Rail 1 RML (Formerly Caledonia)



ORDERING LOGIC

	Optics							
RML	M						\geq	
Series Color Temp	Length Up Down	Finish	LL/Driver	Circuit	try Mounting	Voltage	Control	Options
Color Temp	Optics Up	Light Leve	el (LL) / Dr	iver *	Circuitry		Volt	age
1L30K = 3000K	<pre>— = None (leave space empty)</pre>	Fixtu	re Lumens	5	1 = 1 Circuit		1 = 120 V	
1L35K = 3500K	Optics Down	*Light level measured at 3500K. Add 3% lumen output for 4000K or subtract 2% lumen output for 3000K. 0-10V Dimming Lumens Wattage (ficacy)			B = Battery Pack (remote mounted)		2 = 277 V	
1L40K = 4000K	M = Meta Ice				Mounting - Recessed		3 = 347 V	
Length	Finish	(Standard) De	elivered Wat 1355 13	(LPW)	D = Drywall Flanged **		4 = UNV (120-277 V)	
2 = 2 ft	SA = Satin Aluminum		1726 17 2474 2		DF = Drywall Flange	eless **	For other voltage	e, consult factory
4 = 4 ft	W = White	L4 4742 48 99 Based on 4ft sections. * All drivers remote mounted Lumen Adjustment Factor Color Temp 80 CRI 90 CRI			T = T-Bar Flanged		Control	
8 = 8 ft	C = Custom Finish Specify RAL#:			See DF & T cross sections on p.2		_ = None (leave space empty)		
12 = 12 ft					** Horizontal or vertical mount		Options	
R = Continuous Rows (Consult factory)		3000K 3500K		0.873 0.875			90 = 90 CRI	
(4000K	1.032	0.879			_ = None (lea	ave space empty)

SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

Housing: Anodized Extruded Aluminum 65% post-industrial recycled content with a 20 Gauge steel die cast onboard hangers, complete with die cast zinc alloy powder coated end caps.

Optical System: Computer modeled, formed painted steel materials are utilized to provide wide, horizontal direct distribution.

CRI: 83 (3500K) (80 minimum)

Lumen Maintenance: At an ambient operating temperature of 35°C the LED lifetime expectancy =< 60 000hrs at L70. Finish: Satin Aluminum and white are standard options. For custom finish, contact factory.

Weight: 1.0lb/ft or 0.5kg/300mm. Mounting: Mounting brackets/clips provided. Recessed T-Bar fits 15/16" T-Bar. • LTEA2W Hi-lume 1% 2-wire LED Driver Drivers: Metalumen offers dimming drivers • LDE1 Hi-lume 1% -H EcoSystem LED Driver

as a standard on our entire LED product offering at 0-10V. Dimming is 10%-100% range Power factor is <90% with a Class 2 rating. All drivers remote mounted. Lutron Driver Options: Consult factory for Lutron driver options:

- L3DAE Hi-lume 1% EcoSystem LED Driver
- L3DA3W Hi-lume 1% 3-wire LED Driver

Date

• LDE5 5-Series EcoSystem LED Driver Approvals: Certified to NRTL and IES testing standards. All components are UL Recognized or Listed. RoHS compliant. Environment: Suitable for dry or damp indoor 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.

APPROVALS Signature

FILE NAME: RML_D_DF_T_SPEC_SHEET

20180103

570 Southgate Drive, Guelph, Ontario N1G 4P6 Mailing Address: P.O. Box 1779 Guelph, Ontario, N1H 6Z9

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FEATURES



COMMERCIAL // Commercial Lighting - With over 30 years of successful architectural lighting,

providing unique concept and installation solutions has become second nature. Metalumen's Start to End Development Process results in unique performance, design and architectural requirements from concept through implementation. Metalumen's Lighting Solutions have been applied to customer projects requiring: high profile architectural installations; improved energy efficiency; retrofit installations; unique installations. Metalumen can provide dedicated to this by creating sustainable top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their

MOUNTING

level of involvement in Metalumen's Start to End Development Process.

> EDULUMEN // Educational Lighting Edulumen is a collection of premium luminaires that maximize

both the functionality and performance of any educational facility. Based on maximum efficiency, integration of controls and exceptional design, Edulumen will earn high marks for meeting your requirements. Students challenge themselves throughout the day to achieve, and Metalumen is environments that foster enhanced educational experiences.

