Rail 1 RML (Formerly Caledonia) LED . Recessed T-Bar	CAT #:
IIDEX	PREP BY:
DROP LENS DAMP SILVER	DATE:
LENS DAMP SILVER	PROJECT:
26[1.0]	TYPE:
52 [2.0]	NOTES:

ORDERING LOGIC

Example Part Number: RML-1L35K-12-MC-W-L31-T-1-90

		Optics							
RML	_					Т			
Series	Color Temp Length / I	Pattern Up Down	Finish	LL/Driver Ci	ircuitry	Mounting	Voltage	Controls	Options
Color Temp	Length / Pattern	Optics Up	Li	ght Level (LL) / Driv	er	Cir	cuitry	Cor	ntrols
1L30K = 3000K	4 = 4 ft	= None (leave space empty)	1	rformance at 3500 OV Dimming (Standar		1 = 1 Circ	cuit	_ = None (leave s	pace empty)
1L35K = 3500K	8 = 8 ft	Optics Down	A	Il drivers remote mounted		B = Batte	ry Pack te mounted)	Ор	tions
1L40K = 4000K	12 = 12 ft	MC = Meta Cloud	Optics L	ight Lumens evel Delivered Wattage	(LPW)	Mo	ounting	90 = 90 CRI	
	R = Continuous Rows Consult factory	MD = Drop Lens**		L1 1280 13.8 L2 1578 17.6	92 89	T= Reces	ssed T-Bar	_ = None (leave s	pace empty)
	G = Square / Rectangle	Finish		L3 2108 24.2 L4 3882 48.3	87 80	Vo	oltage		
	U = U-Shape	SA = Satin Aluminum		L1 1357 13.8 L2 1675 17.6 L3 2235 24.2	98 95 93	1 = 120 V	/		
	L = L-Shape	W = White		L4 4119 48.3	85	2 = 277 V	1		
	C = Custom Pattern* Enter pattern dimensions on page 2		Based on 4ft sections. Lumen Adjustment Factor			3 = 347 V	/		
			Colo	r Temp 80 CRI 90	CRI	4 = UNV ((120 - 277 V)		
			35	000K 0.984 0.8 500K 1.000 0.8	375	For other volta	age, consult factory		
			40	000K 1.032 0.8	379				

^{*} Consult factory for custom patterns, including X and T patterns. | ** Not available with patterns.

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: Recessed T-Bar fits 15/16" T-Bar.

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
- LTEA2W Hi-lume 1% 2-wire LED Driver
- Drivers: Metalumen offers dimming drivers LDE1 Hi-lume 1% -H EcoSystem LED Driver

www.metalumen.com

• 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.

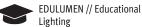
WARRANTY

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.

PPROVALS	Signature	Date
NEEKUVALS	Signature	Date

FEATURES





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 dedicated to this by creating sustainable environments that foster enhanced educational experiences.

MEDILUMEN // Healthcare Lighting
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 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.

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high performance side kicking specular reflector to maximize the lumens from the source creating an unparalleled lumen delivery.

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



PATTERNS

	Square (G)	Rectangle (G)	U-Shape (U)	L-Shape (L)	
Select Pattern					
Pattern Configuration	Į A	A A	⊢ B → C C C C C C C C C C C C C C C C C C		
Indicate Desired	A =	A =	A = B =	A =	
Lengths (ft)	A -	B =	C =	B =	
Minimum Lengths	4' for all sides		A = 3', B = 4', C =3'	A = 3', B = 3'	

Record drawings will be sent out upon order showing mounting locations.



PHOTOMETRIC DATA - 3500K

Meta Cloud

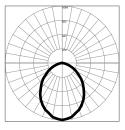
File Name: RML-1L35K-4-MC-L3 Luminaire Lumens: 2108 Total Watts: 24.2 Efficacy: 87 lms/W

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method | Effective Floor Cavity Reflectance = .20

RC	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	100	97	100	97	94
2	101	94	88	83	99	92	87	82	89	84	80
3	93	84	76	71	91	82	75	70	79	74	69
4	86	75	67	61	84	74	66	61	71	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	65	52	44	38	63	51	44	38	50	43	38
9	60	48	40	35	59	47	40	35	46	39	35
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	20944	8413	6170				
55	17284	5707	3942				
65	13923	3400	2161				
75	9716	1538	930				
85	4415	251	142				

