

Photometrics Pro

Luminaire Photometric Report

Filename: SDL4FR - Fire-Rated Slim Downlight 4IN - 9W - IES

Manufacturer: SARIN Energy Solutions

Lamp Output: 1 lamp, rated Lumens/lamp: 732.6

Max Candela: 263.4 at Horizontal: 90°, Vertical: 0°

Input Wattage: 8.7

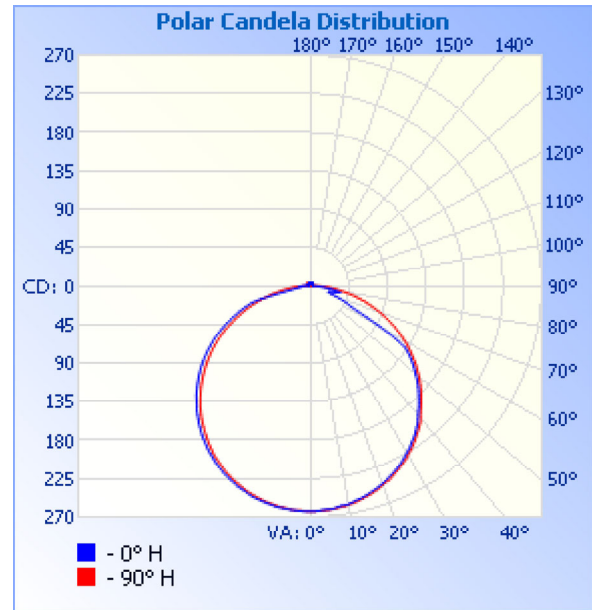
Luminous Opening: Point

Test Date: 2023-12-05

Test Lab: EVERFINE

Photometry : Type C

Nema Type: 7 X 7

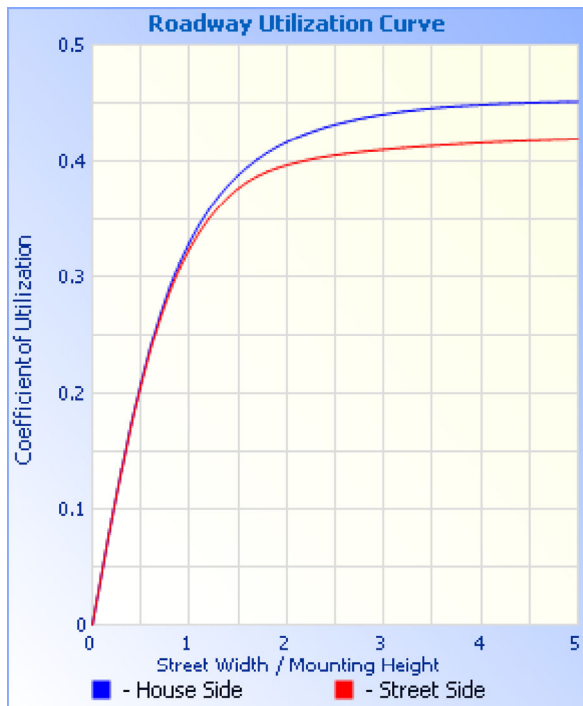
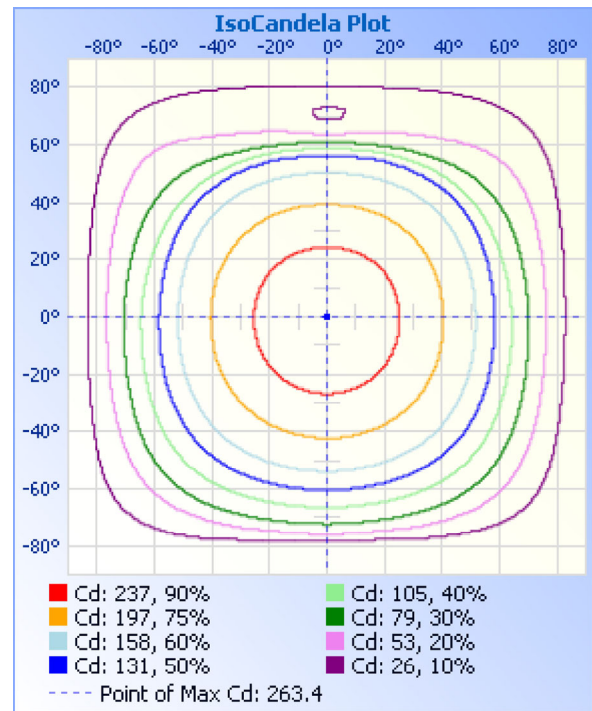
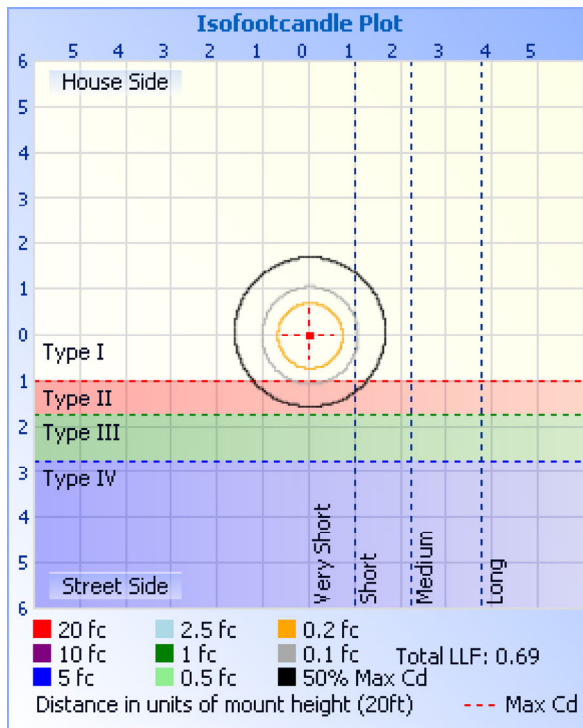


