

SOL

LED . RECESSED . DIRECT



PART #:	
PREP BY:	DATE:
PROJECT:	
NOTES:	
APPROVAL SIGNATURE:	DATE (DD/MM/YYYY):

PERFORMANCE SUMMARY @ 3500K		1 inch Drop	2 inch Drop
		L2	
Lumens	80 CRI	3201	3211
	90 CRI	2801	2810
Wattage		29.0	
Efficacy (lm/W)	80 CRI	110	111
	90 CRI	97	97
L80 Estimate		≥ 50 000 hrs	

See below for the complete Light Level Performance chart

FEATURES

- Up to 113 lm/W
- CRI 80+ standard (CRI 90+ optional)
- Lenses that are adjustable on site: **A2** can accommodate a 1 and 2 inch drop lens; **A4** can accommodate a 3 and 4 inch drop lens; **A6** can accommodate a 5 and 6 inch drop lens

ORDERING LOGIC

Example Part Number: SOL-L35K-22-A2-W-L31-T-4-DK22

SOL	22	W	T								
1	2	3	4	5	6	7	8	9	10	11	
1. SERIES SOL	2. COLOR TEMP 4L30K 3000K 4L35K 3500K 4L40K 4000K 4LTUN Tunable White* (2700 - 6500K) 90 CRI is available under OPTIONS	3. SIZE 22 2 x 2 ft	4. OPTICS AF Acrylic Flush Lens A2 Acrylic 2 Inch Drop Lens (Adjustable to 1 Inch drop lens on site) A4 Acrylic 4 Inch Drop Lens (Adjustable to 3 Inch drop lens on site) A6 Acrylic 6 Inch Drop Lens (Adjustable to 5 Inch drop lens on site)	5. FINISH W White	6. LIGHT LEVEL / DRIVER L1 L2 L3 <div style="border: 1px solid black; padding: 2px; width: fit-content;">See Light Level Performance chart below. Select Driver below.</div>		7. CIRCUITRY 1 1 Circuit B Emergency Battery Pack	8. MOUNTING T Recessed T-Bar Recessed Drywall Mounting Kit is available under OPTIONS	9. VOLTAGE 3 347V 4 UNV (120 - 277V)	10. CONTROLS* / SENSORS* _ None (leave space empty)	11. OPTIONS 90 90 CRI, High R9 DK22 Drywall Mounting Kit 2x2 P Plenum _ None (leave space empty)

* Consult factory.

Select Driver:

- FD** Factory standard 0-10V, dimming to 1%
- LHE** Lutron H-Series Hi-lume 1% EcoSystem LED Driver
- LA2** Lutron A-Series Hi-lume 1% 2-wire LED Driver
- L5E** Lutron 5-Series EcoSystem LED Driver