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angle							
	0	22.5	45	67.5	90			
0	1093.56	1093.56	1093.56	1093.56	1093.56			
5	1073.75	1072.5	1053.04	1048.58	1073.76			
10	1052.87	1051.05	1030.63	1016.15	1012			
15	992.33	991.9	985.01	955.83	937.07			
20	950.71	929.92	893.99	868.22	870.58			
25	886.96	859.88	822.78	782.09	764.22			
30	814.97	784.78	740.08	692.76	673.11			
35	735.91	700.05	645.9	594.7	583.57			
40	640.54	619.64	553.2	506.18	496.77			
45	560.26	530.37	469.9	430.17	415.27			
50	476.81	444.78	389.8	353.3	335.93			
55	381.23	362.17	318.26	283.23	272.11			
60	306.71	282.55	247.82	219.4	209.51			
65	232.4	214.21	183.6	158.25	148.41			
70	163.26	151.24	128.01	108.46	104.24			
75	105.13	95.36	77.79	64.86	61.6			
80	54.75	49.36	37.19	32.11	29.44			
85	20.4	17.14	11.47	8.87	8.77			
90	4.44	2.24	1.03	.88	.85			

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	374.28	17.70
0-30	752.82	35.60
0-40	1159.79	54.90
0-60	1819.67	86.10
0-80	2093.88	99.10
0-90	2112.37	100.00
10-90	2011.67	95.20
20-40	785.52	37.20
20-50	1155.79	54.70
40-70	846.76	40.10
60-80	274.21	13.00
70-80	87.33	4.10
80-90	18.49	0.90
90-110	0.00	0.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
110-180	0.00	0.00
0-180	2112.37	100.00

Drop Lens

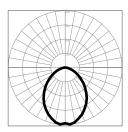
File Name: RML-1L35K-4-MD-L3 Luminaire Lumens: 2235 Total Watts: 24.2 Efficacy: 93 lms/W

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method | Effective Floor Cavity Reflectance = .20

RC			30				70			50	
RW	70	50	30	10	70	50	30	10	50	30	10
RCR											
0	117	117	117	117	113	113	113	113	105	105	105
1	106	101	96	92	102	97	93	90	91	88	85
1 2 3	96	88	81	75	93	85	79	73	80	75	70
3	88	77	69	63	84	75	67	61	70	64	59
4	81	69	60	53	77	67	59	52	63	56	51
4 5	74	62	53	46	71	60	52	45	57	49	44
6	69	56	47	41	66	54	46	40	51	44	39
7	64	51	42	36	61	49	41	35	47	40	35
8	59	46	38	32	57	45	37	32	43	36	31
9	56	43	34	29	54	42	34	29	40	33	28
10	52	39	32	26	50	38	31	26	37	30	26

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical	Horiz	Iorizontal Angle				
Angle	0	45	90			
45	15096	6174	5141			
55	12506	4546	3847			
65	9742	3220	2819			
75	6845	2134	1936			
85	4256	1383	1350			

CANDELA DISTRIBUTION

Vertical Angle	l Horizontal Angle				
	0	22.5	45	67.5	90
0	827.1	827.1	827.1	827.1	827.1
5	848.29	844.47	838.02	837.63	817.63
10	825.7	811.29	810.61	800.87	786.88
15	782.12	776.86	757.59	743.58	729.38
20	738.66	729.83	707.99	692.13	683.53
25	682.12	672.5	647.44	634.04	622.89
30	624.2	616.07	593.83	574.77	564.57
35	560.56	548.21	528.7	523.74	522.08
40	488.87	481.83	473.17	475.33	480.6
45	418.47	418.41	419.74	436.16	436.57
50	352.75	360.14	372.83	386.38	392.56
55	281.42	298.89	328.42	343.55	346.1
60	225.15	246.8	276.47	296.07	304.21
65	169.58	198.36	228.71	249.97	257.48
70	123.09	151.81	189.32	210.77	217.96
75	76.32	111.38	149.04	172.12	174.22
80	45.49	76.52	120.14	137.96	144.32
85	20.28	52.13	93.88	110.61	115.02
90	7.58	39.02	76.89	92.84	100.16

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	292.69	13.10
0-30	593.26	26.50
0-40	928.92	41.50
0-60	1545.49	69.00
0-80	1917.31	85.60
0-90	2008.69	89.70
10-90	1929.92	86.20
20-40	636.23	28.40
20-50	964.99	43.10
40-70	838.69	37.50
60-80	371.82	16.60
70-80	149.70	6.70
80-90	91.38	4.10
90-110	115.58	5.20
90-120	157.49	7.00
90-130	189.12	8.40
90-150	222.82	10.00
90-180	230.09	10.30
110-180	114.51	5.10
0-180	2238.78	100.00