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	6.1	
Max Cd, 80 to <90 Deg:	40.5	
	Lumens % Lamp	
Downward Street Side:	371.5	50.7%
Downward House Side:	399.0	54.5%
Downward Total:	770.6	105.2%
Upward Street Side:	9.6	1.3%
Upward House Side:	8.0	1.1%
Upward Total:	17.6	2.4%
Total Lumens:	788.1	107.6%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	103.2%	756.2	166.1	146.9
Beam (50%):	80.6%	590.5	116.8	116.7
Total:	107.5%	787.8		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	206.2	28.1%	26.2%
0-40	340.1	46.4%	43.2%
0-60	610.3	83.3%	77.4%
60-90	160.2	21.9%	20.3%
70-100	72.8	9.9%	9.2%
90-120	8.0	1.1%	1%
0-90	770.5	105.2%	97.8%
90-180	17.6	2.4%	2.2%
0-180	788.1	107.6%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	24.9	3.2%	90-100	2.8	0.4%
10-20	71.7	9.1%	100-110	2.6	0.3%
20-30	109.6	13.9%	110-120	2.6	0.3%
30-40	133.9	17.0%	120-130	2.5	0.3%
40-50	140.8	17.9%	130-140	2.3	0.3%
50-60	129.4	16.4%	140-150	2.0	0.2%
60-70	90.1	11.4%	150-160	1.5	0.2%
70-80	52.7	6.7%	160-170	1.0	0.1%
80-90	17.4	2.2%	170-180	0.3	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7R	91.0 fc	5.5 ft	5.5 ft
3.3R	24.1 fc	10.7 ft	10.7 ft
5.0R	10.5 fc	16.2 ft	16.3 ft
6.7R	5.86 fc	21.7 ft	21.8 ft
8.3R	3.82 fc	26.9 ft	27.0 ft
10.0R	2.63 fc	32.5 ft	32.5 ft

