

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** SDL46R - Fire-Rated Slim Downlight 6IN - 12W - IES

**Manufacturer:** SARIN Energy Solutions

**Lamp:** 15W-3000K

**Lamp Output:** 1 lamp, rated Lumens/lamp: 1462.5

**Max Candela:** 575.6 at Horizontal: 90°, Vertical: 4°

**Input Wattage:** 14.4

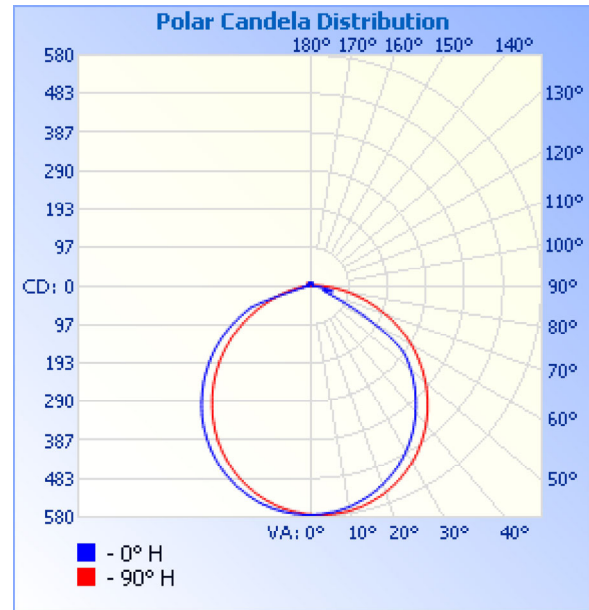
**Luminous Opening:** Point

**Test Date:** 2023-12-07

**Test Lab:** EVERFINE

**Photometry :** Type C

**Nema Type:** 7 X 7

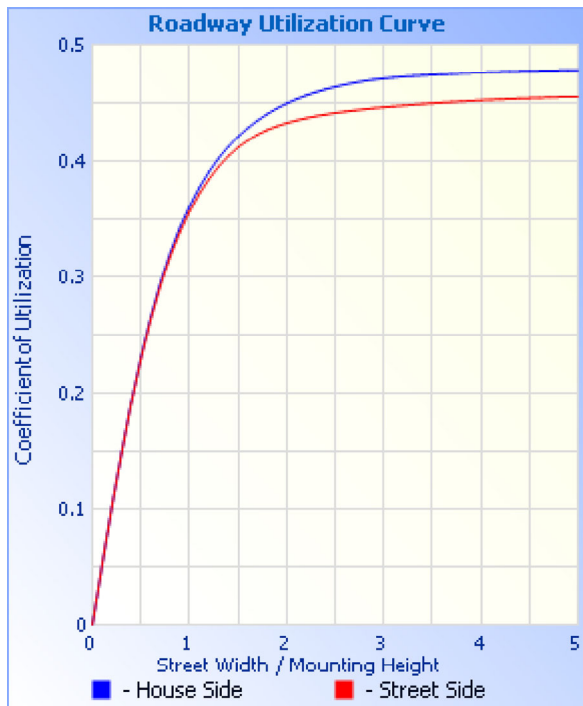
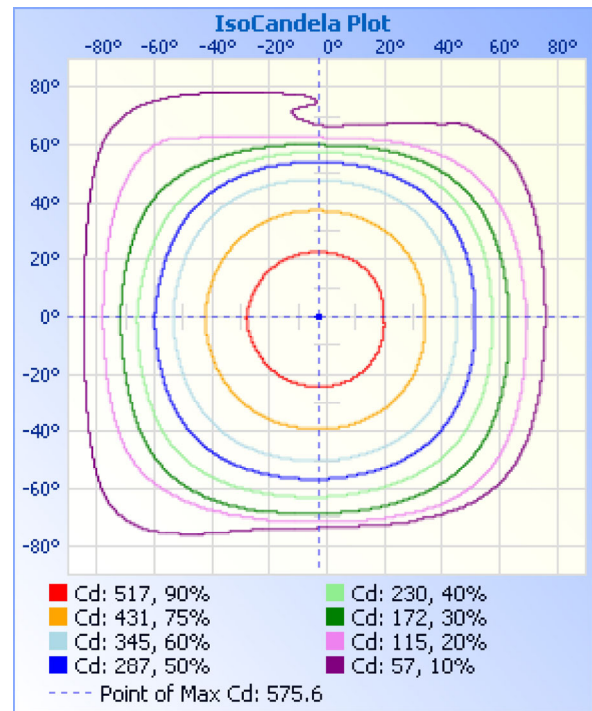
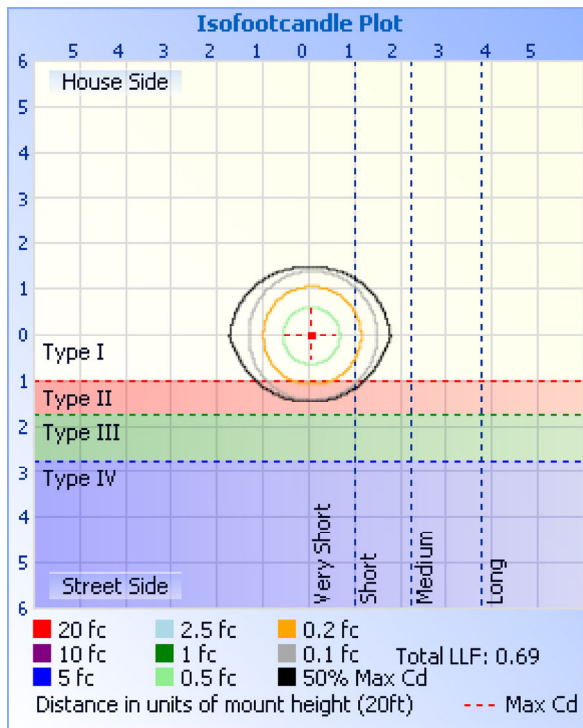


