

Photometrics Pro

Luminaire Photometric Report

Filename: CDL - Commerical Downlight - 4in - CCT - IES

Manufacturer: SARIN Energy Solutions

Lamp Output: 1 lamp, rated Lumens/lamp: 23534

Max Candela: 1,715.3 at Horizontal: 90°, Vertical: 2°

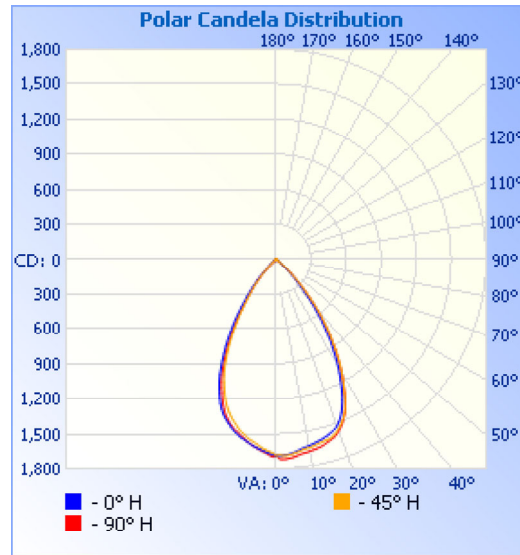
Input Wattage: 21.2506

Luminous Opening: Circular (Dia: 3.54")

Test Date: 2023-07-15

Photometry : Type C

Nema Type: 5 X 5



Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	TYPE I, VERY SHORT	
Max Cd, 90 Deg Vert:	0.1	
Max Cd, 80 to <90 Deg:	0.5	
	Lumens	% Lamp
Downward Street Side:	896.1	3.8%
Downward House Side:	818.8	3.5%
Downward Total:	1,714.9	7.3%
Total Lumens:	1,714.9	7.3%

Flood Summary

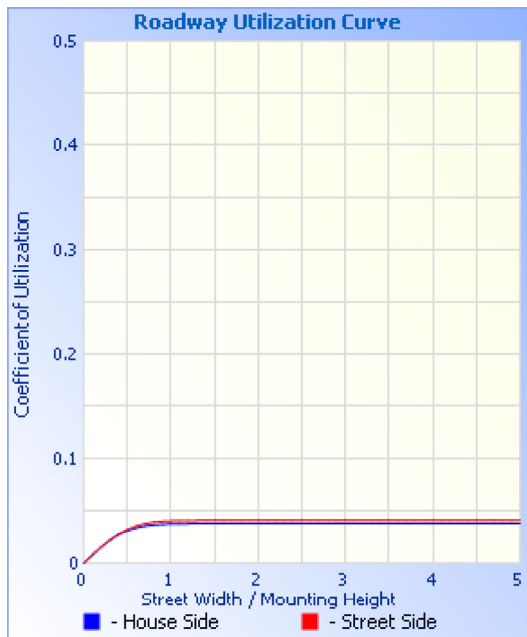
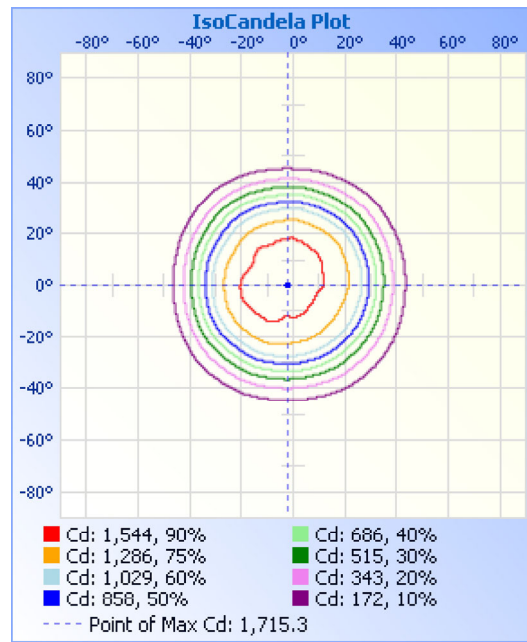
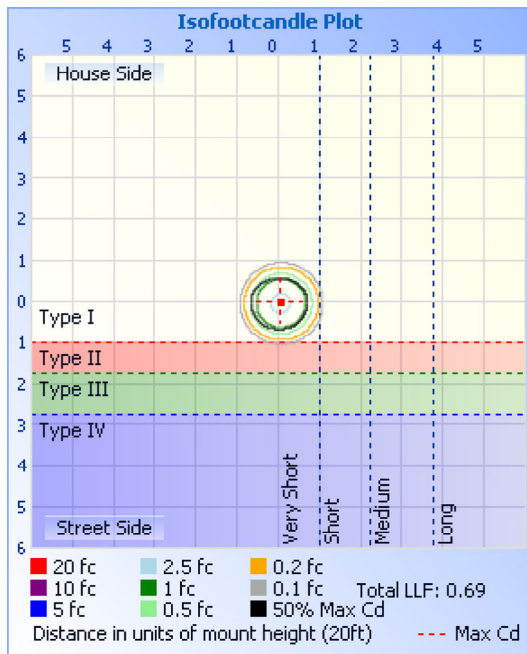
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	7%	1,647.8	89.9	89.9
Beam (50%):	5.2%	1,229.7	63.2	63.3
Total:	7.3%	1,714.8		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1,145.8	4.9%	66.8%
0-40	1,548.7	6.6%	90.3%
0-60	1,710.1	7.3%	99.7%
60-90	4.4	0%	0.3%
0-90	1,714.5	7.3%	100%

