

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 : HPO-ID-4FT-V-V-8TW-WSO-F-ITL92549.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL92549.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]11/20/19
[ISSUEDATE]09/09/20
[MANUFAC]FINELITE, INC.
[LUMCAT]HPO-ID-4ft-V-V-8TW-WSO-F
[OTHER]ies file is based on 3500K; see luminaire tech sheet at
[more]www.finelite.com for lumen adjustment factors for other CCT's & CRI's
[INPUT_ELECTRICAL]120.0 VOLTS, 75.9 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 76.1 WATTS
[ABSOLUTE LUMENS]8227
[OTHER]see www.finelite.com for source files ITL92549. 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8227
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	75.9
Ballast Factor	1.00
CIE Type	General Diffuse
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)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17712	17712	17577
55	17123	17123	16957
65	16296	16296	16232
75	15010	15220	15273
85	13248	14027	14183

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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>
0.0	1375	1375	1375	1375	1375
2.5	1372	1373	1373	1373	1374
5.0	1367	1368	1368	1368	1369
7.5	1360	1361	1362	1362	1362
10.0	1350	1349	1351	1351	1349
12.5	1339	1334	1339	1340	1337
15.0	1322	1316	1322	1323	1320
17.5	1304	1295	1303	1304	1299
20.0	1283	1271	1280	1281	1277
22.5	1260	1245	1255	1256	1252
25.0	1230	1218	1227	1228	1225
27.5	1199	1189	1197	1199	1195
30.0	1167	1155	1166	1164	1162
32.5	1131	1120	1130	1129	1126
35.0	1094	1084	1092	1091	1087
37.5	1053	1044	1053	1051	1048
40.0	1010	1002	1012	1009	1007
42.5	967	960	968	965	960
45.0	922	915	922	918	915
47.5	873	868	874	870	869
50.0	825	818	826	821	819
52.5	774	769	774	771	768
55.0	723	718	723	719	716
57.5	670	666	669	667	665
60.0	616	612	616	613	613
62.5	560	557	561	558	560
65.0	507	504	507	505	505
67.5	450	448	452	450	453
70.0	396	395	397	397	397
72.5	339	340	343	344	345
75.0	286	286	290	291	291
77.5	233	235	237	240	240
80.0	183	184	187	188	190
82.5	134	135	138	140	140
85.0	85	86	90	92	91
87.5	39	40	43	45	46
90.0	0	0	0	0	0
92.5	14	39	84	43	37
95.0	37	83	214	99	78
97.5	63	124	396	191	140
100.0	89	161	594	332	228
102.5	116	189	744	568	376
105.0	145	218	811	923	651
107.5	173	246	810	1336	1084
110.0	200	274	787	1584	1503
112.5	229	304	770	1660	1733
115.0	259	334	763	1652	1820
117.5	290	366	766	1607	1831
120.0	316	393	769	1546	1801
122.5	342	417	773	1485	1747
125.0	364	438	777	1423	1681
127.5	384	457	779	1362	1608
130.0	402	473	780	1306	1536
132.5	419	488	779	1250	1464

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CANDELA TABULATION - (Cont.)

135.0	436	502	775	1197	1390
137.5	453	514	768	1145	1319
140.0	470	528	759	1090	1245
142.5	486	540	747	1034	1169
145.0	503	552	735	981	1097
147.5	519	562	723	931	1029
150.0	533	572	711	883	963
152.5	548	581	700	840	903
155.0	561	589	689	801	851
157.5	574	596	679	766	805
160.0	586	604	670	737	766
162.5	597	611	661	712	733
165.0	605	616	653	690	703
167.5	613	621	646	671	680
170.0	619	625	640	657	662
172.5	624	628	636	645	649
175.0	627	629	633	636	638
177.5	630	631	632	633	632
180.0	630	630	630	630	630

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	502.70	N.A.	6.10
0-30	1067.43	N.A.	13.00
0-40	1748.87	N.A.	21.30
0-60	3100.42	N.A.	37.70
0-80	3906.21	N.A.	47.50
0-90	4004.79	N.A.	48.70
10-90	3874.73	N.A.	47.10
20-40	1246.16	N.A.	15.10
20-50	1954.37	N.A.	23.80
40-70	1851.46	N.A.	22.50
60-80	805.78	N.A.	9.80
70-80	305.88	N.A.	3.70
80-90	98.58	N.A.	1.20
90-110	766.52	N.A.	9.30
90-120	1692.68	N.A.	20.60
90-130	2513.06	N.A.	30.50
90-150	3652.34	N.A.	44.40
90-180	4222.68	N.A.	51.30
110-180	3456.16	N.A.	42.00
0-180	8227.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.06
10-20	372.64
20-30	564.73
30-40	681.43
40-50	708.21
50-60	643.35
60-70	499.90
70-80	305.88
80-90	98.58
90-100	141.44
100-110	625.08
110-120	926.16
120-130	820.37
130-140	656.14
140-150	483.15
150-160	323.70
160-170	185.97
170-180	60.67

