

# Stail RMEP6

LED . Pendant

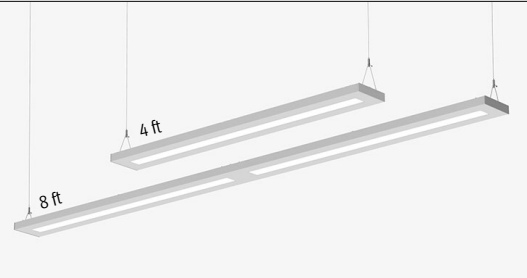
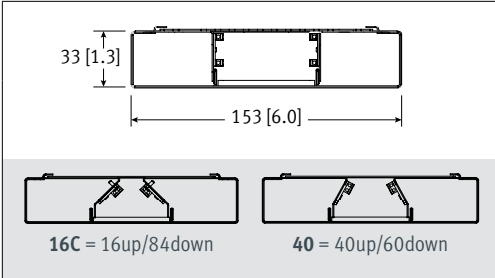


MetaICE

META



CAT #:
PREP BY:
DATE:
PROJECT:
TYPE:
NOTES:



## ORDERING LOGIC

Example part number: RMEP6-L35K-8-ODCM-SG-L31-PA-4-D-90

Model	Optics																																													
RMEP6				M																																										
Series	Color Temp	Length	Up	Down	Finish	LL/Driver	Circuitry	Mounting	Voltage	Controls	Options																																			
<b>Color Temp</b>	<b>Optics Up</b>		<b>Light Level (LL) / Driver</b>				<b>Circuitry</b>		<b>Voltage</b>																																					
2L30K = 3000K	40 = No Optics Angled Reflector (40up/60down)		Fixture Lumens Light level measured at 3500K. See p7 for additional info.				1 = 1 Circuit		1 = 120 V																																					
2L35K = 3500K	16C = Clear Optics Angled Reflector (16up/84down)		<table border="1"> <thead> <tr> <th rowspan="2">0-10V Dimming (Standard)</th> <th colspan="5">Optics (up/down)</th> </tr> <tr> <th>40/M (40u/60d)</th> <th>16C/M (16u/84d)</th> <th>73/M (73u/27d)</th> <th>C/M (65u/35d)</th> <th>ODC/M (55u/45d)</th> </tr> </thead> <tbody> <tr> <td>L1</td> <td>2987</td> <td>2817</td> <td>3178</td> <td>3068</td> <td>2842</td> </tr> <tr> <td>L2</td> <td>3804</td> <td>3586</td> <td>4046</td> <td>3906</td> <td>3619</td> </tr> <tr> <td>L3</td> <td>5462</td> <td>5148</td> <td>5811</td> <td>5610</td> <td>5197</td> </tr> <tr> <td>L4</td> <td>10452</td> <td>9854</td> <td>11121</td> <td>10733</td> <td>9945</td> </tr> </tbody> </table>				0-10V Dimming (Standard)	Optics (up/down)					40/M (40u/60d)	16C/M (16u/84d)	73/M (73u/27d)	C/M (65u/35d)	ODC/M (55u/45d)	L1	2987	2817	3178	3068	2842	L2	3804	3586	4046	3906	3619	L3	5462	5148	5811	5610	5197	L4	10452	9854	11121	10733	9945	EM = Emergency/Night Light*		2 = 277 V		
0-10V Dimming (Standard)	Optics (up/down)																																													
	40/M (40u/60d)	16C/M (16u/84d)	73/M (73u/27d)	C/M (65u/35d)	ODC/M (55u/45d)																																									
L1	2987	2817	3178	3068	2842																																									
L2	3804	3586	4046	3906	3619																																									
L3	5462	5148	5811	5610	5197																																									
L4	10452	9854	11121	10733	9945																																									
2L40K = 4000K	73 = No Optics Straight Reflector (73up/27down)		Based on 4ft sections.				B = Battery Pack* (Remote mounted)		4 = UNV (120-277V)																																					
<b>Length</b>	C = Clear Optics Straight Reflector (65up/35down)		<table border="1"> <thead> <tr> <th colspan="3">Lumen Adjustment Factor</th> </tr> <tr> <th>Color Temp</th> <th>80 CRI</th> <th>90 CRI</th> </tr> </thead> <tbody> <tr> <td>3000K</td> <td>0.984</td> <td>0.873</td> </tr> <tr> <td>3500K</td> <td>1.000</td> <td>0.875</td> </tr> <tr> <td>4000K</td> <td>1.032</td> <td>0.879</td> </tr> </tbody> </table>				Lumen Adjustment Factor			Color Temp	80 CRI	90 CRI	3000K	0.984	0.873	3500K	1.000	0.875	4000K	1.032	0.879	<b>Mounting</b>		<b>Controls</b>																						
Lumen Adjustment Factor																																														
Color Temp	80 CRI	90 CRI																																												
3000K	0.984	0.873																																												
3500K	1.000	0.875																																												
4000K	1.032	0.879																																												
4 = 4 ft	ODC = Opal Optics Straight Reflector(55up/45down)						PA = Pendant Aircraft Cable		= None (leave space empty)																																					
8 = 8 ft	<b>Optics Down</b>						PT = Pendant Aircraft Cable for T-Bar		D = Daylight Sensor																																					
R = Continuous Rows See p.3	M = Meta Ice						Select CABLE LENGTH and HANGER FINISH on p.2		O = Occupancy Sensor																																					
	<b>Finish</b>								DO = Daylight/Occupancy Sensor																																					
	SG = Silver/grey textured coat								<b>Options</b>																																					
	WT = White Textured								90 = 90 CRI																																					
	C = Custom Finish Specify RAL#:								= None (leave space empty)																																					