MEDILUMEN // Healthcare Lighting MetalCE METAICE is a smooth Н Every product in our broad line of healthcare luminaires has been

strategically engineered to meet modern healthcare demands while addressing patient needs and aesthetic requirements.

META ICE is a smooth Continuum meta 🗬 Optical System with a 91%

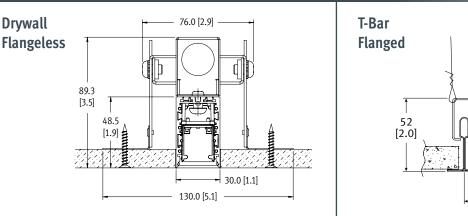
transmission rate that creates smooth subdued lighting with no source imagery. Meta Ice is a premium lensing optic unique to Metalumen but coupled with a high performance side kicking specular reflector to maximize the lumens from the source creating an unparalleled lumen delivery.

Continuum Optical System with a 91% transmission rate that creates smooth subdued lighting with no source imagery. Meta Ice is a premium lensing optic unique to Metalumen but coupled with a high performance side kicking specular reflector to maximize the lumens from the source creating an unparalleled lumen deliverv.

M E T A LED boards with a raw efficacy of \subseteq over 120lm/W, proprietary to Metalumen. A slim LED platform for any of your LED linear application.

91

[3.6]



PHOTOMETRIC DATA - 3500K



File Name: Luminaire Lumens: Total Watts: Efficacy: Optics Up: Optics Down:

RML-1L35K-4-M-L3 2474 23.89 104 lms/W None Meta Ice

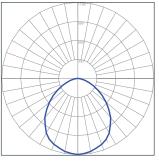
COEFFICIENTS OF UTILIZATION

Zonal Cavity Method

Effective Floor Cavity Reflectance = .20

RC		80			70				50		
RW	70	50	30	10	70	50	30	10	50	30	10
RCR											
0	119	119	119	119	116	116	116	116	111	111	111
1	110	106	102	99	108	104	101	97	100	97	94
2	101	94	88	83	99	92	87	82	89	84	80
3	93	84	77	71	91	82	76	70	79	74	69
4	86	75	67	61	84	74	66	61	72	65	60
5	80	68	60	54	78	67	59	53	65	58	53
6	74	62	53	47	72	61	53	47	59	52	47
7	69	56	48	42	67	56	48	42	54	47	42
8	64	52	44	38	63	51	43	38	50	43	38
9	60	48	40	35	59	47	40	35	46	39	34
10	57	44	37	32	56	44	37	32	43	36	32

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical	Horizontal Angle						
Angle	0	45	90				
45	25946	10005	7102				
55	21406	6533	4374				
65	16400	3798	2487				
75	11151	1679	999				
85	4655	265	141				

CANDLE DISTRIBUTION

40 [1.6]→

56 [2.2]

- 26 -

[1.0]

Vertical Angle	Horizontal Angle 0.0 22.5 45.0 67.5 90.0								
0	1198.56	1198.56	1198.56	1198.56	1198.56				
5	1185.28	1188.29	1180.71	1159.37	1160.16				
10	1168.45	1157.07	1156.57	1157.79	1146.76				
15	1134.22	1139.52	1106.47	1102.72	1091.57				
20	1102.74	1079.88	1045.02	1012.54	997.22				
25	1058.18	1030.58	975.67	917.09	909.88				
30	991.54	951.67	882.05	813.58	792.66				
35	896.48	862.78	776.76	708.14	677.98				
40	807.88	758.87	663.37	592.01	575.57				
45	694.07	656.64	558.79	495.86	478				
50	584.99	542.47	457.19	400.79	384.46				
55	472.14	436	364.33	317.22	301.94				
60	369.28	336.8	280.47	243.59	233.04				
65	273.75	252.87	205.07	175.18	170.78				
70	189.77	174.03	139.42	118.49	115.03				
75	120.66	107.55	84.9	71.32	66.17				
80	63.68	54.82	39.87	33.7	30.75				
85	21.51	17.62	12.08	9.75	8.68				
90	4.7	2.44	1.48	.84	1.06				

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