Vert. Spread: 116.7°
Horiz. Spread: 116.8°

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	1.27	1.27	1.27	1.27	1.24	1.24	1.24	1.05	1.18	1.18	1.18	1.13	1.13	1.13	1.08	1.08	1.08	1.05
1	1.16	1.11	1.06	1.02	1.13	1.08	1.04	.89	1.03	1.00	.97	.99	.96	.93	.95	.92	.90	.88
2	1.06	.97	.89	.83	1.03	.94	.88	.74	.90	.85	.80	.86	.82	.77	.83	.79	.75	.73
3	.96	.85	.76	.69	.93	.83	.75	.63	.79	.72	.67	.76	.70	.65	.73	.68	.64	.61

4	.88	.75	.66	.58	.85	.74	.65	.54	.70	.63	.57	.68	.61	.56	.65	.59	.55	.52
5	.81	.67	.57	.50	.78	.66	.57	.47	.63	.55	.49	.61	.54	.48	.58	.52	.47	.45
6	.75	.60	.51	.44	.72	.59	.50	.41	.57	.49	.43	.55	.48	.42	.53	.47	.42	.39
7	.69	.55	.45	.38	.67	.54	.45	.37	.52	.44	.38	.50	.43	.37	.48	.42	.37	.35
8	.64	.50	.41	.34	.63	.49	.40	.33	.47	.39	.34	.46	.39	.33	.44	.38	.33	.31
9	.60	.46	.37	.31	.58	.45	.36	.30	.43	.36	.30	.42	.35	.30	.41	.34	.30	.28
10	.56	.42	.33	.28	.55	.41	.33	.27	.40	.33	.27	.39	.32	.27	.38	.32	.27	.25

Candela Table - Type C

	0	90	180	270	360
0	263	263	263	263	263
1	263	263	263	263	263
2	263	263	263	263	263
3	262	263	263	262	262
4	262	262	263	262	262
5	262	262	262	262	262
6	261	262	262	261	261
7	260	261	261	261	260
8	259	261	261	260	259
9	259	260	260	259	259
10	259	260	259	258	259
11	257	259	259	258	257
12	256	258	258	257	256
13	255	257	257	255	255
14	254	256	256	254	254
15	253	254	255	253	253
16	251	253	254	252	251
17	250	252	252	251	250
18	249	250	251	249	249
19	247	249	250	247	247
20	246	247	248	246	246
21	244	245	247	244	244
22	242	245	245	242	242
23	240	243	243	240	240
24	238	241	242	238	238
25	237	238	240	237	237
26	234	236	238	234	234
27	232	235	236	232	232
28	230	233	234	230	230
29	227	230	231	228	227
30	225	228	229	225	225
31	223	225	227	223	223
32	220	223	225	220	220
33	217	220	222	218	217
34	215	218	219	215	215
35	212	215	217	212	212
36	209	212	214	209	209
37	206	210	212	206	206
38	203	207	209	203	203
39	200	204	206	200	200
40	196	200	203	197	196
41	192	196	200	194	192
42	189	193	197	191	189
43	186	190	194	187	186
44	182	187	190	184	182
45	179	183	187	181	179
46	176	180	184	177	176