\* two wire entries required.

## SPECIFICATIONS

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

**Housing:** Cold rolled steel body fabrication, 0.91mm (20 Ga.) wall thickness.

**Optical System:** MetalLED mid flux LED technology.

**CRI:** Minimum 83 CRI at 3500K

**Lumen Maintenance:** At an ambient operating temperature of 25°C the LED lifetime expectancy => 50 000 hrs at L70.

**Finish:** Silver/grey textured and white textured are standard finishes. For custom

finish, consult factory.

**Weight:** 1.8 kg/300mm [4 lb/ft]

**Mounting:** Pendant: Aircraft cable with Quick-Grip field adjustable suspension system provides for quick and easy onsite alignment.

**Electrical:** Factory prewired with easy wire quick connect sections.

**Drivers:** Metalumen offers dimming drivers 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.

**Controls:** Refer to Ordering Logic chart above.

**Lutron Driver Options:** Consult factory for Lutron driver options:

- L3DAE Hi-lume 1% EcoSystem LED Driver
- L3DA3W Hi-lume 1% 3-wire LED Driver
- L3DA2W Hi-lume 1% 2-wire LED Driver

- LDE1 Hi-lume 1% -H EcoSystem LED Driver

- LDE5 5-Series EcoSystem LED Driver

**Approvals:** Certified to NRTL and IES testing standards. DLC Listed (check QPL for exact listing). All components are UL and CUL listed. RoHS compliant.

**Environment:** Suitable for dry or damp locations.

APPROVALS Signature \_\_\_\_\_

Date \_\_\_\_\_

FILE NAME: Stail\_RMEP\_LED\_SPEC\_SHEET\_20180405

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

**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.

**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.

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



**EDULUMEN // Educational Lighting**  
Edulumen is a collection of premium luminaires that maximize both the functionality and performance of any

**MetaICE** 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.

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

**HANGER**

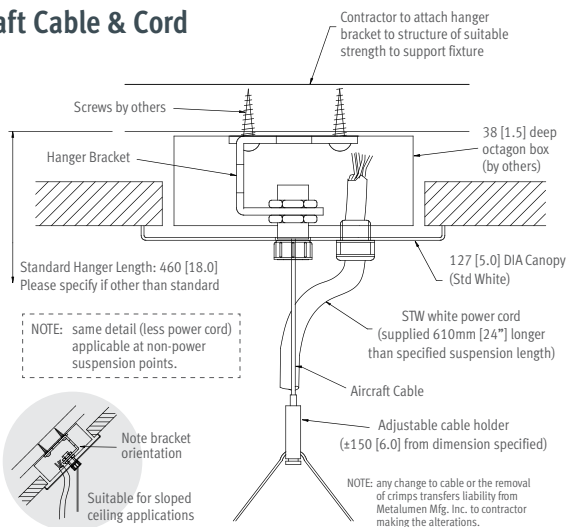
Select Hanger Length and Hanger Finish:

HANGER FINISH	
<input type="checkbox"/>	White Paint (Standard)
<input type="checkbox"/>	Custom Specify RAL#:

