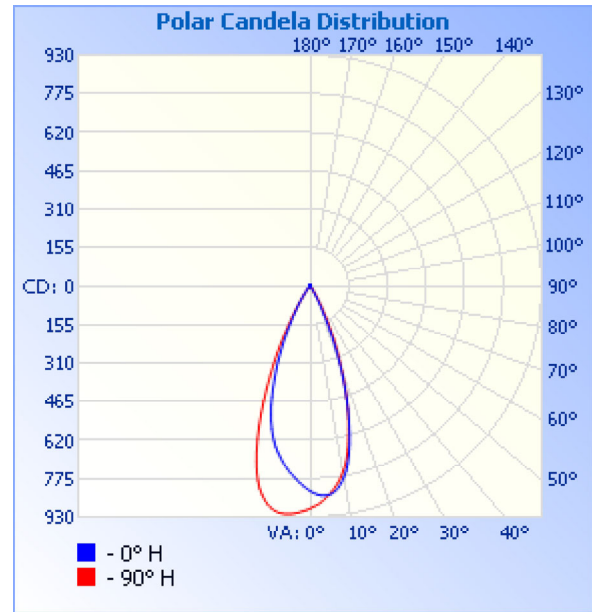


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** DL2 - 2inch Mini Downlight - IES  
**Manufacturer:** SARIN Energy Solutions  
**Luminaire:** 2700K  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 394.9  
**Max Candela:** 922.4 at Horizontal: 270°, Vertical: 6°  
**Input Wattage:** 8.7  
**Luminous Opening:** Point  
**Test:** 1  
**Test Date:** 2023-12-20  
**Test Lab:** EVERFINE  
**Photometry :** Type C  
**Nema Type:** 4 X 4



### Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	TYPE I, VERY SHORT	
Max Cd, 90 Deg Vert:	0.9	
Max Cd, 80 to <90 Deg:	0.9	
	Lumens	% Lamp
Downward Street Side:	190.8	48.3%
Downward House Side:	196.5	49.8%
Downward Total:	387.3	98.1%
Upward Street Side:	4.2	1.1%
Upward House Side:	3.4	0.9%
Upward Total:	7.6	1.9%
Total Lumens:	394.9	100%