47	172	176	181	174	172
48	168	173	177	170	168
49	165	170	174	166	165
50	161	166	170	163	161
51	157	162	167	159	157
52	153	158	163	155	153
53	149	155	160	151	149
54	145	151	156	147	145
55	141	147	152	143	141
56	137	143	148	139	137
57	132	139	144	135	132
58	121	135	140	131	121
59	107	131	136	127	107
60	91	127	132	123	91
61	76	123	128	119	76
62	63	119	123	114	63
63	55	114	119	110	55
64	50	110	115	105	50
65	46	106	110	100	46
66	42	101	106	96	42
67	37	97	101	92	37
68	31	93	97	87	31
69	26	88	92	83	26
70	23	84	88	78	23
71	22	79	83	74	22
72	22	75	79	69	22
73	23	71	75	65	23
74	25	66	70	60	25
75	29	62	60	56	29
76	33	57	43	52	33
77	36	53	31	48	36
78	34	49	23	44	34
79	31	45	18	40	31
80	28	40	16	36	28
81	24	36	14	32	24
82	21	33	12	28	21
83	18	29	10	24	18
84	15	25	10	21	15
85	12	21	11	18	12
86	10	18	12	14	10
87	7	15	10	11	7
88	5	12	9	9	5
89	3	9	7	6	3
90	3	6	5	3	3
91	3	3	3	3	3
92	3	1	2	3	3
93	3	2	1	3	3
94	3	2	1	3	3
95	3	2	2	3	3

96	3	2	2	3	3
97	3	2	2	3	3
98	3	2	2	3	3
99	3	2	2	3	3
100	3	2	2	3	3
101	3	2	2	3	3
102	3	2	2	3	3
103	3	2	2	3	3
104	3	2	2	3	3
105	3	2	2	3	3
106	3	2	2	3	3
107	3	2	2	3	3
108	3	2	2	3	3
109	3	2	2	3	3
110	3	2	2	3	3
111	3	2	2	3	3
112	3	2	2	3	3
113	3	2	2	3	3
114	3	2	2	3	3
115	3	2	2	3	3
116	3	2	2	3	3
117	3	2	2	3	3
118	3	2	2	3	3
119	3	2	2	3	3
120	3	2	2	3	3
121	3	2	2	3	3
122	3	2	2	3	3
123	3	2	2	3	3
124	3	2	2	3	3
125	3	2	2	3	3
126	3	2	2	3	3
127	3	2	2	3	3
128	3	2	2	3	3
129	3	2	2	3	3
130	3	2	2	3	3
131	3	2	2	3	3
132	3	3	2	3	3
133	3	3	2	3	3
134	3	3	3	3	3
135	3	3	3	3	3
136	3	3	3	3	3
137	3	3	3	3	3
138	3	3	3	3	3
139	3	3	3	3	3
140	3	3	3	3	3
141	3	3	3	3	3
142	3	3	3	3	3
143	3	3	3	3	3
144	3	3	3	3	3

145	3	3	3	3	3
146	3	3	3	3	3
147	3	3	3	3	3
148	3	3	3	3	3
149	3	3	3	3	3
150	4	3	3	3	4
151	4	3	3	3	4
152	4	3	3	3	4
153	4	3	3	3	4
154	4	3	3	3	4
155	4	3	3	4	4
156	4	3	3	4	4
157	4	3	3	4	4
158	4	3	3	4	4
159	4	3	3	4	4
160	4	3	3	4	4
161	4	3	3	4	4
162	4	3	3	4	4
163	4	3	3	4	4
164	4	3	3	4	4
165	4	3	3	4	4
166	4	3	3	4	4
167	4	3	3	4	4
168	4	3	3	4	4
169	4	4	3	4	4
170	4	4	3	4	4
171	4	4	3	4	4
172	4	4	4	4	4
173	4	4	4	4	4
174	4	4	4	4	4
175	4	4	4	4	4
176	4	4	4	4	4
177	4	4	4	4	4
178	4	4	4	4	4
179	4	4	4	4	4
180	4	4	4	4	4

Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTDATE] 2023-12-05
[TESTLAB] EVERFINE
[ISSUE DATE] 2023-12-05 17:00:32
[MANUFAC] SARIN Energy Solutions
[_LAMPPOSITION] 0,0
[_TOTALLUMINAIRELUMENS] 788.1
[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

Photometrics Pro 1.3.29 copyright 2003-2024 by jSolutions, Inc.
Reported data calculated from manufacturer's data file, based on IES recommended methods.