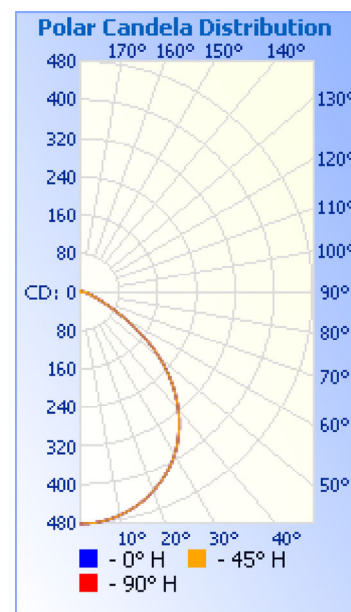


Photometrics Pro

Luminaire Photometric Report

Filename: Downlight 6in 12W DLBF90
Manufacturer: SARIN Energy Inc.
Luminaire: SES-DLBF90-5000-12
Lamp: LED
Lamp Cat: LED
Lamp Output: 1 lamp, rated Lumens/lamp: 1009.6
Max Candela: 479.4 at Horizontal: 0°, Vertical: 0°
Input Wattage: 14.97
Luminous Opening: Circular (Dia: 5.51")
Test: LCDP16010387
Test Date: 2016-4-7
Test Lab: LCTECH
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	0.2	
Max Cd, 80 to <90 Deg:	12.0	
	Lumens % Lamp	
Downward Street Side:	504.4	50%
Downward House Side:	504.4	50%
Downward Total:	1,008.8	99.9%
Upward Street Side:	0.4	0%
Upward House Side:	0.4	0%
Upward Total:	0.8	0.1%
Total Lumens:	1,009.6	100%