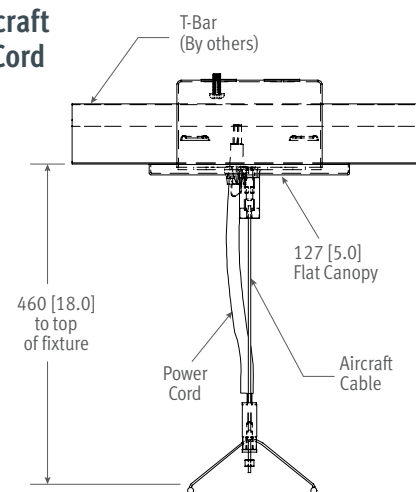
AIRCRAFT CABLE		
Total adjustment range is 6" up & down for each standard length.		
All other lengths are considered custom unless otherwise stated.		
	IMPERIAL (in)	METRIC (mm)
<input type="checkbox"/>	12	305
<input type="checkbox"/>	18	460
<input type="checkbox"/>	24	610
<input type="checkbox"/>	30	760
<input type="checkbox"/>	36	915
<input type="checkbox"/>	42	1067
<input type="checkbox"/>	48	1220
<input type="checkbox"/>	54	1372
<input type="checkbox"/>	60	1525
<input type="checkbox"/>	72	1830
<input type="checkbox"/>	96	2440
<input type="checkbox"/>	120	3050
<input type="checkbox"/>	144	3660
<input type="checkbox"/>	Custom length:	

**HANGERS**

**Aircraft Cable & Cord**

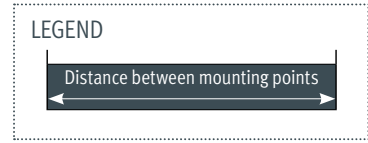
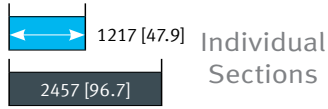


**T-Bar Aircraft Cable & Cord**



## MOUNTING - ROW CONFIGURATION

QTY	4ft	8ft	nominal run length	Actual Length
	1x		4'	1240.0 [48.8]
		1x	8'	2480.0 [97.6]

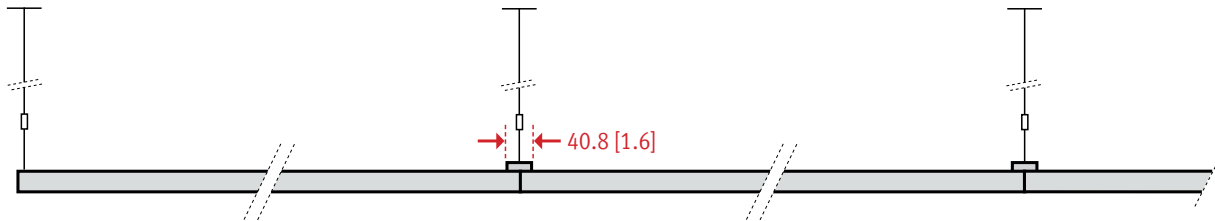


This chart is not to scale.

	1x	1x	12'	3719 [146.4]	2468 [97.2]	1228 [48.3]				
		2x	16'	4959 [195.2]	2468 [97.2]	2468 [97.2]				
	1x	2x	20'	6199 [244.1]	2468 [97.2]	2480 [97.6]	1228 [48.3]			
		3x	24'	7439 [292.9]	2468 [97.2]	2480 [97.6]	2468 [97.2]			
	1x	3x	28'	8679 [341.7]	2468 [97.2]	2480 [97.6]	2480 [97.6]	1228 [48.3]		
		4x	32'	9918 [390.5]	2468 [97.2]	2480 [97.6]	2480 [97.6]	2468 [97.2]		
	1x	4x	36'	11158 [439.3]	2468 [97.2]	2480 [97.6]	2480 [97.6]	2480 [97.6]	1228 [48.3]	
		5x	40'	12398 [488.1]	2468 [97.2]	2480 [97.6]	2480 [97.6]	2480 [97.6]	2468 [97.2]	
	1x	5x	44'	13638 [537.0]	2468 [97.2]	2480 [97.6]	2480 [97.6]	2480 [97.6]	2480 [97.6]	1228 [48.3]
		6x	48'	14878 [585.7]	2468 [97.2]	2480 [97.6]	2480 [97.6]	2480 [97.6]	2480 [97.6]	2468 [97.2]

Sections in a continuous row

For more configurations, consult factory.



