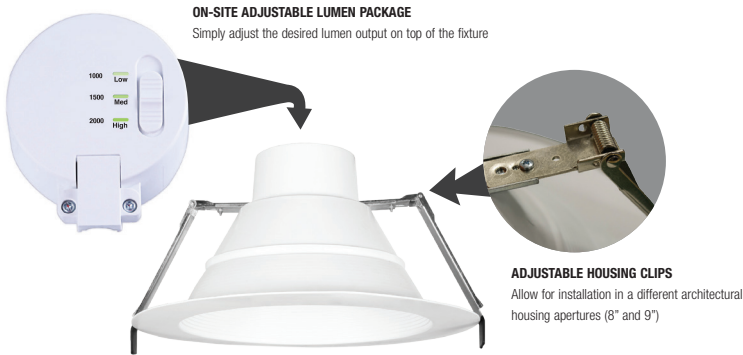


**FEATURES**

The RL series lumen-selectable baffle downlight has a shallow profile and requires no housing, making it ideal for shallow plenum ceilings. A field-adjustable lumen-selectable switch includes lumen packages in 750L/1100L/1500L (6") and 2000L/1500L/1000L (8"). The lumen-selectable switch is built-in to the top of fixture; simply lower luminaire from opening to easily adjust intensity. Adjustable housing clips allow for installation of 8" into 8" or 9" openings. Available in 6" and 8" apertures and 3 color temperatures, making it ideal for residential, retail, and healthcare applications.



LUMENS	1000/1500/2000
CCT	30K, 35K, 40K
CRI	90+
COLOR QUALITY	3 Step MacAdam Ellipses
TRIM	Aluminum die-cast body and trim
COLORS	WH (White)
EMERGENCY	EMG-LED-G-25W-HV-FLEX-EMERGENCY LED DRIVER
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
2000	2567	25W
1500	1782	16W
1000	1154	10W

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%



**OPTICS**

A regressed baffle and frosted lens provide glare-free, even illumination.

**FIELD-ADJUSTABLE LUMEN-SELECTABLE SWITCH**

Simply lower luminaire from opening and flip switch on top of the fixture to easily adjust the lumen output, allowing for precise control over the mood of any environment.

**ADJUSTABLE HOUSING CLIPS**

Allow for fast, easy installation and upgrading in a range of apertures for 8" (8" and 9") and 6" (6").

**THERMAL MANAGEMENT**

Die-cast system pulls heat from the LED module, prolonging overall lifetime.

**INSTALLATION**

No housing required. Junction box and whip come standard.

**DIMMING**

Non-dimmable.

**ELECTRICAL**

Powered by high-quality constant-current power LED drivers rated for 50 to 60Hz at 120-277V input, produce less than 20% THD, and have a power factor of .90 to 1.00.

**WARRANTY**

5-year warranty for parts and components. (Labor not included)

**LISTINGS**

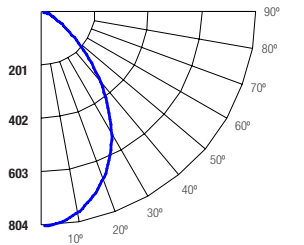
 Energy Star  
 cULus  
 Title 24  
 JA8  
 Damp Location

**EXAMPLE: RL842-1000L/1500L/2000L-MVOLT-30K-90-W-WH**

TYPE	LUMEN	VOLTAGE	CCT	CRI	FINISH
RL842	1000L/1500L/2000L	MVOLT Non-dimmable	30K 35K 40K	90+	W-WH-White

\*COMPATIBLE WITH EMG-LED-G-25W-HV-FLEX-EMERGENCY LED DRIVER

**RL842-1000L-1500L-2000L-DIMST-MVOLT-40K-90-W-WH(1000L)**

 INPUT WATTS: **10**    LUMENS:1154    CRI: **90**    EFFICACY: **112**    CCT: **4000K**    TEST NO.: **EL05072012**    SPACING CRITERIA: **1.08**
**Candle Power Distribution (Candelas)**

**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	279.59	24.2	24.2
0-30	558.96	48.5	48.5
0-40	830.32	72	72
0-60	1109.65	96.2	96.2
0-80	1152.45	99.9	99.9
0-90	1152.48	99.9	99.9

**Luminance (Average candela/M<sup>2</sup>)**

Angle in Degrees	Average		
	0°	45°	90°
45	113263	116112	119034
55	56218	57799	58229
65	25538	26198	27361
75	5449	6097	6520
85	79	79	79

**Lumens Per Zone**

Zone	Lumens
0-10	75
10-20	204.59
20-30	279.37
30-40	271.36
40-50	188.17
50-60	91.15
60-70	35.45
70-80	7.35
80-90	0.02

**Candela Tabulation**

Candela		Tabulation	
Zone	Lumens	0	90
0	803.75	0	803.75
5	789.86	5	789.86
15	718.9	15	718.9
25	596.32	25	596.32
35	421.03	35	421.03
45	233.97	45	233.97
55	94.2	55	94.2
65	31.53	65	31.53
75	4.12	75	4.12
85	0.02	85	0.02
90	0.02	90	0.02