Light Level Performance

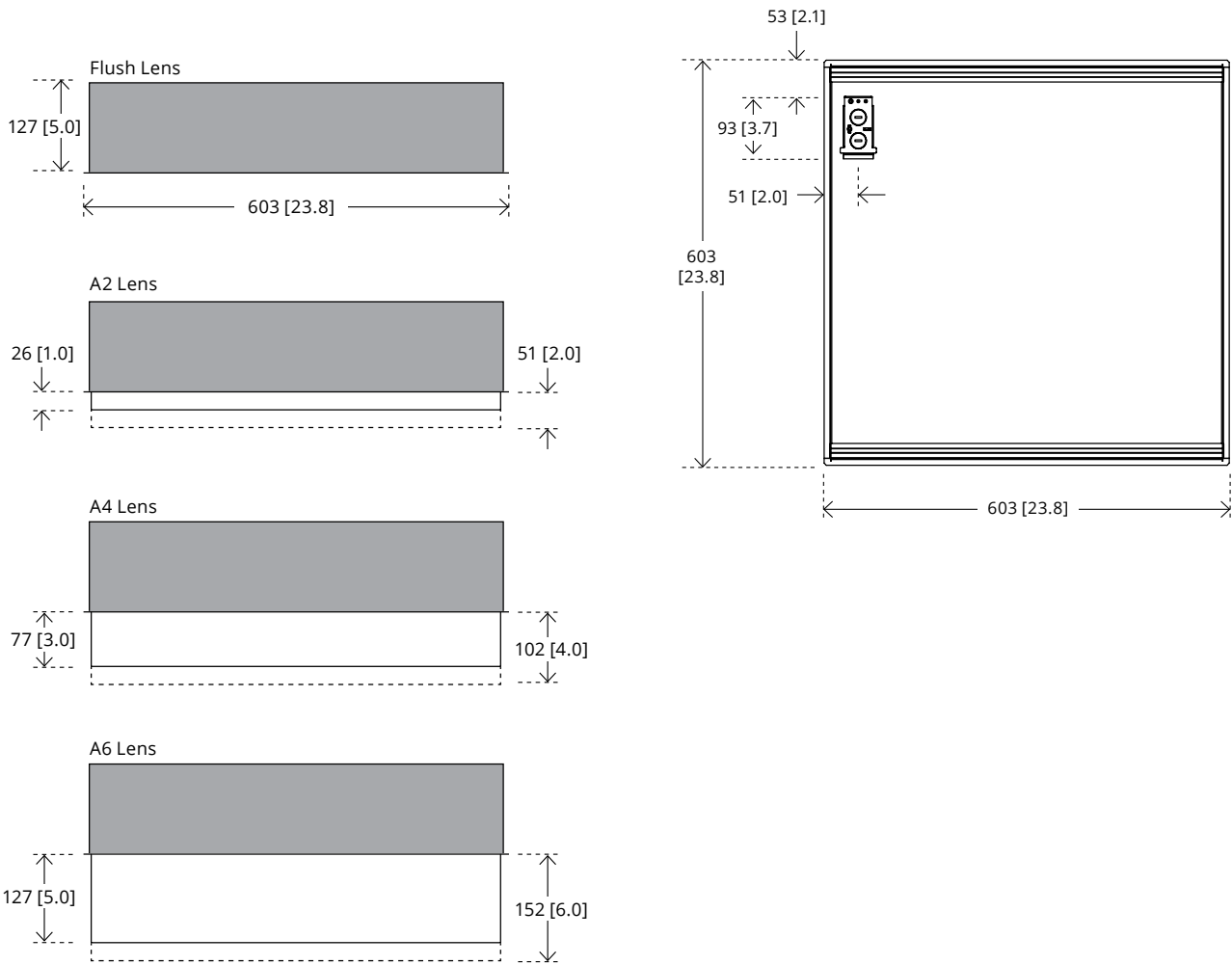
3500K, 80 CRI, 0-10V Dimming (Standard)

Optics	Light Level	Lumens	Wattage	Efficacy (lm/W)
1 inch Drop	L1	2139	19.0	113
	L2	3201	29.0	110
	L3	4279	38.8	110
2 inch Drop	L1	2147	19.0	107
	L2	3211	29.0	111
	L3	4293	38.8	107

Lumen Adjustment Factor

Color Temp	80 CRI	90 CRI
3000K	0.984	0.880
3500K	1.000	0.875
4000K	1.032	0.879

CROSS SECTIONS & DIMENSIONS



SPECIFICATIONS

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

Housing: Die-formed, code gauge powder coated, high-reflectance white steel housing. Precision formed steel reflector. Wiring access plate and knockout is provided on housing.

Optical System: Fabricated opal white acrylic diffuser lens designed for even illumination across entire surface.

CRI: 80+ CRI

Lumen Maintenance: At an ambient operating temperature of 35°C, the LED lifetime expectancy is $\geq 50,000$ hrs at L80.

Finish: White, polyester powder painted finish is standard.

Weight: 14 lbs = housing
16 lbs = housing + flush lens
17 lbs = housing + 1 or 2" lens

18 lbs = housing + 3 or 4" lens
19 lbs = housing + 5 or 6" lens

Mounting: This luminaire has been designed to fit 9/16" and 15/16" T-bar. Holes provided for chain-mounting support to building structure. Integral earthquake clips are provided for additional support. Drywall mounting kit option available.

Electrical: Long life LEDs coupled with high efficiency drivers provide quality illumination.

Drivers: Standard low voltage dimming (0-10V).

Approvals: This product is cULus listed.

Environment: Suitable for dry or damp locations.

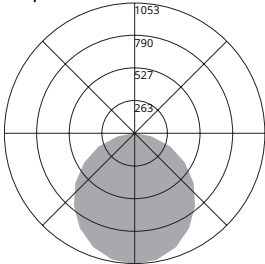
WARRANTY

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.