PHOTOMETRIC DATA - 3500K

RMEP6 L3



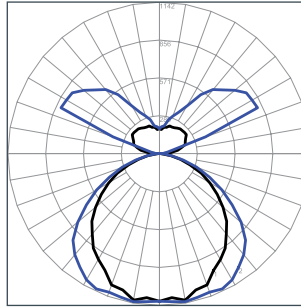
File Name: RMEP6-2L35K-4-40M-L3
Luminaire Lumens: 5464
Total Watts: 49
Efficacy: 112 lms/W
Optics Up: No Optics Angled (40% uplight)
Optics Down: Meta Ice (60% downlight)

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method
Effective Floor Cavity Reflectance = .20

Table with RCR and RW values for room dimensions 80, 70, and 50 across various angles.

PHOTOMETRIC CURVE



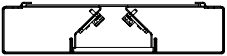
LUMINANCE DATA (CD/M²)

Table with Vertical Angle and Horizontal Angle (0, 45, 90) for luminance data.

CANDLE DISTRIBUTION

Table with Vertical Angle and Horizontal Angle (0, 22.5, 45, 67.5, 90) for candle distribution.

RMEP6 L3



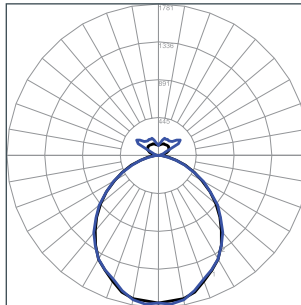
File Name: RMEP6-2L35K-4-16CM-L3
Luminaire Lumens: 5148
Total Watts: 49
Efficacy: 106 lms/W
Optics Up: Clear Dust Cover (16% uplight)
Optics Down: Meta Ice (84% downlight)

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method
Effective Floor Cavity Reflectance = .20

Table with RCR and RW values for room dimensions 80, 70, and 50 across various angles.

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Table with Vertical Angle and Horizontal Angle (0, 45, 90) for luminance data.

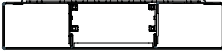
CANDLE DISTRIBUTION

Table with Vertical Angle and Horizontal Angle (0, 22.5, 45, 67.5, 90) for candle distribution.



PHOTOMETRIC DATA - 3500K

RMEP6  
L3



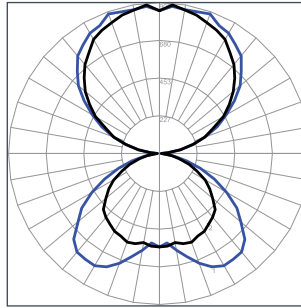
**File Name:** RMEP6-2L35K-4-ODCM-L3  
**Luminaire Lumens:** 5197  
**Total Watts:** 49  
**Efficacy:** 107 lms/W  
**Optics Up:** Opal Optics (55% uplight)  
**Optics Down:** Meta Ice (45% downlight)

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
0	106	106	106	106	97	97	97	97	81	81	81	
1	96	92	88	84	88	84	81	78	70	68	66	
2	87	80	74	68	80	73	68	63	61	57	54	
3	79	70	62	56	72	64	58	52	53	49	45	
4	72	61	53	47	66	56	49	44	47	42	38	
5	66	54	46	40	60	50	43	37	42	36	32	
6	61	49	40	34	55	45	37	32	37	32	28	
7	56	44	35	30	51	40	33	28	34	28	24	
8	52	39	31	26	47	36	29	24	31	25	21	
9	48	36	28	23	44	33	26	22	28	22	19	
10	45	33	25	20	41	30	24	19	26	20	17	

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	3443	3821	4392
55	3275	3526	3930
65	2908	2848	3029
75	2295	1852	1870
85	1465	678	640

CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	559.71	559.71	559.71	559.71	559.71
5	559.05	547.63	564.42	585.3	539.19
10	542.82	569.92	576.08	591.72	589.88
15	559.68	565.34	596.92	625.87	641.45
20	565.11	574.7	631.88	686.97	699.79
25	546.5	586.41	656.4	711.5	749.24
30	539.61	577.97	663.92	749.15	777.25
35	517.99	561.42	668.36	755.75	775.31
40	498.86	544.79	652.9	732.22	770.2
45	474.41	514.21	607.35	689.44	726.59
50	418.27	469.79	557.78	624.1	638.4
55	370.45	411.49	485.31	546.26	570.3
60	318.77	347.25	402.96	449.91	468.11
65	247.26	278.92	319.26	354.41	364.7
70	189.82	206.99	238.58	259.92	261.26
75	124.68	135.57	154.05	170.31	172.11
80	74.78	77.31	88.12	95.4	93.38
85	32.19	30.98	35.1	37.55	39
90	11.55	11.23	10.38	11.55	10.76
95	54.13	52.95	52.64	51.05	50.92
100	127.99	128.27	124.51	127.75	126.25
105	209.62	207.79	212.89	206.47	210.97
110	291.11	291.62	289.86	297.71	295.77
115	355.21	372.1	370.24	379.89	383.8
120	444.82	446.27	459.52	468.84	463.66
125	512.37	519	539.8	549.31	550.43
130	580.99	587.62	605.28	624.51	633.61
135	639.41	647.39	671.32	691.19	696.35
140	697.02	710.22	737.9	741.38	764.45
145	740	752.08	781.73	793.31	798.6
150	790.79	803.99	824.07	833.81	834.06
155	816.24	814.3	824.42	853.82	848.77
160	837.22	843.66	850.91	868.4	892.61
165	860.08	870.81	880.26	886.96	880.66
170	876.07	870.95	865.72	906.19	877.12
175	895.1	886.8	890.17	887.26	887.11
180	858.31	858.31	858.31	858.31	858.31

**OPTICS UP DISTRIBUTION PHOTOMETRICS**

Cross Section	Part Number	Delivered Lumens	Input Wattage	Efficacy LM / W	Direct Lumens	Direct %	Indirect Lumens	Indirect %	DISTRIBUTION PHOTOMETRY
---------------	-------------	------------------	---------------	-----------------	---------------	----------	-----------------	------------	-------------------------

**40 = No Optics Angled Reflector (40up/60down)**

	RMEP6-2L35K-4-40M-SG-L11-PA-1	2989	27.8	108	1797	60%	1191	40%	
	RMEP6-2L35K-4-40M-SG-L21-PA-1	3806	35.4	107	2289	60%	1517	40%	
	RMEP6-2L35K-4-40M-SG-L31-PA-1	5464	48.6	112	3286	60%	2178	40%	
	RMEP6-2L35K-4-40M-SG-L41-PA-1	10457	97.2	108	6289	60%	4168	40%	

**16C = Clear Optics Angled Reflector (25up/75down)**

	RMEP6-2L35K-4-16CM-SG-L11-PA-1	2820	27.8	102	2358	84%	462	16%	
	RMEP6-2L35K-4-16CM-SG-L21-PA-1	3590	35.4	101	3004	84%	587	16%	
	RMEP6-2L35K-4-16CM-SG-L31-PA-1	5154	48.6	106	4310	84%	844	16%	
	RMEP6-2L35K-4-16CM-SG-L41-PA-1	9866	97.2	101	8247	84%	1619	16%	

**73 = No Optics Straight Reflector (73up/27down)**

	RMEP6-2L35K-4-73M-SG-L11-PA-1	3177	27.8	114	877	27.6%	2300	72.4%	
	RMEP6-2L35K-4-73M-SG-L21-PA-1	4044	35.4	114	1115	27.6%	2929	72.4%	
	RMEP6-2L35K-4-73M-SG-L31-PA-1	5809	48.6	120	1602	27.6%	4206	72.4%	
	RMEP6-2L35K-4-73M-SG-L41-PA-1	11118	97.2	114	3065	27.6%	8052	72.4%	

**C = Clear Optics Straight Reflector (65up/35down)**

	RMEP6-2L35K-4-CM-SG-L11-PA-1	3067	27.8	110	1019	33.2%	2049	66.8%	
	RMEP6-2L35K-4-CM-SG-L21-PA-1	3905	35.4	110	1296	33.2%	2610	66.8%	
	RMEP6-2L35K-4-CM-SG-L31-PA-1	5608	48.6	115	1862	33.2%	3747	66.8%	
	RMEP6-2L35K-4-CM-SG-L41-PA-1	10731	97.2	110	3561	33.2%	7170	66.8%	

**ODC = Opal Optics Straight Reflector (55up/45down)**

	RMEP6-2L35K-4-ODCM-SG-L11-PA-1	2845	27.8	102	1283	45.1%	1562	54.9%	
	RMEP6-2L35K-4-ODCM-SG-L21-PA-1	3621	35.4	102	1633	45.1%	1988	54.9%	
	RMEP6-2L35K-4-ODCM-SG-L31-PA-1	5201	48.6	107	2346	45.1%	2854	54.9%	
	RMEP6-2L35K-4-ODCM-SG-L41-PA-1	9952	97.2	102	4495	45.2%	5457	54.8%	