Roadway Summary			
Cutoff Classification:	CUTOFF		
Distribution:	Type VS		
Max Cd, 90 Deg Vert:	22.3		
Max Cd, 80 to <90 Deg:	99.8		
	Lumens	% Lamp	
Downward Street Side:	756.4	51.7%	
Downward House Side:	793.9	54.3%	
Downward Total:	1,550.3	106%	
Upward Street Side:	19.4	1.3%	
Upward House Side:	15.8	1.1%	
Upward Total:	35.1	2.4%	
Total Lumens:	1,585.5	108.4%	

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	103.3%	1,510.3	160.5	140.6
Beam (50%):	79.6%	1,163.7	111.4	110.7
Total:	108.4%	1,584.9		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	444.3	30.4%	28%
0-40	726.7	49.7%	45.8%
0-60	1,275.0	87.2%	80.4%
60-90	275.2	18.8%	17.4%
70-100	110.9	7.6%	7%
90-120	15.8	1.1%	1%
0-90	1,550.2	106%	97.8%
90-180	35.1	2.4%	2.2%
0-180	1,585.3	108.4%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	54.3	3.4%	90-100	5.8	0.4%
10-20	155.2	9.8%	100-110	5.0	0.3%
20-30	234.8	14.8%	110-120	5.0	0.3%
30-40	282.3	17.8%	120-130	4.9	0.3%
40-50	291.2	18.4%	130-140	4.5	0.3%
50-60	257.1	16.2%	140-150	4.0	0.3%
60-70	170.0	10.7%	150-160	3.2	0.2%
70-80	79.6	5.0%	160-170	2.1	0.1%
80-90	25.5	1.6%	170-180	0.7	0%



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
1.7R	198 fc	4.9 ft	5.0 ft
3.3R	52.7 fc	9.6 ft	9.7 ft
5.0R	22.9 fc	14.5 ft	14.6 ft
6.7R	12.8 fc	19.4 ft	19.6 ft
8.3R	8.33 fc	24.0 ft	24.3 ft
10.0R	5.74 fc	29.0 ft	29.3 ft

