

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S11-LED-4FT-V-8-TW-ITL85173.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85173.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]09/17/15
[ISSUE DATE]04/15/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE S11-LED-4ft-V-8-TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 40.7 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.6 WATTS
[OTHER]see www.finelite.com for source file ITL85173. For further details on Finelite family correlation files, go to
[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf
[_ABSOLUTE LUMENS]4584

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4584
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	40.7
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.43 ft
Luminous Width (90-270)	3.96 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
90.0	0	0	0	0	0	0	0	0	0
92.5	26	25	28	35	30	9	4	3	3
95.0	80	78	79	80	63	35	20	13	12
97.5	135	136	135	130	102	64	43	34	31
100.0	201	201	197	184	145	97	70	56	54
102.5	275	274	266	246	193	133	99	82	79
105.0	355	354	341	313	247	172	132	111	107
107.5	443	440	422	385	304	216	167	143	138
110.0	536	533	509	462	368	262	206	177	171
112.5	635	630	600	538	432	313	246	213	207
115.0	738	732	699	620	500	364	287	253	244
117.5	844	837	793	704	570	421	331	294	283
120.0	953	939	893	790	643	482	379	334	325
122.5	1063	1048	995	877	714	545	427	379	363
125.0	1174	1155	1095	964	790	610	479	424	408
127.5	1281	1260	1193	1051	868	678	534	474	460
130.0	1383	1361	1287	1135	946	746	590	524	508
132.5	1482	1458	1378	1219	1024	818	652	577	560
135.0	1573	1546	1461	1298	1101	889	717	633	612
137.5	1655	1624	1538	1375	1176	961	787	690	667
140.0	1728	1696	1608	1443	1248	1032	859	752	726
142.5	1790	1759	1670	1506	1317	1102	931	818	787
145.0	1843	1813	1724	1563	1381	1171	1010	890	855
147.5	1886	1858	1770	1614	1442	1238	1081	967	928
150.0	1920	1893	1809	1659	1496	1302	1155	1048	1007
152.5	1945	1920	1841	1698	1546	1361	1226	1127	1090
155.0	1962	1940	1865	1732	1591	1421	1295	1205	1171
157.5	1969	1951	1883	1759	1631	1476	1361	1278	1249
160.0	1972	1956	1894	1782	1668	1528	1423	1349	1324
162.5	1970	1954	1900	1800	1699	1576	1485	1418	1390
165.0	1963	1946	1902	1814	1727	1620	1541	1484	1460
167.5	1949	1934	1896	1823	1748	1659	1592	1546	1526
170.0	1930	1916	1884	1828	1766	1696	1642	1603	1589
172.5	1906	1895	1869	1827	1779	1729	1687	1659	1648
175.0	1874	1867	1851	1822	1789	1756	1728	1709	1702
177.5	1838	1835	1826	1812	1796	1779	1765	1756	1751
180.0	1798	1798	1798	1798	1798	1798	1798	1798	1798

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	316.25	N.A.	6.90
90-120	805.75	N.A.	17.60
90-130	1511.08	N.A.	33.00
90-150	3203.79	N.A.	69.90
90-180	4583.85	N.A.	100.00
110-180	4267.6	N.A.	93.10
0-180	4583.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	62.15
100-110	254.10
110-120	489.50
120-130	705.33
130-140	841.46
140-150	851.24
150-160	725.69
160-170	484.48
170-180	169.90

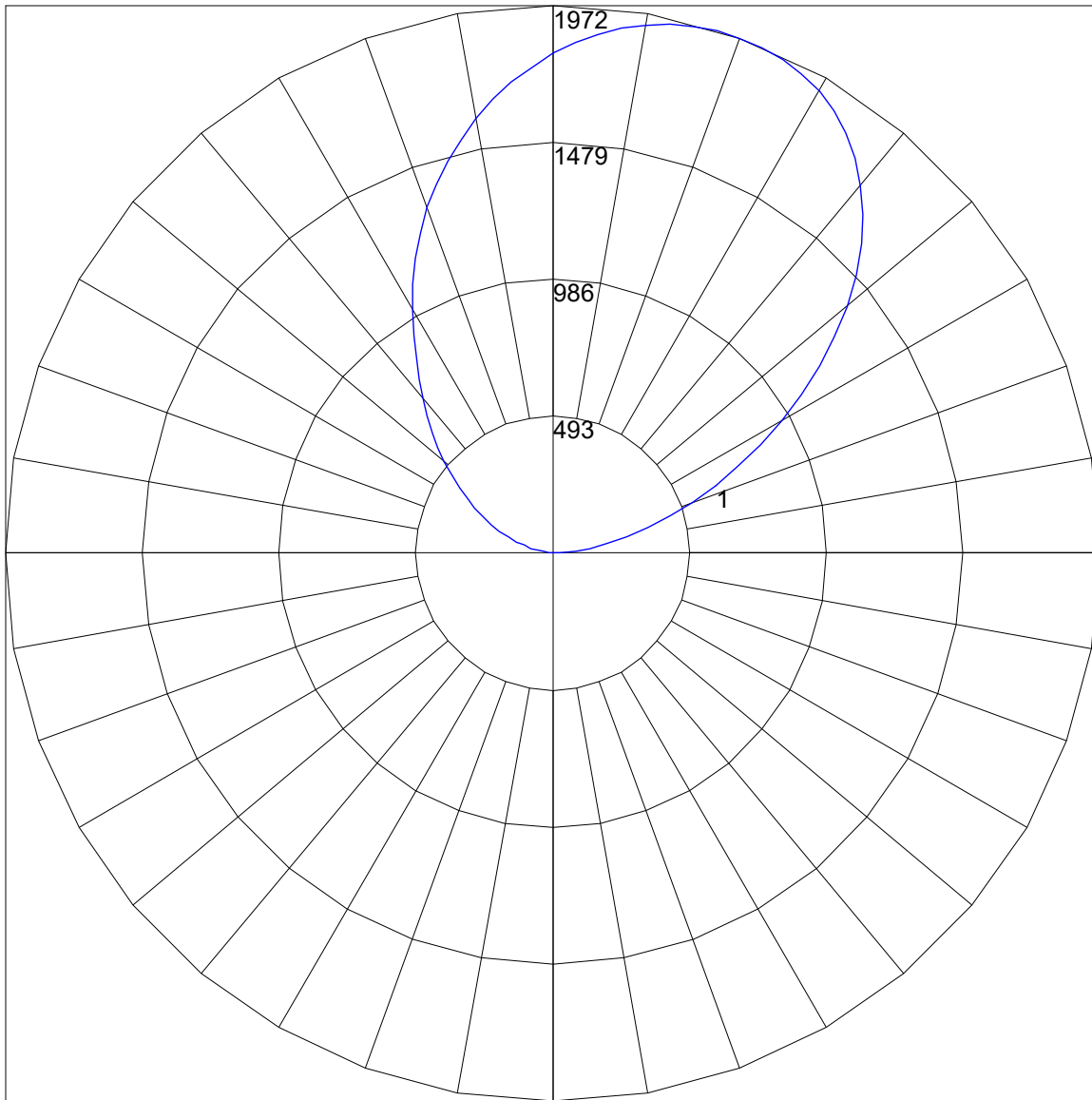
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 1972 Located At Horizontal Angle = 0, Vertical Angle = 160
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)