### Flood Summary

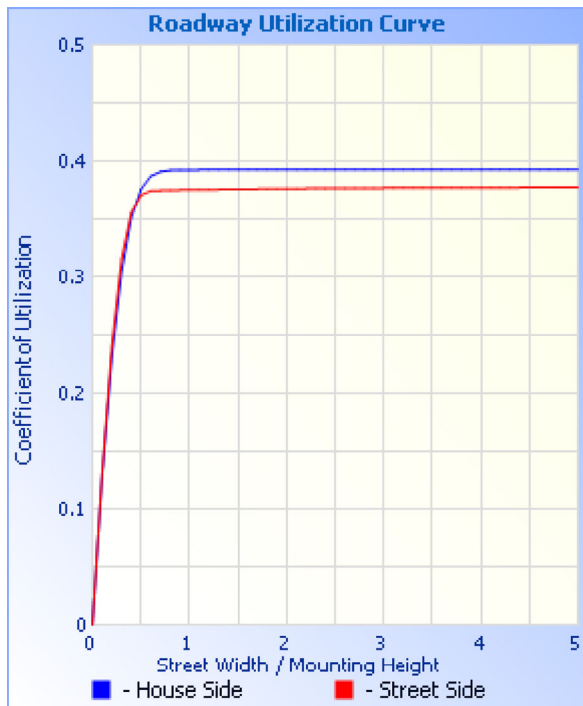
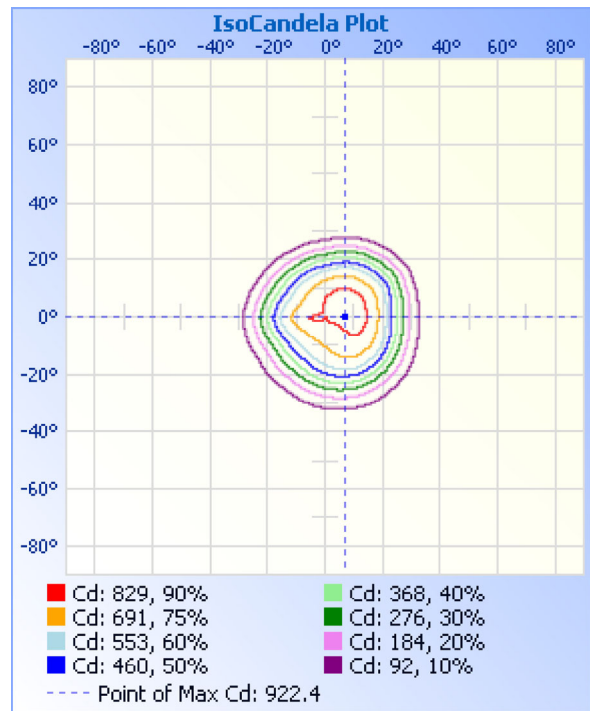
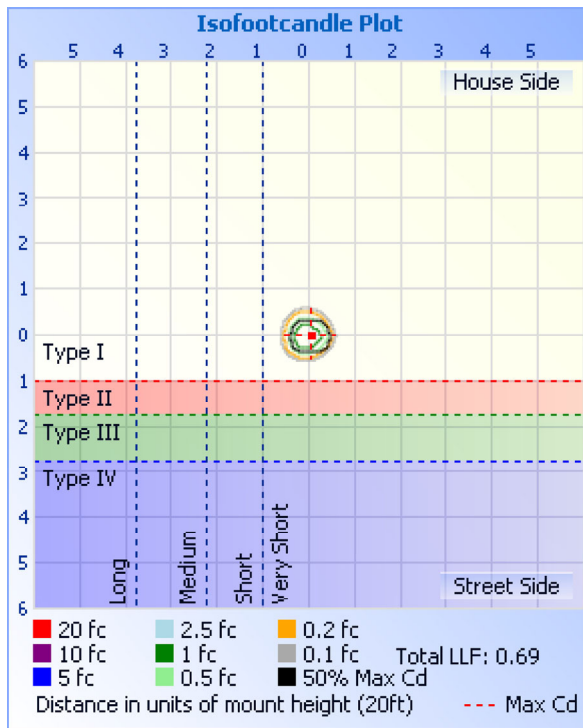
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	93.3%	368.4	61	59.9
Beam (50%):	64.2%	253.3	41	39.6
Total:	100%	394.9		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	364.9	92.4%	92.5%
0-40	384.7	97.4%	97.5%
0-60	385.7	97.7%	97.7%
60-90	1.4	0.3%	0.3%
70-100	1.5	0.4%	0.4%
90-120	2.0	0.5%	0.5%
0-90	387.1	98%	98.1%
90-180	7.6	1.9%	1.9%
0-180	394.7	100%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	77.0	19.5%	90-100	0.6	0.1%
10-20	174.2	44.1%	100-110	0.7	0.2%
20-30	113.7	28.8%	110-120	0.8	0.2%
30-40	19.7	5.0%	120-130	1.1	0.3%
40-50	0.7	0.2%	130-140	1.3	0.3%
50-60	0.3	0.1%	140-150	1.3	0.3%
60-70	0.4	0.1%	150-160	1.1	0.3%
70-80	0.5	0.1%	160-170	0.7	0.2%
80-90	0.5	0.1%	170-180	0.2	0.1%



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
1.7R	285 fc	1.2 ft	1.3 ft
3.3R	75.7 fc	2.4 ft	2.5 ft
5.0R	33.0 fc	3.6 ft	3.7 ft
6.7R	18.4 fc	4.8 ft	5.0 ft
8.3R	12.0 fc	6.0 ft	6.2 ft
10.0R	8.24 fc	7.2 ft	7.5 ft

■ Vert. Spread: 39.6°  
■ Horiz. Spread: 41.0°

**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.98	1.10	1.10	1.10	1.05	1.05	1.05	1.05	1.00	1.00	1.00	1.00	.98	
1	1.14	1.11	1.09	1.07	1.11	1.09	1.07	.94	1.05	1.03	1.02	1.01	1.00	.99	.97	.96	.96	.95	.95	.94	
2	1.09	1.05	1.02	.99	1.07	1.04	1.00	.90	1.00	.98	.96	.97	.95	.93	.94	.92	.91	.92	.91	.89	
3	1.05	1.00	.96	.93	1.03	.98	.95	.86	.96	.93	.90	.93	.91	.88	.91	.89	.87	.87	.87	.85	

