Rail 1 RML (F LED. Recessed	ormerly Caledo	nia)	CAT #:
LLD. Necesseu	11	DEX	PREP BY:
		on Canada 1 AWARD	DATE:
		ILVER	PROJECT:
26[1.0]			ТҮРЕ:
	19 (0.75)		NOTES:
Meta Cloud	Drop Lens		

ORDERING LOGIC

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

		Optics					
RML						DF	
Series	Color Temp Length / Pa	attern Up Down	Finish	LL/Driver	Circuitry	Mounting Voltage Co	ontrols Options
Color Temp	Length / Pattern	Optics Up		Light Level (LL)	/ Driver	Circuitry	Controls
1L30K = 3000K	4 = 4 ft	<pre>_ = None (leave space empty)</pre>		Performance at)-10V Dimming (St		1 = 1 Circuit	-= None (leave space empty)
1L35K = 3500K	8 = 8 ft	Optics Down		All drivers remote m		B = Battery Pack (remote mounted)	Options
1L40K = 4000K	12 = 12 ft	MC = Meta Cloud	Optics	Level Delivereu	vattage (LPW)	Mounting	90 = 90 CRI
	R = Continuous Rows Consult factory	MD = Drop Lens **	мс	L2 1578	13.8 92 17.6 89	DF = Recessed Drywall Flangeless	<pre>_ = None (leave space empty)</pre>
	G = Square / Rectangle	Finish		L4 3882	24.2 87 48.3 80	Voltage	
	U = U-Shape	SA = Satin Aluminum	MD	L2 1675	13.8 98 17.6 95	1 = 120 V	
	L = L-Shape	W = White		L4 4119	24.2 93 48.3 85	2 = 277 V	
	C = Custom Pattern*	C = Custom Finish Specify RAL#:		Based on 4ft sect		3 = 347 V	
	Enter pattern dimensions on page 2			Lumen Adjustmen olor Temp 80 CRI	90 CRI	4 = UNV (120 - 277 V)	
				3000K 0.984 3500K 1.000	0.873		
				4000K 1.032	0.879	For other voltage, consult factory	,

* Consult factory for custom patterns, including X and T patterns. | ** Drop lens is 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: Mounting brackets/clips provided.

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
- LTEA2W Hi-lume 1% 2-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_DF_SPEC_SHEET_20180503

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

1.800.621.6785 | T 519.822.4381 | F 519.822.4589 www.metalumen.com Metalumen SPECIFICATION SHEET | PAGE 1

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 top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their level of involvement in Metalumen's Start to End Development Process.

PATTERNS



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.

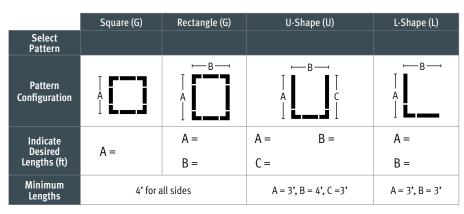
MetalCE META ICE is a smooth

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.



DAMP Suitable for dry or damp locations.



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

FILE NAME: RML_DF_SPEC_SHEET_20180503



PHOTOMETRIC DATA - 3500K

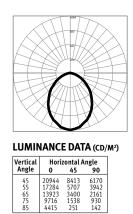
Meta Cloud

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

COEFFICIENTS OF UTILIZATION

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 3	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
4 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	<u>32</u>	43	36	<u>32</u>

PHOTOMETRIC CURVE



CANDELA DISTRIBUTION

Vertical Horizontal Angle Angle 22.5 45 67.5 90 ۵ 1093.56 1093.56 1093.56 1093.56 1093.56 0 1073.75 1072.5 1053.04 1048.58 1073.76 1052.87 1051.05 1030.63 1016.15 1012 992.33 991.9 985.01 955.83 937.07 $5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 35 \\ 40 \\ 45 \\ 55 \\ 60 \\ 55 \\ 60 \\ 75 \\ 80 \\ 85 \\ 90 \\$ 991.9 985.01 929.92 893.99 859.88 822.78 784.78 740.08 868.22 950.71 870.58 886.96 814.97 782.09 692.76 764.22 673.11 735.91 640.54 700.05 619.64 645.9 553.2 594.7 506.18 430.17 583.57 496.77 560.26 476.81 381.23 306.71 530.37 469.9 415.27 444.78 362.17 282.55 409.9 389.8 318.26 247.82 450.17 353.3 283.23 219.4 415.27 335.93 272.11 209.51 247.82 183.6 128.01 77.79 37.19 11.47 1.03 232.4 163.26 214.21 151.24 158.25 108.46 148.41 104.24 95.36 49.36 17.14 2.24 64.86 32.11 8.87 .88 105.13 61.6 29.44 8.77 .85 54.75 20.4 4.44

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	374.28	17.70
0-30	752.82	35.60
	1159.79	54.90
	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

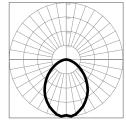
Drop Lens

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

COEFFICIENTS OF UTILIZATION

RC		80				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
2	96	88	81	75	93	85	79	73	80	75	70
2	88	77	69	63	84	75	67	61	70	64	59
4	81	69	60	53	77	67	59	52	63	56	51
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 Horizontal 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	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		110.61	115.02	
90	7.58	39.02	76.89	92.84	100.16	

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
	292.69	
	593.26	
	928.92	
0-60	1545.49	69.00
0-80	1917.31	
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
	114.51	5.10
0-180	2238.78	100.00

FILE NAME: RML_DF_SPEC_SHEET_20180503

