

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
700	830	11W
900	1040	13W

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

#### INSTALLATION

Cut hole in ceiling. Insert luminaire into opening by squeezing spring clips on both sides of luminaire. The width in ceiling needed for the driver to fit is 3".

You MUST seal all gaps between the ceiling and fixture with weatherproof silicone sealant. This deters moisture and water from damaging fixtures and other mechanical ceiling elements.

#### FEATURES

6" square slim LED luminaire engineered for new construction, remodel, or retrofit to accommodate insulated or dropped ceilings. Remote driver allows easy installation and maintenance. Small aperture and shallow depth are ideal for unlimited applications.

LUMENS	700, 900
CCT	27K, 30K, 35K, 40K, 50K
CRI	90+
COLOR QUALITY	3-Step MacAdam Ellipse
CONSTRUCTION	Aluminum die-cast body and trim
TRIM OPTION	Square Flat Lens
TRIM COLORS	WH (White)
DIMMING	DIMTR (Triac)
EMERGENCY	16W high voltage inverter ( remote)
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

- IC-Rated and Air-Tight ready and may be in direct contact with insulation.
- Can be installed in applications with limited plenum clearance.
- May be installed in drywall or suspended ceilings.
- Flicker-free 120V forward-phase Triac dimming down to 5%.
- Even illumination of luminaire is achieved by utilizing patent-pending optics along with edgelit LED technology.
- Aluminum die-cast body and trim.

**SLIM TRIM**



EXAMPLE:  
**RL676-900L-DIMTR-120-30K-90-WH**

TYPE	LUMEN	CCT	CRI	FINISH
RL676	<input type="checkbox"/> 700L-DIMTR-120	<input type="checkbox"/> 27K	<input type="checkbox"/> 90+	<input type="checkbox"/> WH-White
	<input type="checkbox"/> 900L-DIMTR-120	<input type="checkbox"/> 30K		<input type="checkbox"/> RL676-RT-BK - Black
		<input type="checkbox"/> 35K		<input type="checkbox"/> RL676-RT-SN - Satin Nickel
		<input type="checkbox"/> 40K		
		<input type="checkbox"/> 50K		

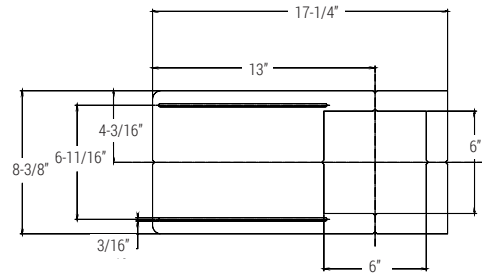
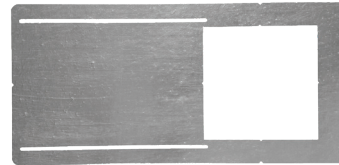
**ACCESSORIES**



**RL-ACC-SLIM-1-10F**  
10-ft long extension



**RL-ACC-SLIM-1-20F**  
20-ft long extension



**RL-ACC-SLIM-6-SQ-ROUGHPLATE**  
Rough-in plate for use with 6" downlights

**RL-ACC-SLIM-1-10F**

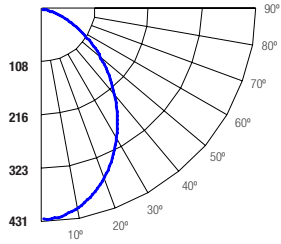
OPTIONS
<input type="checkbox"/> RL-ACC-SLIM-1-10F - 10ft Long Extension
<input type="checkbox"/> RL-ACC-SLIM-1-20F - 20ft Long Extension
<input type="checkbox"/> RL-ACC-SLIM-6-SQ-ROUGHPLATE - 6" Square Mounting Plate

**RL676-700L-DIMTR-120-40K-90-WH**

TEST NO.: **EL082019115**

INPUT WATTS: **11.3715** LUMENS: **830** CRI: **90** EFFICACY: **73** CCT: **4000K** SPACING CRITERIA: **1.20**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	151.93	18.30	18.30
0-30	309.33	37.30	37.30
0-40	480.15	57.80	57.80
0-60	747.59	90.10	90.10
0-80	829.24	99.90	99.90
0-90	829.29	99.90	99.90

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

Angle in Degrees	Average		
	0°	45°	90°
45	5325	5370	5616
55	4107	4171	4453
65	2685	2781	3115
75	729	888	1274
85	7	7	5

**Lumens Per Zone**

Zone	Lumens
0-10	40.39
10-20	111.54
20-30	157.41
30-40	170.81
40-50	153.47
50-60	113.97
60-70	64.49
70-80	17.17
80-90	0.04

**Candela Tabulation**

Q	0
0	430.01
5	425.28
15	392.22
25	335.63
35	264.60
45	189.39
55	118.49
65	57.07
75	9.49
85	0.03
90	0.03

**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%		
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100		
1	111	107	104	101	108	105	102	99	99	101	98	96	97	95	93	93	92	90	88	88	88	88		
2	103	96	90	85	100	94	89	84	82	90	86	82	87	84	80	84	81	79	77	77	77	77		
3	95	86	79	73	92	84	78	72	71	81	76	71	79	74	70	76	72	69	67	67	67	67		
4	88	77	69	63	85	76	69	63	62	73	67	62	71	66	61	69	64	61	59	59	59	59		
5	81	70	62	56	79	69	61	55	54	67	60	55	65	59	54	63	58	54	52	52	52	52		
6	75	63	55	49	74	62	55	49	48	61	54	49	59	53	48	58	52	48	46	46	46	46		
7	70	58	50	44	69	57	50	44	43	56	49	44	54	48	44	53	47	43	41	41	41	41		
8	66	53	45	40	64	53	45	40	39	51	44	40	50	44	39	49	43	39	37	37	37	37		
9	62	49	42	36	60	49	41	36	35	47	41	36	46	40	36	45	40	36	34	34	34	34		
10	58	46	38	33	57	45	38	33	32	44	38	33	43	37	33	42	37	33	31	31	31	31		