Lumens Per Zone

Zone	Lumens	% Total
0-10	155.9	9.1%
10-20	431.8	25.2%
20-30	558.2	32.6%
30-40	402.8	23.5%
40-50	141.6	8.3%
50-60	19.9	1.2%
60-70	3.3	0.2%
70-80	0.8	0.0%
80-90	0.2	0.0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
8.3R	24.4 fc	10.2 ft	10.2 ft
16.7R	6.03 fc	20.6 ft	20.5 ft
25.0R	2.69 fc	30.8 ft	30.7 ft
33.3R	1.52 fc	41.0 ft	41.0 ft
41.7R	0.97 fc	51.4 ft	51.3 ft
50.0R	0.67 fc	61.6 ft	61.5 ft

■ Vert. Spread: 63.3°
■ Horiz. Spread: 63.2°

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	.09	.09	.09	.09	.08	.08	.08	.07	.08	.08	.08	.08	.08	.08	.07	.07	.07	.07
1	.08	.08	.08	.08	.08	.08	.08	.07	.08	.07	.07	.07	.07	.07	.07	.07	.07	.07
2	.08	.07	.07	.07	.08	.07	.07	.06	.07	.07	.07	.07	.07	.07	.07	.07	.06	.06
3	.07	.07	.07	.06	.07	.07	.06	.06	.07	.06	.06	.06	.06	.06	.06	.06	.06	.06
4	.07	.06	.06	.06	.07	.06	.06	.05	.06	.06	.06	.06	.06	.06	.06	.06	.06	.05
5	.07	.06	.06	.05	.07	.06	.06	.05	.06	.05	.05	.06	.05	.05	.06	.05	.05	.05
6	.06	.06	.05	.05	.06	.06	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05
7	.06	.05	.05	.05	.06	.05	.05	.04	.05	.05	.04	.05	.05	.04	.05	.05	.04	.04
8	.06	.05	.05	.04	.06	.05	.04	.04	.05	.04	.04	.05	.04	.04	.05	.04	.04	.04
9	.05	.05	.04	.04	.05	.05	.04	.04	.05	.04	.04	.04	.04	.04	.04	.04	.04	.04