Flood Summary

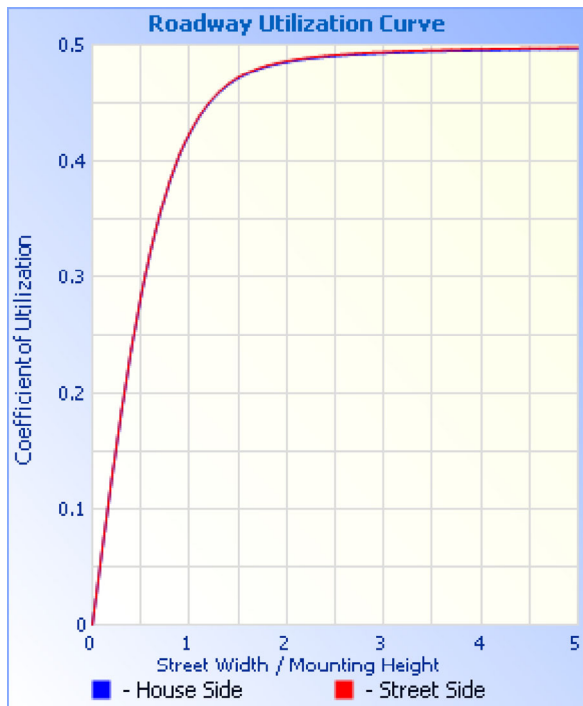
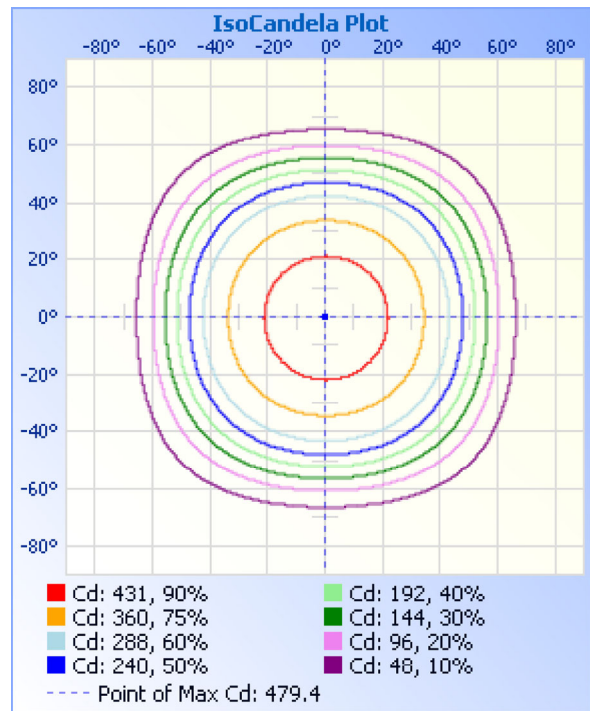
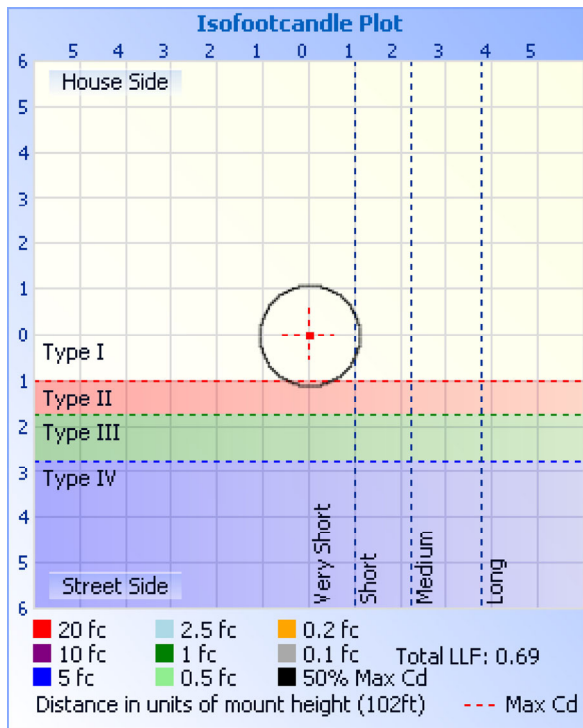
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.7%	965.8	131.9	131.9
Beam (50%):	73.3%	739.8	95.2	95.2
Total:	100%	1,009.2		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	364.5	36.1%	36.1%
0-40	584.5	57.9%	57.9%
0-60	926.1	91.7%	91.7%
60-90	82.5	8.2%	8.2%
70-100	26.3	2.6%	2.6%
90-120	0.0	0%	0%
0-90	1,008.6	99.9%	99.9%
90-180	0.8	0.1%	0.1%
0-180	1,009.4	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	45.2	4.5%	90-100	0.0	0%
10-20	128.4	12.7%	100-110	0	0%
20-30	190.9	18.9%	110-120	0	0%
30-40	219.9	21.8%	120-130	0	0%
40-50	204.0	20.2%	130-140	0	0%
50-60	137.7	13.6%	140-150	0.1	0%
60-70	56.2	5.6%	150-160	0.4	0%
70-80	20.7	2.1%	160-170	0.2	0%
80-90	5.6	0.6%	170-180	0.1	0%



Illuminance at a Distance

Height	Center Beam fc	Beam Width
16.7ft	1.72 fc	36.5 ft
33.3ft	0.43 fc	72.9 ft
50.0ft	0.19 fc	109.4 ft
66.7ft	0.11 fc	146.0 ft
83.3ft	0.07 fc	182.3 ft
100.0ft	0.05 fc	218.8 ft

Beam Spread: 95.2°

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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.11	1.07	1.04	1.00	1.08	1.05	1.02	.89	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2	1.03	.96	.90	.85	1.00	.94	.89	.78	.90	.86	.82	.87	.84	.80	.84	.81	.79	.77
3	.95	.86	.79	.73	.92	.84	.78	.68	.81	.76	.71	.79	.74	.70	.76	.72	.69	.67

4	.88	.77	.69	.64	.85	.76	.69	.60	.73	.67	.62	.71	.66	.62	.69	.65	.61	.59
5	.81	.70	.62	.56	.79	.69	.61	.54	.67	.60	.55	.65	.59	.54	.63	.58	.54	.52
6	.75	.63	.55	.50	.74	.62	.55	.48	.61	.54	.49	.59	.53	.48	.58	.52	.48	.46
7	.70	.58	.50	.44	.69	.57	.49	.43	.56	.49	.44	.54	.48	.43	.53	.47	.43	.41
8	.66	.53	.45	.40	.64	.52	.45	.39	.51	.44	.40	.50	.44	.39	.49	.43	.39	.37
9	.61	.49	.41	.36	.60	.48	.41	.35	.47	.41	.36	.46	.40	.36	.45	.40	.36	.34
10	.58	.45	.38	.33	.56	.45	.38	.32	.44	.37	.33	.43	.37	.33	.42	.36	.32	.31