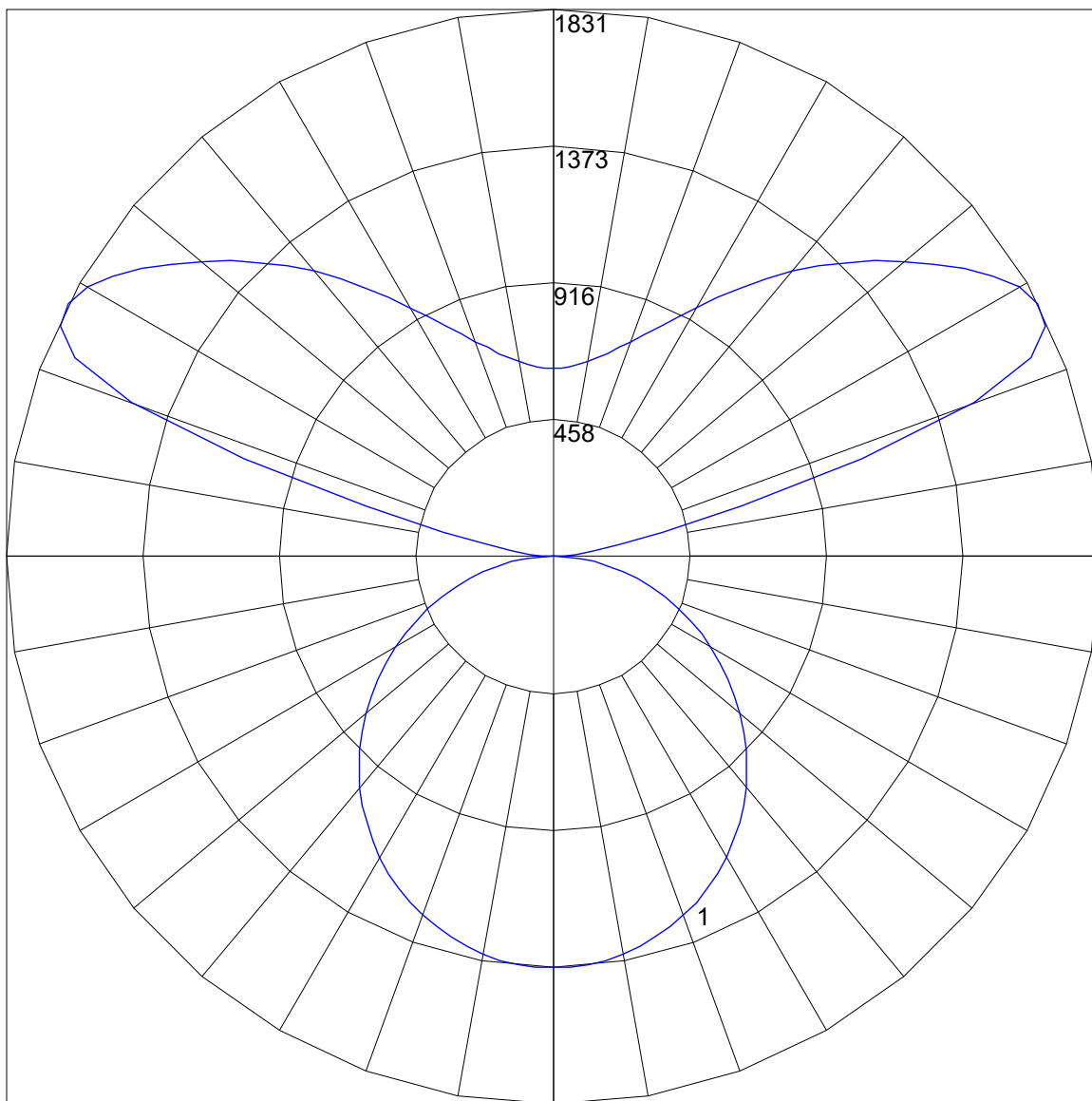
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	97	93	89	85	89	85	82	79	72	69	67	59	58	56	48	47	46	40
2	88	81	74	69	81	74	69	64	63	59	55	52	49	46	42	40	38	33
3	80	71	63	57	74	65	59	53	55	50	46	46	42	39	37	34	32	28
4	73	62	54	48	67	58	51	45	49	43	39	41	37	33	33	30	28	24
5	67	56	47	41	62	51	44	39	44	38	34	36	32	29	30	26	24	21
6	62	50	41	36	57	46	39	33	39	33	29	33	28	25	27	23	21	18
7	57	45	37	31	52	42	34	29	35	30	26	30	25	22	24	21	19	16
8	53	41	33	27	49	38	31	26	32	27	23	27	23	20	22	19	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15	13
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11

POLAR GRAPH



Maximum Candela = 1831 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)