■ Vert. Spread: 110.7°  
 ■ Horiz. Spread: 111.4°

**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	50	30	20	50	30	20	0
RCR: 0	1.28	1.28	1.28	1.28	1.25	1.25	1.25	1.06	1.19	1.19	1.19	1.14	1.14	1.14	1.08	1.08	1.08	1.06
1	1.18	1.13	1.08	1.05	1.15	1.10	1.06	.91	1.05	1.02	.99	1.01	.98	.95	.96	.94	.92	.90
2	1.08	.99	.92	.86	1.05	.97	.90	.77	.92	.87	.82	.89	.84	.80	.85	.81	.78	.76
3	.98	.87	.79	.72	.95	.85	.77	.66	.82	.75	.69	.78	.73	.68	.75	.71	.66	.64

4	.90	.77	.68	.61	.87	.76	.67	.57	.73	.65	.59	.70	.64	.58	.67	.62	.57	.55
5	.83	.69	.60	.53	.80	.68	.59	.50	.65	.57	.51	.63	.56	.51	.61	.55	.50	.48
6	.77	.62	.53	.46	.74	.61	.52	.44	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
7	.71	.57	.47	.41	.69	.56	.47	.39	.54	.46	.40	.52	.45	.39	.50	.44	.39	.37
8	.66	.52	.42	.36	.64	.51	.42	.35	.49	.41	.36	.48	.40	.35	.46	.40	.35	.33
9	.62	.47	.39	.33	.60	.47	.38	.31	.45	.38	.32	.44	.37	.32	.43	.36	.32	.30
10	.58	.44	.35	.30	.56	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.27

**Candela Table - Type C**

	0	90	180	270	360
0	574	573	574	573	574
1	574	574	574	572	574
2	573	575	574	571	573
3	573	575	573	569	573
4	572	576	573	568	572
5	571	575	572	565	571
6	570	575	571	564	570
7	568	575	570	562	568
8	566	574	568	559	566
9	565	574	567	557	565
10	562	572	565	552	562
11	560	571	562	550	560
12	557	569	560	547	557
13	554	569	558	544	554
14	552	566	555	540	552
15	549	564	552	536	549
16	546	562	549	531	546
17	542	559	546	528	542
18	539	557	542	523	539
19	534	554	538	519	534
20	530	551	536	514	530
21	525	548	531	508	525
22	522	544	526	503	522
23	516	541	522	498	516
24	512	537	518	492	512
25	507	533	513	487	507
26	502	528	508	481	502
27	496	525	503	474	496
28	491	519	496	469	491
29	485	515	492	462	485
30	479	510	486	455	479
31	473	505	480	450	473
32	467	500	474	442	467
33	460	495	468	436	460
34	454	488	462	428	454
35	447	483	455	420	447
36	440	477	449	413	440
37	433	470	442	406	433
38	426	464	436	398	426
39	419	458	429	390	419
40	410	451	422	382	410
41	404	445	414	374	404
42	396	437	406	366	396
43	388	431	398	357	388
44	379	423	390	349	379
45	372	416	382	341	372
46	364	409	375	332	364

47	355	401	366	323	355
48	347	393	359	314	347
49	339	385	350	305	339
50	330	377	342	296	330
51	321	369	332	287	321
52	312	361	324	278	312
53	303	353	315	268	303
54	294	344	307	259	294
55	281	336	298	249	281
56	264	327	288	240	264
57	244	318	280	230	244
58	223	309	270	220	223
59	200	300	261	211	200
60	176	291	251	201	176
61	155	282	242	191	155
62	133	273	233	182	133
63	110	264	223	172	110
64	91	254	214	162	91
65	77	244	204	152	77
66	63	235	195	143	63
67	54	225	185	133	54
68	46	216	175	124	46
69	41	205	165	114	41
70	38	195	156	105	38
71	36	185	129	95	36
72	36	175	90	86	36
73	39	166	51	78	39
74	46	156	33	70	46
75	54	147	23	61	54
76	58	137	19	54	58
77	55	127	16	46	55
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79	44	109	12	32	44
80	38	100	11	26	38
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**Luminaire Report Summary**

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[TEST]  
[TESTDATE] 2023-12-07  
[TESTLAB] EVERFINE  
[ISSUE DATE] 2023-12-07 16:32:08  
[MANUFAC] SARIN Energy Solutions  
[LAMP] 15W-3000K  
[\_LAMPPOSITION] 0,0  
[\_TOTALLUMINAIRELUMENS] 1585.3  
[OTHER] EVERFINE GO-2000B\_V1 SYSTEM  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 5  
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.