10 .05.04.04.04|.05.04.04.04|.04.04.04|.04.04.04|.04.04.04|.04

Candela Table - Type C

	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	
0	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683
1	1681	1682	1680	1678	1678	1673	1711	1704	1698	1692	1685	1680	1674	1670	1665	1661	1659	1654	1692	1689	1684	1685	1681	1683	1681	1681
2	1681	1683	1685	1683	1682	1677	1715	1706	1698	1690	1680	1671	1665	1659	1654	1649	1648	1642	1679	1675	1674	1675	1675	1679	1681	1681
3	1679	1683	1684	1684	1682	1674	1713	1702	1693	1685	1671	1663	1655	1650	1643	1638	1636	1629	1664	1664	1663	1667	1671	1675	1679	1679
4	1673	1678	1680	1680	1678	1671	1708	1699	1690	1679	1663	1653	1644	1639	1633	1626	1623	1616	1651	1652	1654	1661	1667	1671	1673	1673
5	1665	1668	1673	1673	1671	1665	1702	1694	1681	1668	1650	1639	1634	1628	1621	1611	1606	1601	1638	1641	1644	1657	1664	1665	1665	1665
6	1656	1661	1665	1664	1663	1656	1694	1688	1673	1656	1638	1628	1624	1615	1604	1593	1589	1586	1625	1629	1633	1648	1657	1656	1656	1656
7	1646	1652	1657	1656	1656	1648	1684	1680	1663	1646	1626	1617	1612	1598	1588	1578	1576	1573	1612	1617	1622	1635	1646	1646	1646	1646
8	1637	1645	1651	1648	1650	1644	1679	1672	1653	1635	1614	1603	1599	1586	1577	1567	1566	1560	1598	1601	1609	1622	1635	1636	1637	1637
9	1629	1639	1645	1642	1645	1638	1676	1665	1645	1628	1606	1585	1584	1574	1562	1552	1552	1546	1581	1583	1597	1607	1625	1628	1629	1629
10	1623	1635	1639	1639	1643	1633	1669	1658	1636	1623	1598	1569	1571	1563	1547	1532	1534	1529	1564	1566	1582	1594	1615	1619	1623	1623
11	1616	1632	1629	1635	1636	1630	1665	1649	1629	1618	1591	1553	1559	1553	1529	1516	1516	1508	1546	1551	1567	1584	1606	1611	1616	1616
12	1608	1627	1616	1628	1625	1625	1660	1642	1624	1613	1582	1540	1547	1538	1512	1498	1495	1488	1529	1538	1551	1573	1596	1602	1608	1608
13	1601	1618	1604	1621	1615	1615	1655	1634	1612	1607	1573	1531	1530	1520	1490	1476	1473	1471	1515	1526	1537	1563	1588	1592	1601	1601
14	1593	1608	1595	1616	1607	1607	1648	1627	1598	1596	1565	1522	1512	1500	1469	1452	1451	1454	1499	1509	1525	1552	1574	1580	1593	1593
15	1585	1599	1587	1611	1599	1600	1636	1618	1586	1583	1554	1513	1493	1478	1448	1430	1429	1436	1479	1488	1508	1540	1560	1568	1585	1585
16	1576	1589	1576	1607	1585	1590	1625	1606	1574	1566	1544	1498	1470	1455	1426	1404	1404	1417	1458	1464	1491	1527	1541	1555	1576	1576
17	1565	1574	1561	1601	1569	1578	1615	1593	1562	1546	1532	1480	1449	1432	1405	1377	1376	1389	1431	1438	1470	1514	1523	1543	1565	1565
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19	1542	1544	1535	1573	1528	1548	1590	1566	1533	1506	1495	1443	1401	1374	1345	1314	1307	1321	1370	1386	1418	1474	1488	1506	1542	1542
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21	1498	1495	1496	1533	1483	1514	1543	1532	1495	1453	1442	1380	1331	1298	1270	1230	1227	1243	1289	1311	1348	1406	1429	1444	1498	1498
22	1467	1461	1474	1507	1460	1492	1515	1510	1471	1419	1410	1340	1290	1255	1223	1186	1189	1199	1241	1264	1305	1365	1388	1407	1467	1467
23	1431	1426	1445	1478	1433	1468	1483	1478	1437	1380	1369	1292	1245	1209	1177	1143	1145	1155	1194	1221	1259	1322	1344	1371	1431	1431
24	1388	1384	1411	1442	1400	1438	1447	1438	1397	1336	1322	1244	1200	1163	1132	1097	1105	1112	1150	1176	1213	1274	1295	1325	1388	1388
25	1341	1335	1368	1398	1362	1401	1403	1396	1350	1287	1271	1196	1152	1112	1082	1049	1057	1061	1100	1126	1159	1224	1244	1273	1341	1341
26	1290	1280	1321	1345	1319	1354	1352	1345	1296	1231	1214	1141	1100	1056	1026	992	1001	1005	1042	1069	1103	1163	1189	1221	1290	1290
27	1233	1225	1267	1290	1266	1304	1293	1288	1238	1171	1155	1084	1040	998	973	935	942	948	979	1011	1042	1102	1128	1163	1233	1233
28	1176	1168	1214	1233	1210	1250	1236	1229	1176	1112	1099	1025	983	941	914	877	883	889	921	950	977	1038	1063	1102	1176	1176
29	1116	1108	1158	1177	1152	1191	1176	1169	1117	1052	1038	966	922	883	856	818	821	828	858	887	911	980	1000	1043	1116	1116
30	1057	1048	1101	1121	1098	1132	1119	1113	1058	995	977	903	862	822	798	757	759	767	796	822	851	918	941	984	1057	1057
31	995	989	1040	1063	1045	1078	1061	1052	998	935	915	840	800	762	734	695	698	703	729	758	789	856	878	920	995	995
32	933	929	978	1002	989	1022	998	990	933	874	846	776	737	702	678	638	642	642	666	698	725	792	816	860	933	933
33	869	867	918	939	928	960	936	927	872	808	777	714	679	643	622	581	586	584	606	640	665	725	754	798	869	869
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35	740	738	791	814	797	831	805	799	746	687	656	597	564	524	510	472	474	476	493	526	546	608	632	677	740	740
36	678	681	731	754	736	766	744	736	688	626	600	539	508	468	459	425	425	426	441	470	492	549	574	620	678	678
37	615	623	671	694	677	706	684	675	630	566	544	487	455	421	411	382	379	380	393	420	440	492	513	563	615	615
38	551	566	609	635	618	644	624	608	572	508	487	436	405	376	365	341	339	340	351	373	390	438	457	503	551	551
39	489	506	546	575	559	583	564	544	513	451	432	385	359	333	324	303	304	303	312	331	344	387	406	449	489	489
40	431	450	487	512	498	521	502	482	454	398	379	341	316	294	288	268	270	268	278	293	303	338	356	395	431	431
41	374	394	427	451	441	460	442	422	399	348	333	297	277	259	253	234	235	233	241	256	265	294	309	344	374	374
42	322	342	370	390	383	401	386	367	347	302	289	260	240	223	218	199	201	197	203	218	227	252	268	297	322	322
43	274	293	316	335	329	344	334	315	298	262	246	223	205	188	184	168	169	165	170	182	188	212	227	255	274	274
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46	157	172	185	200	199	206	202	186	179	150	145	125	117	106	102	89	89	84	86	95	98	115	122	144	157	157
47	127	140	152	165	163	171	167	152	146	121	118	100	95	84	81	72	74	67	67	78	77	90	97	115	127	127
48	102	113	123	134	130	137	134	122	115	96	94	80	78	67	67	57	59	53	53	61	60	74	76	91	102	102
49	81	90	98	106	101	106	105	94	90	74	77	63	62	53	53	46	44	43	42	44	47	58	60	75	81	81
50	63	74	76	85	77	85	84	70	72	57	59	49	45	42	40	37	35	35	34	35	38	42	47	59	63	63
51	49	58	58	65	58	63	64	52	55																	

