CSA/QPS recognized or listed. RoHS, LM79, LM80 and LM82 compliant.

ENVIRONMENT

Suitable for dry locations.

WARRANTY

Metalumen will warrant defective luminaires for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specification. If defective, Metalumen will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.











DR25 & DP25 Series **LED Linear Recessed Luminaire**

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