**Coefficients of Utilization - Zonal Cavity Method**  
 Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	93	93	93	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	85	85	85	85	85	85	85	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	75	75	75	75	73		
4	92	82	76	71	90	81	75	70	79	73	69	77	72	68	75	71	67	67	67	67	67	66		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	61	61	61	61	59		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	56	56	56	56	54		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	51	51	51	51	49		
8	71	60	52	48	69	59	52	47	58	52	47	57	51	47	56	50	47	47	47	47	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	43	43	43	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	40	40	40	38			

Cone of Light		
(FT.) Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread
2	278	2.6
3	73.8	5.0
5	32.2	7.5
7	17.9	10.1
8	11.7	12.5
10	8.04	15.0

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

RC - Ceiling Cavity Reflectance    RW - Wall Reflectance

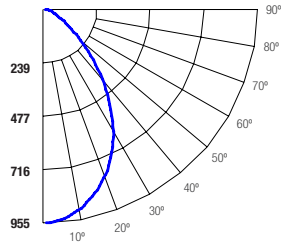
**RL842-1000L-1500L-2000L-DIMST-MVOLT-40K-90-W-WH(1500L)**

**TEST NO.: EL05072012**

INPUT WATTS: **16.5** LUMENS: 1782 CRI: **90** EFFICACY: **108** CCT: **4000K**

SPACING CRITERIA: **1.08**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	431.7	24.2	24.2
0-30	863.16	48.4	48.4
0-40	1282.48	72	72
0-60	1714.15	96.2	96.2
0-80	1780.36	99.9	99.9
0-90	1780.38	99.9	99.9

**Luminance (Average candela/M<sup>2</sup>)**

Angle in Degrees	Average		
	0°	45°	90°
45	175159	179731	184052
55	87066	89468	90247
65	39534	40636	42377
75	8385	9602	10078
85	118	98	118

**Lumens Per Zone**

Zone	Lumens
0-10	115.8
10-20	315.89
20-30	431.46
30-40	419.33
40-50	290.76
50-60	140.9
60-70	54.82
70-80	11.39
80-90	0.03

**Candela Tabulation**

Q	Candela
0	1240.12
5	1221.27
15	1110.32
25	922.18
35	651.01
45	361.83
55	145.89
65	48.81
75	6.34
85	0.03
90	0.03

**Coefficients of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100		
1		112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2		10	599	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3		98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73	73		
4		92	82	76	71	90	81	75	70	79	73	69	77	72	68	75	71	67	66	66	66	66	66		
5		86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59	59		
6		80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54	54		
7		75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49	49		
8		71	60	52	48	69	59	52	47	58	52	47	57	51	47	56	51	47	45	45	45	45	45		
9		67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42	42		
10		63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	44	40	38	38	38	38	38		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

**Cone of Light**

Beam Dia. (ft)	Beam Dia. (m)	Beam Dia. (ft)	Beam Dia. (m)
2	429	2.6	2.5
3	114	5.0	4.9
5	49.6	7.5	7.4
7	27.6	10.1	10.0
8	18.0	12.5	12.3
10	12.4	15.0	14.9

(FT) Distance to Plane (FC) Initial Footcandle at Nadir (FT) Beam Vert. Spread (FT) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

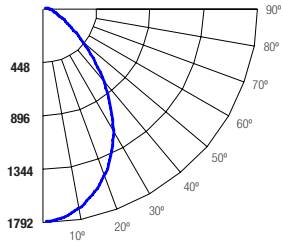
**RL842-1000L-1500L-2000L-DIMST-MVOLT-40K-90-W-WH(2000L)**

**TEST NO.: EL05072012**

INPUT WATTS: **25** LUMENS: 2567 CRI: **90** EFFICACY: **100** CCT: **3500K**

SPACING CRITERIA: **1.08**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	623.27	24.3	24.3
0-30	1245.95	48.5	48.5
0-40	1850.18	72.1	72.1
0-60	2470.32	96.2	96.2
0-80	2564.86	99.9	99.9
0-90	2564.89	99.9	99.9

**Luminance (Average candela/M<sup>2</sup>)**

Angle in Degrees	Average		
	0°	45°	90°
45	255359	261974	265781
55	126943	130530	130375
65	57588	58888	61015
75	9708	13272	14178
85	118	118	118

**Lumens Per Zone**

Zone	Lumens
0-10	167.22
10-20	456.05
20-30	622.68
30-40	604.24
40-50	417.98
50-60	202.15
60-70	78.55
70-80	15.99
80-90	0.04

**Candela Tabulation**

Q	Candela
0	1789.07
5	1765.95
15	1610.42
25	1340.27
35	949.66
45	527.5
55	212.71
65	71.1
75	7.34
85	0.03
90	0.04

**Coefficients of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100		
1		112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2		105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3		98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73	73		
4		92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66	66	66	66	66		
5		86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	59	59	59	59		
6		80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54	54		
7		75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49	49		
8		71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45	45	45	45	45		
9		67	55	48	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42	42	42	42	42		
10		63	52	45	40	62	51	45	40	50	44	40	50	44	40	49	44	40	38	38	38	38	38		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

**Cone of Light**

Beam Dia. (ft)	Beam Dia. (m)	Beam Dia. (ft)	Beam Dia. (m)
2	619	2.6	2.5
3	164	5.0	4.9
5	71.6	7.5	7.4
7	39.9	10.1	9.9
8	26.0	12.5	12.3
10	17.9	15.0	14.8

(FT) Distance to Plane (FC) Initial Footcandle at Nadir (FT) Beam Vert. Spread (FT) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.