4	1.01	.95	.91	.87	.99	.94	.90	.83	.92	.88	.85	.90	.87	.84	.88	.85	.83	.82
5	.97	.91	.86	.83	.96	.90	.85	.79	.88	.84	.81	.86	.83	.80	.84	.82	.80	.78
6	.94	.87	.82	.78	.92	.86	.81	.76	.84	.80	.77	.83	.79	.77	.81	.78	.76	.75
7	.91	.83	.78	.75	.89	.82	.78	.73	.81	.77	.74	.80	.76	.74	.79	.75	.73	.72
8	.87	.80	.75	.72	.86	.79	.74	.70	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69
9	.84	.76	.72	.69	.83	.76	.71	.67	.75	.71	.68	.74	.70	.68	.73	.70	.67	.66
10	.81	.74	.69	.66	.80	.73	.69	.65	.72	.68	.65	.71	.68	.65	.71	.67	.65	.64

Candela Table - Type C													
	0	30	60	90	120	150	180	210	240	270	300	330	360
0	824	808	801	895	865	839	824	808	801	895	865	839	824
1	832	810	796	887	851	825	815	804	806	902	878	853	832
2	839	811	791	880	836	809	804	801	811	907	889	864	839
3	843	811	784	870	820	792	793	797	816	913	898	873	843
4	845	809	777	858	801	774	781	794	820	917	905	880	845
5	844	803	768	845	780	754	767	789	824	921	911	885	844
6	839	797	758	832	759	734	756	784	828	922	915	884	839
7	831	786	746	817	737	715	742	780	833	922	917	880	831
8	818	767	732	800	715	694	727	776	837	920	916	874	818
9	802	747	712	780	690	670	711	773	840	915	912	868	802
10	781	722	686	758	659	645	695	769	841	906	903	861	781
11	757	692	659	734	627	619	679	764	839	894	892	849	757
12	728	661	628	705	594	592	661	757	833	879	877	833	728
13	694	623	593	672	560	563	642	747	823	861	860	810	694
14	654	581	556	634	523	530	619	732	809	838	842	781	654
15	613	538	518	596	485	498	593	715	789	811	821	749	613
16	568	494	476	558	448	466	566	692	765	777	794	715	568
17	521	448	436	517	411	431	538	665	737	738	762	677	521
18	474	402	393	474	373	396	505	632	701	694	727	635	474
19	426	356	352	432	334	361	470	597	661	648	688	590	426
20	379	311	311	389	298	325	437	558	620	599	648	542	379
21	330	269	272	347	262	290	399	516	574	549	603	495	330
22	282	226	234	308	229	258	363	474	526	497	557	444	282
23	236	187	197	271	198	228	328	432	479	446	509	396	236
24	196	153	165	233	169	196	292	386	430	395	461	347	196
25	161	123	133	199	142	169	257	344	382	348	412	299	161
26	126	97	107	168	118	143	226	304	337	301	363	251	126
27	98	75	84	138	97	120	195	266	293	256	315	207	98
28	73	53	64	112	79	99	168	230	252	215	268	167	73
29	53	37	48	89	62	81	142	198	216	178	225	133	53
30	36	24	34	70	48	66	119	169	182	145	185	105	36
31	22	13	21	53	36	52	99	140	152	113	149	81	22
32	12	6	12	40	26	41	82	116	123	88	114	56	12
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180	2	2	2	2	2	2	2	2	2	2	2	2	2

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST] 1  
[TESTDATE] 2023-12-20  
[TESTLAB] EVERFINE  
[ISSUE DATE] 2023-12-20 10:19:17  
[MANUFAC] SARIN Energy Solutions  
[LUMINAIRE] 2700K  
[\_LAMPPOSITION] 0,0  
[\_TOTALLUMINAIRELUMENS] 394.7  
[OTHER] EVERFINE GO-2000B\_V1 SYSTEM  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 13  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.