PHOTOMETRIC DATA - 3500K, 80 CRI

Optics: **Acrylic 1 Inch Drop Lens**
 IES File: **SOL-L35K-22-A2-L2**
 Lumens: **3201** Wattage: **29.0**
 Efficacy: **110**

PHOTOMETRIC CURVE
 96% Down
 4% Up



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	383	12
0-30	812	25.4
0-40	1328	41.5
0-60	2356	73.6
0-80	2981	93.1
0-90	3078	96.2
10-90	2979	93.1
20-40	945	29.5
20-50	1481	46.3
40-70	1413	44.2
60-80	625	19.5
70-80	240	7.5
80-90	97	3
90-110	58	1.8
90-120	80	2.5
90-130	96	3
90-150	114	3.5
90-180	122	3.8
110-180	64	2
0-180	3201	100

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
RCR												
0	118	118	118	118	115	115	115	115	109	109	109	
1	107	102	98	94	104	100	95	92	95	91	88	
2	97	89	82	76	94	86	80	74	82	77	72	
3	88	78	69	63	86	76	68	62	72	66	60	
4	81	69	60	53	78	67	59	52	64	57	51	
5	74	61	52	45	72	60	51	45	57	50	44	
6	69	55	46	40	66	54	45	39	52	44	39	
7	64	50	41	35	62	49	41	35	47	40	34	
8	59	46	37	31	57	45	36	31	43	36	30	
9	55	42	33	28	54	41	33	28	40	32	27	
10	52	38	31	25	50	38	30	25	37	30	25	

CANDELA DISTRIBUTION

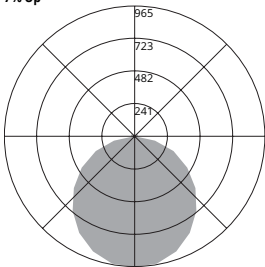
Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1053	1053	1053	1053	1053
10	1034	1029	1030	1032	1033
20	974	973	971	972	973
30	881	880	880	880	880
40	761	761	764	762	761
50	621	623	627	624	622
60	469	465	474	474	470
70	308	288	308	318	312
80	140	129	153	161	156
90	13	28	34	37	35

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	2599	2572	2599
55	2484	2451	2486
65	2336	2274	2349
75	2070	2020	2163
85	1640	1770	2045

Optics: **Acrylic 2 Inch Drop Lens**
 IES File: **SOL-L35K-22-A2-L2**
 Lumens: **3211** Wattage: **29.0**
 Efficacy: **111**

PHOTOMETRIC CURVE
 93% Down
 7% Up



ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-20	354	11
0-30	753	23.4
0-40	1238	38.5
0-60	2224	69.3
0-80	2864	89.2
0-90	2985	93
10-90	2894	90.1
20-40	884	27.5
20-50	1395	43.4
40-70	1371	42.7
60-80	639	19.9
70-80	255	7.9
80-90	121	3.8
90-110	106	3.3
90-120	149	4.6
90-130	181	5.6
90-150	216	6.7
90-180	226	7
110-180	120	3.7
0-180	3211	100

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
RCR												
0	117	117	117	117	114	114	114	114	107	107	107	
1	106	101	96	92	103	98	94	90	92	89	86	
2	96	87	80	74	93	85	78	72	80	74	70	
3	87	76	68	61	84	74	66	60	70	63	58	
4	80	67	58	51	77	65	57	51	62	55	49	
5	73	60	51	44	70	58	50	43	55	48	42	
6	67	54	45	38	65	52	44	38	50	42	37	
7	62	49	40	34	60	48	39	33	45	38	32	
8	58	44	36	30	56	43	35	30	41	34	29	
9	54	41	32	27	52	40	32	26	38	31	26	
10	51	37	29	24	49	37	29	24	35	28	24	

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	965	965	965	965	965
10	950	947	949	951	951
20	900	901	902	903	903
30	817	822	826	825	823
40	711	718	726	723	718
50	587	596	604	602	595
60	451	456	469	469	460
70	306	295	318	328	318
80	154	147	175	186	177
90	25	50	60	66	61

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	2344	2327	2372
55	2235	2213	2273
65	2098	2053	2156
75	1867	1822	2011
85	1439	1574	1917