Candela Table - Type C							
	0	15	30	45	60	75	90
0	479	479	479	479	479	479	479
1	479	479	479	479	479	479	479
2	478	478	478	478	478	478	478
3	478	478	478	478	478	478	478
4	478	478	478	478	478	478	478
5	476	476	476	476	476	476	476
6	475	475	475	475	475	475	475
7	474	474	474	474	474	474	474
8	472	472	472	472	472	472	472
9	470	470	470	470	470	470	470
10	468	468	468	468	468	468	468
11	466	466	466	466	466	466	466
12	464	464	464	464	464	464	464
13	461	461	461	461	461	461	461
14	458	458	458	458	458	458	458
15	456	456	456	456	456	456	456
16	452	452	452	452	452	452	452
17	449	449	449	449	449	449	449
18	445	445	445	445	445	445	445
19	441	441	441	441	441	441	441
20	438	438	438	438	438	438	438
21	434	434	434	434	434	434	434
22	429	429	429	429	429	429	429
23	425	425	425	425	425	425	425
24	420	420	420	420	420	420	420
25	415	415	415	415	415	415	415
26	410	410	410	410	410	410	410
27	404	404	404	404	404	404	404
28	399	399	399	399	399	399	399
29	393	393	393	393	393	393	393
30	387	387	387	387	387	387	387
31	380	380	380	380	380	380	380
32	374	374	374	374	374	374	374
33	367	367	367	367	367	367	367
34	360	360	360	360	360	360	360
35	353	353	353	353	353	353	353
36	345	345	345	345	345	345	345
37	337	337	337	337	337	337	337
38	329	329	329	329	329	329	329
39	321	321	321	321	321	321	321
40	312	312	312	312	312	312	312
41	304	304	304	304	304	304	304
42	294	294	294	294	294	294	294
43	285	285	285	285	285	285	285
44	276	276	276	276	276	276	276
45	266	266	266	266	266	266	266
46	256	256	256	256	256	256	256

47	246	246	246	246	246	246	246
48	235	235	235	235	235	235	235
49	224	224	224	224	224	224	224
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51	202	202	202	202	202	202	202
52	190	190	190	190	190	190	190
53	178	178	178	178	178	178	178
54	166	166	166	166	166	166	166
55	154	154	154	154	154	154	154
56	142	142	142	142	142	142	142
57	131	131	131	131	131	131	131
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77	16	16	16	16	16	16	16
78	15	15	15	15	15	15	15
79	13	13	13	13	13	13	13
80	12	12	12	12	12	12	12
81	11	11	11	11	11	11	11
82	9	9	9	9	9	9	9
83	8	8	8	8	8	8	8
84	6	6	6	6	6	6	6
85	5	5	5	5	5	5	5
86	3	3	3	3	3	3	3
87	2	2	2	2	2	2	2
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89	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0

96	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
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102	0	0	0	0	0	0	0
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107	0	0	0	0	0	0	0
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112	0	0	0	0	0	0	0
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114	0	0	0	0	0	0	0
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116	0	0	0	0	0	0	0
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120	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0
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127	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0
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131	0	0	0	0	0	0	0
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135	0	0	0	0	0	0	0
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141	0	0	0	0	0	0	0
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145	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0
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178	1	1	1	1	1	1	1
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST] LCDP16010387
[TESTDATE] 2016-4-7
[TESTLAB] LCTECH
[ISSUE DATE]
[MANUFAC] SARIN Energy Inc.
[LUMINAIRE] SES-DLBF90-5000-12
[LAMPCAT] LED
[LAMP] LED
[_TOTALLUMINAIRELUMENS] 1009.4
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 7
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.