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

**Cone of Light**

(FT) Distance to Plane	(FC) Initial Footcandle at Nadir	(FT) Beam Vert. Spread	(FT) Beam Horiz. Spread
2	108	3.7	3.7
4	26.9	7.4	7.4
6	11.9	11.1	11.2
8	6.72	14.8	14.9
10	4.3	18.5	18.6
12	2.99	22.2	22.3

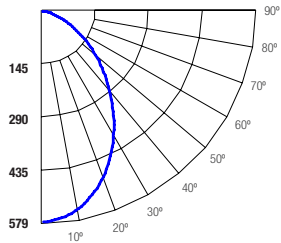
BEAM DIA. MEASURED AT 50% OF NADIR F.C.

**RL676-900L-DIMTR-120-40K-90-WH**

TEST NO.: **EL08051909**

INPUT WATTS: **13.5031** LUMENS: **1040** CRI: **90** EFFICACY: **77** CCT: **4000K** SPACING CRITERIA: **1.14**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	202.00	19.40	19.40
0-30	406.12	39.00	39.00
0-40	620.64	59.70	59.70
0-60	942.45	90.60	90.60
0-80	1039.11	99.90	99.90
0-90	1039.14	99.90	99.90

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

Angle in Degrees	Average		
	0°	45°	90°
45	1180	1192	1249
55	898	909	963
65	602	616	663
75	182	206	270
85	1	1	1

**Lumens Per Zone**

Zone	Lumens
0-10	54.12
10-20	147.89
20-30	204.11
30-40	214.53
40-50	186.45
50-60	135.37
60-70	76.28
70-80	20.37
80-90	0.03

**Candela Tabulation**

Q	0
0	578.21
5	570.12
15	519.29
25	433.53
35	331.27
45	230.06
55	142.01
65	70.12
75	13.00
85	0.03
90	0.03

**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%		
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100		
1	111	107	104	101	109	105	102	99	99	101	98	96	97	95	93	94	92	91	89	89	89	89		
2	103	96	90	85	100	94	89	85	84	91	87	83	88	84	81	85	82	79	77	77	77	77		
3	95	86	79	74	93	85	78	73	72	82	76	72	79	75	71	77	73	70	68	68	68	68		
4	88	78	70	64	86	76	69	64	64	74	68	63	72	67	62	70	65	61	60	60	60	60		
5	82	70	63	57	80	69	62	56	56	67	61	56	65	60	55	64	59	55	53	53	53	53		
6	76	64	56	51	74	63	56	50	50	62	55	50	60	54	49	58	53	49	47	47	47	47		
7	71	59	51	45	69	58	51	45	45	57	50	45	55	49	45	54	48	44	43	43	43	43		
8	66	54	46	41	65	53	46	41	41	52	46	41	51	45	41	50	44	40	39	39	39	39		
9	62	50	43	37	61	49	42	37	37	48	42	37	47	41	37	46	41	37	35	35	35	35		
10	59	46	39	34	57	46	39	34	34	45	39	34	44	38	34	43	38	34	32	32	32	32		

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

**Cone of Light**

(FT) Distance to Plane	(FC) Initial Footcandle at Nadir	(FT) Beam Vert. Spread	(FT) Beam Horiz. Spread
2	145	3.4	3.4
4	36.1	6.7	6.7
6	16.1	10.1	10.1
8	9.03	13.5	13.5
10	5.78	16.8	16.8
12	4.02	20.2	20.2

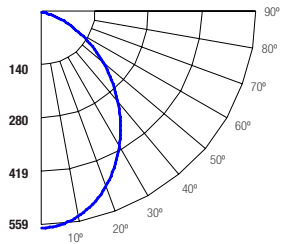
BEAM DIA. MEASURED AT 50% OF NADIR F.C.

**RL676-1100L-DIMTR-120-40K-90-WH**

TEST NO.: **EL082019114**

INPUT WATTS: **13.4582** LUMENS: **1092** CRI: **90** EFFICACY: **81** CCT: **4000K** SPACING CRITERIA: **1.20**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	197.79	18.10	18.10
0-30	404.46	37.00	37.00
0-40	630.76	57.70	57.70
0-60	987.63	90.40	90.40
0-80	1091.34	99.90	99.90
0-90	1091.38	99.90	99.90

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

Angle in Degrees	Average		
	0°	45°	90°
45	7236	7294	7515
55	5616	5714	5976
65	3632	3792	4091
75	1046	1274	1632
85	7	7	7

**Lumens Per Zone**

Zone	Lumens
0-10	52.42
10-20	145.37
20-30	206.67
30-40	226.30
40-50	204.99
50-60	151.88
60-70	83.23
70-80	20.48
80-90	0.04

**Candela Tabulation**

Q	0
0	558.01
5	551.96
15	511.94
25	442.41
35	353.98
45	257.34
55	162.00
65	77.19
75	13.62
85	0.03
90	0.03

**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%		
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100		
1	111	107	104	101	108	105	102	99	99	101	98	96	97	95	93	93	92	90	88	88	88	88		
2	103	96	90	85	100	94	89	84	84	90	86	82	87	84	81	84	81	79	77	77	77	77		
3	95	86	79	73	92	84	78	72	71	81	76	71	79	74	70	76	72	69	67	67	67	67		
4	88	77	69	63	85	76	69	63	63	73	67	62	71	66	61	69	64	61	59	59	59	59		
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