52	38	42	44	45	43	42	43	40	38	35	33	31	29	29	27	26	24	25	25	24	26	27	30	34	38
53	30	33	34	34	33	32	33	32	30	30	27	26	24	24	22	21	21	20	20	20	21	22	25	27	30
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55	20	21	23	22	23	21	22	22	21	20	19	18	18	17	16	16	15	15	15	15	16	16	17	19	20
56	17	18	18	18	18	18	19	19	18	17	17	16	15	15	14	13	13	13	13	13	14	14	15	16	17
57	14	15	15	15	15	15	17	16	16	15	14	14	13	13	12	11	11	11	11	11	12	12	13	14	14
58	12	13	13	13	13	13	15	14	14	13	12	12	11	10	10	9	8	9	9	9	10	10	11	12	12
59	11	11	11	11	12	12	13	12	12	11	10	10	9	8	7	6	5	6	6	7	8	9	9	10	11
60	9	9	10	10	10	10	11	10	10	9	8	7	6	5	5	5	5	5	4	5	5	7	8	8	9
61	7	8	8	8	8	8	9	8	8	7	6	5	5	5	4	4	4	4	4	4	4	4	5	7	7
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63	4	5	5	5	5	5	5	5	4	4	4	4	4	3	3	3	3	3	3	3	3	3	4	4	4
64	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	3	3	3	3	4	4
65	3	4	4	4	4	3	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3	3	3
66	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3	3
67	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
68	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2
69	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	2
70	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
71	1	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
72	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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75	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
76	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1
77	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1
78	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
79	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTDATE] 2023-07-15
[TESTLAB]
[ISSUEDATE] 2023-07-15 14:49:19
[MANUFAC] SARIN Energy Solutions
[_LAMPPOSITION] 0,0
[_TOTALLUMINAIRELUMENS] 1714.5
[OTHER] EVERFINE GO-3000H_V1 SYSTEM
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 91, HORIZONTAL ANGLES: 25
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.